

H6D030224 Analytical Report	1
Sample Receipt Documentation	89
Metals	99
Sample Results	100
QC Summary	131
Quality Control Results SuperTrace ICP	182
Quality Control Results Mercury	204
Raw Data SuperTrace ICP	228
Raw Data Mercury	414
Miscellaneous Data.....	443
Sample Receipt Documentation	461
Total Number of Pages	470

SEVERN
TRENT

STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921

Tel: 865 291 3000 Fax: 865 584 4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 142541

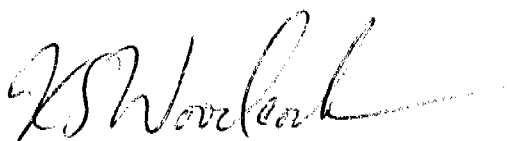
Focus/US Filter Westates M29

Lot #: H6D030224

William Anderson

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

SEVERN TRENT LABORATORIES, INC.



Kevin S. Woodcock
Project Manager

April 14, 2006

ANALYTICAL METHODS SUMMARY

H6D030224

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A

References:

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

SAMPLE SUMMARY

H6D030224

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HV1	001	G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE	03/28/06	
H2HV2	002	G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS	03/28/06	
H2HV3	003	G-2956-R1-METHOD 0060/29 EMPTY IMPINGER #4	03/28/06	
H2HV6	004	G-2957-R1-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS	03/28/06	
H2HV7	005	G-2958-R1-METHOD 0060/29 8N HCL IMPINGER RINSE	03/28/06	
H2HV8	006	G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF	03/28/06	
H2HWF	007	G-2961/2966/2972-R1 M29 BLANK BACK HALF	03/28/06	
H2HWL	008	G-3163/2967/2973-R1 M29 BLANK EMPTY IMPINGER	03/28/06	
H2HWN	009	G-2962/2968/2974-R1 M29 BLANK KMNO4 IMPINGER	03/28/06	
H2HWP	010	G-2963/2969/2975-R1 M29 BLANK HCL IMPINGER RINSE	03/28/06	
H2HWQ	011	G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE	03/29/06	
H2HWT	012	G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS	03/29/06	
H2HWV	013	G-3060-R2-METHOD 0060/29 EMPTY IMPINGER #4	03/29/06	
H2HW0	014	G-3061-R2-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS	03/29/06	
H2HW2	015	G-3062-R2-METHOD 0060/29 8N HCL IMPINGER RINSE	03/29/06	
H2HW4	016	G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE	03/30/06	
H2HW5	017	G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS	03/30/06	
H2HW6	018	G-3144-R3-METHOD 0060/29 EMPTY IMPINGER #4	03/30/06	
H2HW7	019	G-3145-R3-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS	03/30/06	
H2HW8	020	G-3146-R3-METHOD 0060/29 8N HCL IMPINGER RINSE	03/30/06	
H2HXA	021	A-5383 MEDIA CHECK	03/28/06	

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

H6D030224

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

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The “Relinquished by” field on the chain of custody documentation did not contain a signature.

Quality Control

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

Multi-Metals Train Preparation and Analysis

These stack gas samples were prepared and analyzed using STL Knoxville standard operating procedure KNOX-MT-0006 which is based on EPA SW-846 Method 0060, “Determination of Metals in Stack Emissions” and Method 29, “Determination of Metals Emissions from Stationary Sources”. SW-846 Methods 6010B and 7470A as incorporated in STL Knoxville standard operating procedures KNOX-MT-0007 and KNOX-MT-0009 were used to perform the final instrument analysis.

Acid digestion was performed on the front half particulate filter and the nitric acid probe rinse fractions separately using HNO₃ and HF. After digestion, these two fractions were combined, and the HF was sequestered using H₃BO₃ followed by another heating cycle. This digestate was adjusted to final volume and analyzed by ICP. A portion of the ICP digestate was prepared for CVAA analysis in order to determine the particle-bound mercury. Results were calculated using the following equations:

STL 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 (SDWA, expires 6/24/05), 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, US Army Corps of Engineers, 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

H6D030224

$$ICP\text{Analyte}, \mu\text{g} = \left(\frac{\text{Raw Sample}}{\text{Concentration}, \mu\text{g/L}} \right) \times \left(\frac{\text{Bench}}{\text{Dilution}} \right) \times \left(\frac{\text{Final Volume}}{\text{ICP Digestate, L}} \right)$$

$$\text{Hg}, \mu\text{g} = \left(\frac{\text{Raw Sample}}{\text{Concentration}, \mu\text{g/L}} \right) \times \left(\frac{\text{Bench}}{\text{Dilution}} \right) \times \left(\frac{\text{Final Volume}}{\text{ICP Digestate, L}} \right) \times \left(\frac{\text{Final Volume Hg Digestate, mL}}{\text{Volume ICP Digestate Used, mL}} \right)$$

The 5% HNO_3 /10% H_2O_2 impinger samples were reduced in volume to 100 mL. A 20 milliliter portion of the concentrated sample was removed and processed for mercury. The remaining 80 mL of concentrated sample was digested using HNO_3 and H_2O_2 , adjusted to a final volume of 80 mL, and analyzed by ICP. Results were calculated using the following equations:

$$ICP\text{Analyte}, \mu\text{g} = \left(\frac{\text{Raw Sample}}{\text{Concentration}, \mu\text{g/L}} \right) \times \left(\frac{\text{Bench}}{\text{Dilution}} \right) \times \left(\frac{\text{Final Volume}}{\text{Concentrated Sample, L}} \right) \times \left(\frac{\text{Final Volume ICP Digestate, mL}}{\text{Volume Conc. Sample Digested, mL}} \right)$$

$$\text{Hg}, \mu\text{g} = \left(\frac{\text{Raw Sample}}{\text{Concentration}, \mu\text{g/L}} \right) \times \left(\frac{\text{Bench}}{\text{Dilution}} \right) \times \left(\frac{\text{Final Volume}}{\text{Concentrated Sample, L}} \right) \times \left(\frac{\text{Final Volume Hg Digestate, mL}}{\text{Volume Conc. Sample Digested, mL}} \right)$$

For the 0.1N HNO_3 rinse samples (empty impingers), a 2.5 milliliter portion of the sample as received was removed and processed for mercury.

The 4% KMnO_4 /10% H_2SO_4 impinger samples were filtered to remove MnO_2 , followed by removal of a 25 mL portion of filtrate for mercury processing. The filtered MnO_2 residue was digested in HCl, combined with the HCl rinse sample and analyzed for mercury.

Results for the 0.1N HNO_3 rinse samples and the KMnO_4 filtrate were calculated using the following equation:

STL 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 (SDWA, expires 6/24/05), 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, US Army Corps of Engineers, 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

H6D030224

$$Hg, ug = \left(\frac{Raw Sample}{Concentration, \mu g/L} \right) \times \left(\frac{Bench}{Dilution Factor} \right) \times \left(\frac{Total Sample}{Volume, L} \right) \times \left(\frac{Final Volume Hg Digestate, mL}{Volume Sample Digested, mL} \right)$$

Results for the combined MnO₂ residue HCl digestates and HCl rinse samples were calculated as follows:

$$Hg, ug = \left(\frac{Raw Sample}{Concentration, \mu g/L} \right) \times \left(\frac{Bench}{Dilution Factor} \right) \times \left(\frac{Total Sample Volume, L}{MnO_2 HCl Volume, L} + \right) \times \left(\frac{Final Volume Hg Digestate, mL}{Volume Sample Digested, mL} \right)$$

Please note that the dilution factor reported on the mercury sample result form is actually the combination of preparation factors (not just a dilution factor) required by the method to convert the reporting limits and method detection limits in concentration units from ug/L to a total ug unit:

$$Hg Dilution Factor = \left(\frac{Bench}{Dilution Factor} \right) \times \left(\frac{Total Sample}{Volume, L} \right) \times \left(\frac{Final Volume Hg Digestate, mL}{Volume Sample Digested, mL} \right)$$

Note: The *Total Sample Volume, L* for the 5% HNO₃/10% H₂O₂ impinger samples is the final volume of the concentrated sample. The *Total Sample Volume, L* for the combined MnO₂ residue HCl digestates and HCl rinse samples is equal to the total sample volume plus the MnO₂ HCl volume.

The serial dilution of samples G-2953/2954-R1-Method 0060/29 Front Half Composite and G-2955-R1-Method 0060/29 5% HNO₃/10% H₂O₂ Impingers were outside control limits for aluminum, copper and manganese due to physical or chemical matrix interferences.

The post digestion spike/post digestion spike duplicate recoveries for samples G-2953/2954-R1-Method 0060/29 Front Half Composite, G-3141/3142-R3-Method 0060/29 Front Half Composite and G-3057/3058-R2-Method 0060/29 Front Half Composite were outside control limits for lead. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. Results outside of

STL 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 (SDWA, expires 6/24/05), 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, US Army Corps of Engineers, 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

H6D030224

limits do not necessarily reflect poor method performance due to high analyte concentrations in the sample relative to the spike level.

The matrix spike duplicate recovery and RPD for sample G-2961/2966/2972-R1 M29 Blank Back Half was outside control limits for manganese. However, the laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects.

The matrix spike/matrix spike duplicate recoveries for sample G-2958-R1-Method 0060/29 8N HCL Impinger Rinse were outside control limits for mercury because the native analyte concentration in the sample was at least four times greater than the spike level. The laboratory control samples showed acceptable results indicating that the analysis was in control. This sample was redigested and analyzed at a dilution in order to provide a calculated percent recovery for the matrix spike/matrix spike duplicate. Both sets of data are included in the report.

The matrix spike duplicate recoveries and RPDs for samples G-2962/2968/2974- R1 M29 Blank KMN04 Impinger and G-2963/2969/2975-R1 M29 Blank HCL Impinger Rinse were outside control limits for mercury. However, the laboratory control samples showed acceptable results indicating that the analysis was in control. The samples received by the laboratory for the matrix spike duplicate analysis for the afore mentioned samples were reanalyzed for the purpose of confirming the samples as received were contaminated with mercury.

STL 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 (SDWA, expires 6/24/05), 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, US Army Corps of Engineers, 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.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-001

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	105	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AA
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 11.0	
Antimony	3.9 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AC
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 1.4	
Arsenic	5.6	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AD
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.35	
Barium	7.2 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AE
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.35	
Beryllium	0.20 B	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV11AF
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.18	
Cadmium	10.2	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV11AG
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.50	
Chromium	54.5	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AH
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.28	
Cobalt	0.62 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AJ
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.50	
Copper	162	2.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AK
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.70	
Lead	352	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AL
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.37	
Manganese	59.5	1.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AM
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.18	
Nickel	10.9	4.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AN
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.44	
Selenium	3.3	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AP
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-001

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	1.4 B	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AQ
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.97	
Thallium	10	3.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AR
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 3.5	
Vanadium	2.5 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AT
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.50	
Zinc	206	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AU
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.38	
Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HV11AV
		Dilution Factor: 1		Analysis Time...: 15:46	MDL.....: 0.060	

NOTE (S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-002

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	27.3	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AA
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AC
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AD
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.33	
Barium	3.0 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AE
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV21AF
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.18	
Cadmium	1.9	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV21AG
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.082	
Chromium	1.5	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AH
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AJ
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.50	
Copper	5.1	2.5	ug	SW846 6010B	04/05-04/10/06	H2HV21AK
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.70	
Lead	4.8	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AL
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.37	
Manganese	6.3	1.5	ug	SW846 6010B	04/05-04/10/06	H2HV21AM
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.18	
Nickel	1.1 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AN
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.40	
Selenium	1.2	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AP
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-002

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	1.2 B	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AQ
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HV21AR
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AT
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.50	
Zinc	12.4	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AU
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.45	
Prep Batch #...: 6097038						
Mercury	1.3	0.40	ug	SW846 7470A	04/10/06	H2HV21AV
		Dilution Factor: 2		Analysis Time...: 16:47	MDL.....: 0.12	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2956-R1-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-003

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097038						
Mercury	ND	0.42	ug	SW846 7470A	04/10/06	H2HV31AA
		Dilution Factor: 2.1		Analysis Time...: 16:51	MDL.....: 0.13	

STL Knoxville - ACS

Client Sample ID: G-2957-R1-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-004

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	0.93	0.14	ug	SW846 7470A	04/10/06	H2HV61AA
		Dilution Factor: 0.72		Analysis Time.: 16:07	MDL.....: 0.043	

STL Knoxville - ACS

Client Sample ID: G-2958-R1-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-005

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	--------------------	-------	--------	-------------------------------	-----------------

Prep Batch #...: 6097041

Mercury	8.4	0.35	ug	SW846 7470A	04/10/06	H2HV71AA
---------	-----	------	----	-------------	----------	----------

Dilution Factor: 1.75

Analysis Time...: 16:13

MDL.....: 0.10

Prep Batch #...: 6111407

Mercury	8.8	0.70	ug	SW846 7470A	04/24/06	H2HV72AA
---------	-----	------	----	-------------	----------	----------

Dilution Factor: 3.5

Analysis Time...: 14:48

MDL.....: 0.21

STL Knoxville - ACS

Client Sample ID: G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF

TOTAL Metals

Lot-Sample #...: H6D030224-006

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	74.0	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AA
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 11.0	
Antimony	2.7 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AE
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AH
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.35	
Barium	1.8 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AL
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV81AP
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV81AT
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.50	
Chromium	0.40 B	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AW
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV81A1
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.50	
Copper	1.2 B	2.5	ug	SW846 6010B	04/05-04/10/06	H2HV81A4
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81A7
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.37	
Manganese	0.69 B	1.5	ug	SW846 6010B	04/05-04/10/06	H2HV81CA
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.18	
Nickel	3.7 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CE
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.44	
Selenium	2.0	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CH
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF

TOTAL Metals

Lot-Sample #...: H6D030224-006

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CL
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.97	
Thallium	9.1	3.5	ug	SW846 6010B	04/05-04/10/06	H2HV81CP
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 3.5	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CT
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.50	
Zinc	4.9	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CW
		Dilution Factor: 1		Analysis Time..: 17:02	MDL.....: 0.38	
Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HV81C1
		Dilution Factor: 1		Analysis Time..: 15:50	MDL.....: 0.060	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2961/2966/2972-R1 M29 BLANK BACK HALF

TOTAL Metals

Lot-Sample #...: H6D030224-007

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AA
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AE
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AH
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.33	
Barium	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AL
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWF1AP
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWF1AT
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.082	
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AW
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1A1
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.50	
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1A4
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1A7
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.37	
Manganese	ND	1.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1CA
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.18	
Nickel	ND	4.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CE
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.40	
Selenium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CH
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2961/2966/2972-R1 M29 BLANK BACK HALF

TOTAL Metals

Lot-Sample #...: H6D030224-007

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CL
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1CP
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CT
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.50	
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CW
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.45	
Prep Batch #...: 6097038						
Mercury	ND	0.40	ug	SW846 7470A	04/10/06	H2HWF1C1
		Dilution Factor: 2		Analysis Time...: 16:57	MDL.....: 0.12	

STL Knoxville - ACS

Client Sample ID: G-3163/2967/2973-R1 M29 BLANK EMPTY IMPINGER

TOTAL Metals

Lot-Sample #...: H6D030224-008

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097038						
Mercury	ND	0.40	ug	SW846 7470A	04/10/06	H2HWL1AA
		Dilution Factor: 2		Analysis Time...: 17:09	MDL.....: 0.12	

STL Knoxville - ACS

Client Sample ID: G-2962/2968/2974-R1 M29 BLANK KMNO4 IMPINGER

TOTAL Metals

Lot-Sample #...: H6D030224-009

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	ND	0.040	ug	SW846 7470A	04/10/06	H2HWN1AA
		Dilution Factor: 0.2		Analysis Time...: 16:23	MDL.....: 0.012	

STL Knoxville - ACS

Client Sample ID: G-2963/2969/2975-R1 M29 BLANK HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-010

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	ND	0.15	ug	SW846 7470A	04/10/06	H2HWP1AA
		Dilution Factor: 0.75		Analysis Time...: 16:29	MDL.....: 0.045	

STL Knoxville - ACS

Client Sample ID: G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-011

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	84.8	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AA
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 11.0	
Antimony	3.4 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AC
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 1.4	
Arsenic	2.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AD
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.35	
Barium	5.1 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AE
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AF
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.18	
Cadmium	5.7	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AG
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.50	
Chromium	18.0	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AH
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AJ
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.50	
Copper	100	2.5	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AK
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.70	
Lead	233	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AL
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.37	
Manganese	37.8	1.5	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AM
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.18	
Nickel	8.4	4.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AN
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.44	
Selenium	2.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AP
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-011

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	1.2 B	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AQ
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.97	
Thallium	9.6	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AR
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 3.5	
Vanadium	1.1 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AT
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.50	
Zinc	117	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AU
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.38	
Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HWQ1AV
		Dilution Factor: 1		Analysis Time...: 16:00	MDL.....: 0.060	

NOTE (S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-012

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	38.4	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AA
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AC
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AD
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.33	
Barium	3.9 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AE
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWT1AF
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.18	
Cadmium	2.2	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWT1AG
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.082	
Chromium	2.2	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AH
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AJ
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.50	
Copper	8.1	2.5	ug	SW846 6010B	04/05-04/10/06	H2HWT1AK
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.70	
Lead	17.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AL
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.37	
Manganese	4.2	1.5	ug	SW846 6010B	04/05-04/10/06	H2HWT1AM
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.18	
Nickel	3.0 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AN
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.40	
Selenium	1.6	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AP
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-012

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	4.5	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AQ
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWT1AR
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AT
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.50	
Zinc	19.2	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AU
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.45	
Prep Batch #...: 6097038						
Mercury	1.7	0.40	ug	SW846 7470A	04/10/06	H2HWT1AV
		Dilution Factor: 2		Analysis Time...: 17:15	MDL.....: 0.12	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3060-R2-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-013

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097038						
Mercury	ND	0.80	ug	SW846 7470A	04/10/06	H2HWV1AA
		Dilution Factor: 4		Analysis Time...: 17:19	MDL.....: 0.24	

STL Knoxville - ACS

Client Sample ID: G-3061-R2-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-014

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	0.69	0.18	ug	SW846 7470A	04/10/06	H2HW01AA
		Dilution Factor: 0.9		Analysis Time...: 16:35	MDL.....: 0.054	

STL Knoxville - ACS

Client Sample ID: G-3062-R2-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-015

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	8.6	0.35	ug	SW846 7470A	04/10/06	H2HW21AA
		Dilution Factor: 1.75		Analysis Time...: 16:37	MDL.....: 0.10	

STL Knoxville - ACS

Client Sample ID: G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-016

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	92.8	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AA
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 11.0	
Antimony	3.5 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AC
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 1.4	
Arsenic	3.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AD
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.35	
Barium	5.4 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AE
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW41AF
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.18	
Cadmium	9.0	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW41AG
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.50	
Chromium	35.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AH
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AJ
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.50	
Copper	109	2.5	ug	SW846 6010B	04/05-04/10/06	H2HW41AK
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.70	
Lead	690	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AL
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.37	
Manganese	39.4	1.5	ug	SW846 6010B	04/05-04/10/06	H2HW41AM
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.18	
Nickel	8.4	4.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AN
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.44	
Selenium	3.1	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AP
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-016

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AQ
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.97	
Thallium	9.7	3.5	ug	SW846 6010B	04/05-04/10/06	H2HW41AR
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 3.5	
Vanadium	1.5 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AT
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.50	
Zinc	126	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AU
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.38	
Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HW41AV
		Dilution Factor: 1		Analysis Time...: 16:04	MDL.....: 0.060	

NOTE (S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-017

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	32.4	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AA
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AC
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AD
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.33	
Barium	5.4 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AE
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW51AF
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.18	
Cadmium	0.71	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW51AG
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.082	
Chromium	1.1	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AH
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AJ
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.50	
Copper	3.4	2.5	ug	SW846 6010B	04/05-04/10/06	H2HW51AK
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.70	
Lead	4.2	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AL
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.37	
Manganese	2.0	1.5	ug	SW846 6010B	04/05-04/10/06	H2HW51AM
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.18	
Nickel	1.0 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AN
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.40	
Selenium	0.84 B	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AP
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #....: H6D030224-017

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AQ
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HW51AR
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AT
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.50	
Zinc	7.3	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AU
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.45	
Prep Batch #....: 6097038						
Mercury	4.3	0.40	ug	SW846 7470A	04/10/06	H2HW51AV
		Dilution Factor: 2		Analysis Time...: 17:21	MDL.....: 0.12	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3144-R3-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #....: H6D030224-018

Matrix.....: AIR

Date Sampled....: 03/30/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #....: 6097038						
Mercury	ND	0.48	ug	SW846 7470A	04/10/06	H2HW61AA
		Dilution Factor: 2.4		Analysis Time...: 17:25	MDL.....: 0.14	

STL Knoxville - ACS

Client Sample ID: G-3145-R3-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-019

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	3.3	0.19	ug	SW846 7470A	04/10/06	H2HW71AA
		Dilution Factor: 0.97		Analysis Time.: 16:43	MDL.....: 0.058	

STL Knoxville - ACS

Client Sample ID: G-3146-R3-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-020

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	6.9	0.32	ug	SW846 7470A	04/10/06	H2HW81AA
		Dilution Factor: 1.6		Analysis Time...: 16:46	MDL.....: 0.096	

STL Knoxville - ACS

Client Sample ID: A-5383 MEDIA CHECK

TOTAL Metals

Lot-Sample #....: H6D030224-021

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 6095073						
Aluminum	71.2	20.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AA
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 11.0	
Antimony	3.0 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AC
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AD
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.35	
Barium	1.9 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AE
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HXA1AF
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HXA1AG
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.50	
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AH
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AJ
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.50	
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2HXA1AK
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AL
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.37	
Manganese	0.37 B	1.5	ug	SW846 6010B	04/05-04/10/06	H2HXA1AM
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.18	
Nickel	3.6 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AN
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.44	
Selenium	1.9	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AP
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: A-5383 MEDIA CHECK

TOTAL Metals

Lot-Sample #...: H6D030224-021

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AQ
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.97	
Thallium	9.8	3.5	ug	SW846 6010B	04/05-04/10/06	H2HXA1AR
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 3.5	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AT
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.50	
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AU
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.38	

NOTE(S) :

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H6D050000-073 Prep Batch #... : 6095073						
Aluminum	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AA
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AC
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AD
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Barium	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AE
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LWV1AF
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LWV1AG
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AH
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AJ
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2LWV1AK
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AL
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Manganese	ND	1.5	ug	SW846 6010B	04/05-04/10/06	H2LWV1AM
		Dilution Factor: 1				
		Analysis Time...: 14:17				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel	ND	4.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AN
		Dilution Factor: 1 Analysis Time...: 14:17				
Selenium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AP
		Dilution Factor: 1 Analysis Time...: 14:17				
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AQ
		Dilution Factor: 1 Analysis Time...: 14:17				
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2LWV1AR
		Dilution Factor: 1 Analysis Time...: 14:17				
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AT
		Dilution Factor: 1 Analysis Time...: 14:17				
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AU
		Dilution Factor: 1 Analysis Time...: 14:17				

MB Lot-Sample #: H6D050000-074 Prep Batch #....: 6095074

Aluminum	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AA
		Dilution Factor: 1 Analysis Time...: 13:58				
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AC
		Dilution Factor: 1 Analysis Time...: 13:58				
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AD
		Dilution Factor: 1 Analysis Time...: 13:58				
Barium	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AE
		Dilution Factor: 1 Analysis Time...: 13:58				
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LW01AF
		Dilution Factor: 1 Analysis Time...: 13:58				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LW01AG
		Dilution Factor: 1 Analysis Time...: 13:58				
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AH
		Dilution Factor: 1 Analysis Time...: 13:58				
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AJ
		Dilution Factor: 1 Analysis Time...: 13:58				
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2LW01AK
		Dilution Factor: 1 Analysis Time...: 13:58				
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AL
		Dilution Factor: 1 Analysis Time...: 13:58				
Manganese	ND	1.5	ug	SW846 6010B	04/05-04/10/06	H2LW01AM
		Dilution Factor: 1 Analysis Time...: 13:58				
Nickel	ND	4.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AN
		Dilution Factor: 1 Analysis Time...: 13:58				
Selenium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AP
		Dilution Factor: 1 Analysis Time...: 13:58				
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AQ
		Dilution Factor: 1 Analysis Time...: 13:58				
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2LW01AR
		Dilution Factor: 1 Analysis Time...: 13:58				
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AT
		Dilution Factor: 1 Analysis Time...: 13:58				
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AU
		Dilution Factor: 1 Analysis Time...: 13:58				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H6D070000-037 Prep Batch #... : 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2RMK1AA
		Dilution Factor: 1				
		Analysis Time...: 15:32				
MB Lot-Sample #: H6D070000-038 Prep Batch #... : 6097038						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2RMM1AA
		Dilution Factor: 1				
		Analysis Time...: 15:41				
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2RMM1AC
		Dilution Factor: 1				
		Analysis Time...: 15:41				
MB Lot-Sample #: H6D070000-041 Prep Batch #... : 6097041						
Mercury	ND	0.010	ug	SW846 7470A	04/10/06	H2RMR1AA
		Dilution Factor: 0.05				
		Analysis Time...: 15:37				
Mercury	ND	0.010	ug	SW846 7470A	04/10/06	H2RMR1AC
		Dilution Factor: 0.05				
		Analysis Time...: 15:37				
MB Lot-Sample #: H6D210000-407 Prep Batch #... : 6111407						
Mercury	ND	0.010	ug	SW846 7470A	04/24/06	H3TL41AA
		Dilution Factor: 0.05				
		Analysis Time...: 14:38				

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Aluminum	101	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	100	(80 - 120)	1.1	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Antimony	92	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	92	(80 - 120)	0.39	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Arsenic	95	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	0.10	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Barium	97	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	96	(80 - 120)	0.69	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Beryllium	95	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	0.02	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Cadmium	99	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	99	(80 - 120)	0.30	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Chromium	97	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	97	(80 - 120)	0.39	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Cobalt	96	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	0.42	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Copper	94	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	93	(80 - 120)	1.2	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		
Lead	97	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	97	(80 - 120)	0.22	(0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1			Analysis Time...: 14:23		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Manganese	98	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	98	(80 - 120)	0.01	(0-20)	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1		Analysis Time...: 14:23		
Nickel	98	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	98	(80 - 120)	0.26	(0-20)	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1		Analysis Time...: 14:23		
Selenium	95	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	94	(80 - 120)	0.94	(0-20)	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1		Analysis Time...: 14:23		
Silver	92	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	3.2	(0-20)	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1		Analysis Time...: 14:23		
Thallium	99	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	99	(80 - 120)	0.15	(0-20)	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1		Analysis Time...: 14:23		
Vanadium	97	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	97	(80 - 120)	0.03	(0-20)	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1		Analysis Time...: 14:23		
Zinc	102	(80 - 120)			SW846 6010B	04/05-04/10/06	6095073
	102	(80 - 120)	0.31	(0-20)	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1		Analysis Time...: 14:23		
Aluminum	94	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	2.9	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Antimony	90	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	92	(80 - 120)	1.9	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Arsenic	92	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	94	(80 - 120)	2.4	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Barium	96	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	1.3	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Beryllium	99	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.68	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Cadmium	102	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	102	(80 - 120)	0.07	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Chromium	100	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	99	(80 - 120)	0.62	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Cobalt	96	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	98	(80 - 120)	1.3	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Copper	93	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	95	(80 - 120)	1.7	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Lead	101	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.51	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Manganese	100	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.18	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Nickel	99	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.69	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		
Selenium	89	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	92	(80 - 120)	2.8	(0-20)	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1		Analysis Time...: 14:04		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Silver	98	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	0.90	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Thallium	96	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	1.8	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Vanadium	98	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	99	(80 - 120)	0.93	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Zinc	102	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	103	(80 - 120)	1.6	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Mercury	84	(80 - 120)			SW846 7470A	04/10/06	6097037
	84	(80 - 120)	0.23	(0-20)	SW846 7470A	04/10/06	6097037
		Dilution Factor: 1			Analysis Time...: 15:34		

NOTE (S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Aluminum	200	202	ug	101		SW846 6010B	04/05-04/10/06	6095073
	200	200	ug	100	1.1	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Antimony	50.0	46.1	ug	92		SW846 6010B	04/05-04/10/06	6095073
	50.0	45.9	ug	92	0.39	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Arsenic	10.0	9.46	ug	95		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.46	ug	95	0.10	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Barium	10.0	9.69	ug	97		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.62	ug	96	0.69	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Beryllium	5.00	4.74	ug	95		SW846 6010B	04/05-04/10/06	6095073
	5.00	4.74	ug	95	0.02	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Cadmium	5.00	4.96	ug	99		SW846 6010B	04/05-04/10/06	6095073
	5.00	4.97	ug	99	0.30	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Chromium	20.0	19.4	ug	97		SW846 6010B	04/05-04/10/06	6095073
	20.0	19.5	ug	97	0.39	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Cobalt	10.0	9.59	ug	96		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.55	ug	95	0.42	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Copper	25.0	23.4	ug	94		SW846 6010B	04/05-04/10/06	6095073
	25.0	23.2	ug	93	1.2	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		
Lead	10.0	9.70	ug	97		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.72	ug	97	0.22	SW846 6010B	04/05-04/10/06	6095073
			Dilution Factor: 1			Analysis Time...: 14:23		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #....: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Manganese	10.0	9.82	ug	98		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.82	ug	98	0.01	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Nickel	50.0	48.9	ug	98		SW846 6010B	04/05-04/10/06	6095073
	50.0	49.1	ug	98	0.26	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Selenium	15.0	14.2	ug	95		SW846 6010B	04/05-04/10/06	6095073
	15.0	14.1	ug	94	0.94	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Silver	5.00	4.62	ug	92		SW846 6010B	04/05-04/10/06	6095073
	5.00	4.77	ug	95	3.2	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Thallium	40.0	39.7	ug	99		SW846 6010B	04/05-04/10/06	6095073
	40.0	39.7	ug	99	0.15	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Vanadium	20.0	19.3	ug	97		SW846 6010B	04/05-04/10/06	6095073
	20.0	19.3	ug	97	0.03	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Zinc	50.0	51.1	ug	102		SW846 6010B	04/05-04/10/06	6095073
	50.0	51.0	ug	102	0.31	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Aluminum	200	189	ug	94		SW846 6010B	04/05-04/10/06	6095074
	200	194	ug	97	2.9	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Antimony	50.0	45.2	ug	90		SW846 6010B	04/05-04/10/06	6095074
	50.0	46.0	ug	92	1.9	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Arsenic	10.0	9.21	ug	92		SW846 6010B	04/05-04/10/06	6095074
	10.0	9.44	ug	94	2.4	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Barium	10.0	9.62	ug	96		SW846 6010B	04/05-04/10/06	6095074
	10.0	9.75	ug	97	1.3	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Beryllium	5.00	4.94	ug	99		SW846 6010B	04/05-04/10/06	6095074
	5.00	4.98	ug	100	0.68	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Cadmium	5.00	5.08	ug	102		SW846 6010B	04/05-04/10/06	6095074
	5.00	5.08	ug	102	0.07	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Chromium	20.0	20.0	ug	100		SW846 6010B	04/05-04/10/06	6095074
	20.0	19.9	ug	99	0.62	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Cobalt	10.0	9.64	ug	96		SW846 6010B	04/05-04/10/06	6095074
	10.0	9.77	ug	98	1.3	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Copper	25.0	23.3	ug	93		SW846 6010B	04/05-04/10/06	6095074
	25.0	23.7	ug	95	1.7	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Lead	10.0	10.1	ug	101		SW846 6010B	04/05-04/10/06	6095074
	10.0	10.0	ug	100	0.51	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Manganese	10.0	10.0	ug	100		SW846 6010B	04/05-04/10/06	6095074
	10.0	10.0	ug	100	0.18	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Nickel	50.0	49.7	ug	99		SW846 6010B	04/05-04/10/06	6095074
	50.0	50.1	ug	100	0.69	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Selenium	15.0	13.4	ug	89		SW846 6010B	04/05-04/10/06	6095074
	15.0	13.7	ug	92	2.8	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Silver	5.00	4.88	ug	98		SW846 6010B	04/05-04/10/06	6095074
	5.00	4.84	ug	97	0.90	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Thallium	40.0	38.3	ug	96		SW846 6010B	04/05-04/10/06	6095074
	40.0	39.0	ug	97	1.8	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Vanadium	20.0	19.6	ug	98		SW846 6010B	04/05-04/10/06	6095074
	20.0	19.8	ug	99	0.93	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Zinc	50.0	50.8	ug	102		SW846 6010B	04/05-04/10/06	6095074
	50.0	51.7	ug	103	1.6	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Mercury	5.00	4.21	ug	84		SW846 7470A	04/10/06	6097037
	5.00	4.20	ug	84	0.23	SW846 7470A	04/10/06	6097037
			Dilution Factor: 1			Analysis Time...: 15:34		

NOTE (S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H6D070000-038 Prep Batch #... : 6097038					
Mercury	107	(80 - 120)	SW846 7470A	04/10/06	H2RMM1AD
		Dilution Factor: 1	Analysis Time...: 15:43		
Mercury	107	(80 - 120)	SW846 7470A	04/10/06	H2RMM1AE
		Dilution Factor: 1	Analysis Time...: 15:43		
LCS Lot-Sample#: H6D070000-041 Prep Batch #... : 6097041					
Mercury	106	(80 - 120)	SW846 7470A	04/10/06	H2RMR1AD
		Dilution Factor: 0.05	Analysis Time...: 15:39		
Mercury	106	(80 - 120)	SW846 7470A	04/10/06	H2RMR1AE
		Dilution Factor: 0.05	Analysis Time...: 15:39		
LCS Lot-Sample#: H6D210000-407 Prep Batch #... : 6111407					
Mercury	100	(80 - 120)	SW846 7470A	04/24/06	H3TL41AC
		Dilution Factor: 0.05	Analysis Time...: 14:40		

NOTE(S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H6D070000-038 Prep Batch #... : 6097038							
Mercury	5.00	5.35	ug	107	SW846 7470A	04/10/06	H2RMM1AD
			Dilution Factor: 1		Analysis Time...: 15:43		
Mercury	5.00	5.35	ug	107	SW846 7470A	04/10/06	H2RMM1AE
			Dilution Factor: 1		Analysis Time...: 15:43		
LCS Lot-Sample#: H6D070000-041 Prep Batch #... : 6097041							
Mercury	0.250	0.265	ug	106	SW846 7470A	04/10/06	H2RMR1AD
			Dilution Factor: 0.05		Analysis Time...: 15:39		
Mercury	0.250	0.265	ug	106	SW846 7470A	04/10/06	H2RMR1AE
			Dilution Factor: 0.05		Analysis Time...: 15:39		
LCS Lot-Sample#: H6D210000-407 Prep Batch #... : 6111407							
Mercury	0.250	0.250	ug	100	SW846 7470A	04/24/06	H3TL41AC
			Dilution Factor: 0.05		Analysis Time...: 14:40		

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-006 Prep Batch #... : 6095073						
Aluminum	101	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81AC
	100	(75 - 125)	1.4 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81AD
		Dilution Factor: 1				
		Analysis Time...: 17:27				
Antimony	91	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81AF
	91	(75 - 125)	0.23 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81AG
		Dilution Factor: 1				
		Analysis Time...: 17:27				
Arsenic	97	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81AJ
	95	(75 - 125)	1.4 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81AK
		Dilution Factor: 1				
		Analysis Time...: 17:27				
Barium	104	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81AM
	100	(75 - 125)	3.3 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81AN
		Dilution Factor: 1				
		Analysis Time...: 17:27				
Beryllium	97	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81AQ
	96	(75 - 125)	0.95 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81AR
		Dilution Factor: 1				
		Analysis Time...: 17:27				
Cadmium	98	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81AU
	96	(75 - 125)	2.1 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81AV
		Dilution Factor: 1				
		Analysis Time...: 17:27				
Chromium	101	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81AX
	99	(75 - 125)	1.6 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81AO
		Dilution Factor: 1				
		Analysis Time...: 17:27				
Cobalt	94	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HV81A2
	92	(75 - 125)	2.5 (0-20)	SW846 6010B	04/05-04/10/06	H2HV81A3
		Dilution Factor: 1				
		Analysis Time...: 17:27				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H6D030224

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper	95	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81A5
	95	(75 - 125)	0.08	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81A6
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Lead	91	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81A8
	89	(75 - 125)	2.9	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81A9
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Manganese	102	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CC
	100	(75 - 125)	2.0	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CD
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Nickel	99	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CF
	97	(75 - 125)	2.1	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CG
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Selenium	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CJ
	88	(75 - 125)	12	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CK
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Silver	99	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CM
	93	(75 - 125)	6.3	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CN
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Thallium	97	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CQ
	95	(75 - 125)	0.91	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CR
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Vanadium	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CU
	99	(75 - 125)	2.0	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CV
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Zinc	104	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CX
	101	(75 - 125)	2.5	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81C0
			Dilution Factor: 1				
			Analysis Time...: 17:27				

MS Lot-Sample #: H6D030224-006 Prep Batch #....: 6097037

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury	89	(80 - 120)		SW846 7470A	04/10/06	H2HV81C2
	88	(80 - 120)	0.90 (0-20)	SW846 7470A	04/10/06	H2HV81C3

Dilution Factor: 1

Analysis Time...: 15:56

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: H6D030224

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-006 Prep Batch #....: 6095073									
Aluminum									
	74.0	200	277	ug	101		SW846 6010B	04/05-04/10/06	H2HV81AC
	74.0	200	273	ug	100	1.4	SW846 6010B	04/05-04/10/06	H2HV81AD
Dilution Factor: 1									
Analysis Time...: 17:27									
Antimony									
	2.7	50.0	48.0	ug	91		SW846 6010B	04/05-04/10/06	H2HV81AF
	2.7	50.0	48.1	ug	91	0.23	SW846 6010B	04/05-04/10/06	H2HV81AG
Dilution Factor: 1									
Analysis Time...: 17:27									
Arsenic									
	ND	10.0	9.67	ug	97		SW846 6010B	04/05-04/10/06	H2HV81AJ
	ND	10.0	9.53	ug	95	1.4	SW846 6010B	04/05-04/10/06	H2HV81AK
Dilution Factor: 1									
Analysis Time...: 17:27									
Barium									
	1.8	10.0	12.2	ug	104		SW846 6010B	04/05-04/10/06	H2HV81AM
	1.8	10.0	11.8	ug	100	3.3	SW846 6010B	04/05-04/10/06	H2HV81AN
Dilution Factor: 1									
Analysis Time...: 17:27									
Beryllium									
	ND	5.00	4.86	ug	97		SW846 6010B	04/05-04/10/06	H2HV81AQ
	ND	5.00	4.82	ug	96	0.95	SW846 6010B	04/05-04/10/06	H2HV81AR
Dilution Factor: 1									
Analysis Time...: 17:27									
Cadmium									
	ND	5.00	4.92	ug	98		SW846 6010B	04/05-04/10/06	H2HV81AU
	ND	5.00	4.82	ug	96	2.1	SW846 6010B	04/05-04/10/06	H2HV81AV
Dilution Factor: 1									
Analysis Time...: 17:27									
Chromium									
	0.40	20.0	20.6	ug	101		SW846 6010B	04/05-04/10/06	H2HV81AX
	0.40	20.0	20.3	ug	99	1.6	SW846 6010B	04/05-04/10/06	H2HV81AO
Dilution Factor: 1									
Analysis Time...: 17:27									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt									
ND	10.0	10.0	9.41	ug	94		SW846 6010B	04/05-04/10/06	H2HV81A2
ND	10.0	10.0	9.18	ug	92	2.5	SW846 6010B	04/05-04/10/06	H2HV81A3
Dilution Factor: 1									
Analysis Time...: 17:27									
Copper									
1.2	25.0	25.0	24.8	ug	95		SW846 6010B	04/05-04/10/06	H2HV81A5
1.2	25.0	25.0	24.8	ug	95	0.08	SW846 6010B	04/05-04/10/06	H2HV81A6
Dilution Factor: 1									
Analysis Time...: 17:27									
Lead									
ND	10.0	10.0	9.11	ug	91		SW846 6010B	04/05-04/10/06	H2HV81A8
ND	10.0	10.0	8.85	ug	89	2.9	SW846 6010B	04/05-04/10/06	H2HV81A9
Dilution Factor: 1									
Analysis Time...: 17:27									
Manganese									
0.69	10.0	10.0	10.9	ug	102		SW846 6010B	04/05-04/10/06	H2HV81CC
0.69	10.0	10.0	10.7	ug	100	2.0	SW846 6010B	04/05-04/10/06	H2HV81CD
Dilution Factor: 1									
Analysis Time...: 17:27									
Nickel									
3.7	50.0	50.0	53.1	ug	99		SW846 6010B	04/05-04/10/06	H2HV81CF
3.7	50.0	50.0	52.0	ug	97	2.1	SW846 6010B	04/05-04/10/06	H2HV81CG
Dilution Factor: 1									
Analysis Time...: 17:27									
Selenium									
2.0	15.0	15.0	17.1	ug	101		SW846 6010B	04/05-04/10/06	H2HV81CJ
2.0	15.0	15.0	15.2	ug	88	12	SW846 6010B	04/05-04/10/06	H2HV81CK
Dilution Factor: 1									
Analysis Time...: 17:27									
Silver									
ND	5.00	5.00	4.95	ug	99		SW846 6010B	04/05-04/10/06	H2HV81CM
ND	5.00	5.00	4.65	ug	93	6.3	SW846 6010B	04/05-04/10/06	H2HV81CN
Dilution Factor: 1									
Analysis Time...: 17:27									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Thallium									
	9.1	40.0	47.7	ug	97		SW846 6010B	04/05-04/10/06	H2HV81CQ
	9.1	40.0	47.3	ug	95	0.91	SW846 6010B	04/05-04/10/06	H2HV81CR
Dilution Factor: 1									
Analysis Time...: 17:27									
Vanadium									
	ND	20.0	20.1	ug	101		SW846 6010B	04/05-04/10/06	H2HV81CU
	ND	20.0	19.7	ug	99	2.0	SW846 6010B	04/05-04/10/06	H2HV81CV
Dilution Factor: 1									
Analysis Time...: 17:27									
Zinc									
	4.9	50.0	56.8	ug	104		SW846 6010B	04/05-04/10/06	H2HV81CX
	4.9	50.0	55.4	ug	101	2.5	SW846 6010B	04/05-04/10/06	H2HV81C0
Dilution Factor: 1									
Analysis Time...: 17:27									

MS Lot-Sample #: H6D030224-006 Prep Batch #...: 6097037

Mercury

ND	1.00	0.891	ug	89		SW846 7470A	04/10/06	H2HV81C2
ND	1.00	0.883	ug	88	0.90	SW846 7470A	04/10/06	H2HV81C3
Dilution Factor: 1								
Analysis Time...: 15:56								

NOTE (S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-007 Prep Batch #...: 6095074						
Aluminum	101	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AC
	99	(75 - 125)	1.9 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AD
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Antimony	93	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AF
	92	(75 - 125)	1.1 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AG
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Arsenic	95	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AJ
	96	(75 - 125)	1.0 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AK
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Barium	102	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AM
	101	(75 - 125)	1.3 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AN
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Beryllium	100	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AQ
	100	(75 - 125)	0.27 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AR
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Cadmium	103	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AU
	102	(75 - 125)	0.81 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AV
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Chromium	102	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AX
	102	(75 - 125)	0.11 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AO
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Cobalt	98	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1A2
	98	(75 - 125)	0.23 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1A3
		Dilution Factor: 1				
		Analysis Time...: 16:13				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H6D030224

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper	98	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1A5
	97	(75 - 125)	1.4 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1A6
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Lead	101	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1A8
	101	(75 - 125)	0.08 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1A9
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Manganese	110	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1CC
	220 N,*	(75 - 125)	66 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CD
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Nickel	101	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1CF
	101	(75 - 125)	0.08 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CG
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Selenium	92	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1CJ
	92	(75 - 125)	0.30 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CK
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Silver	94	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1CM
	99	(75 - 125)	5.2 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CN
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Thallium	97	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1CQ
	97	(75 - 125)	0.08 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CR
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Vanadium	101	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1CU
	100	(75 - 125)	0.59 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CV
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Zinc	105	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1CX
	104	(75 - 125)	1.6 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1C0
		Dilution Factor: 1				
		Analysis Time...: 16:13				

MS Lot-Sample #: H6D030224-007 Prep Batch #....: 6097038

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury	91	(80 - 120)		SW846 7470A	04/10/06	H2HWF1C2
	88	(80 - 120)	3.3 (0-20)	SW846 7470A	04/10/06	H2HWF1C3

Dilution Factor: 2

Analysis Time...: 16:59

NOTE (S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-007 Prep Batch #...: 6095074									
Aluminum									
ND		250	251	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1AC
ND		250	247	ug	99	1.9	SW846 6010B	04/05-04/10/06	H2HWF1AD
Dilution Factor: 1									
Analysis Time...: 16:13									
Antimony									
ND		62.5	58.1	ug	93		SW846 6010B	04/05-04/10/06	H2HWF1AF
ND		62.5	57.5	ug	92	1.1	SW846 6010B	04/05-04/10/06	H2HWF1AG
Dilution Factor: 1									
Analysis Time...: 16:13									
Arsenic									
ND		12.5	11.8	ug	95		SW846 6010B	04/05-04/10/06	H2HWF1AJ
ND		12.5	12.0	ug	96	1.0	SW846 6010B	04/05-04/10/06	H2HWF1AK
Dilution Factor: 1									
Analysis Time...: 16:13									
Barium									
ND		12.5	12.7	ug	102		SW846 6010B	04/05-04/10/06	H2HWF1AM
ND		12.5	12.6	ug	101	1.3	SW846 6010B	04/05-04/10/06	H2HWF1AN
Dilution Factor: 1									
Analysis Time...: 16:13									
Beryllium									
ND		6.25	6.25	ug	100		SW846 6010B	04/05-04/10/06	H2HWF1AQ
ND		6.25	6.23	ug	100	0.27	SW846 6010B	04/05-04/10/06	H2HWF1AR
Dilution Factor: 1									
Analysis Time...: 16:13									
Cadmium									
ND		6.25	6.44	ug	103		SW846 6010B	04/05-04/10/06	H2HWF1AU
ND		6.25	6.39	ug	102	0.81	SW846 6010B	04/05-04/10/06	H2HWF1AV
Dilution Factor: 1									
Analysis Time...: 16:13									
Chromium									
ND		25.0	25.4	ug	102		SW846 6010B	04/05-04/10/06	H2HWF1AX
ND		25.0	25.5	ug	102	0.11	SW846 6010B	04/05-04/10/06	H2HWF1AO
Dilution Factor: 1									
Analysis Time...: 16:13									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: H6D030224

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt									
ND		12.5	12.3	ug	98		SW846 6010B	04/05-04/10/06	H2HWF1A2
ND		12.5	12.2	ug	98	0.23	SW846 6010B	04/05-04/10/06	H2HWF1A3
Dilution Factor: 1									
Analysis Time...: 16:13									
Copper									
ND		31.2	30.7	ug	98		SW846 6010B	04/05-04/10/06	H2HWF1A5
ND		31.2	30.3	ug	97	1.4	SW846 6010B	04/05-04/10/06	H2HWF1A6
Dilution Factor: 1									
Analysis Time...: 16:13									
Lead									
ND		12.5	12.6	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1A8
ND		12.5	12.6	ug	101	0.08	SW846 6010B	04/05-04/10/06	H2HWF1A9
Dilution Factor: 1									
Analysis Time...: 16:13									
Manganese									
ND		12.5	13.8	ug	110		SW846 6010B	04/05-04/10/06	H2HWF1CC
ND		12.5	27.4	ug	220	66	SW846 6010B	04/05-04/10/06	H2HWF1CD
Qualifiers: N,*									
Dilution Factor: 1									
Analysis Time...: 16:13									
Nickel									
ND		62.5	63.2	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1CF
ND		62.5	63.1	ug	101	0.08	SW846 6010B	04/05-04/10/06	H2HWF1CG
Dilution Factor: 1									
Analysis Time...: 16:13									
Selenium									
ND		18.8	17.3	ug	92		SW846 6010B	04/05-04/10/06	H2HWF1CJ
ND		18.8	17.3	ug	92	0.30	SW846 6010B	04/05-04/10/06	H2HWF1CK
Dilution Factor: 1									
Analysis Time...: 16:13									
Silver									
ND		6.25	5.88	ug	94		SW846 6010B	04/05-04/10/06	H2HWF1CM
ND		6.25	6.19	ug	99	5.2	SW846 6010B	04/05-04/10/06	H2HWF1CN
Dilution Factor: 1									
Analysis Time...: 16:13									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Thallium	ND	50.0	48.7	ug	97		SW846 6010B	04/05-04/10/06	H2HWF1CQ
	ND	50.0	48.7	ug	97	0.08	SW846 6010B	04/05-04/10/06	H2HWF1CR
Dilution Factor: 1									
Analysis Time...: 16:13									

Vanadium	ND	25.0	25.2	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1CU
	ND	25.0	25.0	ug	100	0.59	SW846 6010B	04/05-04/10/06	H2HWF1CV
Dilution Factor: 1									
Analysis Time...: 16:13									

Zinc	ND	62.5	65.9	ug	105		SW846 6010B	04/05-04/10/06	H2HWF1CX
	ND	62.5	64.9	ug	104	1.6	SW846 6010B	04/05-04/10/06	H2HWF1C0
Dilution Factor: 1									
Analysis Time...: 16:13									

MS Lot-Sample #: H6D030224-007 Prep Batch #...: 6097038

Mercury	ND	2.00	1.82	ug	91		SW846 7470A	04/10/06	H2HWF1C2
	ND	2.00	1.76	ug	88	3.3	SW846 7470A	04/10/06	H2HWF1C3
Dilution Factor: 2									
Analysis Time...: 16:59									

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>RPD</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
------------------	-----------------------------------	----------------------------------	-----------------------------	---------------	---	-------------------------------

MS Lot-Sample #: H6D030224-003 Prep Batch #...: 6097038

Mercury	94	(80 - 120)		SW846 7470A	04/10/06	H2HV31AC
	93	(80 - 120)	0.85 (0-20)	SW846 7470A	04/10/06	H2HV31AD

Dilution Factor: 2.1

Analysis Time...: 16:53

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	-----	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-003 Prep Batch #...: 6097038

Mercury

ND	2.10	1.97	ug	94			SW846 7470A	04/10/06	H2HV31AC
ND	2.10	1.95	ug	93	0.85		SW846 7470A	04/10/06	H2HV31AD

Dilution Factor: 2.1

Analysis Time...: 16:53

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
------------------	-----------------------------	----------------------------	------------	-----------------------	---------------	---------------------------------------	-------------------------

MS Lot-Sample #: H6D030224-008 Prep Batch #...: 6097038

Mercury	93	(80 - 120)			SW846 7470A	04/10/06	H2HWL1AC
	93	(80 - 120)	0.64	(0-20)	SW846 7470A	04/10/06	H2HWL1AD

Dilution Factor: 2

Analysis Time...: 17:10

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-008 Prep Batch #...: 6097038

Mercury

ND	2.00	1.87	ug	93			SW846 7470A	04/10/06	H2HWL1AC
ND	2.00	1.86	ug	93	0.64		SW846 7470A	04/10/06	H2HWL1AD

Dilution Factor: 2

Analysis Time...: 17:10

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	---------------------	--------------------	---------------	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-004 Prep Batch #...: 6097041

Mercury	101	(80 - 120)		SW846 7470A	04/10/06	H2HV61AC
	101	(80 - 120) 0.0 (0-20)		SW846 7470A	04/10/06	H2HV61AD

Dilution Factor: 0.72

Analysis Time...: 16:09

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-004 Prep Batch #...: 6097041

Mercury

0.93	0.720	1.66	ug	101			SW846 7470A	04/10/06	H2HV61AC
0.93	0.720	1.66	ug	101	0.0		SW846 7470A	04/10/06	H2HV61AD

Dilution Factor: 0.72

Analysis Time...: 16:09

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-005 Prep Batch #... : 6097041						
Mercury	NC,MSB	(80 - 120)		SW846 7470A	04/10/06	H2HV71AC
	NC,MSB	(80 - 120)	(0-20)	SW846 7470A	04/10/06	H2HV71AD
Dilution Factor: 1.75						
Analysis Time...: 16:19						

MS Lot-Sample #: H6D030224-005 Prep Batch #... : 6111407						
Mercury	97	(80 - 120)		SW846 7470A	04/24/06	H2HV71AE
	103	(80 - 120)	1.7 (0-20)	SW846 7470A	04/24/06	H2HV71AF
Dilution Factor: 3.5						
Analysis Time...: 14:50						

NOTE(S) :

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-005 Prep Batch #...: 6097041									
Mercury									
	8.4	1.75	10.4	ug			SW846 7470A	04/10/06	H2HV71AC
			Qualifiers: NC,MSB						
	8.4	1.75	9.73	ug			SW846 7470A	04/10/06	H2HV71AD
			Qualifiers: NC,MSB						
			Dilution Factor: 1.75						
			Analysis Time...: 16:19						

MS Lot-Sample #: H6D030224-005 Prep Batch #...: 6111407

Mercury

	8.8	3.50	12.2	ug	97		SW846 7470A	04/24/06	H2HV71AE
	8.8	3.50	12.4	ug	103	1.7	SW846 7470A	04/24/06	H2HV71AF
			Dilution Factor: 3.5						
			Analysis Time...: 14:50						

NOTE(S) :

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	---------------------	--------------------	-----	---------------	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-009 Prep Batch #...: 6097041

Mercury	97	(80 - 120)			SW846 7470A	04/10/06	H2HWN1AC
---------	----	------------	--	--	-------------	----------	----------

	958 N, *	(80 - 120)	163	(0-20)	SW846 7470A	04/10/06	H2HWN1AD
--	----------	------------	-----	--------	-------------	----------	----------

Dilution Factor: 0.2

Analysis Time...: 16:25

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-009 Prep Batch #...: 6097041

Mercury

ND	0.200	0.194	ug	97			SW846 7470A	04/10/06	H2HWN1AC
ND	0.200	1.92	ug	958	163		SW846 7470A	04/10/06	H2HWN1AD

Qualifiers: N,*

Dilution Factor: 0.2

Analysis Time...: 16:25

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	---------------------	--------------------	---------------	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-010 Prep Batch #...: 6097041

Mercury	106	(80 - 120)		SW846 7470A	04/10/06	H2HWP1AC
---------	-----	------------	--	-------------	----------	----------

385 N, *	(80 - 120)	114	(0-20)	SW846 7470A	04/10/06	H2HWP1AD
----------	------------	-----	--------	-------------	----------	----------

Dilution Factor: 0.75

Analysis Time...: 16:31

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-010 Prep Batch #...: 6097041									
Mercury									
ND		0.750	0.795	ug	106		SW846 7470A	04/10/06	H2HWP1AC
ND		0.750	2.89	ug	385	114	SW846 7470A	04/10/06	H2HWP1AD

Qualifiers: N,*

Dilution Factor: 0.75

Analysis Time...: 16:31

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HV1A	Original Sample H2HV1	Spike Added	Percent Recovery
Ag	64.04	14.46	50.0	99.2
Al	3219.75	1048.13	2000.0	108.6
As	156.09	56.17	100.0	99.9
Ba	177.72	72.14	100.0	105.6
Be	52.87	2.05	50.0	101.6
Cd	150.68	102.49	50.0	96.4
Co	108.35	6.23	100.0	102.1
Cr	738.19	544.93	200.0	96.6
Cu	1870.37	1621.84	250.0	99.4
Mn	682.63	594.65	100.0	88.0
Ni	629.36	108.95	500.0	104.1
Pb	3470.26	3516.26	100.0	-46.0
Sb	514.41	39.08	500.0	95.1
Se	178.13	33.32	150.0	96.5
Tl	509.45	99.97	400.0	102.4
V	235.68	24.80	200.0	105.4
Zn	2515.68	2058.46	500.0	91.4

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HV2A	Original Sample H2HV2	Spike Added	Percent Recovery
Ag	64.48	12.10	50.0	104.8
Al	2253.21	273.49	2000.0	99.0
As	102.32	1.42	100.0	100.9
Ba	137.81	30.22	100.0	107.6
Be	53.64	0.00	50.0	107.3
Cd	72.47	18.57	50.0	107.8
Co	107.56	2.44	100.0	105.1
Cr	229.59	14.62	200.0	107.5
Cu	311.43	51.39	250.0	104.0
Mn	170.02	63.00	100.0	107.0
Ni	550.96	11.30	500.0	107.9
Pb	153.18	48.45	100.0	104.7
Sb	470.03	6.06	500.0	92.8
Se	159.62	12.37	150.0	98.2
Tl	415.70	0.00	400.0	103.9
V	215.85	2.37	200.0	106.7
Zn	674.67	124.40	500.0	110.1

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HW4A	Original Sample H2HW4	Spike Added	Percent Recovery
Ag	58.95	9.50	50.0	98.9
Al	3256.00	928.09	2000.0	116.4
As	145.08	33.59	100.0	111.5
Ba	167.32	54.13	100.0	113.2
Be	57.67	1.16	50.0	113.0
Cd	144.95	90.12	50.0	109.7
Co	113.43	0.00	100.0	113.4
Cr	576.34	353.84	200.0	111.2
Cu	1346.87	1093.04	250.0	101.5
Mn	497.43	393.74	100.0	103.7
Ni	657.88	84.47	500.0	114.7
Pb	6799.54	6903.20	100.0	-103.7
Sb	534.99	34.83	500.0	100.0
Se	190.17	31.45	150.0	105.8
Tl	545.84	96.95	400.0	112.2
V	246.62	14.59	200.0	116.0
Zn	1801.69	1261.14	500.0	108.1

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HW5A	Original Sample H2HW5	Spike Added	Percent Recovery
Ag	56.88	6.85	50.0	100.1
Al	2280.98	323.56	2000.0	97.9
As	99.06	0.00	100.0	99.1
Ba	157.79	53.63	100.0	104.2
Be	52.93	0.43	50.0	105.0
Cd	60.88	7.09	50.0	107.6
Co	104.70	0.00	100.0	104.7
Cr	221.95	10.52	200.0	105.7
Cu	288.43	34.44	250.0	101.6
Mn	127.06	20.12	100.0	106.9
Ni	544.54	10.44	500.0	106.8
Pb	145.01	42.44	100.0	102.6
Sb	518.23	0.00	500.0	103.6
Se	150.14	8.37	150.0	94.5
Tl	407.96	0.00	400.0	102.0
V	212.32	0.00	200.0	106.2
Zn	617.36	73.22	500.0	108.8

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HWQA	Original Sample H2HWQ	Spike Added	Percent Recovery
Ag	60.53	11.91	50.0	97.2
Al	2880.13	847.71	2000.0	101.6
As	119.89	24.45	100.0	95.4
Ba	150.08	50.51	100.0	99.6
Be	50.72	1.04	50.0	99.4
Cd	105.71	57.05	50.0	97.3
Co	101.53	2.56	100.0	99.0
Cr	376.70	179.64	200.0	98.5
Cu	1224.46	1001.41	250.0	89.2
Mn	465.47	378.35	100.0	87.1
Ni	587.58	83.90	500.0	100.7
Pb	2333.95	2334.43	100.0	-0.5
Sb	488.89	33.61	500.0	91.1
Se	161.92	23.86	150.0	92.0
Tl	487.44	96.24	400.0	97.8
V	213.43	11.46	200.0	101.0
Zn	1634.06	1165.15	500.0	93.8

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HWTa	Original Sample H2HWT	Spike Added	Percent Recovery
Ag	93.60	44.71	50.0	97.8
Al	2346.29	383.75	2000.0	98.1
As	101.77	1.33	100.0	100.4
Ba	143.48	38.85	100.0	104.6
Be	52.60	0.54	50.0	104.1
Cd	74.45	21.60	50.0	105.7
Co	108.01	4.32	100.0	103.7
Cr	232.81	22.00	200.0	105.4
Cu	333.65	81.23	250.0	101.0
Mn	147.97	41.93	100.0	106.0
Ni	560.88	30.26	500.0	106.1
Pb	271.81	173.68	100.0	98.1
Sb	462.93	0.00	500.0	92.6
Se	161.15	16.13	150.0	96.7
Tl	415.43	0.00	400.0	103.9
V	211.81	1.55	200.0	105.1
Zn	733.69	192.29	500.0	108.3

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HV1A	Original Sample H2HV1	Spike Added	Percent Recovery
Hg	0.964	ND	1.0	96.4

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HWQA	Original Sample H2HWQ	Spike Added	Percent Recovery
Hg	0.957	ND	1.0	95.7

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HW4A	Original Sample H2HW4	Spike Added	Percent Recovery
Hg	0.971	ND	1.0	97.1

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HV2A	Original Sample H2HV2	Spike Added	Percent Recovery
Hg	1.57	0.58	1.0	99.0

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HWTa	Original Sample H2HWT	Spike Added	Percent Recovery
Hg	1.77	0.78	1.0	99

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HW5A	Original Sample H2HW5	Spike Added	Percent Recovery
Hg	2.88	1.92	1.0	96

Sample Receipt Documentation

**Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

STL Knoxville Lot Number: H6D030224

STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:		Westates Carbon CPT	
STL Knoxville Project Number:		142541	
STL Contact:		Ms. Patti Carswell (865) 291-3010	
STL - ACS Project Manager:		Dr. William C. Anderson (865) 291-3080	
Analytical Testing QC Requirements: The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows: "MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate, "DUP" = Duplicate, and "PDS" = Post Digestion Spike			
Laboratory Deliverable Turnaround Requirements:			
Analytical Due Date:		21 Days from Lab Receipt (Review-Released Data)	
Data Package Due Date:		21 Days from Lab Receipt	
Laboratory Destination:		STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000	
Courier:		Federal Express	
Project Deliverables: Report analytical results on R-02 Reports and in data packages. Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.			
Holding Time Requirements:			
Metals (excluding Mercury)		180 Days to Analysis.	
Mercury		28 Days to Analysis.	

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2953-R1- Method 0060/29 Front Half Composite Combine with Sample No.: G-2954 (G-2954)	3-28-06	PDS	Petri Dish	Particulate Filter Run #1 Method 0060/29 Train Metals and Mercury	Combine this sample with the companion Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
Combine with Sample No.: G-2953	3-28-06		250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #1 Method 0060/29 Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2955-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers	3-28-06	PDS	2 X 1 Liter Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #1 Method 0060/29 Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-2956-R1- Method 0060/29 Empty Impinger #4	3-28-06	MS/MSD	250 mL Amber Boston Round	Empty Impinger #4 Run #1 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2957-R1- Method 0060/29 4% KMnO ₄ /10% H ₂ SO ₄ Impingers	3-28-06	MS/MSD	500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #1 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2958-R1- Method 0060/29 8N HCl Impinger Rinse	3-28-06	MS/MSD	250 mL Amber Boston Round	8N HCl Impinger Rinse Run #1 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2959-R1- Method 0060/29 Front Half Composite RB Combine with Sample No.: G-2960	3-28-06	Reagent Blank	Petri Dish	Particulate Filter Reagent Blank, Run #1 Method 0060/29 Blank Train Metals and Mercury	Combine this sample with the Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-2960) Combine with Sample No.: G-2959	3-28-06	Reagent Blank	250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse Reagent Blank Run #1 Method 0060/29 Blank Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2961-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Solution RB	3-28-06	Reagent Blank	250 mL Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impinger Solution Reagent Blank, Run #1 Method 0060/29 Blank Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-3163-R1- Method 0060/29 Empty Impinger #4 RB	3-28-06 100 ml HNO ₃	Reagent Blank	250 mL Amber Boston Round	Empty Impinger #4 Reagent Blank, Run #1 Method 0060/29 Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2962-R1- Method 0060/29 4% KMnO ₄ / 10% H ₂ SO ₄ Impinger Solution RB	3-28-06	Reagent Blank	250 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impinger Solution Reagent Blank, Run #1 Method 0060/29 Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2963-R1- Method 0060/29 8N HCl Rinse Solution RB	3-28-06 3-29-06	Reagent Blank	250 mL Amber Boston Round	8N HCl Impinger Rinse Solution Reagent Blank Run #1 Method 0060/29 Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2964-R1- Method 0060/29 Front Half Composite Spiked BT Combine with Sample No.: G-2965	3-28-06 TW 3-29-06	Spiked Blank Train	Petri Dish	Particulate Filter Run #1 Method 0060/29 Spiked Blank Train Metals and Mercury	Combine this sample with the Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-2965) Combine with Sample No.: G-2964	3-29-06	Spiked Blank Train	250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #1 Method 0060/29 Spiked Blank Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2966-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers Spiked BT	3-29-06	Spiked Blank Train	500 mL Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #1 Method 0060/29 Spiked Blank Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-2967-R1- Method 0060/29 Empty Impinger #4 Spiked BT	3-29-06	Spiked Blank Train	250 mL Amber Boston Round	Empty Impinger #4 Run #1 Method 0060/29 Spiked Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A
G-2968-R1- Method 0060/29 4% KMnO ₄ / 10% H ₂ SO ₄ Impingers Spiked BT	3-29-06	Spiked Blank Train	500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #1 Method 0060/29 Spiked Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2969-R1- Method 0060/29 8N HCl Impinger Rinse Spiked BT	3-29-06	Spiked Blank Train	250 mL Amber Boston Round	8N HCl Impinger Rinse Run #1 Method 0060/29 Spiked Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2970-R1- Method 0060/29 Front Half Composite Spiked BT DUP Combine with Sample No.: G-2971	3-30-06	Spiked Blank Train Duplicate	Petri Dish	Particulate Filter Run #1 Method 0060/29 Spiked Blank Train Duplicate Metals and Mercury	Combine this sample with the Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-2971) Combine with Sample No.: G-2970	3-30-06	Spiked Blank Train Duplicate	250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #1 Method 0060/29 Spiked Blank Train Duplicate Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2972-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	500 mL Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #1 Method 0060/29 Spiked Blank Train Duplicate Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-2973-R1- Method 0060/29 Empty Impinger #4 Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	250 mL Amber Boston Round	Empty Impinger #4 Run #1 Method 0060/29 Spiked Blank Train Duplicate Mercury Only	Analyze for Mercury (Hg) by Method 7470A
G-2974-R1- Method 0060/29 4% KMnO ₄ / 10% H ₂ SO ₄ Impingers Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #1 Method 0060/29 Spiked Blank Train Duplicate Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2975-R1- Method 0060/29 8N HCl Impinger Rinse Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	250 mL Amber Boston Round	8N HCl Impinger Rinse Run #1 Method 0060/29 Spiked Blank Train Duplicate Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3057-R2- Method 0060/29 Front Half Composite Combine with Sample No.: G-3058	3-29-06	PDS	Petri Dish	Particulate Filter Run #2 Method 0060/29 Train Metals and Mercury	Combine this sample with the companion Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
(G-3058) Combine with Sample No.: G-3057	3-29-06		250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #2 Method 0060/29 Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-3059-R2- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers	3-29-06	PDS	2 X 1 Liter Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #2 Method 0060/29 Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-3060-R2- Method 0060/29 Empty Impinger #4	3-29-06		250 mL Amber Boston Round	Empty Impinger #4 Run #2 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3061-R2- Method 0060/29 4% KMnO ₄ /10% H ₂ SO ₄ Impingers	3-29-06		500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #2 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3062-R2- Method 0060/29 8N HCl Impinger Rinse	3-29-06		250 mL Amber Boston Round	8N HCl Impinger Rinse Run #2 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3141-R3- Method 0060/29 Front Half Composite Combine with Sample No.: G-3142	3-30-06	PDS	Petri Dish	Particulate Filter Run #3 Method 0060/29 Train Metals and Mercury	Combine this sample with the companion Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-3142) Combine with Sample No.: G-3141	3-30-06		250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #3 Method 0060/29 Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-3143-R3- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers	3-30-06	PDS	2 X 1 Liter Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #3 Method 0060/29 Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.

**Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3144-R3- Method 0060/29 Empty Impinger #4	3-30-06		250 mL Amber Boston Round	Empty Impinger #4 Run #3 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3145-R3- Method 0060/29 4% KMnO ₄ /10% H ₂ SO ₄ Impingers	3-30-06		500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #3 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3146-R3- Method 0060/29 8N HCl Impinger Rinse	3-30-06		250 mL Amber Boston Round	8N HCl Impinger Rinse Run #3 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

**Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

H6D030224

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:

Comments

(Please write "NONE" if no comment applicable)

- (1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.

N/A

- (2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:

5.2°C
5/4/06 AMBIENT

- (3) Record any apparent sample loss/breakage.

N/A

- (4) Record any unidentified samples transported with this shipment of samples:

N/A

- (5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):

no nonconformances

Custody Transfer:

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Hand delivered

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus Project: West Aty Carbon Lot Number: 14A-130224

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	☒			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	14A- COC not relinquished dated time.
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)	☒			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			☒	☐ 3a Sample preservative = _____	
4. Were custody seals present/intact on cooler and/or containers?		☒		☒ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	☒			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	☒			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			☒	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	☒			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			☒	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	☒			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			☒	☐ 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?	☒			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		☒		☒ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	☒			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	☒			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	☒			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	☒			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?			☒		

Quote #: _____ PM Instructions: _____

QA026R18.doc, 1/30/06

XAD Source Sampling Media Request Form

176D030224

SEVERN
TRENT

STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
865-291-3000

Form Number: 031706-6

-scan completed document and save on the
public drive under Media/PDFs; filename should
be the form number. Send a copy to PM.

Date of Request: March 17, 2006

Company: ACS

Client Project: Westates Carbon - Project # 142541

Client PO#:

Rush Order? No

Quantims Quote: TBD

Media Needed By: 3/22/2006

Project Manager: Kevin Woodcock

Quantity	Media Type	Spiked for Method	Media Check ID
8	Particulate Filter	8.26 cm Quartz 2500QAT-UP for 0060/29	A-5383
4	Particulate Filter	Millipore Isopore 0.4 um HTTP 0930 for Particle Size Distribution	A-5384

A 5383

A 5384

Comments:

Method	Color Code	Amt. Spiked	Conc. And Units	Spike Sol'n ID	Exp. Date	Spiked By/ Date	Verified By
8270C							
Dioxin							
1668 mod.							
CARB 429							
8081A							
TCO/Grav		NA	NA	NA	NA	NA	NA

Shipping (include blank COCs and Custody Seals with this shipment. Send temperature blanks where applicable)

Attn: Patti Carswell

Company: STL Knoxville - ACS

Address 1:

Address 2:

City, State, Zip:

Phone:

Fax:

FedEx Email:

Completed/Shipped by: PBC

Date Shipped: 03-22-06

Shipping Courier: Shipped w/ Batlaa

Tracking Number

Invoice #:

Lot Number:

Metals

Sample Results

STL Knoxville - ACS

Client Sample ID: G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-001

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	105	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AA
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 11.0	
Antimony	3.9 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AC
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 1.4	
Arsenic	5.6	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AD
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.35	
Barium	7.2 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AE
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.35	
Beryllium	0.20 B	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV11AF
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.18	
Cadmium	10.2	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV11AG
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.50	
Chromium	54.5	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AH
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.28	
Cobalt	0.62 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AJ
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.50	
Copper	162	2.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AK
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.70	
Lead	352	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AL
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.37	
Manganese	59.5	1.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AM
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.18	
Nickel	10.9	4.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AN
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.44	
Selenium	3.3	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AP
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2953/2954-R1-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-001

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	1.4 B	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AQ
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.97	
Thallium	10	3.5	ug	SW846 6010B	04/05-04/10/06	H2HV11AR
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 3.5	
Vanadium	2.5 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AT
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.50	
Zinc	206	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV11AU
		Dilution Factor: 1		Analysis Time...: 16:50	MDL.....: 0.38	
Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HV11AV
		Dilution Factor: 1		Analysis Time...: 15:46	MDL.....: 0.060	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-002

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	27.3	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AA
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AC
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AD
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.33	
Barium	3.0 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AE
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV21AF
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.18	
Cadmium	1.9	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV21AG
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.082	
Chromium	1.5	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AH
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AJ
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.50	
Copper	5.1	2.5	ug	SW846 6010B	04/05-04/10/06	H2HV21AK
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.70	
Lead	4.8	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AL
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.37	
Manganese	6.3	1.5	ug	SW846 6010B	04/05-04/10/06	H2HV21AM
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.18	
Nickel	1.1 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AN
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.40	
Selenium	1.2	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AP
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2955-R1-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #....: H6D030224-002

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	1.2 B	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AQ
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HV21AR
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AT
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.50	
Zinc	12.4	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV21AU
		Dilution Factor: 1		Analysis Time...: 15:36	MDL.....: 0.45	
Prep Batch #....: 6097038						
Mercury	1.3	0.40	ug	SW846 7470A	04/10/06	H2HV21AV
		Dilution Factor: 2		Analysis Time...: 16:47	MDL.....: 0.12	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2956-R1-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-003

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097038						
Mercury	ND	0.42	ug	SW846 7470A	04/10/06	H2HV31AA
		Dilution Factor: 2.1		Analysis Time...: 16:51	MDL.....: 0.13	

STL Knoxville - ACS

Client Sample ID: G-2957-R1-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-004

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	0.93	0.14	ug	SW846 7470A	04/10/06	H2HV61AA
		Dilution Factor: 0.72		Analysis Time...: 16:07	MDL.....: 0.043	

STL Knoxville - ACS

Client Sample ID: G-2958-R1-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #....: H6D030224-005

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
------------------	---------------	----------------------------------	--------------	---------------	---	-------------------------------

Prep Batch #....: 6097041

Mercury	8.4	0.35	ug	SW846 7470A	04/10/06	H2HV71AA
		Dilution Factor: 1.75		Analysis Time...: 16:13	MDL.....: 0.10	

Prep Batch #....: 6111407

Mercury	8.8	0.70	ug	SW846 7470A	04/24/06	H2HV72AA
		Dilution Factor: 3.5		Analysis Time...: 14:48	MDL.....: 0.21	

STL Knoxville - ACS

Client Sample ID: G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF

TOTAL Metals

Lot-Sample #...: H6D030224-006

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...	6095073					
Aluminum	74.0	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AA
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 11.0	
Antimony	2.7 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AB
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AH
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.35	
Barium	1.8 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AL
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV81AP
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HV81AT
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.50	
Chromium	0.40 B	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81AW
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV81A1
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.50	
Copper	1.2 B	2.5	ug	SW846 6010B	04/05-04/10/06	H2HV81A4
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81A7
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.37	
Manganese	0.69 B	1.5	ug	SW846 6010B	04/05-04/10/06	H2HV81CA
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.18	
Nickel	3.7 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CE
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.44	
Selenium	2.0	1.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CH
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2959/2960/2964/2965/2970/2971-R1 M29 BLANK FRONT HALF

TOTAL Metals

Lot-Sample #....: H6D030224-006

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CL
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.97	
Thallium	9.1	3.5	ug	SW846 6010B	04/05-04/10/06	H2HV81CP
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 3.5	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CT
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.50	
Zinc	4.9	2.0	ug	SW846 6010B	04/05-04/10/06	H2HV81CW
		Dilution Factor: 1		Analysis Time...: 17:02	MDL.....: 0.38	
Prep Batch #....: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HV81C1
		Dilution Factor: 1		Analysis Time...: 15:50	MDL.....: 0.060	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-2961/2966/2972-R1 M29 BLANK BACK HALF

TOTAL Metals

Lot-Sample #....: H6D030224-007

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 6095074						
Aluminum	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AA
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AE
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AH
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.33	
Barium	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AL
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWF1AP
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWF1AT
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.082	
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1AW
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1A1
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.50	
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1A4
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1A7
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.37	
Manganese	ND	1.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1CA
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.18	
Nickel	ND	4.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CE
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.40	
Selenium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CH
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2961/2966/2972-R1 M29 BLANK BACK HALF

TOTAL Metals

Lot-Sample #....: H6D030224-007

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CL
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWF1CP
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CT
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.50	
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWF1CW
		Dilution Factor: 1		Analysis Time...: 15:48	MDL.....: 0.45	
Prep Batch #....: 6097038						
Mercury	ND	0.40	ug	SW846 7470A	04/10/06	H2HWF1C1
		Dilution Factor: 2		Analysis Time...: 16:57	MDL.....: 0.12	

STL Knoxville - ACS

Client Sample ID: G-3163/2967/2973-R1 M29 BLANK EMPTY IMPINGER

TOTAL Metals

Lot-Sample #...: H6D030224-008

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097038						
Mercury	ND	0.40	ug	SW846 7470A	04/10/06	H2HWL1AA
		Dilution Factor: 2		Analysis Time...: 17:09	MDL.....: 0.12	

STL Knoxville - ACS

Client Sample ID: G-2962/2968/2974-R1 M29 BLANK KMNO4 IMPINGER

TOTAL Metals

Lot-Sample #...: H6D030224-009

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	ND	0.040	ug	SW846 7470A	04/10/06	H2HWN1AA
		Dilution Factor: 0.2		Analysis Time...: 16:23	MDL.....: 0.012	

STL Knoxville - ACS

Client Sample ID: G-2963/2969/2975-R1 M29 BLANK HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-010

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	ND	0.15	ug	SW846 7470A	04/10/06	H2HWP1AA
		Dilution Factor: 0.75		Analysis Time...: 16:29	MDL.....: 0.045	

STL Knoxville - ACS

Client Sample ID: G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #....: H6D030224-011

Matrix.....: AIR

Date Sampled....: 03/29/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 6095073						
Aluminum	84.8	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AA
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 11.0	
Antimony	3.4 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AC
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 1.4	
Arsenic	2.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AD
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.35	
Barium	5.1 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AE
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AF
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.18	
Cadmium	5.7	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AG
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.50	
Chromium	18.0	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AH
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AJ
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.50	
Copper	100	2.5	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AK
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.70	
Lead	233	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AL
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.37	
Manganese	37.8	1.5	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AM
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.18	
Nickel	8.4	4.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AN
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.44	
Selenium	2.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AP
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3057/3058-R2-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-011

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	1.2 B	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AQ
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.97	
Thallium	9.6	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AR
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 3.5	
Vanadium	1.1 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AT
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.50	
Zinc	117	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWQ1AU
		Dilution Factor: 1		Analysis Time...: 17:39	MDL.....: 0.38	
Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HWQ1AV
		Dilution Factor: 1		Analysis Time...: 16:00	MDL.....: 0.060	

NOTE(S):

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-012

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095074						
Aluminum	38.4	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AA
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AC
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AD
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.33	
Barium	3.9 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AE
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWT1AF
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.18	
Cadmium	2.2	0.50	ug	SW846 6010B	04/05-04/10/06	H2HWT1AG
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.082	
Chromium	2.2	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AH
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AJ
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.50	
Copper	8.1	2.5	ug	SW846 6010B	04/05-04/10/06	H2HWT1AK
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.70	
Lead	17.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AL
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.37	
Manganese	4.2	1.5	ug	SW846 6010B	04/05-04/10/06	H2HWT1AM
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.18	
Nickel	3.0 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AN
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.40	
Selenium	1.6	1.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AP
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3059-R2-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-012

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	4.5	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AQ
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HWT1AR
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AT
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.50	
Zinc	19.2	2.0	ug	SW846 6010B	04/05-04/10/06	H2HWT1AU
		Dilution Factor: 1		Analysis Time...: 16:25	MDL.....: 0.45	
Prep Batch #...: 6097038						
Mercury	1.7	0.40	ug	SW846 7470A	04/10/06	H2HWT1AV
		Dilution Factor: 2		Analysis Time...: 17:15	MDL.....: 0.12	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3060-R2-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-013

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097038						
Mercury	ND	0.80	ug	SW846 7470A	04/10/06	H2HWV1AA
		Dilution Factor: 4		Analysis Time...: 17:19	MDL.....: 0.24	

STL Knoxville - ACS

Client Sample ID: G-3061-R2-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-014

Matrix.....: AIR

Date Sampled...: 03/29/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097041						
Mercury	0.69	0.18	ug	SW846 7470A	04/10/06	H2HW01AA
		Dilution Factor: 0.9		Analysis Time...: 16:35	MDL.....: 0.054	

STL Knoxville - ACS

Client Sample ID: G-3062-R2-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #....: H6D030224-015

Matrix.....: AIR

Date Sampled....: 03/29/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 6097041						
Mercury	8.6	0.35	ug	SW846 7470A	04/10/06	H2HW21AA
		Dilution Factor: 1.75		Analysis Time...: 16:37	MDL.....: 0.10	

STL Knoxville - ACS

Client Sample ID: G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #...: H6D030224-016

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	92.8	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AA
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 11.0	
Antimony	3.5 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AC
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 1.4	
Arsenic	3.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AD
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.35	
Barium	5.4 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AE
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW41AF
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.18	
Cadmium	9.0	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW41AG
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.50	
Chromium	35.4	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AH
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AJ
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.50	
Copper	109	2.5	ug	SW846 6010B	04/05-04/10/06	H2HW41AK
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.70	
Lead	690	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AL
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.37	
Manganese	39.4	1.5	ug	SW846 6010B	04/05-04/10/06	H2HW41AM
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.18	
Nickel	8.4	4.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AN
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.44	
Selenium	3.1	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AP
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3141/3142-R3-METHOD 0060/29 FRONT HALF COMPOSITE

TOTAL Metals

Lot-Sample #....: H6D030224-016

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AQ
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.97	
Thallium	9.7	3.5	ug	SW846 6010B	04/05-04/10/06	H2HW41AR
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 3.5	
Vanadium	1.5 B	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AT
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.50	
Zinc	126	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW41AU
		Dilution Factor: 1		Analysis Time...: 17:51	MDL.....: 0.38	
Prep Batch #....: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2HW41AV
		Dilution Factor: 1		Analysis Time...: 16:04	MDL.....: 0.060	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #....: H6D030224-017

Date Sampled....: 03/30/06

Date Received...: 04/02/06

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 6095074						
Aluminum	32.4	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AA
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 11.0	
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AC
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AD
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.33	
Barium	5.4 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AE
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.30	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW51AF
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.18	
Cadmium	0.71	0.50	ug	SW846 6010B	04/05-04/10/06	H2HW51AG
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.082	
Chromium	1.1	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AH
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AJ
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.50	
Copper	3.4	2.5	ug	SW846 6010B	04/05-04/10/06	H2HW51AK
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.70	
Lead	4.2	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AL
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.37	
Manganese	2.0	1.5	ug	SW846 6010B	04/05-04/10/06	H2HW51AM
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.18	
Nickel	1.0 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AN
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.40	
Selenium	0.84 B	1.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AP
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3143-R3-METHOD 0060/29 5% HNO3/10% H2O2 IMPINGERS

TOTAL Metals

Lot-Sample #....: H6D030224-017

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AQ
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.97	
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2HW51AR
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 1.0	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AT
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.50	
Zinc	7.3	2.0	ug	SW846 6010B	04/05-04/10/06	H2HW51AU
		Dilution Factor: 1		Analysis Time...: 16:38	MDL.....: 0.45	

Prep Batch #....: 6097038

Mercury	4.3	0.40	ug	SW846 7470A	04/10/06	H2HW51AV
		Dilution Factor: 2		Analysis Time...: 17:21	MDL.....: 0.12	

NOTE(S) :

B Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3144-R3-METHOD 0060/29 EMPTY IMPINGER #4

TOTAL Metals

Lot-Sample #...: H6D030224-018

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Prep Batch #...: 6097038						
Mercury	ND	0.48	ug	SW846 7470A	04/10/06	H2HW61AA
		Dilution Factor: 2.4		Analysis Time...: 17:25	MDL.....: 0.14	

STL Knoxville - ACS

Client Sample ID: G-3145-R3-METHOD 0060/29 4% KMNO4/10% H2SO4 IMPINGERS

TOTAL Metals

Lot-Sample #...: H6D030224-019

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	3.3	0.19	ug	SW846 7470A	04/10/06	H2HW71AA
		Dilution Factor: 0.97		Analysis Time...: 16:43	MDL.....: 0.058	

STL Knoxville - ACS

Client Sample ID: G-3146-R3-METHOD 0060/29 8N HCL IMPINGER RINSE

TOTAL Metals

Lot-Sample #...: H6D030224-020

Matrix.....: AIR

Date Sampled...: 03/30/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6097041						
Mercury	6.9	0.32	ug	SW846 7470A	04/10/06	H2HW81AA
		Dilution Factor: 1.6		Analysis Time...: 16:46	MDL.....: 0.096	

STL Knoxville - ACS

Client Sample ID: A-5383 MEDIA CHECK

TOTAL Metals

Lot-Sample #...: H6D030224-021

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6095073						
Aluminum	71.2	20.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AA
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 11.0	
Antimony	3.0 B	6.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AC
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 1.4	
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AD
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.35	
Barium	1.9 B	20.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AE
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.35	
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HXA1AF
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.18	
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2HXA1AG
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.50	
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AH
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.28	
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AJ
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.50	
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2HXA1AK
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.70	
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AL
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.37	
Manganese	0.37 B	1.5	ug	SW846 6010B	04/05-04/10/06	H2HXA1AM
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.18	
Nickel	3.6 B	4.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AN
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.44	
Selenium	1.9	1.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AP
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.43	

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: A-5383 MEDIA CHECK

TOTAL Metals

Lot-Sample #...: H6D030224-021

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AQ
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.97	
Thallium	9.8	3.5	ug	SW846 6010B	04/05-04/10/06	H2HXA1AR
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 3.5	
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AT
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.50	
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2HXA1AU
		Dilution Factor: 1		Analysis Time...: 18:03	MDL.....: 0.38	

NOTE(S) :

B Estimated result. Result is less than RL.

QC Summary

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H6D050000-073 Prep Batch #... : 6095073						
Aluminum	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AA
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AC
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AD
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Barium	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AE
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LWV1AF
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LWV1AG
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AH
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AJ
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2LWV1AK
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AL
		Dilution Factor: 1				
		Analysis Time...: 14:17				
Manganese	ND	1.5	ug	SW846 6010B	04/05-04/10/06	H2LWV1AM
		Dilution Factor: 1				
		Analysis Time...: 14:17				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel	ND	4.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AN
		Dilution Factor: 1 Analysis Time...: 14:17				
Selenium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AP
		Dilution Factor: 1 Analysis Time...: 14:17				
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AQ
		Dilution Factor: 1 Analysis Time...: 14:17				
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2LWV1AR
		Dilution Factor: 1 Analysis Time...: 14:17				
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AT
		Dilution Factor: 1 Analysis Time...: 14:17				
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LWV1AU
		Dilution Factor: 1 Analysis Time...: 14:17				

MB Lot-Sample #: H6D050000-074 Prep Batch #...: 6095074

Aluminum	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AA
		Dilution Factor: 1 Analysis Time...: 13:58				
Antimony	ND	6.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AC
		Dilution Factor: 1 Analysis Time...: 13:58				
Arsenic	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AD
		Dilution Factor: 1 Analysis Time...: 13:58				
Barium	ND	20.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AE
		Dilution Factor: 1 Analysis Time...: 13:58				
Beryllium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LW01AF
		Dilution Factor: 1 Analysis Time...: 13:58				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cadmium	ND	0.50	ug	SW846 6010B	04/05-04/10/06	H2LW01AG
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Chromium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AH
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Cobalt	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AJ
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Copper	ND	2.5	ug	SW846 6010B	04/05-04/10/06	H2LW01AK
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Lead	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AL
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Manganese	ND	1.5	ug	SW846 6010B	04/05-04/10/06	H2LW01AM
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Nickel	ND	4.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AN
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Selenium	ND	1.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AP
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Silver	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AQ
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Thallium	ND	3.5	ug	SW846 6010B	04/05-04/10/06	H2LW01AR
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Vanadium	ND	5.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AT
		Dilution Factor: 1				
		Analysis Time...: 13:58				
Zinc	ND	2.0	ug	SW846 6010B	04/05-04/10/06	H2LW01AU
		Dilution Factor: 1				
		Analysis Time...: 13:58				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H6D070000-037 Prep Batch #...: 6097037						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2RMK1AA
		Dilution Factor: 1				
		Analysis Time...: 15:32				
MB Lot-Sample #: H6D070000-038 Prep Batch #...: 6097038						
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2RMM1AA
		Dilution Factor: 1				
		Analysis Time...: 15:41				
Mercury	ND	0.20	ug	SW846 7470A	04/10/06	H2RMM1AC
		Dilution Factor: 1				
		Analysis Time...: 15:41				
MB Lot-Sample #: H6D070000-041 Prep Batch #...: 6097041						
Mercury	ND	0.010	ug	SW846 7470A	04/10/06	H2RMR1AA
		Dilution Factor: 0.05				
		Analysis Time...: 15:37				
Mercury	ND	0.010	ug	SW846 7470A	04/10/06	H2RMR1AC
		Dilution Factor: 0.05				
		Analysis Time...: 15:37				
MB Lot-Sample #: H6D210000-407 Prep Batch #...: 6111407						
Mercury	ND	0.010	ug	SW846 7470A	04/24/06	H3TL41AA
		Dilution Factor: 0.05				
		Analysis Time...: 14:38				

NOTE (S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Aluminum	101	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	100	(80 - 120)	1.1 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Antimony	92	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	92	(80 - 120)	0.39 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Arsenic	95	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	0.10 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Barium	97	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	96	(80 - 120)	0.69 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Beryllium	95	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	0.02 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Cadmium	99	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	99	(80 - 120)	0.30 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Chromium	97	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	97	(80 - 120)	0.39 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Cobalt	96	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	0.42 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Copper	94	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	93	(80 - 120)	1.2 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Lead	97	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	97	(80 - 120)	0.22 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Manganese	98	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	98	(80 - 120)	0.01 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Nickel	98	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	98	(80 - 120)	0.26 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Selenium	95	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	94	(80 - 120)	0.94 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Silver	92	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	95	(80 - 120)	3.2 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Thallium	99	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	99	(80 - 120)	0.15 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Vanadium	97	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	97	(80 - 120)	0.03 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Zinc	102	(80 - 120)		SW846 6010B	04/05-04/10/06	6095073
	102	(80 - 120)	0.31 (0-20)	SW846 6010B	04/05-04/10/06	6095073
		Dilution Factor: 1		Analysis Time...: 14:23		
Aluminum	94	(80 - 120)		SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	2.9 (0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1		Analysis Time...: 14:04		
Antimony	90	(80 - 120)		SW846 6010B	04/05-04/10/06	6095074
	92	(80 - 120)	1.9 (0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1		Analysis Time...: 14:04		
Arsenic	92	(80 - 120)		SW846 6010B	04/05-04/10/06	6095074
	94	(80 - 120)	2.4 (0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1		Analysis Time...: 14:04		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #....: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Barium	96	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	1.3	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Beryllium	99	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.68	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Cadmium	102	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	102	(80 - 120)	0.07	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Chromium	100	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	99	(80 - 120)	0.62	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Cobalt	96	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	98	(80 - 120)	1.3	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Copper	93	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	95	(80 - 120)	1.7	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Lead	101	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.51	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Manganese	100	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.18	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Nickel	99	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	100	(80 - 120)	0.69	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		
Selenium	89	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	92	(80 - 120)	2.8	(0-20)	SW846 6010B	04/05-04/10/06	6095074
		Dilution Factor: 1			Analysis Time...: 14:04		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP- BATCH #
Silver	98	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	0.90	(0-20)	SW846 6010B	04/05-04/10/06	6095074
	Dilution Factor: 1				Analysis Time...: 14:04		
Thallium	96	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	97	(80 - 120)	1.8	(0-20)	SW846 6010B	04/05-04/10/06	6095074
	Dilution Factor: 1				Analysis Time...: 14:04		
Vanadium	98	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	99	(80 - 120)	0.93	(0-20)	SW846 6010B	04/05-04/10/06	6095074
	Dilution Factor: 1				Analysis Time...: 14:04		
Zinc	102	(80 - 120)			SW846 6010B	04/05-04/10/06	6095074
	103	(80 - 120)	1.6	(0-20)	SW846 6010B	04/05-04/10/06	6095074
	Dilution Factor: 1				Analysis Time...: 14:04		
Mercury	84	(80 - 120)			SW846 7470A	04/10/06	6097037
	84	(80 - 120)	0.23	(0-20)	SW846 7470A	04/10/06	6097037
	Dilution Factor: 1				Analysis Time...: 15:34		

NOTE(S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Aluminum	200	202	ug	101		SW846 6010B	04/05-04/10/06	6095073
	200	200	ug	100	1.1	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Antimony	50.0	46.1	ug	92		SW846 6010B	04/05-04/10/06	6095073
	50.0	45.9	ug	92	0.39	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Arsenic	10.0	9.46	ug	95		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.46	ug	95	0.10	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Barium	10.0	9.69	ug	97		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.62	ug	96	0.69	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Beryllium	5.00	4.74	ug	95		SW846 6010B	04/05-04/10/06	6095073
	5.00	4.74	ug	95	0.02	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Cadmium	5.00	4.96	ug	99		SW846 6010B	04/05-04/10/06	6095073
	5.00	4.97	ug	99	0.30	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Chromium	20.0	19.4	ug	97		SW846 6010B	04/05-04/10/06	6095073
	20.0	19.5	ug	97	0.39	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Cobalt	10.0	9.59	ug	96		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.55	ug	95	0.42	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Copper	25.0	23.4	ug	94		SW846 6010B	04/05-04/10/06	6095073
	25.0	23.2	ug	93	1.2	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Lead	10.0	9.70	ug	97		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.72	ug	97	0.22	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Manganese	10.0	9.82	ug	98		SW846 6010B	04/05-04/10/06	6095073
	10.0	9.82	ug	98	0.01	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Nickel	50.0	48.9	ug	98		SW846 6010B	04/05-04/10/06	6095073
	50.0	49.1	ug	98	0.26	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Selenium	15.0	14.2	ug	95		SW846 6010B	04/05-04/10/06	6095073
	15.0	14.1	ug	94	0.94	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Silver	5.00	4.62	ug	92		SW846 6010B	04/05-04/10/06	6095073
	5.00	4.77	ug	95	3.2	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Thallium	40.0	39.7	ug	99		SW846 6010B	04/05-04/10/06	6095073
	40.0	39.7	ug	99	0.15	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Vanadium	20.0	19.3	ug	97		SW846 6010B	04/05-04/10/06	6095073
	20.0	19.3	ug	97	0.03	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Zinc	50.0	51.1	ug	102		SW846 6010B	04/05-04/10/06	6095073
	50.0	51.0	ug	102	0.31	SW846 6010B	04/05-04/10/06	6095073
						Dilution Factor: 1		Analysis Time...: 14:23
Aluminum	200	189	ug	94		SW846 6010B	04/05-04/10/06	6095074
	200	194	ug	97	2.9	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Antimony	50.0	45.2	ug	90		SW846 6010B	04/05-04/10/06	6095074
	50.0	46.0	ug	92	1.9	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04
Arsenic	10.0	9.21	ug	92		SW846 6010B	04/05-04/10/06	6095074
	10.0	9.44	ug	94	2.4	SW846 6010B	04/05-04/10/06	6095074
						Dilution Factor: 1		Analysis Time...: 14:04

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Barium	10.0	9.62	ug	96		SW846 6010B	04/05-04/10/06	6095074
	10.0	9.75	ug	97	1.3	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Beryllium	5.00	4.94	ug	99		SW846 6010B	04/05-04/10/06	6095074
	5.00	4.98	ug	100	0.68	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Cadmium	5.00	5.08	ug	102		SW846 6010B	04/05-04/10/06	6095074
	5.00	5.08	ug	102	0.07	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Chromium	20.0	20.0	ug	100		SW846 6010B	04/05-04/10/06	6095074
	20.0	19.9	ug	99	0.62	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Cobalt	10.0	9.64	ug	96		SW846 6010B	04/05-04/10/06	6095074
	10.0	9.77	ug	98	1.3	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Copper	25.0	23.3	ug	93		SW846 6010B	04/05-04/10/06	6095074
	25.0	23.7	ug	95	1.7	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Lead	10.0	10.1	ug	101		SW846 6010B	04/05-04/10/06	6095074
	10.0	10.0	ug	100	0.51	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Manganese	10.0	10.0	ug	100		SW846 6010B	04/05-04/10/06	6095074
	10.0	10.0	ug	100	0.18	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Nickel	50.0	49.7	ug	99		SW846 6010B	04/05-04/10/06	6095074
	50.0	50.1	ug	100	0.69	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		
Selenium	15.0	13.4	ug	89		SW846 6010B	04/05-04/10/06	6095074
	15.0	13.7	ug	92	2.8	SW846 6010B	04/05-04/10/06	6095074
			Dilution Factor: 1			Analysis Time...: 14:04		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #....: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Silver	5.00	4.88	ug	98		SW846 6010B	04/05-04/10/06	6095074
	5.00	4.84	ug	97	0.90	SW846 6010B	04/05-04/10/06	6095074
Dilution Factor: 1					Analysis Time...: 14:04			
Thallium	40.0	38.3	ug	96		SW846 6010B	04/05-04/10/06	6095074
	40.0	39.0	ug	97	1.8	SW846 6010B	04/05-04/10/06	6095074
Dilution Factor: 1					Analysis Time...: 14:04			
Vanadium	20.0	19.6	ug	98		SW846 6010B	04/05-04/10/06	6095074
	20.0	19.8	ug	99	0.93	SW846 6010B	04/05-04/10/06	6095074
Dilution Factor: 1					Analysis Time...: 14:04			
Zinc	50.0	50.8	ug	102		SW846 6010B	04/05-04/10/06	6095074
	50.0	51.7	ug	103	1.6	SW846 6010B	04/05-04/10/06	6095074
Dilution Factor: 1					Analysis Time...: 14:04			
Mercury	5.00	4.21	ug	84		SW846 7470A	04/10/06	6097037
	5.00	4.20	ug	84	0.23	SW846 7470A	04/10/06	6097037
Dilution Factor: 1					Analysis Time...: 15:34			

NOTE(S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: H6D030224

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H6D070000-038 Prep Batch #....: 6097038					
Mercury	107	(80 - 120)	SW846 7470A	04/10/06	H2RMM1AD
		Dilution Factor: 1	Analysis Time...: 15:43		
Mercury	107	(80 - 120)	SW846 7470A	04/10/06	H2RMM1AE
		Dilution Factor: 1	Analysis Time...: 15:43		
LCS Lot-Sample#: H6D070000-041 Prep Batch #....: 6097041					
Mercury	106	(80 - 120)	SW846 7470A	04/10/06	H2RMR1AD
		Dilution Factor: 0.05	Analysis Time...: 15:39		
Mercury	106	(80 - 120)	SW846 7470A	04/10/06	H2RMR1AE
		Dilution Factor: 0.05	Analysis Time...: 15:39		
LCS Lot-Sample#: H6D210000-407 Prep Batch #....: 6111407					
Mercury	100	(80 - 120)	SW846 7470A	04/24/06	H3TL41AC
		Dilution Factor: 0.05	Analysis Time...: 14:40		

NOTE (S) :

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H6D070000-038 Prep Batch #... : 6097038							
Mercury	5.00	5.35	ug	107	SW846 7470A	04/10/06	H2RMM1AD
			Dilution Factor: 1		Analysis Time...: 15:43		
Mercury	5.00	5.35	ug	107	SW846 7470A	04/10/06	H2RMM1AE
			Dilution Factor: 1		Analysis Time...: 15:43		
LCS Lot-Sample#: H6D070000-041 Prep Batch #... : 6097041							
Mercury	0.250	0.265	ug	106	SW846 7470A	04/10/06	H2RMR1AD
			Dilution Factor: 0.05		Analysis Time...: 15:39		
Mercury	0.250	0.265	ug	106	SW846 7470A	04/10/06	H2RMR1AE
			Dilution Factor: 0.05		Analysis Time...: 15:39		
LCS Lot-Sample#: H6D210000-407 Prep Batch #... : 6111407							
Mercury	0.250	0.250	ug	100	SW846 7470A	04/24/06	H3TL41AC
			Dilution Factor: 0.05		Analysis Time...: 14:40		

NOTE (S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-006 Prep Batch #...: 6095073							
Aluminum	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81AC
	100	(75 - 125)	1.4	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81AD
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Antimony	91	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81AF
	91	(75 - 125)	0.23	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81AG
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Arsenic	97	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81AJ
	95	(75 - 125)	1.4	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81AK
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Barium	104	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81AM
	100	(75 - 125)	3.3	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81AN
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Beryllium	97	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81AQ
	96	(75 - 125)	0.95	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81AR
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Cadmium	98	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81AU
	96	(75 - 125)	2.1	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81AV
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Chromium	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81AX
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81A0
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Cobalt	94	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81A2
	92	(75 - 125)	2.5	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81A3
			Dilution Factor: 1				
			Analysis Time...: 17:27				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper	95	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81A5
	95	(75 - 125)	0.08	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81A6
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Lead	91	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81A8
	89	(75 - 125)	2.9	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81A9
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Manganese	102	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CC
	100	(75 - 125)	2.0	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CD
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Nickel	99	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CF
	97	(75 - 125)	2.1	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CG
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Selenium	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CJ
	88	(75 - 125)	12	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CK
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Silver	99	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CM
	93	(75 - 125)	6.3	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CN
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Thallium	97	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CQ
	95	(75 - 125)	0.91	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CR
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Vanadium	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CU
	99	(75 - 125)	2.0	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CV
			Dilution Factor: 1				
			Analysis Time...: 17:27				
Zinc	104	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HV81CX
	101	(75 - 125)	2.5	(0-20)	SW846 6010B	04/05-04/10/06	H2HV81CO
			Dilution Factor: 1				
			Analysis Time...: 17:27				

MS Lot-Sample #: H6D030224-006 Prep Batch #...: 6097037

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Date Sampled...: 03/28/06

Date Received...: 04/02/06

Matrix.....: AIR

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>RPD</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
Mercury	89	(80 - 120)		SW846 7470A	04/10/06	H2HV81C2
	88	(80 - 120)	0.90 (0-20)	SW846 7470A	04/10/06	H2HV81C3

Dilution Factor: 1
Analysis Time...: 15:56

NOTE (S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-006 Prep Batch #...: 6095073									
Aluminum									
	74.0	200	277	ug	101		SW846 6010B	04/05-04/10/06	H2HV81AC
	74.0	200	273	ug	100	1.4	SW846 6010B	04/05-04/10/06	H2HV81AD
Dilution Factor: 1									
Analysis Time...: 17:27									
Antimony									
	2.7	50.0	48.0	ug	91		SW846 6010B	04/05-04/10/06	H2HV81AF
	2.7	50.0	48.1	ug	91	0.23	SW846 6010B	04/05-04/10/06	H2HV81AG
Dilution Factor: 1									
Analysis Time...: 17:27									
Arsenic									
	ND	10.0	9.67	ug	97		SW846 6010B	04/05-04/10/06	H2HV81AJ
	ND	10.0	9.53	ug	95	1.4	SW846 6010B	04/05-04/10/06	H2HV81AK
Dilution Factor: 1									
Analysis Time...: 17:27									
Barium									
	1.8	10.0	12.2	ug	104		SW846 6010B	04/05-04/10/06	H2HV81AM
	1.8	10.0	11.8	ug	100	3.3	SW846 6010B	04/05-04/10/06	H2HV81AN
Dilution Factor: 1									
Analysis Time...: 17:27									
Beryllium									
	ND	5.00	4.86	ug	97		SW846 6010B	04/05-04/10/06	H2HV81AQ
	ND	5.00	4.82	ug	96	0.95	SW846 6010B	04/05-04/10/06	H2HV81AR
Dilution Factor: 1									
Analysis Time...: 17:27									
Cadmium									
	ND	5.00	4.92	ug	98		SW846 6010B	04/05-04/10/06	H2HV81AU
	ND	5.00	4.82	ug	96	2.1	SW846 6010B	04/05-04/10/06	H2HV81AV
Dilution Factor: 1									
Analysis Time...: 17:27									
Chromium									
	0.40	20.0	20.6	ug	101		SW846 6010B	04/05-04/10/06	H2HV81AX
	0.40	20.0	20.3	ug	99	1.6	SW846 6010B	04/05-04/10/06	H2HV81AO
Dilution Factor: 1									
Analysis Time...: 17:27									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt									
	ND	10.0	9.41	ug	94		SW846 6010B	04/05-04/10/06	H2HV81A2
	ND	10.0	9.18	ug	92	2.5	SW846 6010B	04/05-04/10/06	H2HV81A3
			Dilution Factor: 1						
			Analysis Time...: 17:27						
Copper									
	1.2	25.0	24.8	ug	95		SW846 6010B	04/05-04/10/06	H2HV81A5
	1.2	25.0	24.8	ug	95	0.08	SW846 6010B	04/05-04/10/06	H2HV81A6
			Dilution Factor: 1						
			Analysis Time...: 17:27						
Lead									
	ND	10.0	9.11	ug	91		SW846 6010B	04/05-04/10/06	H2HV81A8
	ND	10.0	8.85	ug	89	2.9	SW846 6010B	04/05-04/10/06	H2HV81A9
			Dilution Factor: 1						
			Analysis Time...: 17:27						
Manganese									
	0.69	10.0	10.9	ug	102		SW846 6010B	04/05-04/10/06	H2HV81CC
	0.69	10.0	10.7	ug	100	2.0	SW846 6010B	04/05-04/10/06	H2HV81CD
			Dilution Factor: 1						
			Analysis Time...: 17:27						
Nickel									
	3.7	50.0	53.1	ug	99		SW846 6010B	04/05-04/10/06	H2HV81CF
	3.7	50.0	52.0	ug	97	2.1	SW846 6010B	04/05-04/10/06	H2HV81CG
			Dilution Factor: 1						
			Analysis Time...: 17:27						
Selenium									
	2.0	15.0	17.1	ug	101		SW846 6010B	04/05-04/10/06	H2HV81CJ
	2.0	15.0	15.2	ug	88	12	SW846 6010B	04/05-04/10/06	H2HV81CK
			Dilution Factor: 1						
			Analysis Time...: 17:27						
Silver									
	ND	5.00	4.95	ug	99		SW846 6010B	04/05-04/10/06	H2HV81CM
	ND	5.00	4.65	ug	93	6.3	SW846 6010B	04/05-04/10/06	H2HV81CN
			Dilution Factor: 1						
			Analysis Time...: 17:27						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	---------------	-----------	---------------	-------	---------------	-----	--------	----------------------------	--------------

Thallium

9.1	40.0	47.7	ug	97			SW846 6010B	04/05-04/10/06	H2HV81CQ
9.1	40.0	47.3	ug	95	0.91		SW846 6010B	04/05-04/10/06	H2HV81CR

Dilution Factor: 1

Analysis Time...: 17:27

Vanadium

ND	20.0	20.1	ug	101			SW846 6010B	04/05-04/10/06	H2HV81CU
ND	20.0	19.7	ug	99	2.0		SW846 6010B	04/05-04/10/06	H2HV81CV

Dilution Factor: 1

Analysis Time...: 17:27

Zinc

4.9	50.0	56.8	ug	104			SW846 6010B	04/05-04/10/06	H2HV81CX
4.9	50.0	55.4	ug	101	2.5		SW846 6010B	04/05-04/10/06	H2HV81CO

Dilution Factor: 1

Analysis Time...: 17:27

MS Lot-Sample #: H6D030224-006 Prep Batch #...: 6097037

Mercury

ND	1.00	0.891	ug	89			SW846 7470A	04/10/06	H2HV81C2
ND	1.00	0.883	ug	88	0.90		SW846 7470A	04/10/06	H2HV81C3

Dilution Factor: 1

Analysis Time...: 15:56

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224
 Date Sampled...: 03/28/06

Date Received...: 04/02/06

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-007 Prep Batch #...: 6095074						
Aluminum	101	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AC
	99	(75 - 125)	1.9 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AD
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Antimony	93	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AF
	92	(75 - 125)	1.1 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AG
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Arsenic	95	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AJ
	96	(75 - 125)	1.0 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AK
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Barium	102	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AM
	101	(75 - 125)	1.3 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AN
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Beryllium	100	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AQ
	100	(75 - 125)	0.27 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AR
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Cadmium	103	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AU
	102	(75 - 125)	0.81 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AV
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Chromium	102	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1AX
	102	(75 - 125)	0.11 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1AO
		Dilution Factor: 1				
		Analysis Time...: 16:13				
Cobalt	98	(75 - 125)		SW846 6010B	04/05-04/10/06	H2HWF1A2
	98	(75 - 125)	0.23 (0-20)	SW846 6010B	04/05-04/10/06	H2HWF1A3
		Dilution Factor: 1				
		Analysis Time...: 16:13				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Date Sampled...: 03/28/06

Date Received...: 04/02/06

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper	98	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1A5
	97	(75 - 125)	1.4	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1A6
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Lead	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1A8
	101	(75 - 125)	0.08	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1A9
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Manganese	110	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1CC
	220 N, *	(75 - 125)	66	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CD
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Nickel	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1CF
	101	(75 - 125)	0.08	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CG
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Selenium	92	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1CJ
	92	(75 - 125)	0.30	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CK
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Silver	94	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1CM
	99	(75 - 125)	5.2	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CN
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Thallium	97	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1CQ
	97	(75 - 125)	0.08	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CR
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Vanadium	101	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1CU
	100	(75 - 125)	0.59	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CV
			Dilution Factor: 1				
			Analysis Time...: 16:13				
Zinc	105	(75 - 125)			SW846 6010B	04/05-04/10/06	H2HWF1CX
	104	(75 - 125)	1.6	(0-20)	SW846 6010B	04/05-04/10/06	H2HWF1CO
			Dilution Factor: 1				
			Analysis Time...: 16:13				

MS Lot-Sample #: H6D030224-007 Prep Batch #...: 6097038
(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury	91	(80 - 120)			SW846 7470A	04/10/06	H2HWF1C2
	88	(80 - 120)	3.3	(0-20)	SW846 7470A	04/10/06	H2HWF1C3
			Dilution Factor: 2				
			Analysis Time...: 16:59				

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: H6D030224

Matrix.....: AIR

Date Sampled....: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-007 Prep Batch #....: 6095074									
Aluminum									
ND		250	251	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1AC
ND		250	247	ug	99	1.9	SW846 6010B	04/05-04/10/06	H2HWF1AD
Dilution Factor: 1									
Analysis Time...: 16:13									
Antimony									
ND		62.5	58.1	ug	93		SW846 6010B	04/05-04/10/06	H2HWF1AF
ND		62.5	57.5	ug	92	1.1	SW846 6010B	04/05-04/10/06	H2HWF1AG
Dilution Factor: 1									
Analysis Time...: 16:13									
Arsenic									
ND		12.5	11.8	ug	95		SW846 6010B	04/05-04/10/06	H2HWF1AJ
ND		12.5	12.0	ug	96	1.0	SW846 6010B	04/05-04/10/06	H2HWF1AK
Dilution Factor: 1									
Analysis Time...: 16:13									
Barium									
ND		12.5	12.7	ug	102		SW846 6010B	04/05-04/10/06	H2HWF1AM
ND		12.5	12.6	ug	101	1.3	SW846 6010B	04/05-04/10/06	H2HWF1AN
Dilution Factor: 1									
Analysis Time...: 16:13									
Beryllium									
ND		6.25	6.25	ug	100		SW846 6010B	04/05-04/10/06	H2HWF1AQ
ND		6.25	6.23	ug	100	0.27	SW846 6010B	04/05-04/10/06	H2HWF1AR
Dilution Factor: 1									
Analysis Time...: 16:13									
Cadmium									
ND		6.25	6.44	ug	103		SW846 6010B	04/05-04/10/06	H2HWF1AU
ND		6.25	6.39	ug	102	0.81	SW846 6010B	04/05-04/10/06	H2HWF1AV
Dilution Factor: 1									
Analysis Time...: 16:13									
Chromium									
ND		25.0	25.4	ug	102		SW846 6010B	04/05-04/10/06	H2HWF1AX
ND		25.0	25.5	ug	102	0.11	SW846 6010B	04/05-04/10/06	H2HWF1AO
Dilution Factor: 1									
Analysis Time...: 16:13									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cobalt									
ND	12.5	12.5	12.3	ug	98		SW846 6010B	04/05-04/10/06	H2HWF1A2
ND	12.5	12.5	12.2	ug	98	0.23	SW846 6010B	04/05-04/10/06	H2HWF1A3
Dilution Factor: 1									
Analysis Time...: 16:13									
Copper									
ND	31.2	31.2	30.7	ug	98		SW846 6010B	04/05-04/10/06	H2HWF1A5
ND	31.2	31.2	30.3	ug	97	1.4	SW846 6010B	04/05-04/10/06	H2HWF1A6
Dilution Factor: 1									
Analysis Time...: 16:13									
Lead									
ND	12.5	12.5	12.6	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1A8
ND	12.5	12.5	12.6	ug	101	0.08	SW846 6010B	04/05-04/10/06	H2HWF1A9
Dilution Factor: 1									
Analysis Time...: 16:13									
Manganese									
ND	12.5	12.5	13.8	ug	110		SW846 6010B	04/05-04/10/06	H2HWF1CC
ND	12.5	12.5	27.4	ug	220	66	SW846 6010B	04/05-04/10/06	H2HWF1CD
Qualifiers: N,*									
Dilution Factor: 1									
Analysis Time...: 16:13									
Nickel									
ND	62.5	62.5	63.2	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1CF
ND	62.5	62.5	63.1	ug	101	0.08	SW846 6010B	04/05-04/10/06	H2HWF1CG
Dilution Factor: 1									
Analysis Time...: 16:13									
Selenium									
ND	18.8	18.8	17.3	ug	92		SW846 6010B	04/05-04/10/06	H2HWF1CJ
ND	18.8	18.8	17.3	ug	92	0.30	SW846 6010B	04/05-04/10/06	H2HWF1CK
Dilution Factor: 1									
Analysis Time...: 16:13									
Silver									
ND	6.25	6.25	5.88	ug	94		SW846 6010B	04/05-04/10/06	H2HWF1CM
ND	6.25	6.25	6.19	ug	99	5.2	SW846 6010B	04/05-04/10/06	H2HWF1CN
Dilution Factor: 1									
Analysis Time...: 16:13									

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Thallium	ND	50.0	48.7	ug	97		SW846 6010B	04/05-04/10/06	H2HWF1CQ
	ND	50.0	48.7	ug	97	0.08	SW846 6010B	04/05-04/10/06	H2HWF1CR
Dilution Factor: 1									
Analysis Time...: 16:13									

Vanadium	ND	25.0	25.2	ug	101		SW846 6010B	04/05-04/10/06	H2HWF1CU
	ND	25.0	25.0	ug	100	0.59	SW846 6010B	04/05-04/10/06	H2HWF1CV
Dilution Factor: 1									
Analysis Time...: 16:13									

Zinc	ND	62.5	65.9	ug	105		SW846 6010B	04/05-04/10/06	H2HWF1CX
	ND	62.5	64.9	ug	104	1.6	SW846 6010B	04/05-04/10/06	H2HWF1C0
Dilution Factor: 1									
Analysis Time...: 16:13									

MS Lot-Sample #: H6D030224-007 Prep Batch #...: 6097038

Mercury	ND	2.00	1.82	ug	91		SW846 7470A	04/10/06	H2HWF1C2
	ND	2.00	1.76	ug	88	3.3	SW846 7470A	04/10/06	H2HWF1C3
Dilution Factor: 2									
Analysis Time...: 16:59									

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>RPD</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
MS Lot-Sample #: H6D030224-003 Prep Batch #... : 6097038						
Mercury	94	(80 - 120)		SW846 7470A	04/10/06	H2HV31AC
	93	(80 - 120)	0.85 (0-20)	SW846 7470A	04/10/06	H2HV31AD
		Dilution Factor: 2.1				
		Analysis Time...: 16:53				

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-003 Prep Batch #...: 6097038

Mercury

ND	2.10	1.97	ug	94			SW846 7470A	04/10/06	H2HV31AC
ND	2.10	1.95	ug	93	0.85		SW846 7470A	04/10/06	H2HV31AD

Dilution Factor: 2.1

Analysis Time...: 16:53

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>RPD</u> <u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
------------------	-----------------------------------	----------------------------------	--------------------------	---------------	---------------	---	-------------------------------

MS Lot-Sample #: H6D030224-008 Prep Batch #...: 6097038

Mercury	93	(80 - 120)			SW846 7470A	04/10/06	H2HWL1AC
	93	(80 - 120)	0.64	(0-20)	SW846 7470A	04/10/06	H2HWL1AD

Dilution Factor: 2

Analysis Time...: 17:10

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-008 Prep Batch #...: 6097038

Mercury

ND	2.00	1.87	ug	93			SW846 7470A	04/10/06	H2HWL1AC
ND	2.00	1.86	ug	93	0.64		SW846 7470A	04/10/06	H2HWL1AD

Dilution Factor: 2

Analysis Time...: 17:10

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-004 Prep Batch #... : 6097041							
Mercury	101	(80 - 120)			SW846 7470A	04/10/06	H2HV61AC
	101	(80 - 120)	0.0	(0-20)	SW846 7470A	04/10/06	H2HV61AD
			Dilution Factor: 0.72				
			Analysis Time...: 16:09				

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-004 Prep Batch #...: 6097041

Mercury

0.93	0.720	1.66	ug	101			SW846 7470A	04/10/06	H2HV61AC
0.93	0.720	1.66	ug	101	0.0		SW846 7470A	04/10/06	H2HV61AD

Dilution Factor: 0.72

Analysis Time...: 16:09

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H6D030224-005 Prep Batch #... : 6097041						
Mercury	NC,MSB	(80 - 120)		SW846 7470A	04/10/06	H2HV71AC
	NC,MSB	(80 - 120)	(0-20)	SW846 7470A	04/10/06	H2HV71AD
Dilution Factor: 1.75						
Analysis Time...: 16:19						

MS Lot-Sample #: H6D030224-005 Prep Batch #... : 6111407						
Mercury	97	(80 - 120)		SW846 7470A	04/24/06	H2HV71AE
	103	(80 - 120)	1.7 (0-20)	SW846 7470A	04/24/06	H2HV71AF
Dilution Factor: 3.5						
Analysis Time...: 14:50						

NOTE(S) :

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	-------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-005 Prep Batch #...: 6097041

Mercury

8.4	1.75	10.4	ug				SW846 7470A	04/10/06	H2HV71AC
Qualifiers: NC,MSB									
8.4	1.75	9.73	ug				SW846 7470A	04/10/06	H2HV71AD
Qualifiers: NC,MSB									
Dilution Factor: 1.75									
Analysis Time...: 16:19									

MS Lot-Sample #: H6D030224-005 Prep Batch #...: 6111407

Mercury

8.8	3.50	12.2	ug	97			SW846 7470A	04/24/06	H2HV71AE
8.8	3.50	12.4	ug	103	1.7		SW846 7470A	04/24/06	H2HV71AF
Dilution Factor: 3.5									
Analysis Time...: 14:50									

NOTE(S) :

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

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	---------------------	--------------------	-----	---------------	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-009 Prep Batch #...: 6097041

Mercury	97	(80 - 120)			SW846 7470A	04/10/06	H2HWN1AC
	958 N, *	(80 - 120)	163	(0-20)	SW846 7470A	04/10/06	H2HWN1AD

Dilution Factor: 0.2

Analysis Time...: 16:25

NOTE (S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-009 Prep Batch #...: 6097041

Mercury

ND	0.200	0.194	ug	97			SW846 7470A	04/10/06	H2HWN1AC
ND	0.200	1.92	ug	958	163		SW846 7470A	04/10/06	H2HWN1AD

Qualifiers: N, *

Dilution Factor: 0.2

Analysis Time...: 16:25

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	---------------------	--------------------	---------------	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-010 Prep Batch #...: 6097041

Mercury	106	(80 - 120)		SW846 7470A	04/10/06	H2HWP1AC
	385 N, *	(80 - 120)	114 (0-20)	SW846 7470A	04/10/06	H2HWP1AD

Dilution Factor: 0.75

Analysis Time...: 16:31

NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H6D030224

Matrix.....: AIR

Date Sampled...: 03/28/06

Date Received...: 04/02/06

PARAMETER	AMOUNT	SAMPLE SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
-----------	--------	---------------------	------------------	-------	------------------	-----	--------	-------------------------------	-----------------

MS Lot-Sample #: H6D030224-010 Prep Batch #...: 6097041

Mercury

ND	0.750	0.795	ug	106			SW846 7470A	04/10/06	H2HWP1AC
ND	0.750	2.89	ug	385	114		SW846 7470A	04/10/06	H2HWP1AD

Qualifiers: N, *

Dilution Factor: 0.75

Analysis Time...: 16:31

NOTE (S) :

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

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HV1A	Original Sample H2HV1	Spike Added	Percent Recovery
Ag	64.04	14.46	50.0	99.2
Al	3219.75	1048.13	2000.0	108.6
As	156.09	56.17	100.0	99.9
Ba	177.72	72.14	100.0	105.6
Be	52.87	2.05	50.0	101.6
Cd	150.68	102.49	50.0	96.4
Co	108.35	6.23	100.0	102.1
Cr	738.19	544.93	200.0	96.6
Cu	1870.37	1621.84	250.0	99.4
Mn	682.63	594.65	100.0	88.0
Ni	629.36	108.95	500.0	104.1
Pb	3470.26	3516.26	100.0	-46.0
Sb	514.41	39.08	500.0	95.1
Se	178.13	33.32	150.0	96.5
Tl	509.45	99.97	400.0	102.4
V	235.68	24.80	200.0	105.4
Zn	2515.68	2058.46	500.0	91.4

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HV2A	Original Sample H2HV2	Spike Added	Percent Recovery
Ag	64.48	12.10	50.0	104.8
Al	2253.21	273.49	2000.0	99.0
As	102.32	1.42	100.0	100.9
Ba	137.81	30.22	100.0	107.6
Be	53.64	0.00	50.0	107.3
Cd	72.47	18.57	50.0	107.8
Co	107.56	2.44	100.0	105.1
Cr	229.59	14.62	200.0	107.5
Cu	311.43	51.39	250.0	104.0
Mn	170.02	63.00	100.0	107.0
Ni	550.96	11.30	500.0	107.9
Pb	153.18	48.45	100.0	104.7
Sb	470.03	6.06	500.0	92.8
Se	159.62	12.37	150.0	98.2
Tl	415.70	0.00	400.0	103.9
V	215.85	2.37	200.0	106.7
Zn	674.67	124.40	500.0	110.1

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HW4A	Original Sample H2HW4	Spike Added	Percent Recovery
Ag	58.95	9.50	50.0	98.9
Al	3256.00	928.09	2000.0	116.4
As	145.08	33.59	100.0	111.5
Ba	167.32	54.13	100.0	113.2
Be	57.67	1.16	50.0	113.0
Cd	144.95	90.12	50.0	109.7
Co	113.43	0.00	100.0	113.4
Cr	576.34	353.84	200.0	111.2
Cu	1346.87	1093.04	250.0	101.5
Mn	497.43	393.74	100.0	103.7
Ni	657.88	84.47	500.0	114.7
Pb	6799.54	6903.20	100.0	-103.7
Sb	534.99	34.83	500.0	100.0
Se	190.17	31.45	150.0	105.8
Tl	545.84	96.95	400.0	112.2
V	246.62	14.59	200.0	116.0
Zn	1801.69	1261.14	500.0	108.1

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HW5A	Original Sample H2HW5	Spike Added	Percent Recovery
Ag	56.88	6.85	50.0	100.1
Al	2280.98	323.56	2000.0	97.9
As	99.06	0.00	100.0	99.1
Ba	157.79	53.63	100.0	104.2
Be	52.93	0.43	50.0	105.0
Cd	60.88	7.09	50.0	107.6
Co	104.70	0.00	100.0	104.7
Cr	221.95	10.52	200.0	105.7
Cu	288.43	34.44	250.0	101.6
Mn	127.06	20.12	100.0	106.9
Ni	544.54	10.44	500.0	106.8
Pb	145.01	42.44	100.0	102.6
Sb	518.23	0.00	500.0	103.6
Se	150.14	8.37	150.0	94.5
Tl	407.96	0.00	400.0	102.0
V	212.32	0.00	200.0	106.2
Zn	617.36	73.22	500.0	108.8

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HWQA	Original Sample H2HWQ	Spike Added	Percent Recovery
Ag	60.53	11.91	50.0	97.2
Al	2880.13	847.71	2000.0	101.6
As	119.89	24.45	100.0	95.4
Ba	150.08	50.51	100.0	99.6
Be	50.72	1.04	50.0	99.4
Cd	105.71	57.05	50.0	97.3
Co	101.53	2.56	100.0	99.0
Cr	376.70	179.64	200.0	98.5
Cu	1224.46	1001.41	250.0	89.2
Mn	465.47	378.35	100.0	87.1
Ni	587.58	83.90	500.0	100.7
Pb	2333.95	2334.43	100.0	-0.5
Sb	488.89	33.61	500.0	91.1
Se	161.92	23.86	150.0	92.0
Tl	487.44	96.24	400.0	97.8
V	213.43	11.46	200.0	101.0
Zn	1634.06	1165.15	500.0	93.8

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HWT A	Original Sample H2HWT	Spike Added	Percent Recovery
Ag	93.60	44.71	50.0	97.8
Al	2346.29	383.75	2000.0	98.1
As	101.77	1.33	100.0	100.4
Ba	143.48	38.85	100.0	104.6
Be	52.60	0.54	50.0	104.1
Cd	74.45	21.60	50.0	105.7
Co	108.01	4.32	100.0	103.7
Cr	232.81	22.00	200.0	105.4
Cu	333.65	81.23	250.0	101.0
Mn	147.97	41.93	100.0	106.0
Ni	560.88	30.26	500.0	106.1
Pb	271.81	173.68	100.0	98.1
Sb	462.93	0.00	500.0	92.6
Se	161.15	16.13	150.0	96.7
Tl	415.43	0.00	400.0	103.9
V	211.81	1.55	200.0	105.1
Zn	733.69	192.29	500.0	108.3

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HV1A	Original Sample H2HV1	Spike Added	Percent Recovery
Hg	0.964	ND	1.0	96.4

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HWQA	Original Sample H2HWQ	Spike Added	Percent Recovery
Hg	0.957	ND	1.0	95.7

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006.PRN

Element	PDS H2HW4A	Original Sample H2HW4	Spike Added	Percent Recovery
Hg	0.971	ND	1.0	97.1

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HV2A	Original Sample H2HV2	Spike Added	Percent Recovery
Hg	1.57	0.58	1.0	99.0

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HWT A	Original Sample H2HWT	Spike Added	Percent Recovery
Hg	1.77	0.78	1.0	99

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HW5A	Original Sample H2HW5	Spike Added	Percent Recovery
Hg	2.88	1.92	1.0	96

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: t041006.arc

Elem	True Conc	ICV 10-Apr-06 11:44 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
Ag	500.0	493.53	98.7										
Al	12500.0	12371.53	99.0										
As	250.0	252.40	101.0										
Ba	1000.0	1000.32	100.0										
Be	1000.0	1028.33	102.8										
Cd	250.0	261.14	104.5										
Co	1000.0	1017.26	101.7										
Cr	1000.0	1007.87	100.8										
Cu	1000.0	981.66	98.2										
Mn	1000.0	1020.90	102.1										
Ni	1000.0	1028.02	102.8										
Pb	250.0	254.21	101.7										
Sb	250.0	243.52	97.4										
Se	250.0	250.42	100.2										
Tl	500.0	506.77	101.4										
V	1000.0	1005.86	100.6										
Zn	1000.0	1058.83	105.9										

ICP Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Elem	True Conc	CCV1 10-Apr-06 12:39 PM		CCV2 10-Apr-06 1:34 PM		CCV3 10-Apr-06 2:47 PM		CCV4 10-Apr-06 4:00 PM		CCV5 10-Apr-06 5:14 PM		CCV6 10-Apr-06 6:28 PM	
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Ag	1000.0	989.36	98.9	990.70	99.1	993.72	99.4	990.14	99.0	985.75	98.6	988.84	98.9
Al	25000.0	24557.21	98.2	24108.53	96.4	24274.23	97.1	24159.36	96.6	24051.81	96.2	24129.91	96.5
As	500.0	492.85	98.6	493.35	98.7	494.77	99.0	489.60	97.9	487.47	97.5	491.59	98.3
Ba	2000.0	2006.09	100.3	1978.85	98.9	2010.35	100.5	2012.66	100.6	1997.53	99.9	1995.84	99.8
Be	2000.0	2046.55	102.3	2065.37	103.3	2049.84	102.5	2033.60	101.7	2037.80	101.9	2043.08	102.2
Cd	500.0	513.29	102.7	522.85	104.6	520.12	104.0	513.85	102.8	516.32	103.3	518.65	103.7
Co	2000.0	2023.44	101.2	2041.86	102.1	2030.49	101.5	2003.78	100.2	2008.62	100.4	2016.95	100.8
Cr	2000.0	2027.88	101.4	2050.20	102.5	2037.99	101.9	2017.06	100.9	2021.85	101.1	2024.34	101.2
Cu	2000.0	1952.99	97.6	1914.08	95.7	1941.20	97.1	1933.09	96.7	1917.69	95.9	1922.11	96.1
Mn	2000.0	2036.43	101.8	2054.90	102.7	2052.43	102.6	2035.41	101.8	2037.03	101.9	2039.79	102.0
Ni	2000.0	2040.79	102.0	2071.23	103.6	2062.99	103.1	2040.55	102.0	2050.71	102.5	2052.87	102.6
Pb	500.0	507.74	101.5	512.40	102.5	507.83	101.6	503.70	100.7	507.10	101.4	506.04	101.2
Sb	500.0	487.98	97.6	484.74	96.9	488.42	97.7	482.98	96.6	484.35	96.9	483.55	96.7
Se	500.0	495.98	99.2	490.44	98.1	495.41	99.1	490.01	98.0	489.70	97.9	489.05	97.8
Tl	1000.0	1001.13	100.1	996.89	99.7	999.34	99.9	989.29	98.9	997.54	99.8	996.62	99.7
V	2000.0	2002.70	100.1	2008.82	100.4	2005.40	100.3	1989.92	99.5	1990.73	99.5	1991.81	99.6
Zn	2000.0	2062.98	103.1	2069.45	103.5	2068.04	103.4	2040.22	102.0	2041.04	102.1	2048.36	102.4

ICP Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Elem	True Conc	CCV7 10-Apr-06 7:29 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
Ag	1000.0	992.27	99.2										
Al	25000.0	24221.42	96.9										
As	500.0	491.77	98.4										
Ba	2000.0	1997.99	99.9										
Be	2000.0	2062.12	103.1										
Cd	500.0	521.84	104.4										
Co	2000.0	2039.63	102.0										
Cr	2000.0	2039.46	102.0										
Cu	2000.0	1919.52	96.0										
Mn	2000.0	2055.23	102.8										
Ni	2000.0	2071.95	103.6										
Pb	500.0	510.96	102.2										
Sb	500.0	486.12	97.2										
Se	500.0	490.07	98.0										
Tl	1000.0	1001.98	100.2										
V	2000.0	2006.71	100.3										
Zn	2000.0	2056.87	102.8										

ICP Data Reporting Form

Reporting Limit Standard(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Elem	True Conc	CRDL 10-Apr-06 12:27 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec												
Ag	10.0	10.83	108.3												
Al	200.0	231.35	115.7												
As	10.0	9.57	95.7												
Ba	10.0	9.91	99.1												
Be	5.0	5.42	108.4												
Cd	5.0	5.43	108.6												
Co	50.0	51.09	102.2												
Cr	10.0	10.11	101.1												
Cu	25.0	22.97	91.9												
Mn	15.0	15.59	103.9												
Ni	40.0	41.32	103.3												
Pb	4.0	4.99	124.7												
Sb	60.0	60.12	100.2												
Se	5.0	5.65	113.0												
Tl	10.0	11.57	115.7												
V	50.0	51.64	103.3												
Zn	20.0	22.44	112.2												

ICP Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Elem	Acceptance Limit	ICB 10-Apr-06 11:50 AM									
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Ag	20.0	1.3	U								
Al	200.0	10.6	B								
As	10.0	1.2	U								
Ba	200.0	0.1	U								
Be	5.0	0.2	U								
Cd	5.0	0.2	U								
Co	50.0	0.6	U								
Cr	10.0	1.0	U								
Cu	25.0	-0.6	B								
Mn	15.0	0.1	U								
Ni	40.0	0.7	U								
Pb	10.0	0.8	U								
Sb	60.0	2.3	U								
Se	10.0	1.3	U								
Tl	35.0	2.7	U								
V	50.0	1.2	U								
Zn	20.0	-0.3	B								

ICP Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Elem	Acceptance Limit	CCB1 10-Apr-06 12:45 PM		CCB2 10-Apr-06 1:40 PM		CCB3 10-Apr-06 2:53 PM		CCB4 10-Apr-06 4:07 PM		CCB5 10-Apr-06 5:20 PM		CCB6 10-Apr-06 6:34 PM	
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Ag	20.0	1.3	U	1.3	U	1.6	B	1.5	B	1.3	U	5.5	B
Al	200.0	20.4	B	22.9	B	23.9	B	25.7	B	32.7	B	23.5	B
As	10.0	1.2	U	-1.7	B	1.2	U	1.2	U	-2.0	B	1.2	U
Ba	200.0	0.1	U	0.1	U	0.1	U	0.1	U	-0.1	B	0.1	U
Be	5.0	0.4	B	0.4	B	0.4	B	0.7	B	0.5	B	0.5	B
Cd	5.0	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Co	50.0	0.6	U	0.6	U	0.6	U	0.6	U	-1.1	B	-0.7	B
Cr	10.0	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Cu	25.0	-1.2	B	-1.6	B	-1.3	B	-1.8	B	-2.4	B	-2.1	B
Mn	15.0	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Ni	40.0	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U	0.7	U
Pb	10.0	0.8	U	0.8	U	0.8	U	1.2	B	0.8	U	0.8	U
Sb	60.0	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U	-2.5	B
Se	10.0	1.3	U	1.3	U	1.8	B	1.3	U	1.3	U	1.3	U
Tl	35.0	2.7	U	2.7	U	3.9	B	2.7	U	4.1	B	2.7	U
V	50.0	1.2	U	1.2	U	1.2	U	1.2	U	-1.3	B	1.2	U
Zn	20.0	-0.5	B	-0.7	B	-0.7	B	-0.8	B	-0.9	B	-0.9	B

ICP Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Elem	Acceptance Limit	CCB7 10-Apr-06 7:35 PM									
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Ag	20.0	2.0	B								
Al	200.0	25.4	B								
As	10.0	1.2	U								
Ba	200.0	0.1	U								
Be	5.0	0.4	B								
Cd	5.0	0.2	U								
Co	50.0	0.6	U								
Cr	10.0	1.0	U								
Cu	25.0	-1.5	B								
Mn	15.0	0.1	U								
Ni	40.0	0.7	U								
Pb	10.0	0.8	U								
Sb	60.0	2.3	U								
Se	10.0	1.3	U								
Tl	35.0	2.7	U								
V	50.0	1.2	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: t041006.arc

Elem	True Conc	Reporting Limit	ICSA1 10-Apr-06 11:56 AM				
			Found	Found	Found	Found	Found
Ag		20	0				
Al	500000		474661				
As		10	1				
Ba		200	13				
Be		5	0				
Ca	500000		443149				
Cd		5	0				
Co		50	0				
Cr		10	5				
Cu		25	0				
Fe	200000		197407				
Mg	500000		532314				
Mn		15	-1				
Ni		40	0				
Pb		10	-1				
Sb		60	-3				
Se		10	4				
Tl		35	7				
V		50	11				
Zn		20	4				

ICP Data Reporting Form

Interference Check Standard AB

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Elem	True Conc	ICSAB1 10-Apr-06 12:02 PM											
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Ag	200	205.1	102.6										
Al	250000	239998.5	96.0										
As	100	99.0	99.0										
Ba	500	516.8	103.4										
Be	500	510.3	102.1										
Ca	250000	233040.3	93.2										
Cd	1000	984.1	98.4										
Co	500	490.6	98.1										
Cr	500	498.6	99.7										
Cu	500	508.2	101.6										
Fe	100000	98031.8	98.0										
Mg	250000	254804.6	101.9										
Mn	500	506.2	101.2										
Ni	1000	979.5	98.0										
Pb	50	50.0	100.0										
Sb	600	627.8	104.6										
Se	50	52.6	105.2										
Tl	100	90.6	90.6										
V	500	495.6	99.1										
Zn	1000	1056.5	105.6										

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HV1A	Original Sample H2HV1	Spike Added	Percent Recovery
Ag	64.04	14.46	50.0	99.2
Al	3219.75	1048.13	2000.0	108.6
As	156.09	56.17	100.0	99.9
Ba	177.72	72.14	100.0	105.6
Be	52.87	2.05	50.0	101.6
Cd	150.68	102.49	50.0	96.4
Co	108.35	6.23	100.0	102.1
Cr	738.19	544.93	200.0	96.6
Cu	1870.37	1621.84	250.0	99.4
Mn	682.63	594.65	100.0	88.0
Ni	629.36	108.95	500.0	104.1
Pb	3470.26	3516.26	100.0	-46.0
Sb	514.41	39.08	500.0	95.1
Se	178.13	33.32	150.0	96.5
Tl	509.45	99.97	400.0	102.4
V	235.68	24.80	200.0	105.4
Zn	2515.68	2058.46	500.0	91.4

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HV2A	Original Sample H2HV2	Spike Added	Percent Recovery
Ag	64.48	12.10	50.0	104.8
Al	2253.21	273.49	2000.0	99.0
As	102.32	1.42	100.0	100.9
Ba	137.81	30.22	100.0	107.6
Be	53.64	0.00	50.0	107.3
Cd	72.47	18.57	50.0	107.8
Co	107.56	2.44	100.0	105.1
Cr	229.59	14.62	200.0	107.5
Cu	311.43	51.39	250.0	104.0
Mn	170.02	63.00	100.0	107.0
Ni	550.96	11.30	500.0	107.9
Pb	153.18	48.45	100.0	104.7
Sb	470.03	6.06	500.0	92.8
Se	159.62	12.37	150.0	98.2
Tl	415.70	0.00	400.0	103.9
V	215.85	2.37	200.0	106.7
Zn	674.67	124.40	500.0	110.1

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HW4A	Original Sample H2HW4	Spike Added	Percent Recovery
Ag	58.95	9.50	50.0	98.9
Al	3256.00	928.09	2000.0	116.4
As	145.08	33.59	100.0	111.5
Ba	167.32	54.13	100.0	113.2
Be	57.67	1.16	50.0	113.0
Cd	144.95	90.12	50.0	109.7
Co	113.43	0.00	100.0	113.4
Cr	576.34	353.84	200.0	111.2
Cu	1346.87	1093.04	250.0	101.5
Mn	497.43	393.74	100.0	103.7
Ni	657.88	84.47	500.0	114.7
Pb	6799.54	6903.20	100.0	-103.7
Sb	534.99	34.83	500.0	100.0
Se	190.17	31.45	150.0	105.8
Tl	545.84	96.95	400.0	112.2
V	246.62	14.59	200.0	116.0
Zn	1801.69	1261.14	500.0	108.1

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HW5A	Original Sample H2HW5	Spike Added	Percent Recovery
Ag	56.88	6.85	50.0	100.1
Al	2280.98	323.56	2000.0	97.9
As	99.06	0.00	100.0	99.1
Ba	157.79	53.63	100.0	104.2
Be	52.93	0.43	50.0	105.0
Cd	60.88	7.09	50.0	107.6
Co	104.70	0.00	100.0	104.7
Cr	221.95	10.52	200.0	105.7
Cu	288.43	34.44	250.0	101.6
Mn	127.06	20.12	100.0	106.9
Ni	544.54	10.44	500.0	106.8
Pb	145.01	42.44	100.0	102.6
Sb	518.23	0.00	500.0	103.6
Se	150.14	8.37	150.0	94.5
Tl	407.96	0.00	400.0	102.0
V	212.32	0.00	200.0	106.2
Zn	617.36	73.22	500.0	108.8

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HWQA	Original Sample H2HWQ	Spike Added	Percent Recovery
Ag	60.53	11.91	50.0	97.2
Al	2880.13	847.71	2000.0	101.6
As	119.89	24.45	100.0	95.4
Ba	150.08	50.51	100.0	99.6
Be	50.72	1.04	50.0	99.4
Cd	105.71	57.05	50.0	97.3
Co	101.53	2.56	100.0	99.0
Cr	376.70	179.64	200.0	98.5
Cu	1224.46	1001.41	250.0	89.2
Mn	465.47	378.35	100.0	87.1
Ni	587.58	83.90	500.0	100.7
Pb	2333.95	2334.43	100.0	-0.5
Sb	488.89	33.61	500.0	91.1
Se	161.92	23.86	150.0	92.0
Tl	487.44	96.24	400.0	97.8
V	213.43	11.46	200.0	101.0
Zn	1634.06	1165.15	500.0	93.8

ICP Data Reporting Form

Post Digestion Spike

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	PDS H2HWT A	Original Sample H2HWT	Spike Added	Percent Recovery
Ag	93.60	44.71	50.0	97.8
Al	2346.29	383.75	2000.0	98.1
As	101.77	1.33	100.0	100.4
Ba	143.48	38.85	100.0	104.6
Be	52.60	0.54	50.0	104.1
Cd	74.45	21.60	50.0	105.7
Co	108.01	4.32	100.0	103.7
Cr	232.81	22.00	200.0	105.4
Cu	333.65	81.23	250.0	101.0
Mn	147.97	41.93	100.0	106.0
Ni	560.88	30.26	500.0	106.1
Pb	271.81	173.68	100.0	98.1
Sb	462.93	0.00	500.0	92.6
Se	161.15	16.13	150.0	96.7
Tl	415.43	0.00	400.0	103.9
V	211.81	1.55	200.0	105.1
Zn	733.69	192.29	500.0	108.3

ICP Data Reporting Form

Serial Dilution(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	H2HV1	H2HV1P	Percent Difference
Ag	14.46 B	29.35 B	103.0
Al	1048.13	1165.05	11.2 E
As	56.17	57.50	2.4
Ba	72.14 B	71.15 B	1.4
Be	2.05 B	3.65 B	78.0
Cd	102.49	106.00	3.4
Co	6.23 B	5.60 B	10.1
Cr	544.93	548.55	0.7
Cu	1621.84	1588.95	2.0
Mn	594.65	598.10	0.6
Ni	108.95	113.55 B	4.2
Pb	3516.26	3670.10	4.4
Sb	39.08 B	52.75 B	35.0
Se	33.32	32.80 B	1.6
Tl	99.97	132.65 B	32.7
V	24.80 B	23.65 B	4.6
Zn	2058.46	2153.00	4.6

B - Analyte concentration is between IDL and Reporting Limit

U - Analyte concentration is less than IDL

E - Percent Difference is greater than 10 and [OS]>50 times IDL

ICP Data Reporting Form

Serial Dilution(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	H2HV2	H2HV2P	Percent Difference
Ag	12.10 B	11.50 B	5.0
Al	273.49	396.45 B	45.0
As	1.42 B	6.00 U	100.0
Ba	30.22 B	29.65 B	1.9
Be	0.23 U	1.70 B	
Cd	18.57	18.60 B	0.2
Co	2.44 B	2.85 U	100.0
Cr	14.62	14.00 B	4.2
Cu	51.39	43.30 B	15.7 E
Mn	63.00	71.30 B	13.2 E
Ni	11.30 B	11.50 B	1.8
Pb	48.45	49.95 B	3.1
Sb	6.06 B	11.50 U	100.0
Se	12.37	19.25 B	55.6
Tl	2.70 U	13.50 U	
V	2.37 B	6.00 U	100.0
Zn	124.40	133.50	7.3

ICP Data Reporting Form

Instrument Detection Limits

Units: ug/L (ppb)

IDL Completion Date: 13-Jan-06

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	Wavelength (nm)	IDL
Ag	328.07	1.3
Al	308.21	6.8
As	189.04	1.2
Ba	493.41	0.084
Be	313.04	0.23
Cd	226.50	0.23
Co	228.62	0.57
Cr	267.71	1.0
Cu	324.75	0.26
Mn	257.61	0.14
Ni	231.60	0.71
Pb	220.35	0.79
Sb	206.84	2.3
Se	196.03	1.3
Tl	190.86	2.7
V	292.40	1.2
Zn	213.86	0.23

STL Knoxville
ICP Data Reporting Form

Inter-Element Correction Factors

Instrument: TJA 61-E SuperTrace ICP

Date of IEC's: 5/3/2005

Interfering Element	Correction Factor(s)
Aluminum	V(0.025525)
Antimony	Cr(-0.011889), Fe(0.000042), Ti(-0.0022)
Arsenic	Cr(-0.002088), Fe(-0.000006), Mo(-0.00169)
Beryllium	V(-0.008394)
Cadmium	Fe(0.000037)
Chromium	Fe(-0.000018)
Cobalt	Ti(0.00181)
Iron	Co(0.05301), V(0.004938)
Lead	Al(0.000433), Co(0.000367), Cr(-0.000302), Fe(0.000073)
Lead	Al(-0.00141), Fe(0.000048), Mn(0.000215), Mo(-0.001129), Ni(0.000288), Ti(-0.00061)
Nickel	Co(0.002166)
Phosphorus	Al(0.00017)
Selenium	Co(-0.000705), Fe(-0.000294), Mn(0.00044)
Selenium	Co(0.000373), Fe(-0.000029), Mn(0.000358)
Silicon	Al(0.00022)
Silver	Ca(0.000016), Fe(0.000007)
Strontium	Ca(0.000037)
Thallium	Co(0.002379), Mn(0.001142), Ti(-0.01067), V(-0.027889)
Vanadium	Fe(-0.00009), Mg(-0.00135)
Zinc	Cu(0.000782), Fe(0.000069), Ni(0.002911)

STL Knoxville

ICP Data Reporting Form

Linear Dynamic Ranges

Units: ug/L (ppb)

LDR Date: 12-Jan-06

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t041006.arc

Element	Linear Dynamic Range
Ag	4000.0
Al	700000.0
As	30000.0
Ba	30000.0
Be	10000.0
Cd	40000.0
Co	100000.0
Cr	100000.0
Cu	50000.0
Mn	30000.0
Ni	100000.0
Pb	70000.0
Sb	20000.0
Se	30000.0
Tl	70000.0
V	100000.0
Zn	10000.0

STL 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:** H041006.PRN

Elem	True Conc	Ck2icv 4/10/2006 3:22 PM											
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	2.5	2.46	98.4										

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: H041006.PRN

Elem	True Conc	Ck3ccv 4/10/2006 3:28 PM		Ck3ccv 4/10/2006 3:52 PM		Ck3ccv 4/10/2006 4:15 PM		Ck3ccv 4/10/2006 4:38 PM		Ck3ccv 4/10/2006 5:03 PM		Ck3ccv 4/10/2006 5:27 PM	
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	5.0	5.01	100.2	5.01	100.2	4.94	98.8	4.86	97.2	4.88	97.6	4.96	99.2

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: H041006.PRN

		Ck3ccv 4/10/2006 5:44 PM									
Elem	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	5.0	4.93	98.6								

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: H041006.PRN

Elem	True Conc	CRA 4/10/2006 3:26 PM									
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	0.2	0.16	77.5								

STL Knoxville

Mercury Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: H041006.PRN

Elem	Reporting Limit	ICB 4/10/2006 3:24 PM									
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	-0.06	B								

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: H041006.PRN

Elem	Reporting Limit	Ck1ccb 4/10/2006 3:30 PM		Ck1ccb 4/10/2006 3:54 PM		Ck1ccb 4/10/2006 4:17 PM		Ck1ccb 4/10/2006 4:41 PM		Ck1ccb 4/10/2006 5:05 PM		Ck1ccb 4/10/2006 5:29 PM	
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	-0.09	B	-0.06	B	-0.09	B	-0.06	B	-0.09	B	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: H041006.PRN

		Ck1ccb 4/10/2006 5:46 PM									
Elem	Reporting Limit	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	-0.07	B								

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HWQA	Original Sample H2HWQ	Spike Added	Percent Recovery
Hg	0.957	ND	1.0	95.7

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HV1A	Original Sample H2HV1	Spike Added	Percent Recovery
Hg	0.964	ND	1.0	96.4

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006.PRN

Element	PDS H2HW4A	Original Sample H2HW4	Spike Added	Percent Recovery
Hg	0.971	ND	1.0	97.1

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HV2A	Original Sample H2HV2	Spike Added	Percent Recovery
Hg	1.57	0.58	1.0	99.0

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HWT A	Original Sample H2HWT	Spike Added	Percent Recovery
Hg	1.77	0.78	1.0	99

STL Knoxville**Mercury Data Reporting Form****Post Digestion Spike****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg**Data File Name:** H041006. PRN

Element	PDS H2HW5A	Original Sample H2HW5	Spike Added	Percent Recovery
Hg	2.88	1.92	1.0	96

STL Knoxville**Mercury Data Reporting Form****Instrument Detection Limits****Units:** ug/L (ppb)**IDL Completion Date:**12/8/2005**Instrument ID:** Leeman HydraAA Hg An**Data File Name:** H041006.PRN

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

STL Knoxville
Mercury Data Reporting Form

Initial Calibration Verification**Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg An**Data File Name:** H042406.PRN

		Ck2icv 4/24/2006 2:29 PM									
Elem	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	2.5	2.52	100.8								

STL Knoxville**Mercury Data Reporting Form****Continuing Calibration Verification****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg An**Data File Name:** H042406.PRN

Elem	True Conc	Ck3ccv 4/24/2006 2:35 PM		Ck3ccv 4/24/2006 2:58 PM		Ck3ccv 4/24/2006 3:21 PM		Ck3ccv 4/24/2006 3:44 PM		Ck3ccv 4/24/2006 4:06 PM		Ck3ccv 4/24/2006 4:31 PM	
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	5.0	5.03	100.6	4.92	98.4	4.93	98.6	4.85	97.0	4.84	96.8	4.78	95.6

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: H042406.PRN

		Ck3ccv 4/24/2006 4:48 PM									
Elem	True Conc	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	5.0	4.77	95.4								

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: H042406.PRN

Elem	True Conc	CRA 4/24/2006 2:32 PM									
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	0.2	0.20	101.5								

STL Knoxville

Mercury Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: H042406.PRN

		ICB 4/24/2006 2:31 PM									
Elem	Reporting Limit	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 An

Data File Name: H042406.PRN

Elem	Reporting Limit	Ck1ccb 4/24/2006 2:37 PM		Ck1ccb 4/24/2006 3:00 PM		Ck1ccb 4/24/2006 3:23 PM		Ck1ccb 4/24/2006 3:46 PM		Ck1ccb 4/24/2006 4:09 PM		Ck1ccb 4/24/2006 4:33 PM	
		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

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: H042406.PRN

Elem	Reporting Limit	Ck1ccb 4/24/2006 4:50 PM									
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	0.06	U								

STL Knoxville**Mercury Data Reporting Form****Instrument Detection Limits****Units:** ug/L (ppb)**IDL Completion Date:**12/8/2005**Instrument ID:** Leeman HydraAA Hg An**Data File Name:** H042406.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

STL Knoxville
ICP Analysis Cover Sheet

Chart Number:	T041006	Date of Analysis:	4/10/06
Instrument:	ST2	Analyst:	KND

Standard	ID #
Calibration Std. ID #:	
CCV (1:1 dil. of Cal. Std. ID#):	3341-9
ICV ID #:	3343-4
ICSA ID #:	3342A-3
ICSAB ID #:	3342B-3
CRI ID #:	3385-10-5, 3385-20-5, 3385-40-5, 3385-5

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

Comments: IDL's analyzed on this chart.

```

-----
:      Instrument Upload                      Run Log - Page 1 :
:      Started Tue Apr 11 06:14:25 2006 by DAWSONK           :
:      Data File: UPL$KNX_DATA_ROOT:<TJA>T041006.ARC;1       :
-----

```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	10-APR-2006	11:26:00			ST2
2	S1	1	10-APR-2006	11:32:00			ST2
3	S2	1	10-APR-2006	11:38:00			ST2
4	ICV	1	10-APR-2006	11:44:00			ST2
5	ICB	1	10-APR-2006	11:50:00			ST2
6	ICSA1	1	10-APR-2006	11:56:00			ST2
7	ICSAB1	1	10-APR-2006	12:02:00			ST2
8	CRDL10	1	10-APR-2006	12:08:00			ST2
9	CRDL20	1	10-APR-2006	12:15:00			ST2
10	CRDL40	1	10-APR-2006	12:21:00			ST2
11	CRDL	1	10-APR-2006	12:27:00			ST2
12	CRDL20Z2	1	10-APR-2006	12:33:00			ST2
13	CCV1	1	10-APR-2006	12:39:00			ST2
14	CCB1	1	10-APR-2006	12:45:00			ST2
15	IDL1	1	10-APR-2006	12:51:00			ST2
16	IDL2	1	10-APR-2006	12:57:00			ST2
17	IDL3	1	10-APR-2006	13:03:00			ST2
18	IDL4	1	10-APR-2006	13:09:00			ST2
19	IDL5	1	10-APR-2006	13:16:00			ST2
20	IDL6	1	10-APR-2006	13:22:00			ST2
21	IDL7	1	10-APR-2006	13:28:00			ST2
22	CCV2	1	10-APR-2006	13:34:00			ST2
23	CCB2	1	10-APR-2006	13:40:00			ST2
24	H2J3TBTZ3	1	10-APR-2006	13:46:00	6096043	H6D040000	ST2
25	H2N5ACTZ10	1	10-APR-2006	13:52:00	6096043	H6D060000	ST2
26	H2LW0B	1.0	10-APR-2006	13:58:00	6095074	H6D050000	ST2
27	H2LW0C	1.0	10-APR-2006	14:04:00	6095074	H6D050000	ST2
28	H2LW0L	1.0	10-APR-2006	14:11:00	6095074	H6D050000	ST2
29	H2LWVB	1.0	10-APR-2006	14:17:00	6095073	H6D050000	ST2
30	H2LWVC	1.0	10-APR-2006	14:23:00	6095073	H6D050000	ST2
31	H2LWVL	1.0	10-APR-2006	14:29:00	6095073	H6D050000	ST2
32	H2PFCB	1	10-APR-2006	14:35:00	6096159	H6D060000	ST2
33	H2PFCC	1	10-APR-2006	14:41:00	6096159	H6D060000	ST2
34	CCV3	1	10-APR-2006	14:47:00			ST2
35	CCB3	1	10-APR-2006	14:53:00			ST2
36	H2PF3B	1	10-APR-2006	14:59:00	6096160	H6D060000	ST2
37	H2PF3C	1	10-APR-2006	15:05:00	6096160	H6D060000	ST2
38	H2DDLTP15	1	10-APR-2006	15:12:00	6096043	H6C310164	ST2
39	H2DDLSTZ10	1	10-APR-2006	15:18:00	6096043	H6C310164	ST2
40	H2DDLDTZ10	1	10-APR-2006	15:24:00	6096043	H6C310164	ST2
41	H2DDLTP15	1	10-APR-2006	15:30:00			ST2
42	H2HV2	1.0	10-APR-2006	15:36:00	6095074	H6D030224	ST2
43	H2HV2A	1	10-APR-2006	15:42:00	6095074	H6D030224	ST2
44	H2HWF	1.0	10-APR-2006	15:48:00	6095074	H6D030224	ST2

----- (continued) -----

```

-----
:      Instrument Upload                      Run Log - Page  2 :
:      Started Tue Apr 11 06:14:25 2006 by DAWSONK             :
:      Data File: UPL$KNX_DATA_ROOT:<TJA>T041006.ARC;1         :
-----

```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	H2HV2P	1	10-APR-2006	15:54:00			ST2
46	CCV4	1	10-APR-2006	16:00:00			ST2
47	CCB4	1	10-APR-2006	16:07:00			ST2
48	H2HWFS	1.0	10-APR-2006	16:13:00	6095074	H6D030224	ST2
49	H2HWFD	1.0	10-APR-2006	16:19:00	6095074	H6D030224	ST2
50	H2HWT	1.0	10-APR-2006	16:25:00	6095074	H6D030224	ST2
51	H2HWT A	1	10-APR-2006	16:32:00	6095074	H6D030224	ST2
52	H2HW5	1.0	10-APR-2006	16:38:00	6095074	H6D030224	ST2
53	H2HW5A	1	10-APR-2006	16:44:00	6095074	H6D030224	ST2
54	H2HV1	1.0	10-APR-2006	16:50:00	6095073	H6D030224	ST2
55	H2HV1A	1	10-APR-2006	16:56:00	6095073	H6D030224	ST2
56	H2HV8	1.0	10-APR-2006	17:02:00	6095073	H6D030224	ST2
57	H2HV1P	1	10-APR-2006	17:08:00			ST2
58	CCV5	1	10-APR-2006	17:14:00			ST2
59	CCB5	1	10-APR-2006	17:20:00			ST2
60	H2HV8S	1.0	10-APR-2006	17:27:00	6095073	H6D030224	ST2
61	H2HV8D	1.0	10-APR-2006	17:33:00	6095073	H6D030224	ST2
62	H2HWQ	1.0	10-APR-2006	17:39:00	6095073	H6D030224	ST2
63	H2HWQA	1	10-APR-2006	17:45:00	6095073	H6D030224	ST2
64	H2HW4	1.0	10-APR-2006	17:51:00	6095073	H6D030224	ST2
65	H2HW4A	1	10-APR-2006	17:57:00	6095073	H6D030224	ST2
66	H2HXA	1.0	10-APR-2006	18:03:00	6095073	H6D030224	ST2
67	H2MR1	1	10-APR-2006	18:09:00	6096159	H6D050229	ST2
68	H2MR1S	1	10-APR-2006	18:16:00	6096159	H6D050229	ST2
69	H2MR1P	1	10-APR-2006	18:22:00			ST2
70	CCV6	1	10-APR-2006	18:28:00			ST2
71	CCB6	1	10-APR-2006	18:34:00			ST2
72	H2MR1D	1	10-APR-2006	18:40:00	6096159	H6D050229	ST2
73	H2MTE	1	10-APR-2006	18:46:00	6096159	H6D050229	ST2
74	H2J9K	1	10-APR-2006	18:52:00	6096160	H6D040213	ST2
75	H2J9KS	1	10-APR-2006	18:58:00	6096160	H6D040213	ST2
76	H2J9KD	1	10-APR-2006	19:05:00	6096160	H6D040213	ST2
77	H2KCL	1	10-APR-2006	19:11:00	6096160	H6D040213	ST2
78	H2KC9	1	10-APR-2006	19:17:00	6096160	H6D040213	ST2
79	H2J9KP	1	10-APR-2006	19:23:00			ST2
80	CCV7	1	10-APR-2006	19:29:00			ST2
81	CCB7	1	10-APR-2006	19:35:00			ST2
82		1	10-APR-2006	19:41:00			ST2
83		1	10-APR-2006	19:47:00			ST2
84		1	10-APR-2006	19:53:00			ST2

```

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

```

STL Knoxville ICP Chart Review Checklist
Method: 6010B/200.7 - KNOX-MT-0007, Rev 5

Page 1 of 2

Chart Name:	<u>T041006</u>			Instrument:	<u>ST2</u>
--------------------	----------------	--	--	--------------------	------------

A. Calibration/Instrument Run QC	NA	Yes	No	If No, why is data reportable?
1. Instrument calibrated per SOP?		☒		
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)		☒		
3. CCV analyzed at required frequency?		☒		
4. CCV within acceptance limits? (6010B & SDWA 200.7 = 90 - 110%R and <5% RSD) (CWA 200.7 = 95 - 105%R)		☒		If no, list details: <u>CCV3-7 B+Si high due to air train samples</u>
5. ICB/CCB analyzed at required frequency?		☒		
6. ICB/CCB within acceptance limits? (Waters/Soils $\leq 3 \times$ std. dev. of mean blank value and $\leq$ MDL) (Air/SEP/PM10/4U $\leq$ RL)		☒		If no, list details: <u>CCB3-7 B+Si high due to air train samples</u>
7. ICSA/ICSAB run at required frequency? (6010B & SDWA 200.7 = beginning of run; CWA 200.7 = beginning and end of run)		☒		
8. ICSAB interferents and analytes within limits? (80 - 120%R)		☒		
9. ICSA criteria for non-interfering elements met? If no, list analytes: <u>Ba</u>			☒	☒ [ics1] Results outside limits due to contamination. ☐ [ics2] Interfering elements not present in sample at level which would result in false result $\geq \pm 2 \times$ RL. ☐ [ics3] Concentration of affected analyte in sample is more than 10x analyte signal in ICSA.
10. Reporting Limit Check Standard (CRDL) within limits? (70-130%R; 80-120%R for DOD QSM; 50-150% for Air/SEP/PM10/4U)		☒		
11. Were all exposures for the QC standards used?		☒		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?	☒			Comments: _____
2. For DOD QSM projects, were samples with concentrations > the high calibration standard for any parameter diluted and reanalyzed?	☒			☐ High-calibration check standard analyzed instead of running samples at a dilution. Results $\pm 10\%$.
3. Were RLs elevated due to matrix effects?			☒	Comments: _____
4. Internal standard (IS) response $\pm 30\%$ of ICB IS? If no, list details: _____		☒		☐ [is] High IS response. Sample(s) rerun at dilution. ☐ 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 = $\frac{1}{2}$ RL; Air/SEP/PM10/4U $\leq$ RL) If no, list blank ID and reason, i.e. [Autotext]: Blank ID <u> </u> [Autotext] Blank ID <u> </u> [Autotext] <u> </u> <u> </u> <u> </u> <u> </u>		☒		☐ [mb3] No analyte >RL in associated samples.* ☐ [mb4] Sample results >10x blank. ☐ [mb5] Insufficient sample for reanalysis.*
2. LCS done per prep batch and within QC limits? If no, list LCS ID: _____		☒		☐ [lcs2] Insufficient sample for reanalysis. ☐ [lcs3] LCS recovery > QC limits and sample results are ND.
3. MS/MSD or MS/DUP run at required frequency?		☒		☐ [lcsd] Insufficient sample - lcs/lcsd analyzed.
4. MS/MSD %R and RPD within QC limits? If no, list MS/MSD ID and [Autotext]: MS/MSD ID <u> </u> [Autotext] MS/MSD ID <u> </u> [Autotext] <u>H2HWFD</u> <u>msd1</u> <u> </u> <u> </u> <u>H2J9KS</u> <u>ms3</u> <u> </u> <u> </u>			☒	[ms1] [msd1] LCS acceptable - matrix effects. [ms2] [msd2] Native analyte > 4x spike level. [ms3] [msd3] Matrix effects and native analyte > 4x spike level.

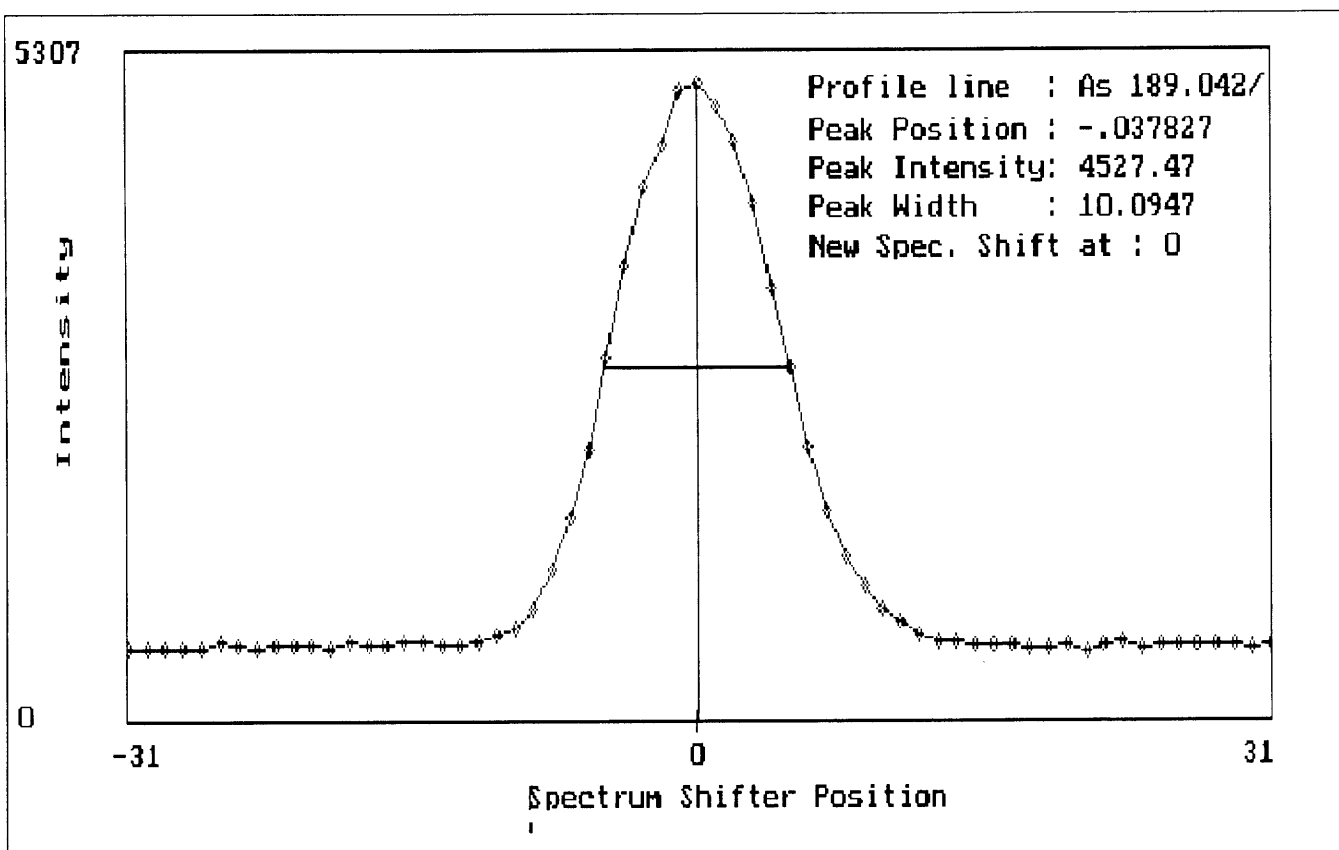
Analyst: KND Date: 4/11/06

Comments:

Calculation: H2HV2 Cu at 15:36

$$0.05140 \text{ mg/L} \times 0.100 \text{ L} \times \frac{0.080 \text{ L}}{0.080 \text{ L}} \times 1 \times 1000 \text{ } \mu\text{g/mg} = 5.14 \text{ } \mu\text{g}$$

MT021R14.doc, 10/18/05



Profile Pos - 337

AutoSampler Report Table: NEW

04/10/06 11:05:39 AM

page 1

Table Name: NEW

Autosampler Type: TYPE TJA

Sample Positions: 0/192 QC Positions: 9/19 # 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	9	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		TRA20505	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	1	10	CCV6	-NA-	1	QC Standard
(11...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	CRDL10	1	-NA-	Sample
5	1	5	CRDL20	1	-NA-	Sample
6	1	6	CRDL40	1	-NA-	Sample
7	1	7	CRDL	1	-NA-	Sample
8	1	8	CRDL20Z2	1	-NA-	Sample
9	1	9	CCB1	1	-NA-	Sample
10	1	10	H2J3TBTZ3	1	-NA-	Sample
11	1	11	H2N5ACTZ10	1	-NA-	Sample

AutoSampler Report Table: NEW

04/10/06 11:05:39 AM

page 2

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
12	1	12	H2LW0B	1	-NA-	Sample
13	2	1	H2LW0C	1	-NA-	Sample
14	2	2	H2LW0L	1	-NA-	Sample
15	2	3	H2LWVB	1	-NA-	Sample
16	2	4	H2LWVC	1	-NA-	Sample
17	2	5	H2LWVL	1	-NA-	Sample
18	2	6	H2PFCB	1	-NA-	Sample
19	2	7	H2PFCC	1	-NA-	Sample
20	2	8	CCB2	1	-NA-	Sample
21	2	9	H2PF3B	1	-NA-	Sample
22	2	10	H2PF3C	1	-NA-	Sample
23	2	11	H2DDLTLZ3	1	-NA-	Sample
24	2	12	H2DDLSTZ10	1	-NA-	Sample
25	3	1	H2DDLDTZ10	1	-NA-	Sample
26	3	2	H2DDLTP15	1	-NA-	Sample
27	3	3	H2HV2	1	-NA-	Sample
28	3	4	H2HV2A	1	-NA-	Sample
29	3	5	H2HWF	1	-NA-	Sample
30	3	6	H2HV2P	1	-NA-	Sample
31	3	7	CCB3	1	-NA-	Sample
32	3	8	H2HWFS	1	-NA-	Sample
33	3	9	H2HWFD	1	-NA-	Sample
34	3	10	H2HWT	1	-NA-	Sample
35	3	11	H2HWT A	1	-NA-	Sample
36	3	12	H2HW5	1	-NA-	Sample
37	4	1	H2HW5A	1	-NA-	Sample
38	4	2	H2HV1	1	-NA-	Sample
39	4	3	H2HV1A	1	-NA-	Sample
40	4	4	H2HV8	1	-NA-	Sample
41	4	5	H2HV1P	1	-NA-	Sample
42	4	6	CCB4	1	-NA-	Sample
43	4	7	H2HV8S	1	-NA-	Sample
44	4	8	H2HV8D	1	-NA-	Sample
45	4	9	H2HWQ	1	-NA-	Sample
46	4	10	H2HWQA	1	-NA-	Sample
47	4	11	H2HW4	1	-NA-	Sample
48	4	12	H2HW4A	1	-NA-	Sample

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	H2HXA	1	-NA-	Sample
2	1	2	H2MR1	1	-NA-	Sample
3	1	3	H2MR1S	1	-NA-	Sample
4	1	4	H2MR1P	1	-NA-	Sample
5	1	5	CCB5	1	-NA-	Sample
6	1	6	H2MR1D	1	-NA-	Sample
7	1	7	H2MTE	1	-NA-	Sample
8	1	8	H2J9K	1	-NA-	Sample
9	1	9	H2J9KS	1	-NA-	Sample
10	1	10	H2J9KD	1	-NA-	Sample
11	1	11	H2KCL	1	-NA-	Sample

AutoSampler Report Table: NEW

04/10/06 11:05:39 AM

page 3

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
12	1	12	H2KC9	1	-NA-	Sample
13	2	1	H2J9KP	1	-NA-	Sample
14	2	2	CCB6	1	-NA-	Sample
15	2	3		1	-NA-	Sample
16	2	4		1	-NA-	Sample
17	2	5		1	-NA-	Sample
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-

AutoSampler Report Table: NEW

04/10/06 11:05:39 AM

page 4

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
12	1	12	(empty)	1	-NA-	-NA-
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-

AutoSampler Report Table: NEW

04/10/06 11:05:39 AM

page 5

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
12	1	12	(empty)	1	-NA-	-NA-
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-

AutoSampler Report Table: NEW

04/10/06 11:07:51 AM

page 1

Table Name: NEW

Autosampler Type: TYPE TJA

Sample Positions: 0/192 QC Positions: 8/19 # 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	8	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		TRA20505	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	1	10	CCV6	-NA-	1	QC Standard
11	1	11	CCV7	-NA-	1	QC Standard
(12...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	CRDL10	1	-NA-	Sample
5	1	5	CRDL20	1	-NA-	Sample
6	1	6	CRDL40	1	-NA-	Sample
7	1	7	CRDL	1	-NA-	Sample
8	1	8	CRDL20Z2	1	-NA-	Sample
9	1	9	CCB1	1	-NA-	Sample
10	1	10	IDL1	1	-NA-	Sample

AutoSampler Report Table: NEW

04/10/06 11:07:51 AM

page 2

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
11	1	11	IDL2	1	-NA-	Sample
12	1	12	IDL3	1	-NA-	Sample
13	2	1	IDL4	1	-NA-	Sample
14	2	2	IDL5	1	-NA-	Sample
15	2	3	IDL6	1	-NA-	Sample
16	2	4	IDL7	1	-NA-	Sample
17	2	5	CCB2	1	-NA-	Sample
18	2	6	H2J3TBTZ3	1	-NA-	Sample
19	2	7	H2N5ACTZ10	1	-NA-	Sample
20	2	8	H2LW0B	1	-NA-	Sample
21	2	9	H2LW0C	1	-NA-	Sample
22	2	10	H2LW0L	1	-NA-	Sample
23	2	11	H2LWVB	1	-NA-	Sample
24	2	12	H2LWVC	1	-NA-	Sample
25	3	1	H2LWVL	1	-NA-	Sample
26	3	2	H2PFCB	1	-NA-	Sample
27	3	3	H2PFCC	1	-NA-	Sample
28	3	4	CCB3	1	-NA-	Sample
29	3	5	H2PF3B	1	-NA-	Sample
30	3	6	H2PF3C	1	-NA-	Sample
31	3	7	H2DDLTP15	1	-NA-	Sample
32	3	8	H2DDLSTZ10	1	-NA-	Sample
33	3	9	H2DDLSTZ10	1	-NA-	Sample
34	3	10	H2DDLTP15	1	-NA-	Sample
35	3	11	H2HV2	1	-NA-	Sample
36	3	12	H2HV2A	1	-NA-	Sample
37	4	1	H2HWF	1	-NA-	Sample
38	4	2	H2HV2P	1	-NA-	Sample
39	4	3	CCB4	1	-NA-	Sample
40	4	4	H2HWFS	1	-NA-	Sample
41	4	5	H2HWFD	1	-NA-	Sample
42	4	6	H2HWT	1	-NA-	Sample
43	4	7	H2HWTB	1	-NA-	Sample
44	4	8	H2HW5	1	-NA-	Sample
45	4	9	H2HW5A	1	-NA-	Sample
46	4	10	H2HV1	1	-NA-	Sample
47	4	11	H2HV1A	1	-NA-	Sample
48	4	12	H2HV8	1	-NA-	Sample

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	H2HV1P	1	-NA-	Sample
2	1	2	CCB5	1	-NA-	Sample
3	1	3	H2HV8S	1	-NA-	Sample
4	1	4	H2HV8D	1	-NA-	Sample
5	1	5	H2HWQ	1	-NA-	Sample
6	1	6	H2HWQA	1	-NA-	Sample
7	1	7	H2HW4	1	-NA-	Sample
8	1	8	H2HW4A	1	-NA-	Sample
9	1	9	H2HXA	1	-NA-	Sample
10	1	10	H2MR1	1	-NA-	Sample

AutoSampler Report Table: NEW

04/10/06 11:07:51 AM

page 3

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
11	1	11	H2MR1S	1	-NA-	Sample
12	1	12	H2MR1P	1	-NA-	Sample
13	2	1	CCB6	1	-NA-	Sample
14	2	2	H2MR1D	1	-NA-	Sample
15	2	3	H2MTE	1	-NA-	Sample
16	2	4	H2J9K	1	-NA-	Sample
17	2	5	H2J9KS	1	-NA-	Sample
18	2	6	H2J9KD	1	-NA-	Sample
19	2	7	H2KCL	1	-NA-	Sample
20	2	8	H2KC9	1	-NA-	Sample
21	2	9	H2J9KP	1	-NA-	Sample
22	2	10	CCB7	1	-NA-	Sample
23	2	11		1	-NA-	Sample
24	2	12		1	-NA-	Sample
25	3	1		1	-NA-	Sample
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-

AutoSampler Report Table: NEW

04/10/06 11:07:51 AM

page 4

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
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-
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-

AutoSampler Report Table: NEW

04/10/06 11:07:51 AM

page 5

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
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-
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-

Standardization Rpt.

04/10/06 11:32:10 AM

page 1

Method: TRA20505 Standard: S0

Run Time: 04/10/06 11:26:04

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	.02309	.01130	-.00473	.00420	-.05520	.00360	-.00398
SDev	.00043	.00435	.00369	.00010	.00049	.00262	.00020
%RSD	1.8575	38.526	78.166	2.4067	.88469	72.669	4.9327

#1	.02308	.00633	-.00088	.00423	-.05491	.00661	-.00376
#2	.02352	.01313	-.00825	.00409	-.05493	.00226	-.00414
#3	.02266	.01443	-.00505	.00428	-.05576	.00192	-.00404

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	.00223	-.00037	.00152	-.00059	.02190	-.00339	.00054
SDev	.00074	.00024	.00009	.00025	.01681	.01124	.00024
%RSD	32.997	64.308	5.9409	41.855	76.769	331.63	44.525

#1	.00290	-.00048	.00162	-.00052	.04102	-.01613	.00057
#2	.00236	-.00053	.00149	-.00087	.01525	.00087	.00029
#3	.00144	-.00010	.00144	-.00038	.00943	.00510	.00077

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	.00016	.26954	.00024	-.02186	.01711	.12313	.00226
SDev	.00007	.00142	.00016	.00481	.00431	.00009	.00180
%RSD	45.181	.52635	68.600	21.997	25.166	.07103	79.817

#1	.00024	.26836	.00043	-.01746	.01275	.12305	.00433
#2	.00014	.27112	.00014	-.02111	.01722	.12322	.00144
#3	.00010	.26915	.00014	-.02699	.02136	.12312	.00101

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	-.02882	.00115	.00208	.02361	-.00133	.00002	.00200
SDev	.00505	.00007	.00008	.00013	.00024	.00015	.00013
%RSD	17.521	6.5633	3.7241	.55944	18.381	1000.6	6.2755

#1	-.02446	.00124	.00205	.02374	-.00105	.00019	.00214
#2	-.02766	.00111	.00202	.02362	-.00144	-.00005	.00192
#3	-.03435	.00111	.00217	.02348	-.00149	-.00010	.00192

Elem	Ti	Sn	Si	P_
Avge	-.00054	-.01100	.01400	.13004
SDev	.00003	.00127	.00021	.00297
%RSD	5.4587	11.518	1.5320	2.2857

#1	-.00052	-.01199	.01385	.12885
#2	-.00053	-.01145	.01390	.12784
#3	-.00058	-.00957	.01424	.13342

Standardization Rpt.

04/10/06 11:32:10 AM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20864	--	--	--	--	--	--
SDev	131.8477	--	--	--	--	--	--
%RSD	.6319385	--	--	--	--	--	--
#1	21016	--	--	--	--	--	--
#2	20792	--	--	--	--	--	--
#3	20784	--	--	--	--	--	--

Standardization Rpt.

04/10/06 11:38:17 AM

page 1

Method: TRA20505 Standard: S1

Run Time: 04/10/06 11:32:14

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	6.4498	3.0188	4.0696	8.7629	18.435	18.366	25.388
SDev	.0230	.0159	.0108	.0494	.072	.022	.076
%RSD	.35610	.52559	.26457	.56398	.39293	.12181	.29782

#1	6.4724	3.0275	4.0784	8.8142	18.510	18.380	25.468
#2	6.4504	3.0283	4.0730	8.7587	18.428	18.377	25.378
#3	6.4265	3.0005	4.0576	8.7157	18.365	18.340	25.318

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	8.6221	2.7802	1.9940	2.6303	12.581	6.6620	28.545
SDev	.0342	.0049	.0097	.0048	.074	.0362	.058
%RSD	.39692	.17481	.48646	.18386	.58597	.54325	.20173

#1	8.6590	2.7824	2.0037	2.6353	12.666	6.6678	28.611
#2	8.6160	2.7836	1.9941	2.6298	12.533	6.6949	28.520
#3	8.5914	2.7747	1.9843	2.6257	12.544	6.6232	28.505

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	7.8797	18.869	2.8564	2.7681	3.0671	5.6743	1.8721
SDev	.0214	.137	.0059	.0190	.0078	.0245	.0095
%RSD	.27182	.72714	.20660	.68714	.25533	.43205	.50785

#1	7.9031	19.019	2.8586	2.7897	3.0750	5.7011	1.8828
#2	7.8748	18.839	2.8608	2.7606	3.0670	5.6690	1.8687
#3	7.8611	18.750	2.8497	2.7540	3.0593	5.6529	1.8648

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	4.2309	1.7764	9.9759	3.1102	5.2677	26.391	43.252
SDev	.0376	.0052	.0213	.0086	.0170	.280	.239
%RSD	.88786	.29167	.21334	.27680	.32239	1.0611	.55343

#1	4.2737	1.7818	9.9982	3.1193	5.2769	26.690	43.487
#2	4.2153	1.7757	9.9735	3.1092	5.2782	26.347	43.260
#3	4.2036	1.7715	9.9559	3.1022	5.2481	26.135	43.009

Elem	Ti	Sn	Si	P_
Avge	3.1229	24.832	.50979	5.6557
SDev	.0047	.088	.00184	.0103
%RSD	.14927	.35369	.36096	.18173

#1	3.1277	24.922	.51182	5.6586
#2	3.1226	24.827	.50933	5.6642
#3	3.1184	24.747	.50823	5.6443

Standardization Rpt.

04/10/06 11:38:17 AM

page 2

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20435	--	--	--	--	--	--
SDev	69.96785	--	--	--	--	--	--
%RSD	.3423881	--	--	--	--	--	--
#1	20355	--	--	--	--	--	--
#2	20482	--	--	--	--	--	--
#3	20469	--	--	--	--	--	--

Standardization

Report

04/10/06 11:38:19 AM

page 1

Method: TRA20505

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	S1	S0	7.79596	-.179977	04/10/06 11:32:14
Sb	206.838	S1	S0	.314470	-.003553	04/10/06 11:32:14
As	189.042	S1	S0	.241654	.001142	04/10/06 11:32:14
Ba	493.409	S1	S0	.456691	-.001919	04/10/06 11:32:14
Be	313.042	S1	S0	.214519	.011841	04/10/06 11:32:14
Cd	226.502	S1	S0	.054640	-.000197	04/10/06 11:32:14
Ca	317.933	S1	S0	3.93825	.015670	04/10/06 11:32:14
Cr	267.714	S1	S0	.463939	-.001037	04/10/06 11:32:14
Co	228.616	S1	S0	1.44114	.000529	04/10/06 11:32:14
Cu	324.754	S1	S0	2.00754	-.003046	04/10/06 11:32:14
Fe	271.441	S1	S0	19.0934	.011291	04/10/06 11:32:14
Pb/1	220.351	S1	S0	.081610	-.001787	04/10/06 11:32:14
Pb/2	220.352	S1	S0	.148447	.000503	04/10/06 11:32:14
Mg	279.079	S1	S0	3.50329	-.001903	04/10/06 11:32:14
Mn	257.610	S1	S0	.507646	-.000081	04/10/06 11:32:14
K_	766.491	S1	S0	.982982	.029370	04/10/06 11:32:14
Ni	231.604	S1	S0	1.40353	-.000335	04/10/06 11:32:14
Se/1	196.021	S1	S0	.359031	.007847	04/10/06 11:32:14
Se/2	196.022	S1	S0	.323538	-.005536	04/10/06 11:32:14
Ag	328.068	S1	S0	.360499	-.044389	04/10/06 11:32:14
Na	330.232	S1	S0	.979030	-.001672	04/10/06 11:32:14
Tl	190.864	S1	S0	.444557	.012813	04/10/06 11:32:14
V_	292.402	S1	S0	2.18567	-.002513	04/10/06 11:32:14
Zn	213.856	S1	S0	.402878	-.000837	04/10/06 11:32:14
B_	249.678	S1	S0	1.29591	-.030600	04/10/06 11:32:14
Mo	202.030	S1	S0	.759147	.001007	04/10/06 11:32:14
Li	670.784	S1	S0	.151568	-.000002	04/10/06 11:32:14
Sr	421.552	S1	S0	.092571	-.000185	04/10/06 11:32:14
Ti	334.941	S1	S0	1.28065	.000696	04/10/06 11:32:14
Sn	189.989	S1	S0	.161011	.001772	04/10/06 11:32:14
Si	288.158	S1	S0	8.06782	-.112917	04/10/06 11:32:14
P_	178.287	S1	S0	.725437	-.094334	04/10/06 11:32:14
Pb	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED

Analysis Report

QC Standard

04/10/06 11:44:26 AM

page 2

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	1.0134	1.0089	.98554	.99240	.25166	.24820
SDev	.0062	.0077	.00902	.00473	.00116	.00122
%RSD	.61129	.76145	.91499	.47623	.46233	.49374

#1	1.0205	1.0163	.99573	.99636	.25300	.24931
#2	1.0090	1.0095	.98234	.99367	.25089	.24689
#3	1.0107	1.0010	.97857	.98717	.25109	.24840

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	20769	--	--	--	--	--	--
SDev	91.33646	--	--	--	--	--	--
%RSD	.4397788	--	--	--	--	--	--

#1	20667	--	--	--	--	--	--
#2	20795	--	--	--	--	--	--
#3	20844	--	--	--	--	--	--

Analysis Report QC Standard 04/10/06 11:50:33 AM page 2

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	1.0193	1.0051	1.0510	1.0024	.25422	.25043
SDev	.0012	.0017	.0021	.0002	.00013	.00156
%RSD	.11500	.16868	.19936	.01997	.05066	.62426

#1	1.0183	1.0064	1.0523	1.0025	.25408	.25160
#2	1.0206	1.0032	1.0521	1.0022	.25434	.25103
#3	1.0190	1.0058	1.0486	1.0025	.25424	.24865

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	20809	--	--	--	--	--	--
SDev	33.91823	--	--	--	--	--	--
%RSD	.1629967	--	--	--	--	--	--

#1	20772	--	--	--	--	--	--
#2	20817	--	--	--	--	--	--
#3	20839	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 11:56:39 AM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00016	.00007	-.00264	-.00020	.00041	.00061	
SDev	.00006	.00081	.00246	.00132	.00009	.00137	
%RSD	40.113	1083.8	93.218	667.32	22.629	224.39	
#1	-.00009	-.00084	.00010	-.00156	.00032	.00042	
#2	-.00022	.00067	-.00337	-.00010	.00051	.00207	
#3	-.00016	.00040	-.00465	.00107	.00041	-.00065	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00160	.00770	.05500	.02100	.00370	.00430	
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20972	--	--	--	--	--	--
SDev	75.86076	--	--	--	--	--	--
%RSD	.3617322	--	--	--	--	--	--
#1	21058	--	--	--	--	--	--
#2	20917	--	--	--	--	--	--
#3	20940	--	--	--	--	--	--

Analysis Report

04/10/06 12:02:46 PM

page 1

Method: TRA20505 Sample Name: ICSA1

Operator:

Run Time: 04/10/06 11:56:43

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	474.66	-.00306	.00078	H.01283	-.00026	.00029	443.15
SDev	3.92	.00014	.00193	.00004	.00015	.00035	2.14
%RSD	.82636	4.6912	245.79	.29524	56.635	120.57	.48361
#1	474.82	-.00290	-.00140	H.01285	-.00039	-.00010	444.63
#2	470.66	-.00311	.00223	H.01278	-.00010	.00057	440.69
#3	478.50	-.00317	.00152	H.01284	-.00031	.00040	444.12
Errors	LC Pass	LC Pass	LC Pass	LC High	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	.00543	.00013	.00041	197.41	.00581	-.00525	532.31
SDev	.00031	.00051	.00022	1.29	.00475	.00361	3.09
%RSD	5.7045	393.90	54.359	.65218	81.832	68.798	.58136
#1	.00562	.00053	.00042	198.36	.01093	-.00848	534.38
#2	.00559	.00031	.00018	195.94	.00153	-.00135	528.76
#3	.00507	-.00045	.00062	197.92	.00496	-.00593	533.80
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	-.00148	.03695	.00003	.00275	.00340	-.00011	-.28662
SDev	.00006	.00182	.00026	.00456	.00345	.00020	.12834
%RSD	4.3475	4.9304	873.02	165.61	101.31	180.50	44.777
#1	-.00141	.03903	.00025	.00503	.00133	.00011	-.15230
#2	-.00153	.03567	.00010	-.00250	.00738	-.00015	-.29957
#3	-.00151	.03613	-.00026	.00573	.00149	-.00029	-.40800
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	.00679	.01121	.00416	.00225	-.00130	.00041	-.01030
SDev	.00671	.00125	.00018	.00086	.00075	.00005	.00004
%RSD	98.831	11.134	4.4486	38.396	57.842	12.847	.36122
#1	.01454	.01153	.00407	.00236	-.00106	.00046	-.01032
#2	.00305	.01226	.00438	.00305	-.00214	.00042	-.01026
#3	.00279	.00983	.00404	.00134	-.00070	.00035	-.01033
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 12:02:46 PM

page 2

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	-.00102	.00303	.04073	.00688	-.00094	.00355	
SDev	.00017	.00135	.00161	.00196	.00103	.00080	
%RSD	16.282	44.669	3.9411	28.534	109.12	22.550	
#1	-.00085	.00374	.04247	.00807	-.00139	.00293	
#2	-.00103	.00388	.03931	.00796	.00023	.00445	
#3	-.00118	.00147	.04041	.00461	-.00167	.00327	
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	19184	--	--	--	--	--	--
SDev	96.31011	--	--	--	--	--	--
%RSD	.5020430	--	--	--	--	--	--
#1	19107	--	--	--	--	--	--
#2	19292	--	--	--	--	--	--
#3	19153	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 12:08:52 PM

page 2

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	1.0280	.98381	1.0916	.99821	.05002	.05260
SDev	.0020	.00262	.0032	.00647	.00104	.00033
%RSD	.19370	.26600	.29252	.64794	2.0841	.62165

#1	1.0279	.98360	1.0897	1.0038	.05065	.05225
#2	1.0261	.98131	1.0898	.99113	.05059	.05290
#3	1.0300	.98653	1.0953	.99969	.04881	.05266

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	20081	--	--	--	--	--	--
SDev	42.00065	--	--	--	--	--	--
%RSD	.2091598	--	--	--	--	--	--

#1	20079	--	--	--	--	--	--
#2	20123	--	--	--	--	--	--
#3	20039	--	--	--	--	--	--

Analysis Report

04/10/06 12:14:57 PM

page 1

Method: TRA20505 Sample Name: CRDL10

Operator:

Run Time: 04/10/06 12:08:55

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40564	-.00150	.01873	.01941	.01126	.01097	10.636
SDev	.00823	.00185	.00065	.00006	.00019	.00037	.065
%RSD	2.0300	123.48	3.4523	.31487	1.6808	3.4022	.61029
#1	.39874	-.00362	.01921	.01934	.01105	.01139	10.667
#2	.40342	-.00059	.01899	.01943	.01142	.01071	10.679
#3	.41475	-.00028	.01800	.01945	.01131	.01080	10.561
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK
High	.52000		.02600		.01300		
Low	.28000		.01400		.00700		
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02109	.10381	.04599	.21492	.01424	.01599	9.9823
SDev	.00241	.00072	.00013	.00074	.00941	.00537	.0670
%RSD	11.414	.69201	.27909	.34605	66.102	33.577	.67090
#1	.02379	.10433	.04592	.21530	.02498	.01004	10.022
#2	.01919	.10410	.04590	.21406	.00739	.02048	10.020
#3	.02027	.10299	.04613	.21539	.01035	.01744	9.9050
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK
High				.26000			
Low				.14000			
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03138	9.1909	.08429	.01579	.01522	.03558	9.3615
SDev	.00023	.0646	.00103	.00609	.00204	.00123	.4277
%RSD	.74739	.70304	1.2260	38.539	13.380	3.4503	4.5691
#1	.03158	9.1173	.08530	.02281	.01292	.03672	9.8402
#2	.03143	9.2384	.08434	.01214	.01596	.03573	9.0168
#3	.03112	9.2169	.08324	.01242	.01679	.03428	9.2276
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK
High						.03900	
Low						.02100	
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03968	.10276	.06926	.39440	.00015	.10036	.10019
SDev	.00362	.00011	.00043	.00117	.00030	.00057	.00032
%RSD	9.1200	.10321	.61826	.29713	201.00	.57205	.32463
#1	.04356	.10265	.06950	.39529	.00037	.09970	.09991
#2	.03640	.10286	.06952	.39308	-.00019	.10064	.10055
#3	.03907	.10278	.06877	.39485	.00027	.10073	.10010
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Analysis Report

04/10/06 12:14:57 PM

page 2

High	.04550	.07800
Low	.02450	.04200

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	.00130	.01319	.60252	.01600	.01577
SDev	.00015	.00164	.00013	.00506	.00062	.00080
%RSD	101.03	125.64	.98687	.83956	3.8777	5.0370

#1	.00006	.00318	.01319	.60836	.01561	.01661
#2	.00006	.00057	.01306	.59949	.01671	.01503
#3	.00032	.00016	.01332	.59972	.01567	.01568

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass
High					.01950	.01950
Low					.01050	.01050

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20280	--	--	--	--	--	--
SDev	181.8194	--	--	--	--	--	--
%RSD	.8965417	--	--	--	--	--	--
#1	20089	--	--	--	--	--	--
#2	20301	--	--	--	--	--	--
#3	20451	--	--	--	--	--	--

Analysis Report

04/10/06 12:21:03 PM

page 1

Method: TRA20505 Sample Name: CRDL20

Operator:

Run Time: 04/10/06 12:15:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22126	.05985	.00961	.00987	.00541	.00533	5.2387
SDev	.00125	.00325	.00049	.00016	.00003	.00005	.0254
%RSD	.56348	5.4222	5.1489	1.6703	.62403	.86215	.48506
#1	.22190	.05620	.00990	.00968	.00543	.00533	5.2139
#2	.21982	.06241	.00904	.00999	.00537	.00538	5.2375
#3	.22205	.06095	.00989	.00994	.00543	.00529	5.2647
Errors	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass
High		.07800		.01300		.00650	6.5000
Low		.04200		.00700		.00350	3.5000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01519	.05027	.02317	.10764	.00471	.00268	4.8361
SDev	.00048	.00071	.00026	.00358	.00205	.00213	.0255
%RSD	3.1590	1.4166	1.1342	3.3224	43.484	79.690	.52733
#1	.01512	.04946	.02288	.10418	.00664	.00062	4.8074
#2	.01475	.05058	.02323	.10741	.00491	.00254	4.8446
#3	.01571	.05078	.02340	.11132	.00257	.00487	4.8562
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	.01950	.06500	.03250				6.5000
Low	.01050	.03500	.01750				3.5000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01545	4.5800	.04120	.00674	.00457	.00931	4.7367
SDev	.00004	.0376	.00066	.00038	.00103	.00027	.0533
%RSD	.24799	.82065	1.6102	5.7080	22.558	2.8789	1.1252
#1	.01541	4.5366	.04059	.00718	.00358	.00925	4.7003
#2	.01548	4.6012	.04191	.00659	.00564	.00908	4.7979
#3	.01547	4.6023	.04109	.00645	.00450	.00960	4.7120
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	.01950	6.5000	.05200				6.5000
Low	.01050	3.5000	.02800				3.5000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01006	.05075	.03256	.19593	.04037	.05136	.05085
SDev	.00244	.00110	.00018	.00206	.00046	.00034	.00026
%RSD	24.193	2.1723	.56329	1.0527	1.1261	.66411	.51191
#1	.01223	.04948	.03236	.19411	.04008	.05100	.05056
#2	.01052	.05147	.03271	.19817	.04090	.05167	.05106
#3	.00743	.05130	.03263	.19553	.04014	.05142	.05092
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 12:21:03 PM

page 2

High	.26000	.05200	.06500	.06500
Low	.14000	.02800	.03500	.03500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05109	.10222	.50222	.30343	.00372	.00564
SDev	.00036	.00136	.00745	.00236	.00072	.00060
%RSD	.70120	1.3297	1.4837	.77875	19.345	10.597

#1	.05068	.10085	.49666	.30101	.00300	.00511
#2	.05135	.10357	.51069	.30353	.00371	.00629
#3	.05124	.10223	.49932	.30574	.00444	.00553

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK
High	.06500	.13000	.65000	.39000		
Low	.03500	.07000	.35000	.21000		

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21033	--	--	--	--	--	--
SDev	94.18933	--	--	--	--	--	--
%RSD	.4478170	--	--	--	--	--	--

#1	21136	--	--	--	--	--	--
#2	21010	--	--	--	--	--	--
#3	20952	--	--	--	--	--	--

Analysis Report

04/10/06 12:27:09 PM

page 1

Method: TRA20505 Sample Name: CRDL40

Operator:

Run Time: 04/10/06 12:21:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12405	-.00101	.00418	.00490	.00272	.00262	2.5837
SDev	.00431	.00155	.00161	.00005	.00008	.00015	.0102
%RSD	3.4754	153.25	38.581	1.0980	2.9101	5.9026	.39422
#1	.12278	-.00250	.00561	.00485	.00264	.00260	2.5743
#2	.12051	-.00112	.00243	.00496	.00280	.00248	2.5821
#3	.12885	.00059	.00451	.00489	.00271	.00279	2.5945
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00508	.02539	.01095	.05242	.00157	.00145	2.4141
SDev	.00049	.00074	.00030	.00734	.00406	.00245	.0180
%RSD	9.6419	2.8981	2.7862	14.002	258.75	169.24	.74552
#1	.00483	.02455	.01074	.04693	.00309	.00132	2.3951
#2	.00476	.02584	.01130	.04957	-.00303	.00396	2.4163
#3	.00564	.02580	.01083	.06075	.00465	-.00094	2.4309
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00767	2.1585	.01999	.00163	.00415	.00407	2.2018
SDev	.00010	.0076	.00042	.00221	.00235	.00087	.1641
%RSD	1.2899	.35240	2.1259	135.26	56.721	21.444	7.4523
#1	.00759	2.1518	.02048	.00236	.00324	.00373	2.2609
#2	.00766	2.1668	.01974	-.00085	.00682	.00342	2.0163
#3	.00778	2.1569	.01974	.00339	.00239	.00506	2.3281
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00614	.02489	.01272	.09399	.00002	.02549	.02544
SDev	.00134	.00028	.00016	.00126	.00009	.00007	.00008
%RSD	21.802	1.1134	1.2945	1.3386	378.99	.28242	.32612
#1	.00509	.02457	.01267	.09253	-.00007	.02554	.02538
#2	.00765	.02501	.01258	.09472	.00004	.02552	.02554
#3	.00568	.02509	.01290	.09470	.00010	.02541	.02541
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

Analysis Report

04/10/06 12:27:09 PM

page 2

High .03250
Low .01750

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00034	.03648	.15027	.00190	.00366
SDev	.00009	.00066	.00607	.00306	.00049	.00082
%RSD	135.78	195.75	16.632	2.0373	25.747	22.530

#1	-.00003	-.00037	.04292	.14880	.00229	.00332
#2	.00015	.00045	.03564	.14822	.00206	.00460
#3	.00009	.00094	.03087	.15379	.00135	.00305

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High						
Low						

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21077	--	--	--	--	--	--
SDev	80.58307	--	--	--	--	--	--
%RSD	.3823187	--	--	--	--	--	--
#1	21122	--	--	--	--	--	--
#2	21126	--	--	--	--	--	--
#3	20984	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 12:33:15 PM

page 2

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	.05113	.10212	.51840	.30526	.00499	.00565
SDev	.00076	.00256	.00718	.01065	.00040	.00062
%RSD	1.4962	2.5051	1.3846	3.4879	7.9978	10.961

#1	.05195	.10429	.52654	.31603	.00543	.00520
#2	.05102	.10278	.51568	.30502	.00489	.00636
#3	.05043	.09930	.51297	.29474	.00465	.00540

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	20782	--	--	--	--	--	--
SDev	350.6047	--	--	--	--	--	--
%RSD	1.687073	--	--	--	--	--	--

#1	20439	--	--	--	--	--	--
#2	20766	--	--	--	--	--	--
#3	21140	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 12:39:21 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.02532	.05139	.24356	.15187	.00171	.00282	
SDev	.00012	.00139	.00253	.00149	.00048	.00029	
%RSD	.45878	2.6982	1.0378	.97898	27.983	10.303	
#1	.02521	.04983	.24103	.15281	.00185	.00307	
#2	.02544	.05247	.24609	.15015	.00211	.00250	
#3	.02531	.05187	.24355	.15263	.00118	.00289	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20905	--	--	--	--	--	--
SDev	46.83190	--	--	--	--	--	--
%RSD	.2240243	--	--	--	--	--	--
#1	20947	--	--	--	--	--	--
#2	20855	--	--	--	--	--	--
#3	20913	--	--	--	--	--	--

Analysis Report

QC Standard

04/10/06 12:45:28 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	2.0276	2.0181	1.9765	1.9733	.50774	.49598
SDev	.0117	.0159	.0125	.0098	.00540	.00271
%RSD	.57726	.78975	.63365	.49830	1.0643	.54748

#1	2.0408	2.0362	1.9910	1.9834	.51395	.49912
#2	2.0186	2.0063	1.9684	1.9637	.50519	.49445
#3	2.0234	2.0117	1.9703	1.9727	.50409	.49439

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	20608	--	--	--	--	--	--
SDev	166.2507	--	--	--	--	--	--
%RSD	.8067337	--	--	--	--	--	--

#1	20416	--	--	--	--	--	--
#2	20696	--	--	--	--	--	--
#3	20712	--	--	--	--	--	--

Errors LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass

Analysis Report

04/10/06 12:51:34 PM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00006	.00061	-.00666	.00057	.00028	.00121	
SDev	.00015	.00057	.00210	.00143	.00022	.00104	
%RSD	275.60	92.798	31.489	249.90	79.757	85.391	
#1	-.00021	-.00004	-.00907	.00116	.00015	.00230	
#2	.00009	.00098	-.00525	-.00106	.00053	.00024	
#3	-.00004	.00089	-.00567	.00161	.00015	.00110	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00160	.00770	.05500	.02100	.00370	.00430	
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21033	--	--	--	--	--	--
SDev	169.7299	--	--	--	--	--	--
%RSD	.8069569	--	--	--	--	--	--
#1	21132	--	--	--	--	--	--
#2	21131	--	--	--	--	--	--
#3	20837	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 12:57:40 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00504	.01989	.02661	.03144	.00627	.01067	
SDev	.00003	.00036	.00148	.00060	.00017	.00038	
%RSD	.52281	1.7973	5.5687	1.8965	2.6648	3.6062	
#1	.00507	.02027	.02524	.03170	.00626	.01111	
#2	.00503	.01985	.02818	.03187	.00644	.01039	
#3	.00502	.01956	.02642	.03076	.00611	.01050	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20932	--	--	--	--	--	--
SDev	181.9101	--	--	--	--	--	--
%RSD	.8690683	--	--	--	--	--	--
#1	21081	--	--	--	--	--	--
#2	20984	--	--	--	--	--	--
#3	20729	--	--	--	--	--	--

Elem Units	Al ppm	Sb ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Ca ppm
Avge	.08636	.01026	.00397	.00501	.00543	.00214	.08214
SDev	.00540	.00237	.00119	.00016	.00024	.00016	.00086
%RSD	6.2503	23.080	29.808	3.1258	4.3708	7.4193	1.0518
#1	.09210	.00808	.00534	.00516	.00519	.00231	.08124
#2	.08560	.00994	.00328	.00484	.00544	.00211	.08221
#3	.08138	.01278	.00330	.00503	.00567	.00199	.08297
Errors High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
Low	700.00	20.000	30.000	30.000	10.000	40.000	600.00
	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem Units	Cr ppm	Co ppm	Cu ppm	Fe ppm	Pb/1 ppm	Pb/2 ppm	Mg ppm
Avge	.00454	.00514	.00352	.05895	.00383	.00784	.05170
SDev	.00041	.00041	.00040	.01431	.00802	.00278	.00272
%RSD	8.9565	8.0124	11.383	24.281	209.16	35.508	5.2568
#1	.00440	.00481	.00313	.05051	.00889	.00582	.04918
#2	.00500	.00500	.00348	.05086	.00802	.00668	.05133
#3	.00423	.00560	.00393	.07548	-.00541	.01101	.05458
Errors High	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
Low	100.00	100.00	50.000	1400.0			700.00
	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem Units	Mn ppm	K_ ppm	Ni ppm	Se/1 ppm	Se/2 ppm	Ag ppm	Na ppm
Avge	.00613	.27352	.00478	.00718	.01061	.00905	.66284
SDev	.00021	.02234	.00048	.00472	.00297	.00101	.20144
%RSD	3.4837	8.1666	10.057	65.743	28.001	11.161	30.391
#1	.00635	.29787	.00532	.01069	.00884	.01016	.82882
#2	.00611	.26870	.00463	.00903	.00894	.00882	.72099
#3	.00592	.25399	.00440	.00181	.01404	.00818	.43872
Errors High	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
Low	30.000	200.00	100.00			4.0000	800.00
	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem Units	Tl ppm	V_ ppm	Zn ppm	B_ ppm	Mo ppm	Li ppm	Sr ppm
Avge	.01401	.00562	.00846	-.00432	.00545	.00500	.00512
SDev	.00074	.00133	.00027	.00092	.00051	.00016	.00014
%RSD	5.2692	23.713	3.2354	21.365	9.3674	3.1665	2.7137
#1	.01485	.00482	.00876	-.00327	.00526	.00518	.00527
#2	.01346	.00487	.00822	-.00499	.00506	.00493	.00499
#3	.01372	.00715	.00840	-.00470	.00603	.00489	.00509
Errors High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
Low							

Analysis Report

04/10/06 01:03:47 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00514	.02034	.02699	.03414	.00690	.00981	
SDev	.00018	.00245	.00217	.00308	.00085	.00050	
%RSD	3.4610	12.018	8.0397	9.0230	12.323	5.0580	
#1	.00509	.02133	.02874	.03760	.00724	.00981	
#2	.00499	.02213	.02456	.03170	.00752	.00931	
#3	.00533	.01756	.02767	.03312	.00593	.01030	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20378	--	--	--	--	--	--
SDev	487.1880	--	--	--	--	--	--
%RSD	2.390777	--	--	--	--	--	--
#1	19819	--	--	--	--	--	--
#2	20598	--	--	--	--	--	--
#3	20716	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 01:09:54 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00489	.01975	.02292	.03286	.00531	.00964
SDev	.00017	.00145	.00024	.00128	.00049	.00093
%RSD	3.4392	7.3421	1.0505	3.8859	9.1491	9.6824

#1	.00485	.01832	.02297	.03318	.00478	.00857
#2	.00507	.01971	.02265	.03395	.00543	.01028
#3	.00474	.02122	.02312	.03145	.00572	.01008

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20768	--	--	--	--	--	--
SDev	107.2926	--	--	--	--	--	--
%RSD	.5166149	--	--	--	--	--	--

#1	20661	--	--	--	--	--	--
#2	20769	--	--	--	--	--	--
#3	20875	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 01:16:00 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00484	.02008	.02272	.03060	.00642	.00967	
SDev	.00010	.00022	.00107	.00072	.00044	.00079	
%RSD	2.0458	1.1099	4.7041	2.3492	6.8357	8.1693	
#1	.00474	.02016	.02335	.02978	.00689	.01016	
#2	.00484	.02025	.02331	.03088	.00632	.00876	
#3	.00494	.01983	.02148	.03113	.00603	.01009	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20819	--	--	--	--	--	--
SDev	86.27889	--	--	--	--	--	--
%RSD	.4144275	--	--	--	--	--	--
#1	20899	--	--	--	--	--	--
#2	20728	--	--	--	--	--	--
#3	20830	--	--	--	--	--	--

Errors LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass

Analysis Report

04/10/06 01:22:07 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00504	.02118	.02510	.03114	.00673	.01033	
SDev	.00030	.00124	.00446	.00301	.00090	.00136	
%RSD	5.8625	5.8348	17.781	9.6676	13.350	13.178	
#1	.00497	.02018	.02062	.02895	.00570	.01066	
#2	.00537	.02079	.02955	.03458	.00719	.01149	
#3	.00479	.02256	.02512	.02991	.00731	.00883	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20623	--	--	--	--	--	--
SDev	345.2829	--	--	--	--	--	--
%RSD	1.674249	--	--	--	--	--	--
#1	20964	--	--	--	--	--	--
#2	20273	--	--	--	--	--	--
#3	20632	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 01:28:14 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00489	.01959	.02327	.02763	.00634	.00935
SDev	.00012	.00066	.00143	.00099	.00030	.00018
%RSD	2.4424	3.3881	6.1533	3.5668	4.6683	1.9108

#1	.00500	.02035	.02484	.02754	.00606	.00920
#2	.00492	.01922	.02292	.02866	.00665	.00930
#3	.00476	.01919	.02204	.02670	.00630	.00955

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20952	--	--	--	--	--	--
SDev	132.6617	--	--	--	--	--	--
%RSD	.6331575	--	--	--	--	--	--

#1	20849	--	--	--	--	--	--
#2	20906	--	--	--	--	--	--
#3	21102	--	--	--	--	--	--

Method: TRA20505 Sample Name: IDL7
Run Time: 04/10/06 13:28:17
Comment:
Mode: CONC Corr. Factor: 1

Operator:

[illegible]

Analysis Report

04/10/06 01:34:20 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00491	.02073	.02294	.02877	.00604	.01037
SDev	.00039	.00021	.00464	.00155	.00033	.00157
%RSD	7.8921	1.0342	20.241	5.3818	5.4267	15.104

#1	.00447	.02079	.01764	.02698	.00639	.00940
#2	.00503	.02049	.02626	.02971	.00574	.00953
#3	.00522	.02091	.02494	.02961	.00599	.01218

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20788	--	--	--	--	--	--
SDev	193.8549	--	--	--	--	--	--
%RSD	.9325249	--	--	--	--	--	--

#1	21011	--	--	--	--	--	--
#2	20695	--	--	--	--	--	--
#3	20658	--	--	--	--	--	--

Analysis Report

QC Standard

04/10/06 01:40:27 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	2.0193	2.0438	1.9646	1.9323	.51240	.49044
SDev	.0164	.0180	.0155	.0241	.00594	.00832
%RSD	.81156	.88134	.78854	1.2465	1.1584	1.6962

#1	2.0132	2.0321	1.9653	1.9246	.50621	.48216
#2	2.0069	2.0348	1.9488	1.9131	.51296	.49038
#3	2.0379	2.0645	1.9798	1.9593	.51804	.49880

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	20012	--	--	--	--	--	--
SDev	120.4823	--	--	--	--	--	--
%RSD	.6020390	--	--	--	--	--	--

#1	20109	--	--	--	--	--	--
#2	20051	--	--	--	--	--	--
#3	19877	--	--	--	--	--	--

Errors LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass

Analysis Report

04/10/06 01:46:33 PM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00021	-.00634	-.00209	.00056	.00010
SDev	.00012	.00039	.00034	.00035	.00047	.00109
%RSD	246.35	187.79	5.4238	16.852	84.699	1047.3

#1	-.00009	-.00023	-.00599	-.00218	.00111	.00072
#2	.00009	.00033	-.00667	-.00170	.00028	.00074
#3	.00015	.00052	-.00637	-.00239	.00030	-.00115

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00160	.00770	.05500	.02100	.00370	.00430
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21121	--	--	--	--	--	--
SDev	135.5687	--	--	--	--	--	--
%RSD	.6418810	--	--	--	--	--	--

#1	21277	--	--	--	--	--	--
#2	21035	--	--	--	--	--	--
#3	21050	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 01:52:39 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	.00233	.02541	.00634	.00182	.00138
SDev	.00012	.00114	.00220	.00144	.00006	.00090
%RSD	1540.6	48.834	8.6769	22.644	3.0360	64.682

#1	.00013	.00347	.02778	.00744	.00181	.00043
#2	-.00011	.00232	.02342	.00472	.00188	.00220
#3	.00001	.00120	.02502	.00687	.00177	.00152

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20455	--	--	--	--	--	--
SDev	180.1675	--	--	--	--	--	--
%RSD	.8808038	--	--	--	--	--	--

#1	20299	--	--	--	--	--	--
#2	20652	--	--	--	--	--	--
#3	20413	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 01:58:45 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	.00071	.00634	.00276	.51040	.09681
SDev	.00032	.00032	.00313	.00155	.00520	.00091
%RSD	2145.5	45.132	49.422	55.983	1.0186	.94158

#1	-.00018	.00051	.00412	.00324	.51237	.09604
#2	.00039	.00108	.00992	.00401	.51433	.09781
#3	-.00016	.00053	.00497	.00103	.50450	.09658

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20679	--	--	--	--	--	--
SDev	238.6344	--	--	--	--	--	--
%RSD	1.153979	--	--	--	--	--	--

#1	20474	--	--	--	--	--	--
#2	20623	--	--	--	--	--	--
#3	20941	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 02:04:51 PM

page 2

High	.02005	.05005	.02005	.50049	.04005	.05005	.05005
Low	-.02005	-.05005	-.02005	-.50049	-.04005	-.05005	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00007	.00154	.14127	-.00264	.00201	.00034	
SDev	.00007	.00151	.00023	.00054	.00078	.00164	
%RSD	107.93	97.760	.16074	20.381	38.835	478.95	
#1	.00002	.00326	.14153	-.00203	.00266	.00092	
#2	.00003	.00044	.14109	-.00284	.00222	.00162	
#3	.00015	.00092	.14120	-.00304	.00114	-.00151	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.05005	.10005	1.0005	.30005	.01005	.01005	
Low	-.05005	-.10005	-1.0005	-.30005	-.01005	-.01005	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21096	--	--	--	--	--	--
SDev	140.4336	--	--	--	--	--	--
%RSD	.6656825	--	--	--	--	--	--
#1	20959	--	--	--	--	--	--
#2	21090	--	--	--	--	--	--
#3	21240	--	--	--	--	--	--

Analysis Report

04/10/06 02:10:58 PM

page 1

Method: TRA20505 Sample Name: H2LW0C

Operator:

Run Time: 04/10/06 14:04:55

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8864	.45152	.09208	.09619	.04943	.05076	49.254
SDev	.0245	.00203	.00014	.00096	.00018	.00058	.352
%RSD	1.2999	.44889	.15276	1.0018	.37158	1.1501	.71450
#1	1.9146	.45384	.09217	.09722	.04958	.05137	49.606
#2	1.8746	.45009	.09191	.09603	.04923	.05021	48.903
#3	1.8700	.45063	.09215	.09531	.04948	.05070	49.253
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	.20015	.09643	.23265	.97192	.10513	.09773	9.2983
SDev	.00244	.00057	.00181	.01824	.00844	.00426	.0865
%RSD	1.2190	.59250	.77740	1.8763	8.0281	4.3577	.93050
#1	.20273	.09646	.23473	.95107	.11450	.09318	9.3907
#2	.19787	.09585	.23182	.98487	.09811	.10162	9.2191
#3	.19984	.09699	.23141	.97983	.10280	.09840	9.2852
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	.10023	46.866	.49744	.12900	.13533	.04880	45.562
SDev	.00134	.581	.00509	.00295	.00131	.00085	.566
%RSD	1.3379	1.2397	1.0223	2.2856	.96755	1.7478	1.2426
#1	.10168	47.530	.50292	.13226	.13424	.04949	46.206
#2	.09904	46.617	.49287	.12653	.13496	.04784	45.143
#3	.09997	46.452	.49653	.12821	.13678	.04906	45.336
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	.38292	.19601	.50841	.92687	.47982	.09933	.49066
SDev	.00285	.00024	.00466	.00891	.00479	.00127	.00466
%RSD	.74409	.12266	.91667	.96082	.99862	1.2764	.94921
#1	.38609	.19577	.51368	.93669	.48464	.10076	.49602
#2	.38056	.19601	.50484	.91932	.47505	.09891	.48838
#3	.38211	.19625	.50671	.92459	.47977	.09833	.48758
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 02:10:58 PM

page 2

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	.09904	.49960	4.7687	4.4913	.10072	.13358
SDev	.00059	.00339	.0577	.0328	.00034	.00096
%RSD	.59132	.67938	1.2092	.73056	.33943	.71940

#1	.09970	.50243	4.8345	4.5286	.10077	.13393
#2	.09857	.49584	4.7270	4.4669	.10103	.13249
#3	.09885	.50053	4.7447	4.4784	.10035	.13432

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	20519	--	--	--	--	--	--
SDev	158.2708	--	--	--	--	--	--
%RSD	.7713300	--	--	--	--	--	--

#1	20348	--	--	--	--	--	--
#2	20660	--	--	--	--	--	--
#3	20550	--	--	--	--	--	--

Analysis Report

04/10/06 02:17:04 PM

page 1

Method: TRA20505 Sample Name: H2LW0L

Operator:

Run Time: 04/10/06 14:11:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9413	.46015	.09436	.09747	.04978	.05079	49.491
SDev	.0125	.00169	.00208	.00079	.00033	.00061	.346
%RSD	.64199	.36613	2.2039	.81102	.65982	1.2047	.69992
#1	1.9284	.45835	.09661	.09659	.04989	.05149	49.828
#2	1.9423	.46040	.09250	.09768	.05004	.05054	49.509
#3	1.9533	.46170	.09398	.09813	.04941	.05035	49.136
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	.19891	.09770	.23656	1.0045	.09504	.10206	9.4014
SDev	.00179	.00104	.00240	.0107	.00685	.00304	.0701
%RSD	.89858	1.0636	1.0163	1.0664	7.2097	2.9746	.74595
#1	.20096	.09890	.23389	1.0143	.10083	.09968	9.4778
#2	.19768	.09701	.23722	.99304	.08748	.10548	9.3861
#3	.19809	.09720	.23856	1.0062	.09681	.10103	9.3401
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	.10043	48.062	.50091	.13010	.14051	.04835	46.437
SDev	.00069	.523	.00347	.00509	.00081	.00161	.340
%RSD	.68954	1.0879	.69383	3.9147	.57959	3.3264	.73217
#1	.10122	47.480	.50447	.13300	.13993	.05014	46.409
#2	.09994	48.217	.50074	.12422	.14014	.04792	46.112
#3	.10012	48.490	.49752	.13309	.14144	.04701	46.791
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	.38986	.19785	.51671	.97056	.48629	.10185	.49669
SDev	.00302	.00042	.00105	.00489	.00146	.00097	.00346
%RSD	.77566	.21123	.20289	.50369	.30000	.95144	.69612
#1	.39330	.19789	.51692	.96499	.48765	.10081	.49313
#2	.38867	.19824	.51763	.97258	.48475	.10200	.49690
#3	.38761	.19741	.51557	.97413	.48649	.10273	.50004
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 02:17:04 PM

page 2

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	.10023	.49464	5.2103	4.5654	.10019	.13740
SDev	.00016	.00329	.0106	.0302	.00027	.00195
%RSD	.15634	.66521	.20417	.66245	.26564	1.4168

#1	.10005	.49844	5.1998	4.5614	.10045	.13797
#2	.10030	.49295	5.2101	4.5974	.09992	.13523
#3	.10034	.49255	5.2211	4.5373	.10020	.13899

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	20711	--	--	--	--	--	--
SDev	152.2872	--	--	--	--	--	--
%RSD	.7353021	--	--	--	--	--	--

#1	20547	--	--	--	--	--	--
#2	20739	--	--	--	--	--	--
#3	20847	--	--	--	--	--	--

Analysis Report

04/10/06 02:23:10 PM

page 1

Method: TRA20505 Sample Name: H2LWVB

Operator:

Run Time: 04/10/06 14:17:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03028	-.00041	-.00041	-.00087	.00012	.00014	.00017
SDev	.00324	.00234	.00052	.00008	.00007	.00010	.00060
%RSD	10.707	576.45	126.44	9.4492	56.065	67.467	360.49
#1	.03310	.00223	-.00067	-.00078	.00019	.00022	.00021
#2	.02674	-.00223	-.00074	-.00094	.00012	.00003	-.00045
#3	.03101	-.00123	.00019	-.00090	.00006	.00018	.00074
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20005	.06005	.01005	.20005	.00505	.00505	5.0000
Low	-.20005	-.06005	-.01005	-.20005	-.00505	-.00505	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	-.00016	-.00129	.01799	.00189	-.00049	.00005
SDev	.00048	.00043	.00010	.00685	.00297	.00122	.00244
%RSD	874.13	271.51	7.9451	38.096	157.45	250.92	4988.7
#1	.00047	.00018	-.00141	.02590	.00096	-.00082	.00263
#2	-.00046	-.00064	-.00123	.01405	-.00051	.00087	-.00224
#3	.00015	-.00002	-.00124	.01401	.00522	-.00151	-.00024
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01005	.05005	.02505	.10005			5.0000
Low	-.01005	-.05005	-.02505	-.10005			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	-.02735	.00078	.00349	-.00115	-.00155	-.60830
SDev	.00009	.01659	.00062	.00274	.00242	.00080	.23291
%RSD	67.237	60.652	79.177	78.391	209.70	51.982	38.288
#1	-.00015	-.00848	.00114	.00046	.00045	-.00066	-.49533
#2	-.00020	-.03392	.00007	.00424	.00003	-.00176	-.87614
#3	-.00003	-.03964	.00113	.00577	-.00394	-.00222	-.45342
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.01505	5.0000	.04005			.02005	5.0000
Low	-.01505	-5.0000	-.04005			-.02005	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00498	.00006	-.00047	H110.67	.00114	-.00002	-.00004
SDev	.00133	.00098	.00012	.45	.00089	.00004	.00003
%RSD	26.701	1738.2	25.961	.40568	78.313	202.54	61.413
#1	.00514	.00115	-.00046	H110.97	.00217	.00002	-.00001
#2	.00358	-.00075	-.00061	H110.89	.00054	-.00007	-.00005
#3	.00623	-.00023	-.00036	H110.15	.00072	-.00002	-.00006
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 02:23:10 PM

page 2

High	.02005	.05005	.02005	.50049	.04005	.05005	.05005
Low	-.02005	-.05005	-.02005	-.50049	-.04005	-.05005	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00035	.00527	H29.248	.00736	.00084	.00074	
SDev	.00015	.00127	3.123	.00125	.00054	.00104	
%RSD	43.584	24.028	10.679	16.991	63.600	140.94	
#1	.00051	.00625	H26.177	.00835	.00025	.00079	
#2	.00021	.00384	H29.146	.00777	.00098	.00176	
#3	.00033	.00572	H32.421	.00596	.00130	-.00033	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	.05005	.10005	1.0005	.30005	.01005	.01005	
Low	-.05005	-.10005	-1.0005	-.30005	-.01005	-.01005	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20999	--	--	--	--	--	--
SDev	105.4425	--	--	--	--	--	--
%RSD	.5021424	--	--	--	--	--	--
#1	20889	--	--	--	--	--	--
#2	21008	--	--	--	--	--	--
#3	21099	--	--	--	--	--	--

Analysis Report

04/10/06 02:29:17 PM

page 1

Method: TRA20505 Sample Name: H2LWVC

Operator:

Run Time: 04/10/06 14:23:14

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0231	.46108	.09455	.09690	.04741	.04958	47.914
SDev	.0154	.00394	.00147	.00084	.00017	.00047	.229
%RSD	.75889	.85556	1.5526	.86649	.34917	.95402	.47864
#1	2.0382	.46175	.09610	.09771	.04758	.05012	48.155
#2	2.0236	.46465	.09317	.09696	.04740	.04939	47.890
#3	2.0075	.45685	.09439	.09603	.04724	.04923	47.698
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	.19401	.09588	.23430	.97272	.09992	.09484	9.2332
SDev	.00224	.00042	.00150	.00401	.00575	.00178	.0778
%RSD	1.1562	.44221	.64070	.41183	5.7576	1.8769	.84245
#1	.19656	.09636	.23525	.96993	.10655	.09284	9.3220
#2	.19310	.09571	.23508	.97090	.09697	.09541	9.2004
#3	.19236	.09557	.23257	.97731	.09624	.09627	9.1772
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	.09823	48.284	.48937	.14548	.13950	.04620	47.231
SDev	.00101	.416	.00402	.00490	.00072	.00055	.337
%RSD	1.0314	.86245	.82118	3.3712	.51583	1.1791	.71331
#1	.09937	48.668	.49361	.15102	.13960	.04679	47.431
#2	.09789	48.343	.48886	.14371	.13873	.04572	47.421
#3	.09742	47.841	.48562	.14171	.14016	.04610	46.842
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	.39661	.19330	.51143	128.44	.47651	.10295	.49079
SDev	.00657	.00036	.00324	1.01	.00263	.00090	.00380
%RSD	1.6560	.18634	.63292	.78387	.55191	.87128	.77518
#1	.40301	.19372	.51453	129.56	.47825	.10373	.49345
#2	.39692	.19311	.51167	128.14	.47779	.10315	.49250
#3	.38989	.19308	.50807	127.62	.47349	.10197	.48643
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 02:29:17 PM

page 2

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	.09913	.48776	H44.261	4.6072	.09701	.14186
SDev	.00046	.00336	3.042	.0759	.00078	.00164
%RSD	.46196	.68913	6.8719	1.6483	.80461	1.1569

#1	.09962	.49164	H40.915	4.6894	.09789	.14375
#2	.09908	.48568	H45.010	4.5925	.09641	.14077
#3	.09871	.48597	H46.858	4.5396	.09674	.14106

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	20768	--	--	--	--	--	--
SDev	125.6060	--	--	--	--	--	--
%RSD	.6047997	--	--	--	--	--	--

#1	20623	--	--	--	--	--	--
#2	20841	--	--	--	--	--	--
#3	20841	--	--	--	--	--	--

Analysis Report

04/10/06 02:35:24 PM

page 1

Method: TRA20505 Sample Name: H2LWVL

Operator:

Run Time: 04/10/06 14:29:20

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0004	.45927	.09466	.09623	.04742	.04973	48.103
SDev	.0160	.00169	.00137	.00065	.00025	.00042	.315
%RSD	.79925	.36795	1.4465	.67694	.52322	.84027	.65521
#1	2.0175	.46094	.09621	.09666	.04770	.05021	48.466
#2	1.9979	.45931	.09362	.09654	.04731	.04946	47.946
#3	1.9858	.45756	.09415	.09548	.04724	.04952	47.897
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	.19477	.09548	.23159	.97411	.10271	.09381	9.2482
SDev	.00162	.00121	.00208	.01301	.00034	.00150	.0606
%RSD	.83290	1.2698	.89979	1.3352	.33633	1.5966	.65522
#1	.19664	.09676	.23372	.98909	.10300	.09526	9.3180
#2	.19371	.09435	.23149	.96571	.10233	.09392	9.2096
#3	.19396	.09533	.22955	.96752	.10281	.09227	9.2170
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	.09824	47.771	.49064	.14575	.13740	.04772	46.901
SDev	.00059	.468	.00252	.00246	.00190	.00069	.291
%RSD	.59863	.97927	.51392	1.6899	1.3853	1.4514	.62007
#1	.09892	48.233	.49343	.14764	.13947	.04845	47.177
#2	.09790	47.783	.48853	.14665	.13700	.04707	46.927
#3	.09790	47.297	.48996	.14296	.13573	.04766	46.597
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	.39723	.19323	.50980	127.85	.47230	.10235	.48736
SDev	.00456	.00153	.00318	.50	.00438	.00092	.00371
%RSD	1.1476	.79231	.62323	.39256	.92690	.89501	.76090
#1	.40242	.19499	.51345	128.42	.47683	.10317	.49040
#2	.39541	.19250	.50829	127.66	.47198	.10251	.48845
#3	.39387	.19220	.50766	127.47	.46809	.10136	.48323
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 02:35:24 PM

page 2

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	.09861	.48772	H45.795	4.5966	.09723	.14052
SDev	.00056	.00218	3.387	.0389	.00112	.00203
%RSD	.56321	.44755	7.3968	.84657	1.1466	1.4431

#1	.09909	.48998	H42.151	4.6343	.09842	.14253
#2	.09874	.48562	H46.386	4.5990	.09705	.14055
#3	.09800	.48755	H48.847	4.5566	.09621	.13848

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	20569	--	--	--	--	--	--
SDev	116.6667	--	--	--	--	--	--
%RSD	.5671883	--	--	--	--	--	--

#1	20435	--	--	--	--	--	--
#2	20637	--	--	--	--	--	--
#3	20636	--	--	--	--	--	--

Analysis Report

04/10/06 02:41:30 PM

page 1

Method: TRA20505 Sample Name: H2PFCB

Operator:

Run Time: 04/10/06 14:35:27

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03423	.00157	-.00132	.00097	.00028	-.00013	.03557
SDev	.00538	.00187	.00101	.00001	.00010	.00013	.00040
%RSD	15.721	118.95	76.704	1.2682	33.532	99.245	1.1133
#1	.02886	.00154	-.00226	.00096	.00036	.00000	.03575
#2	.03420	.00346	-.00024	.00098	.00018	-.00014	.03511
#3	.03962	-.00028	-.00146	.00097	.00031	-.00025	.03584
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	.00018	-.00029	-.00068	.03099	-.00263	.00187	.00472
SDev	.00123	.00041	.00014	.00790	.00351	.00185	.00076
%RSD	670.64	143.04	20.402	25.499	133.59	98.815	16.139
#1	.00137	.00018	-.00073	.03975	-.00091	.00147	.00501
#2	.00026	-.00046	-.00079	.02438	-.00030	.00025	.00529
#3	-.00108	-.00059	-.00052	.02885	-.00667	.00388	.00385
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	.00030	-.00260	.00107	-.00150	.00221	-.00056	-.41451
SDev	.00011	.01711	.00108	.00251	.00058	.00097	.23147
%RSD	36.956	656.96	101.28	167.03	26.113	174.63	55.843
#1	.00041	.00462	.00209	-.00149	.00155	-.00033	-.22469
#2	.00029	.00971	.00117	.00100	.00263	.00028	-.34645
#3	.00019	-.02214	-.00006	-.00402	.00246	-.00163	-.67238
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	.00101	.00031	.00159	H.92445	.00021	.00001	.00012
SDev	.00097	.00052	.00009	.20900	.00047	.00014	.00002
%RSD	96.384	166.97	5.6553	22.608	222.29	1959.8	15.156
#1	-.00008	.00075	.00150	H.69791	.00072	.00014	.00013
#2	.00179	-.00026	.00168	H.96565	.00012	.00003	.00010
#3	.00133	.00045	.00160	H1.1098	-.00020	-.00015	.00012
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 02:41:30 PM

page 2

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	.00045	.01650	H35.569	.00398	.00089	.00132	
SDev	.00006	.00198	2.079	.00185	.00030	.00097	
%RSD	14.239	11.992	5.8455	46.508	34.332	73.951	
#1	.00045	.01666	H37.183	.00454	.00116	.00088	
#2	.00038	.01840	H36.303	.00548	.00056	.00243	
#3	.00051	.01445	H33.223	.00191	.00095	.00064	
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	20648	--	--	--	--	--	--
SDev	171.9067	--	--	--	--	--	--
%RSD	.8325520	--	--	--	--	--	--
#1	20791	--	--	--	--	--	--
#2	20457	--	--	--	--	--	--
#3	20696	--	--	--	--	--	--

Analysis Report

04/10/06 02:47:36 PM

page 1

Method: TRA20505 Sample Name: H2PFCC

Operator:

Run Time: 04/10/06 14:41:33

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9893	.46322	.09781	.10284	.05175	.05174	49.494
SDev	.0177	.00032	.00128	.00105	.00041	.00012	.423
%RSD	.88932	.06813	1.3090	1.0248	.78669	.23023	.85380
#1	2.0048	.46358	.09901	.10368	.05137	.05161	49.040
#2	1.9930	.46308	.09796	.10317	.05168	.05178	49.566
#3	1.9700	.46299	.09646	.10166	.05218	.05183	49.875
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	.20461	.09894	.24411	1.0279	.10384	.09897	9.4193
SDev	.00074	.00053	.00246	.0124	.00336	.00264	.0338
%RSD	.36295	.54077	1.0079	1.2073	3.2397	2.6672	.35843
#1	.20379	.09917	.24601	1.0249	.10446	.09753	9.3902
#2	.20523	.09833	.24499	1.0172	.10685	.09736	9.4115
#3	.20482	.09932	.24133	1.0415	.10021	.10202	9.4563
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	.10302	46.662	.50893	.14080	.14338	.04923	47.139
SDev	.00021	.642	.00259	.00216	.00119	.00108	.531
%RSD	.20176	1.3763	.50957	1.5363	.83181	2.1831	1.1270
#1	.10318	47.033	.50655	.14118	.14201	.04836	47.451
#2	.10309	47.033	.51169	.14275	.14410	.04889	47.441
#3	.10279	45.920	.50855	.13847	.14405	.05043	46.526
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	.40113	.20114	.52915	2.4473	.48199	.10701	.51140
SDev	.00448	.00088	.00111	.0640	.00150	.00146	.00402
%RSD	1.1163	.43881	.20987	2.6140	.31094	1.3684	.78650
#1	.39661	.20168	.52887	2.3890	.48121	.10804	.51365
#2	.40121	.20012	.53038	2.4371	.48371	.10765	.51380
#3	.40556	.20162	.52821	2.5157	.48103	.10533	.50676
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 02:47:36 PM

page 2

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	.10340	.50953	H28.263	4.5566	.10105	.14287
SDev	.00059	.00212	.769	.0322	.00077	.00100
%RSD	.57175	.41632	2.7212	.70565	.75794	.69996

#1	.10403	.50709	H27.375	4.5814	.10033	.14207
#2	.10331	.51069	H28.692	4.5682	.10096	.14399
#3	.10286	.51083	H28.721	4.5203	.10186	.14254

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	20317	--	--	--	--	--	--
SDev	36.60225	--	--	--	--	--	--
%RSD	.1801569	--	--	--	--	--	--

#1	20313	--	--	--	--	--	--
#2	20355	--	--	--	--	--	--
#3	20283	--	--	--	--	--	--

Analysis Report

QC Standard

04/10/06 02:53:43 PM

page 1

Method: TRA20505 Sample Name: CCV3

Operator:

Run Time: 04/10/06 14:47:40

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.274	.48843	.49478	2.0104	2.0498	.52012	50.665
SDev	.087	.00347	.00400	.0129	.0076	.00185	.196
%RSD	.35867	.71094	.80766	.64179	.36948	.35552	.38732
#1	24.370	.49140	.49521	2.0249	2.0575	.52123	50.885
#2	24.254	.48461	.49059	2.0061	2.0423	.51799	50.507
#3	24.199	.48927	.49854	2.0001	2.0498	.52115	50.604
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	2.0380	2.0305	1.9412	25.510	.50848	.50671	49.933
SDev	.0053	.0042	.0108	.061	.00619	.00260	.151
%RSD	.25944	.20785	.55483	.23747	1.2167	.51286	.30289
#1	2.0440	2.0307	1.9535	25.578	.51459	.50456	50.065
#2	2.0339	2.0262	1.9368	25.462	.50222	.50598	49.768
#3	2.0361	2.0346	1.9334	25.490	.50864	.50960	49.965
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	2.0524	47.639	2.0630	.48971	.49774	.99372	47.830
SDev	.0023	.336	.0085	.00571	.00291	.00437	.233
%RSD	.11051	.70550	.41363	1.1657	.58380	.43979	.48746
#1	2.0547	47.990	2.0668	.49375	.49671	.99866	48.088
#2	2.0502	47.606	2.0532	.48318	.49550	.99036	47.636
#3	2.0524	47.321	2.0690	.49221	.50102	.99215	47.765
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	.99935	2.0054	2.0680	Q3.4939	2.0095	2.0073	1.9892
SDev	.00917	.0076	.0085	.0080	.0073	.0182	.0124
%RSD	.91800	.38075	.41175	.22892	.36136	.90497	.62530
#1	1.0086	2.0142	2.0769	Q3.5005	2.0160	2.0269	2.0031
#2	.99031	2.0010	2.0600	Q3.4961	2.0017	2.0040	1.9854
#3	.99908	2.0010	2.0672	Q3.4850	2.0109	1.9910	1.9791
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass

Analysis Report

QC Standard

04/10/06 02:53:43 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	2.0256	2.0298	Q19.959	1.9446	.50783	.49542
SDev	.0078	.0099	1.019	.0106	.00228	.00340
%RSD	.38567	.49010	5.1043	.54477	.44941	.68548

#1	2.0346	2.0392	Q20.803	1.9567	.50840	.49607
#2	2.0217	2.0194	Q20.247	1.9405	.50532	.49174
#3	2.0205	2.0308	Q18.827	1.9368	.50978	.49844

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	20132	--	--	--	--	--	--
SDev	111.6580	--	--	--	--	--	--
%RSD	.5546295	--	--	--	--	--	--

#1	20021	--	--	--	--	--	--
#2	20244	--	--	--	--	--	--
#3	20131	--	--	--	--	--	--

Analysis Report

04/10/06 02:59:49 PM

page 1

Method: TRA20505 Sample Name: CCB3

Operator:

Run Time: 04/10/06 14:53:46

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02388	-.00071	-.00028	.00004	.00044	.00005	-.00355
SDev	.00011	.00189	.00058	.00004	.00005	.00017	.00065
%RSD	.46075	266.22	209.47	118.22	11.291	359.78	18.256

#1	.02379	-.00131	.00036	.00003	.00039	-.00002	-.00320
#2	.02400	-.00222	-.00076	-.00000	.00044	-.00008	-.00429
#3	.02386	.00141	-.00043	.00008	.00049	.00024	-.00314

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10500	.01400	.00330	.00160	.00180	.00082	.06500
Low	-.10500	-.01400	-.00330	-.00160	-.00180	-.00082	-.06500

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00011	.00013	-.00129	.00419	-.00029	-.00057	.00203
SDev	.00014	.00040	.00051	.00470	.00071	.00061	.00252
%RSD	131.09	299.48	39.459	112.01	242.19	106.32	123.88

#1	.00006	-.00010	-.00130	.00021	-.00096	-.00097	.00217
#2	-.00001	-.00010	-.00179	.00300	-.00036	.00013	-.00055
#3	.00027	.00060	-.00077	.00937	.00045	-.00087	.00448

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00360	.00220	.00700	.04900			.04900
Low	-.00360	-.00220	-.00700	-.04900			-.04900

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00006	.02202	.00035	.00234	.00091	.00156	-.29144
SDev	.00008	.02349	.00027	.00253	.00109	.00152	.11312
%RSD	129.85	106.70	78.426	108.36	120.15	97.636	38.815

#1	.00004	.00530	.00062	-.00058	.00004	.00045	-.27886
#2	-.00001	.01187	.00007	.00395	.00213	.00093	-.41033
#3	.00014	.04888	.00035	.00364	.00055	.00330	-.18513

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00180	.32200	.00380			.00970	1.4730
Low	-.00180	-.32200	-.00380			-.00970	-1.4730

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00389	.00040	-.00075	H1.1808	.00067	.00016	.00002
SDev	.00142	.00093	.00005	.0248	.00072	.00007	.00002
%RSD	36.651	231.98	6.4116	2.0974	107.95	42.321	94.672

#1	.00351	-.00018	-.00070	H1.2072	.00016	.00022	.00004
#2	.00269	-.00009	-.00080	H1.1771	.00035	.00009	-.00000
#3	.00546	.00147	-.00076	H1.1581	.00149	.00018	.00003

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
--------	---------	---------	---------	---------	---------	---------	---------

Analysis Report

04/10/06 02:59:49 PM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00005	.00151	H11.121	.00109	.00001	.00182
SDev	.00003	.00055	.324	.00124	.00047	.00158
%RSD	61.452	36.545	2.9130	113.53	5723.2	86.684

#1	.00008	.00088	H11.394	.00106	-.00049	.00017
#2	.00002	.00193	H11.206	-.00013	.00045	.00332
#3	.00007	.00171	H10.763	.00234	.00006	.00197

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.00160	.00770	.05500	.02100	.00370	.00430
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20560	--	--	--	--	--	--
SDev	222.5096	--	--	--	--	--	--
%RSD	1.082236	--	--	--	--	--	--

#1	20660	--	--	--	--	--	--
#2	20715	--	--	--	--	--	--
#3	20305	--	--	--	--	--	--

Analysis Report

04/10/06 03:05:56 PM

page 1

Method: TRA20505 Sample Name: H2PF3B

Operator:

Run Time: 04/10/06 14:59:53

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04341	.00159	.00008	.00106	.00002	.00007	.03852
SDev	.00567	.00205	.00101	.00012	.00006	.00023	.00197
%RSD	13.052	128.77	1206.6	11.471	258.88	316.86	5.1242
#1	.04895	.00356	.00091	.00120	-.00003	.00034	.04080
#2	.03763	-.00054	-.00104	.00100	.00008	-.00007	.03743
#3	.04365	.00176	.00037	.00097	.00002	-.00005	.03734
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	.00072	.00032	-.00113	.02492	-.00107	-.00024	.00753
SDev	.00073	.00097	.00056	.02015	.00154	.00176	.00617
%RSD	100.44	304.82	49.525	80.858	144.40	725.62	81.965
#1	.00136	.00144	-.00050	.04654	.00002	-.00194	.01448
#2	-.00007	-.00024	-.00130	.00668	-.00283	.00157	.00268
#3	.00088	-.00024	-.00158	.02153	-.00039	-.00035	.00543
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	.00052	.01411	.00076	-.00121	.00052	-.00004	-.26002
SDev	.00013	.01126	.00121	.00028	.00134	.00072	.30959
%RSD	24.627	79.827	159.36	23.316	258.76	1901.0	119.06
#1	.00066	.02474	.00205	-.00107	-.00092	.00071	.07871
#2	.00041	.00230	-.00033	-.00153	.00174	-.00072	-.52835
#3	.00049	.01529	.00055	-.00102	.00074	-.00011	-.33043
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	.00083	.00125	.00636	H.82116	.00054	.00009	.00014
SDev	.00221	.00192	.00012	.04710	.00051	.00010	.00006
%RSD	266.02	153.27	1.9143	5.7355	94.073	109.38	44.279
#1	.00322	.00347	.00648	H.87201	.00112	.00021	.00021
#2	.00042	.00003	.00623	H.81241	.00016	.00003	.00011
#3	-.00114	.00026	.00636	H.77904	.00034	.00003	.00010
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 03:05:56 PM

page 2

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	.00063	.01384	H6.4178	.00499	.00000	.00028	
SDev	.00022	.00173	.3791	.00044	.00065	.00083	
%RSD	35.404	12.533	5.9063	8.8746	28121.	291.56	
#1	.00088	.01575	H6.8215	.00539	-.00070	-.00063	
#2	.00045	.01237	H6.3626	.00508	.00059	.00099	
#3	.00057	.01339	H6.0694	.00452	.00012	.00050	
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	20565	--	--	--	--	--	--
SDev	61.43741	--	--	--	--	--	--
%RSD	.2987475	--	--	--	--	--	--
#1	20527	--	--	--	--	--	--
#2	20636	--	--	--	--	--	--
#3	20532	--	--	--	--	--	--

Analysis Report

04/10/06 03:12:02 PM

page 1

Method: TRA20505 Sample Name: H2PF3C

Operator:

Run Time: 04/10/06 15:05:59

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0056	.46774	.09979	.10347	.05311	.05332	50.519
SDev	.0272	.00686	.00168	.00103	.00060	.00085	.772
%RSD	1.3559	1.4671	1.6794	.99399	1.1377	1.5854	1.5287
#1	1.9829	.46410	.09885	.10243	.05287	.05317	50.320
#2	2.0357	.47565	.10173	.10449	.05380	.05422	51.371
#3	1.9982	.46345	.09879	.10350	.05266	.05255	49.865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.2098	.55245	.11049	.11049	.05525	.05525	55.245
Low	1.7902	.43755	.08851	.08951	.04476	.04476	44.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20907	.10254	.24494	1.0627	.09884	.10569	9.6560
SDev	.00323	.00173	.00300	.0290	.00280	.00331	.1502
%RSD	1.5450	1.6921	1.2246	2.7301	2.8328	3.1268	1.5554
#1	.20712	.10138	.24196	1.0516	.10207	.10399	9.5852
#2	.21280	.10454	.24796	1.0956	.09705	.10949	9.8285
#3	.20729	.10171	.24489	1.0408	.09740	.10358	9.5543
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.22098	.11049	.27623	1.1005			11.049
Low	.17902	.08951	.22377	.89510			8.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10545	46.186	.52390	.13737	.14624	.05294	46.812
SDev	.00160	.443	.00845	.00087	.00215	.00200	.494
%RSD	1.5186	.95853	1.6124	.63484	1.4722	3.7805	1.0560
#1	.10455	45.729	.51893	.13838	.14492	.05288	46.370
#2	.10730	46.613	.53366	.13695	.14872	.05497	47.346
#3	.10450	46.214	.51913	.13680	.14507	.05097	46.722
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.11049	55.745	.55245			.05525	55.245
Low	.08951	42.755	.44755			.04476	44.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40562	.20712	.53804	H1.7974	.49160	.10671	.51352
SDev	.00874	.00413	.00777	.0320	.00809	.00095	.00552
%RSD	2.1554	1.9914	1.4443	1.7784	1.6449	.88884	1.0758
#1	.39644	.20459	.53347	H1.7840	.48634	.10562	.50858
#2	.41385	.21188	.54701	H1.8339	.50091	.10736	.51949
#3	.40656	.20490	.53364	H1.7743	.48755	.10715	.51249
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 03:12:02 PM

page 2

High	.44196	.22098	.55245	1.2049	.60245	.12049	.60245
Low	.35804	.17902	.44755	.79510	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10231	.51455	H6.1579	4.6968	.10388	.14366
SDev	.00136	.00878	.2916	.0519	.00192	.00133
%RSD	1.3267	1.7069	4.7353	1.1057	1.8523	.92209

#1	.10130	.51450	H6.1570	4.6771	.10396	.14315
#2	.10385	.52336	H6.4500	4.7557	.10576	.14516
#3	.10177	.50580	5.8668	4.6576	.10192	.14266

Errors	LC Pass	LC Pass	LC High	NOCHECK	LC Pass	LC Pass
High	.12049	.55245	6.0245		.11049	.16574
Low	.07951	.44755	3.9755		.08951	.12977

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19805	--	--	--	--	--	--
SDev	317.7566	--	--	--	--	--	--
%RSD	1.604404	--	--	--	--	--	--

#1	19756	--	--	--	--	--	--
#2	19515	--	--	--	--	--	--
#3	20145	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 03:18:08 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00018	.00384	3.2472	2.9848	.00731	.00214	
SDev	.00006	.00090	.1726	.0512	.00037	.00096	
%RSD	34.062	23.526	5.3149	1.7165	5.0753	44.985	
#1	.00012	.00486	3.4374	2.9678	.00691	.00223	
#2	.00019	.00351	3.2037	2.9442	.00736	.00305	
#3	.00024	.00315	3.1006	3.0423	.00765	.00113	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19834	--	--	--	--	--	--
SDev	286.8688	--	--	--	--	--	--
%RSD	1.446364	--	--	--	--	--	--
#1	19854	--	--	--	--	--	--
#2	20110	--	--	--	--	--	--
#3	19537	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 03:24:15 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00006	.00175	1.9884	.89474	.52371	.09666	
SDev	.00006	.00126	.0602	.00033	.00144	.00114	
%RSD	99.422	71.862	3.0252	.03669	.27541	1.1837	
#1	.00013	.00047	1.9972	.89510	.52250	.09776	
#2	.00007	.00180	2.0437	.89446	.52332	.09674	
#3	-.00000	.00299	1.9244	.89466	.52531	.09547	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20275	--	--	--	--	--	--
SDev	30.96603	--	--	--	--	--	--
%RSD	.1527297	--	--	--	--	--	--
#1	20275	--	--	--	--	--	--
#2	20306	--	--	--	--	--	--
#3	20244	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 03:30:21 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00013	.00136	1.3080	.85961	.49838	.09361	
SDev	.00012	.00127	.0640	.02182	.00902	.00177	
%RSD	86.294	92.915	4.8921	2.5387	1.8102	1.8898	
#1	.00027	.00043	1.3446	.83592	.48837	.09158	
#2	.00006	.00086	1.3453	.87889	.50590	.09438	
#3	.00007	.00280	1.2341	.86403	.50085	.09485	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20517	--	--	--	--	--	--
SDev	294.8778	--	--	--	--	--	--
%RSD	1.437225	--	--	--	--	--	--
#1	20830	--	--	--	--	--	--
#2	20244	--	--	--	--	--	--
#3	20478	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 03:36:28 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00011	-.00001	.82267	.58128	.00179	-.00038	
SDev	.00011	.00216	.04223	.01061	.00023	.00072	
%RSD	96.113	38630.	5.1330	1.8249	12.777	189.68	
#1	-.00017	-.00244	.85941	.57924	.00164	.00039	
#2	.00001	.00075	.83204	.59276	.00205	-.00105	
#3	-.00017	.00168	.77654	.57184	.00168	-.00048	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20624	--	--	--	--	--	--
SDev	12.97466	--	--	--	--	--	--
%RSD	.0629096	--	--	--	--	--	--
#1	20627	--	--	--	--	--	--
#2	20610	--	--	--	--	--	--
#3	20635	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 03:42:34 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00584	.10454	2.4589	.20509	.04846	.01238
SDev	.00014	.00093	.0048	.00141	.00029	.00081
%RSD	2.3288	.89424	.19602	.68690	.60522	6.5632

#1	.00600	.10525	2.4534	.20461	.04812	.01180
#2	.00577	.10348	2.4625	.20667	.04867	.01202
#3	.00576	.10489	2.4607	.20398	.04858	.01331

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20650	--	--	--	--	--	--
SDev	113.3094	--	--	--	--	--	--
%RSD	.5487096	--	--	--	--	--	--

#1	20519	--	--	--	--	--	--
#2	20713	--	--	--	--	--	--
#3	20718	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 03:48:41 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.10846	.59983	8.0028	4.9000	.15319	.15962	
SDev	.00071	.00673	.0986	.0302	.00102	.00113	
%RSD	.65478	1.1215	1.2318	.61671	.66602	.70994	
#1	.10765	.59370	7.8946	4.8659	.15208	.15972	
#2	.10881	.60703	8.0876	4.9234	.15409	.16071	
#3	.10894	.59875	8.0261	4.9107	.15340	.15845	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20427	--	--	--	--	--	--
SDev	83.45773	--	--	--	--	--	--
%RSD	.4085571	--	--	--	--	--	--
#1	20440	--	--	--	--	--	--
#2	20339	--	--	--	--	--	--
#3	20504	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 03:54:48 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00129	.10772	.58836	.11164	.00178	.00020	
SDev	.00022	.00125	.02359	.00054	.00006	.00142	
%RSD	17.182	1.1592	4.0100	.48619	3.1436	704.16	
#1	.00106	.10903	.61056	.11152	.00172	-.00078	
#2	.00150	.10655	.59093	.11116	.00183	.00182	
#3	.00131	.10756	.56359	.11223	.00180	-.00044	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20782	--	--	--	--	--	--
SDev	213.0486	--	--	--	--	--	--
%RSD	1.025148	--	--	--	--	--	--
#1	21009	--	--	--	--	--	--
#2	20587	--	--	--	--	--	--
#3	20751	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 04:00:55 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00117	.02147	.63296	.04269	.01000	.00386	
SDev	.00013	.00086	.01086	.00258	.00090	.00078	
%RSD	10.984	4.0293	1.7162	6.0408	8.9900	20.288	
#1	.00107	.02226	.64127	.03997	.00928	.00412	
#2	.00132	.02161	.63695	.04301	.01101	.00298	
#3	.00113	.02055	.62067	.04509	.00971	.00447	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20578	--	--	--	--	--	--
SDev	176.4981	--	--	--	--	--	--
%RSD	.8576932	--	--	--	--	--	--
#1	20400	--	--	--	--	--	--
#2	20582	--	--	--	--	--	--
#3	20753	--	--	--	--	--	--

Analysis Report

QC Standard

04/10/06 04:07:01 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	2.0130	2.0063	2.1934	1.9476	.50371	.49001
SDev	.0114	.0215	.0167	.0043	.00409	.00166
%RSD	.56688	1.0708	.75980	.21898	.81094	.33883

#1	2.0180	2.0280	Q2.2107	1.9444	.50749	.48929
#2	1.9999	1.9850	2.1775	1.9459	.49938	.48883
#3	2.0210	2.0059	2.1920	1.9524	.50425	.49191

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	20206	--	--	--	--	--	--
SDev	284.9574	--	--	--	--	--	--
%RSD	1.410286	--	--	--	--	--	--

#1	19895	--	--	--	--	--	--
#2	20455	--	--	--	--	--	--
#3	20267	--	--	--	--	--	--

Analysis Report

04/10/06 04:13:07 PM

page 1

Method: TRA20505 Sample Name: CCB4

Operator:

Run Time: 04/10/06 16:07:04

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02566	-.00112	-.00024	-.00003	.00065	-.00009	-.00457
SDev	.00354	.00061	.00162	.00006	.00002	.00010	.00073
%RSD	13.780	54.317	662.22	183.08	2.7136	106.67	15.962

#1	.02900	-.00125	-.00142	.00000	.00063	-.00018	-.00417
#2	.02603	-.00166	.00160	-.00010	.00066	.00002	-.00541
#3	.02196	-.00046	-.00091	.00000	.00067	-.00013	-.00412

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10500	.01400	.00330	.00160	.00180	.00082	.06500
Low	-.10500	-.01400	-.00330	-.00160	-.00180	-.00082	-.06500

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00010	-.00012	-.00181	.00046	-.00135	.00168	.00031
SDev	.00083	.00014	.00020	.00237	.00558	.00265	.00242
%RSD	860.81	114.35	10.872	517.30	412.73	157.53	772.36

#1	-.00058	.00004	-.00187	.00008	-.00587	.00350	.00221
#2	.00086	-.00017	-.00197	-.00170	.00489	-.00136	-.00241
#3	-.00057	-.00024	-.00159	.00300	-.00307	.00290	.00114

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00360	.00220	.00700	.04900			.04900
Low	-.00360	-.00220	-.00700	-.04900			-.04900

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	.01933	-.00031	-.00113	.00083	.00155	-.48708
SDev	.00013	.00900	.00046	.00422	.00151	.00065	.24599
%RSD	301.88	46.558	145.54	372.34	181.27	41.951	50.503

#1	-.00003	.01946	-.00082	-.00510	.00171	.00160	-.71785
#2	.00019	.02827	.00007	.00330	-.00091	.00217	-.22828
#3	-.00003	.01027	-.00020	-.00161	.00169	.00087	-.51512

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00180	.32200	.00380			.00970	1.4730
Low	-.00180	-.32200	-.00380			-.00970	-1.4730

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00041	-.00025	-.00083	H.13453	.00079	.00004	.00001
SDev	.00113	.00037	.00004	.00355	.00048	.00009	.00002
%RSD	276.84	148.41	4.9503	2.6386	61.460	224.14	177.87

#1	-.00040	-.00027	-.00081	H.13573	.00101	.00007	.00003
#2	.00169	-.00060	-.00080	H.13733	.00023	.00011	-.00001
#3	-.00008	.00013	-.00087	H.13054	.00112	-.00006	.00001

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
--------	---------	---------	---------	---------	---------	---------	---------

Analysis Report

04/10/06 04:13:07 PM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	-.00009	H.18647	.00168	.00116	.00053
SDev	.00003	.00234	.00436	.00167	.00026	.00065
%RSD	43.856	2727.0	2.3406	99.373	22.861	121.18

#1	-.00006	-.00202	H.18859	.00296	.00087	-.00021
#2	-.00005	.00252	H.18937	.00228	.00121	.00088
#3	-.00011	-.00075	H.18145	-.00021	.00139	.00093

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.00160	.00770	.05500	.02100	.00370	.00430
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20562	--	--	--	--	--	--
SDev	124.8679	--	--	--	--	--	--
%RSD	.6072705	--	--	--	--	--	--

#1	20444	--	--	--	--	--	--
#2	20551	--	--	--	--	--	--
#3	20692	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 04:19:14 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.12896	.66505	2.9073	5.9067	.12583	.17287	
SDev	.00085	.00443	.0289	.0253	.00119	.00281	
%RSD	.65775	.66673	.99513	.42790	.94204	1.6273	
#1	.12805	.66030	2.8759	5.8776	.12447	.16984	
#2	.12911	.66576	2.9131	5.9232	.12668	.17337	
#3	.12973	.66908	2.9329	5.9194	.12632	.17540	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20279	--	--	--	--	--	--
SDev	39.52851	--	--	--	--	--	--
%RSD	.1949276	--	--	--	--	--	--
#1	20323	--	--	--	--	--	--
#2	20265	--	--	--	--	--	--
#3	20247	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 04:25:55 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.12723	.67526	.80872	5.9366	.12594	.17339	
SDev	.00021	.00128	.00399	.0350	.00052	.00125	
%RSD	.16616	.18976	.49302	.58923	.40887	.72307	
#1	.12721	.67474	.80639	5.9301	.12621	.17194	
#2	.12744	.67431	.81332	5.9053	.12534	.17419	
#3	.12702	.67671	.80644	5.9744	.12625	.17403	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20192	--	--	--	--	--	--
SDev	62.36220	--	--	--	--	--	--
%RSD	.3088448	--	--	--	--	--	--
#1	20123	--	--	--	--	--	--
#2	20208	--	--	--	--	--	--
#3	20245	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 04:32:02 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00810	.07723	1.2973	.22264	.17368	.01614	
SDev	.00016	.00180	.0051	.00217	.00094	.00101	
%RSD	1.9524	2.3324	.39529	.97530	.54072	6.2313	
#1	.00805	.07648	1.2915	.22197	.17349	.01620	
#2	.00828	.07928	1.3014	.22506	.17470	.01510	
#3	.00798	.07592	1.2989	.22088	.17285	.01711	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20405	--	--	--	--	--	--
SDev	159.5605	--	--	--	--	--	--
%RSD	.7819647	--	--	--	--	--	--
#1	20376	--	--	--	--	--	--
#2	20262	--	--	--	--	--	--
#3	20577	--	--	--	--	--	--

Errors LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass

Analysis Report

04/10/06 04:38:09 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.10923	.56878	6.0530	4.9789	.27181	.16116	
SDev	.00042	.00197	.0101	.0340	.00069	.00066	
%RSD	.38196	.34608	.16717	.68247	.25267	.40801	
#1	.10970	.56987	6.0472	5.0182	.27208	.16187	
#2	.10906	.56651	6.0471	4.9591	.27103	.16102	
#3	.10892	.56997	6.0646	4.9595	.27233	.16058	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20320	--	--	--	--	--	--
SDev	99.56380	--	--	--	--	--	--
%RSD	.4899893	--	--	--	--	--	--
#1	20254	--	--	--	--	--	--
#2	20434	--	--	--	--	--	--
#3	20270	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 04:44:15 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00644	.12804	2.6358	.24266	.04244	.00838
SDev	.00015	.00126	.0174	.00208	.00058	.00094
%RSD	2.3353	.98486	.66145	.85553	1.3731	11.259

#1	.00628	.12703	2.6160	.24079	.04186	.00895
#2	.00646	.12945	2.6489	.24229	.04244	.00729
#3	.00658	.12763	2.6424	.24489	.04302	.00889

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20220	--	--	--	--	--	--
SDev	32.00377	--	--	--	--	--	--
%RSD	.1582757	--	--	--	--	--	--

#1	20187	--	--	--	--	--	--
#2	20224	--	--	--	--	--	--
#3	20250	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 04:50:22 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.12042	.67824	7.9622	5.5299	.14502	.15015	
SDev	.00017	.00509	.0067	.0322	.00135	.00137	
%RSD	.14298	.75058	.08433	.58297	.93301	.91321	
#1	.12062	.67777	7.9692	5.5630	.14512	.15089	
#2	.12033	.68355	7.9618	5.5282	.14632	.15098	
#3	.12032	.67340	7.9558	5.4986	.14362	.14856	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20141	--	--	--	--	--	--
SDev	137.0926	--	--	--	--	--	--
%RSD	.6806621	--	--	--	--	--	--
#1	20044	--	--	--	--	--	--
#2	20082	--	--	--	--	--	--
#3	20298	--	--	--	--	--	--

Analysis Report

04/10/06 04:56:29 PM

page 1

Method: TRA20505 Sample Name: H2HV1

Operator:

Run Time: 04/10/06 16:50:25

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0481	.03909	.05617	.07215	.00205	.10250	2.4696
SDev	.0056	.00267	.00098	.00004	.00006	.00048	.0159
%RSD	.53166	6.8247	1.7492	.04981	2.8301	.47113	.64196
#1	1.0526	.04027	.05703	.07219	.00207	.10303	2.4848
#2	1.0500	.03604	.05638	.07213	.00210	.10209	2.4532
#3	1.0419	.04097	.05510	.07212	.00199	.10238	2.4708
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.54493	.00623	1.6218	5.0175	3.4964	3.5256	.25837
SDev	.00225	.00094	.0023	.0347	.0151	.0061	.00879
%RSD	.41327	15.116	.14440	.69131	.43132	.17303	3.4028
#1	.54731	.00730	1.6210	5.0570	3.5096	3.5269	.26736
#2	.54283	.00551	1.6245	4.9920	3.4996	3.5189	.24979
#3	.54465	.00589	1.6200	5.0034	3.4800	3.5309	.25795
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.59465	69.779	.10895	.04750	.02571	.01446	40.420
SDev	.00191	.218	.00061	.00240	.00266	.00049	.299
%RSD	.32051	.31262	.56338	5.0597	10.354	3.3996	.74064
#1	.59683	69.549	.10918	.04504	.02674	.01493	40.635
#2	.59328	69.806	.10826	.04764	.02770	.01395	40.078
#3	.59385	69.983	.10942	.04984	.02268	.01451	40.547
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09997	.02481	2.0585	H130.00	.11605	.09078	.01478
SDev	.00301	.00222	.0061	.59	.00084	.00022	.00006
%RSD	3.0145	8.9317	.29829	.45382	.71955	.24180	.39825
#1	.10230	.02735	2.0654	H130.31	.11699	.09088	.01485
#2	.09657	.02326	2.0561	H130.37	.11541	.09053	.01473
#3	.10105	.02381	2.0538	H129.32	.11575	.09094	.01477
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 04:56:29 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01602	.32929	H1069.9	.49729	3.5163	.03333	
SDev	.00026	.00126	5.9	.00415	.0046	.00129	
%RSD	1.5954	.38172	.55154	.83474	.13136	3.8581	
#1	.01630	.33051	H1076.3	.50198	3.5215	.03318	
#2	.01581	.32800	H1064.8	.49411	3.5129	.03468	
#3	.01594	.32936	H1068.4	.49578	3.5144	.03212	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20366	--	--	--	--	--	--
SDev	46.74198	--	--	--	--	--	--
%RSD	.2295080	--	--	--	--	--	--
#1	20349	--	--	--	--	--	--
#2	20419	--	--	--	--	--	--
#3	20331	--	--	--	--	--	--

Analysis Report

04/10/06 05:02:35 PM

page 1

Method: TRA20505 Sample Name: H2HV1A

Operator:

Run Time: 04/10/06 16:56:32

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.2198	.51441	.15610	.17772	.05288	.15068	57.928
SDev	.0477	.00717	.00293	.00243	.00049	.00227	.803
%RSD	1.4817	1.3933	1.8743	1.3693	.92282	1.5086	1.3870
#1	3.2497	.51420	.15417	.17970	.05261	.14938	57.335
#2	3.1647	.50735	.15466	.17500	.05258	.14936	57.607
#3	3.2448	.52168	.15946	.17846	.05344	.15331	58.842
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.73820	.10836	1.8704	5.8693	3.4613	3.4740	10.512
SDev	.00829	.00166	.0263	.0866	.0515	.0620	.152
%RSD	1.1228	1.5295	1.4039	1.4757	1.4893	1.7857	1.4468
#1	.73582	.10801	1.8931	5.8487	3.4192	3.4278	10.429
#2	.73136	.10690	1.8416	5.7948	3.4460	3.4496	10.419
#3	.74741	.11016	1.8763	5.9643	3.5188	3.5445	10.687
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.68263	126.45	.62936	.19413	.16962	.06405	95.502
SDev	.00835	1.94	.00934	.00233	.00342	.00161	1.208
%RSD	1.2229	1.5351	1.4846	1.1983	2.0144	2.5164	1.2649
#1	.68380	127.80	.62348	.19150	.16840	.06264	96.375
#2	.67376	124.23	.62447	.19592	.16699	.06370	94.123
#3	.69033	127.33	.64014	.19498	.17348	.06581	96.007
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50946	.23568	2.5157	H127.76	.61182	.20592	.54520
SDev	.00551	.00445	.0261	1.57	.00830	.00340	.00640
%RSD	1.0824	1.8882	1.0387	1.2324	1.3569	1.6526	1.1734
#1	.50755	.23558	2.5071	H128.37	.61135	.20942	.55017
#2	.50515	.23129	2.4949	H125.97	.60375	.20262	.53798
#3	.51567	.24019	2.5450	H128.94	.62034	.20571	.54745
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 05:02:35 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12052	.81740	H1051.4	5.4816	3.4703	.17813
SDev	.00173	.01004	13.5	.0806	.0586	.00249
%RSD	1.4343	1.2280	1.2839	1.4710	1.6884	1.3992

#1	.12107	.81532	H1046.0	5.4889	3.4254	.17644
#2	.11859	.80857	H1041.4	5.3976	3.4488	.17696
#3	.12191	.82831	H1066.8	5.5584	3.5366	.18099

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20201	--	--	--	--	--	--
SDev	295.7100	--	--	--	--	--	--
%RSD	1.463828	--	--	--	--	--	--

#1	20406	--	--	--	--	--	--
#2	20336	--	--	--	--	--	--
#3	19862	--	--	--	--	--	--

Analysis Report

04/10/06 05:08:42 PM

page 1

Method: TRA20505 Sample Name: H2HV8

Operator:

Run Time: 04/10/06 17:02:39

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.74039	.02714	.00072	.01801	.00035	-.00083	.97778
SDev	.00598	.00264	.00178	.00004	.00023	.00015	.00166
%RSD	.80767	9.7291	246.83	.20418	65.999	17.811	.17011
#1	.73723	.02902	.00142	.01805	.00012	-.00069	.97961
#2	.73666	.02412	-.00130	.01799	.00057	-.00098	.97636
#3	.74729	.02828	.00204	.01798	.00035	-.00082	.97737
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.00404	-.00400	.01164	.22864	-.01267	-.00078	.07660
SDev	.00181	.00007	.00026	.00949	.00082	.00141	.00208
%RSD	44.868	1.8651	2.1908	4.1519	6.4666	180.62	2.7145
#1	.00611	-.00395	.01149	.23632	-.01237	-.00151	.07806
#2	.00275	-.00409	.01149	.21803	-.01204	.00084	.07422
#3	.00325	-.00398	.01193	.23157	-.01360	-.00166	.07751
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.00690	.24487	.03662	.03305	.01230	-.00415	.80840
SDev	.00024	.00922	.00027	.00407	.00270	.00037	.58091
%RSD	3.4808	3.7659	.73357	12.306	21.914	8.8598	71.859
#1	.00717	.25250	.03645	.03609	.00919	-.00390	1.4564
#2	.00681	.24750	.03647	.02843	.01380	-.00398	.33434
#3	.00672	.23462	.03693	.03462	.01392	-.00457	.63445
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09079	-.00032	.04859	H124.09	.05046	.00010	.00436
SDev	.00312	.00080	.00009	.66	.00019	.00008	.00002
%RSD	3.4343	251.54	.17832	.53579	.37208	85.351	.42952
#1	.09431	.00053	.04849	H124.04	.05035	.00017	.00437
#2	.08970	-.00105	.04860	H124.79	.05068	.00000	.00433
#3	.08837	-.00043	.04866	H123.46	.05035	.00012	.00437
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 05:08:42 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01362	.11342	H1057.5	.09695	L-.00432	.01955
SDev	.00012	.00181	4.4	.00181	.00112	.00141
%RSD	.88079	1.5924	.41449	1.8653	25.927	7.2038

#1	.01374	.11546	H1058.5	.09675	L-.00470	.01849
#2	.01350	.11278	H1061.3	.09525	-.00306	.01901
#3	.01362	.11202	H1052.7	.09885	L-.00521	.02115

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Low	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20781	--	--	--	--	--	--
SDev	111.8973	--	--	--	--	--	--
%RSD	.5384707	--	--	--	--	--	--

#1	20722	--	--	--	--	--	--
#2	20710	--	--	--	--	--	--
#3	20910	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 05:14:49 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00317	.07009	H277.65	.10570	.73403	.00657	
SDev	.00029	.00097	.11	.00226	.00615	.00061	
%RSD	9.0900	1.3871	.03808	2.1382	.83722	9.3157	
#1	.00287	.06995	H277.70	.10373	.72755	.00590	
#2	.00344	.06920	H277.72	.10520	.73476	.00711	
#3	.00321	.07113	H277.53	.10817	.73978	.00670	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19991	--	--	--	--	--	--
SDev	104.2309	--	--	--	--	--	--
%RSD	.5213786	--	--	--	--	--	--
#1	20046	--	--	--	--	--	--
#2	20057	--	--	--	--	--	--
#3	19871	--	--	--	--	--	--

Analysis Report

QC Standard

04/10/06 05:20:55 PM

page 1

Method: TRA20505 Sample Name: CCV5

Operator:

Run Time: 04/10/06 17:14:52

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.052	.48435	.48747	1.9975	2.0378	.51632	50.317
SDev	.156	.00317	.00307	.0104	.0133	.00377	.387
%RSD	.64679	.65488	.62956	.51827	.65452	.73006	.76881
#1	24.218	.48664	.49086	2.0055	2.0532	.52044	50.761
#2	24.027	.48569	.48668	2.0013	2.0306	.51550	50.055
#3	23.910	.48073	.48488	1.9858	2.0296	.51303	50.133
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
Avg	2.0219	2.0086	1.9177	25.320	.50927	.50528	49.587
SDev	.0136	.0169	.0125	.157	.00606	.00168	.330
%RSD	.67463	.84249	.65190	.61938	1.1898	.33296	.66564
#1	2.0373	2.0273	1.9290	25.498	.51624	.50390	49.963
#2	2.0167	2.0042	1.9198	25.259	.50525	.50478	49.452
#3	2.0115	1.9943	1.9043	25.203	.50632	.50715	49.345
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
Avg	2.0370	46.571	2.0507	.48370	.49213	.98576	47.189
SDev	.0129	.223	.0154	.00542	.00085	.00553	.394
%RSD	.63175	.47940	.75109	1.1209	.17334	.56095	.83462
#1	2.0511	46.782	2.0680	.48989	.49145	.99175	47.522
#2	2.0342	46.593	2.0456	.47976	.49185	.98469	47.290
#3	2.0258	46.338	2.0386	.48147	.49308	.98084	46.754
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
Avg	.99755	1.9907	2.0410	Q3.1812	1.9883	1.9959	1.9648
SDev	.00466	.0138	.0147	.0719	.0136	.0116	.0126
%RSD	.46677	.69153	.72125	2.2606	.68342	.58141	.64036
#1	1.0007	2.0061	2.0580	Q3.1016	2.0034	2.0066	1.9785
#2	.99220	1.9865	2.0326	Q3.2006	1.9844	1.9977	1.9619
#3	.99976	1.9796	2.0324	Q3.2415	1.9771	1.9836	1.9538
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass

Analysis Report

QC Standard

04/10/06 05:20:55 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	2.0127	2.0243	Q25.872	2.0177	.50710	.48970
SDev	.0112	.0118	.399	.0082	.00162	.00154
%RSD	.55650	.58102	1.5404	.40852	.31931	.31362

#1	2.0248	2.0378	Q25.753	2.0261	.50851	.49128
#2	2.0105	2.0190	Q26.317	2.0172	.50533	.48821
#3	2.0027	2.0161	Q25.547	2.0097	.50746	.48961

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	20170	--	--	--	--	--	--
SDev	263.4480	--	--	--	--	--	--
%RSD	1.306126	--	--	--	--	--	--

#1	19867	--	--	--	--	--	--
#2	20344	--	--	--	--	--	--
#3	20299	--	--	--	--	--	--

Analysis Report

04/10/06 05:27:02 PM

page 1

Method: TRA20505 Sample Name: CCB5

Operator:

Run Time: 04/10/06 17:20:59

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03268	-.00121	-.00196	-.00011	.00047	-.00018	-.00596
SDev	.00031	.00057	.00114	.00010	.00009	.00013	.00109
%RSD	.94034	47.356	58.082	89.191	18.092	74.561	18.331

#1	.03233	-.00180	-.00087	.00000	.00040	-.00009	-.00471
#2	.03292	-.00119	-.00314	-.00016	.00045	-.00033	-.00675
#3	.03280	-.00065	-.00187	-.00017	.00056	-.00012	-.00643

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10500	.01400	.00330	.00160	.00180	.00082	.06500
Low	-.10500	-.01400	-.00330	-.00160	-.00180	-.00082	-.06500

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	-.00107	-.00237	-.01102	-.00041	-.00009	-.00403
SDev	.00061	.00043	.00035	.00575	.00211	.00118	.00354
%RSD	375.13	40.084	14.832	52.203	516.85	1244.7	87.747

#1	.00053	-.00059	-.00198	-.00438	-.00082	.00010	-.00004
#2	-.00041	-.00121	-.00266	-.01442	-.00228	.00097	-.00528
#3	-.00061	-.00141	-.00247	-.01427	.00188	-.00136	-.00677

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00360	.00220	.00700	.04900			.04900
Low	-.00360	-.00220	-.00700	-.04900			-.04900

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00007	-.01668	-.00006	.00066	-.00029	-.00028	-.57689
SDev	.00008	.00615	.00047	.00211	.00094	.00036	.22425
%RSD	108.51	36.883	745.71	321.90	322.62	129.88	38.873

#1	.00002	-.00997	.00021	-.00096	-.00103	.00008	-.35114
#2	-.00013	-.02205	-.00060	-.00012	.00076	-.00064	-.79962
#3	-.00011	-.01803	.00021	.00304	-.00061	-.00027	-.57991

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00180	.32200	.00380			.00970	1.4730
Low	-.00180	-.32200	-.00380			-.00970	-1.4730

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00405	-.00132	-.00088	H1.1079	-.00020	.00003	-.00002
SDev	.00046	.00111	.00015	.0074	.00082	.00010	.00006
%RSD	11.296	83.591	17.547	.66530	414.21	297.24	340.41

#1	.00418	-.00008	-.00072	H1.1070	.00064	.00010	.00005
#2	.00443	-.00220	-.00103	H1.1156	-.00101	-.00008	-.00005
#3	.00354	-.00168	-.00089	H1.1009	-.00023	.00008	-.00005

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
--------	---------	---------	---------	---------	---------	---------	---------

Analysis Report

04/10/06 05:27:02 PM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00013	.00085	H15.733	.00345	.00028	.00038
SDev	.00013	.00117	.446	.00141	.00009	.00087
%RSD	99.906	137.50	2.8377	40.791	30.459	229.27

#1	.00001	.00095	H15.859	.00363	.00028	-.00062
#2	-.00023	-.00036	H16.102	.00476	.00037	.00081
#3	-.00016	.00196	H15.237	.00196	.00020	.00094

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.00160	.00770	.05500	.02100	.00370	.00430
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20752	--	--	--	--	--	--
SDev	91.05210	--	--	--	--	--	--
%RSD	.4387564	--	--	--	--	--	--

#1	20673	--	--	--	--	--	--
#2	20732	--	--	--	--	--	--
#3	20852	--	--	--	--	--	--

Analysis Report

04/10/06 05:33:09 PM

page 1

Method: TRA20505 Sample Name: H2HV8S

Operator:

Run Time: 04/10/06 17:27:06

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.7700	.47999	.09667	.12242	.04864	.04922	50.002
SDev	.0162	.00193	.00248	.00093	.00057	.00073	.702
%RSD	.58631	.40270	2.5709	.76079	1.1668	1.4903	1.4030
#1	2.7887	.48213	.09405	.12343	.04814	.04850	49.405
#2	2.7597	.47947	.09899	.12222	.04852	.04919	49.828
#3	2.7615	.47837	.09698	.12160	.04926	.04997	50.775
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.20618	.09410	.24815	1.2273	.08291	.09444	9.0735
SDev	.00317	.00120	.00155	.0161	.00355	.00158	.1335
%RSD	1.5380	1.2806	.62400	1.3113	4.2850	1.6676	1.4718
#1	.20340	.09325	.24960	1.2148	.07974	.09509	8.9713
#2	.20551	.09356	.24832	1.2216	.08223	.09264	9.0246
#3	.20963	.09548	.24652	1.2455	.08675	.09559	9.2246
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.10902	47.607	.53078	.18321	.16403	.04954	48.441
SDev	.00092	.471	.00496	.00129	.00080	.00272	.280
%RSD	.84474	.99026	.93484	.70522	.48856	5.4909	.57767
#1	.10850	47.997	.52659	.18190	.16450	.04747	48.673
#2	.10848	47.742	.52948	.18325	.16310	.04853	48.520
#3	.11009	47.083	.53626	.18449	.16448	.05262	48.130
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47708	.20147	.56815	H125.68	.53299	.10321	.49705
SDev	.00756	.00263	.00309	.70	.00320	.00128	.00215
%RSD	1.5844	1.3035	.54434	.55467	.59980	1.2373	.43332
#1	.46887	.20016	.56584	H126.17	.52937	.10451	.49914
#2	.47860	.19976	.56694	H124.88	.53416	.10318	.49716
#3	.48375	.20449	.57166	H125.99	.53544	.10195	.49484
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 05:33:09 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.11344	.59087	H1051.9	4.8987	.09110	.17078	
SDev	.00043	.00922	14.3	.0306	.00180	.00066	
%RSD	.38071	1.5610	1.3620	.62467	1.9801	.38387	
#1	.11314	.58123	H1040.0	4.8743	.09037	.17064	
#2	.11325	.59179	H1047.9	4.8889	.08977	.17021	
#3	.11394	.59960	H1067.8	4.9331	.09315	.17150	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19992	--	--	--	--	--	--
SDev	310.1377	--	--	--	--	--	--
%RSD	1.551310	--	--	--	--	--	--
#1	20238	--	--	--	--	--	--
#2	20094	--	--	--	--	--	--
#3	19644	--	--	--	--	--	--

Analysis Report

04/10/06 05:39:16 PM

page 1

Method: TRA20505 Sample Name: H2HV8D

Operator:

Run Time: 04/10/06 17:33:13

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.7317	.48114	.09532	.11847	.04819	.04821	49.213
SDev	.0255	.00638	.00075	.00113	.00007	.00030	.117
%RSD	.93430	1.3266	.78490	.95220	.14488	.62356	.23860
#1	2.7032	.47425	.09448	.11718	.04813	.04817	49.214
#2	2.7524	.48233	.09590	.11926	.04827	.04853	49.331
#3	2.7397	.48685	.09559	.11896	.04817	.04793	49.096
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.20284	.09177	.24834	1.1770	.08258	.09082	8.9142
SDev	.00208	.00030	.00229	.0130	.00231	.00107	.0326
%RSD	1.0230	.32314	.92334	1.1046	2.8027	1.1767	.36532
#1	.20445	.09146	.24572	1.1622	.08525	.09004	8.9065
#2	.20357	.09182	.24939	1.1866	.08112	.09038	8.9500
#3	.20050	.09205	.24993	1.1823	.08138	.09204	8.8862
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.10689	47.873	.51959	.16521	.14518	.04650	48.421
SDev	.00023	.779	.00114	.00253	.00250	.00034	.169
%RSD	.21194	1.6276	.21867	1.5345	1.7240	.72240	.34906
#1	.10678	46.983	.51840	.16447	.14241	.04672	48.260
#2	.10715	48.435	.51971	.16804	.14585	.04666	48.597
#3	.10674	48.199	.52066	.16313	.14728	.04611	48.405
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47271	.19741	.55410	H125.12	.52741	.10419	.49781
SDev	.00514	.00236	.00178	.85	.00139	.00105	.00407
%RSD	1.0868	1.1934	.32130	.68054	.26337	1.0104	.81867
#1	.47009	.19473	.55208	H124.16	.52583	.10301	.49312
#2	.47863	.19918	.55542	H125.79	.52844	.10503	.49978
#3	.46942	.19832	.55481	H125.42	.52797	.10453	.50052
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 05:39:16 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11197	.58508	H1044.0	4.8950	.08852	.15220
SDev	.00293	.00346	5.2	.0529	.00063	.00185
%RSD	2.6170	.59060	.50205	1.0805	.71484	1.2132

#1	.10976	.58109	H1038.5	4.8422	.08884	.15010
#2	.11530	.58716	H1048.9	4.9480	.08779	.15358
#3	.11087	.58699	H1044.5	4.8948	.08893	.15290

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20372	--	--	--	--	--	--
SDev	94.13034	--	--	--	--	--	--
%RSD	.4620667	--	--	--	--	--	--

#1	20385	--	--	--	--	--	--
#2	20271	--	--	--	--	--	--
#3	20458	--	--	--	--	--	--

Analysis Report

04/10/06 05:45:23 PM

page 1

Method: TRA20505 Sample Name: H2HWQ

Operator:

Run Time: 04/10/06 17:39:20

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.84771	.03362	.02446	.05052	.00104	.05706	2.2693
SDev	.00749	.00087	.00106	.00031	.00014	.00034	.0126
%RSD	.88297	2.5798	4.3344	.62040	13.185	.58760	.55394
#1	.84902	.03412	.02481	.05045	.00108	.05705	2.2679
#2	.85445	.03262	.02530	.05086	.00089	.05740	2.2826
#3	.83966	.03411	.02327	.05025	.00116	.05673	2.2576
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.17964	.00257	1.0014	3.4602	2.3108	2.3456	.23429
SDev	.00243	.00053	.0072	.0236	.0046	.0173	.00583
%RSD	1.3498	20.780	.72121	.68260	.19700	.73794	2.4893
#1	.17911	.00317	.99589	3.4719	2.3150	2.3340	.24048
#2	.18229	.00239	1.0096	3.4758	2.3114	2.3655	.23348
#3	.17752	.00215	.99876	3.4331	2.3060	2.3373	.22890
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.37836	42.853	.08390	.03569	.01744	.01191	21.715
SDev	.00375	.235	.00062	.00101	.00090	.00053	.324
%RSD	.99066	.54744	.73528	2.8225	5.1766	4.4119	1.4939
#1	.37674	42.623	.08366	.03459	.01650	.01217	21.618
#2	.38264	43.092	.08460	.03590	.01754	.01226	22.076
#3	.37568	42.842	.08344	.03657	.01829	.01131	21.449
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09625	.01147	1.1652	H123.73	.10094	.05271	.00894
SDev	.00452	.00185	.0071	.86	.00048	.00023	.00002
%RSD	4.6984	16.108	.60775	.69314	.47500	.44409	.26736
#1	.10134	.01360	1.1631	H123.30	.10086	.05254	.00895
#2	.09272	.01048	1.1730	H124.72	.10146	.05298	.00896
#3	.09467	.01032	1.1593	H123.18	.10051	.05261	.00891
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 05:45:23 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01251	.20901	H1074.8	.27644	2.3344	.02387
SDev	.00018	.00036	9.1	.00105	.0116	.00094
%RSD	1.4318	.17033	.84874	.37940	.49866	3.9209

#1	.01271	.20867	H1070.7	.27747	2.3281	.02287
#2	.01238	.20938	H1085.2	.27537	2.3479	.02401
#3	.01243	.20897	H1068.4	.27648	2.3273	.02473

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20055	--	--	--	--	--	--
SDev	123.2840	--	--	--	--	--	--
%RSD	.6147419	--	--	--	--	--	--

#1	20032	--	--	--	--	--	--
#2	19944	--	--	--	--	--	--
#3	20187	--	--	--	--	--	--

Analysis Report

04/10/06 05:51:31 PM

page 1

Method: TRA20505 Sample Name: H2HWQA

Operator:

Run Time: 04/10/06 17:45:27

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.8801	.48890	.11990	.15008	.05072	.10571	50.523
SDev	.0092	.00155	.00313	.00104	.00067	.00308	1.144
%RSD	.31847	.31710	2.6133	.69219	1.3177	2.9109	2.2649
#1	2.8906	.48780	.11859	.15071	.05023	.10417	49.888
#2	2.8761	.49067	.12347	.14888	.05148	.10926	51.844
#3	2.8737	.48821	.11763	.15065	.05045	.10372	49.837
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.37671	.10154	1.2245	4.2825	2.3094	2.3455	9.1028
SDev	.01018	.00212	.0127	.0972	.0653	.0789	.2550
%RSD	2.7024	2.0854	1.0332	2.2686	2.8279	3.3641	2.8013
#1	.37325	.10112	1.2322	4.2494	2.2725	2.3062	8.9812
#2	.38817	.10383	1.2099	4.3919	2.3848	2.4364	9.3959
#3	.36871	.09966	1.2313	4.2063	2.2709	2.2940	8.9314
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.46547	87.520	.58759	.17363	.15556	.06053	67.759
SDev	.00700	.285	.01221	.00632	.00205	.00425	.288
%RSD	1.5036	.32536	2.0779	3.6395	1.3205	7.0198	.42575
#1	.46203	87.688	.58056	.17595	.15672	.05827	68.039
#2	.47352	87.191	.60169	.17845	.15676	.06543	67.775
#3	.46086	87.680	.58052	.16647	.15318	.05789	67.463
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48745	.21344	1.6341	H120.41	.58325	.15888	.51570
SDev	.01537	.00338	.0248	1.13	.00277	.00202	.00313
%RSD	3.1534	1.5832	1.5156	.94056	.47407	1.2698	.60630
#1	.48153	.21387	1.6227	H120.09	.58315	.16011	.51757
#2	.50490	.21657	1.6625	H121.66	.58606	.15655	.51209
#3	.47592	.20986	1.6170	H119.47	.58053	.15998	.51744
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 05:51:31 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11364	.68480	H1046.4	5.1681	2.3340	.16192
SDev	.00061	.01467	21.4	.0754	.0743	.00347
%RSD	.53310	2.1416	2.0428	1.4585	3.1817	2.1406

#1	.11355	.67887	H1034.9	5.1230	2.2956	.16347
#2	.11429	.70150	H1071.1	5.2551	2.4196	.16434
#3	.11309	.67402	H1033.3	5.1261	2.2868	.15795

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20075	--	--	--	--	--	--
SDev	554.9159	--	--	--	--	--	--
%RSD	2.764255	--	--	--	--	--	--

#1	20346	--	--	--	--	--	--
#2	19436	--	--	--	--	--	--
#3	20442	--	--	--	--	--	--

Analysis Report

04/10/06 05:57:38 PM

page 1

Method: TRA20505 Sample Name: H2HW4

Operator:

Run Time: 04/10/06 17:51:34

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92810	.03484	.03360	.05414	.00117	.09012	1.8984
SDev	.01017	.00278	.00103	.00034	.00011	.00081	.0221
%RSD	1.0962	7.9720	3.0714	.62822	9.5054	.90181	1.1665
#1	.92362	.03316	.03305	.05453	.00108	.08944	1.8775
#2	.93974	.03804	.03479	.05392	.00112	.09102	1.9216
#3	.92093	.03330	.03295	.05396	.00129	.08991	1.8962
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.35384	-.00009	1.0930	3.6796	6.8695	6.9195	.18771
SDev	.00201	.00091	.0090	.0507	.0706	.0848	.01261
%RSD	.56875	1017.9	.82037	1.3769	1.0272	1.2249	6.7207
#1	.35215	-.00078	1.1033	3.6336	6.8331	6.8296	.17496
#2	.35607	.00094	1.0868	3.7339	6.9508	6.9979	.20019
#3	.35331	-.00043	1.0891	3.6713	6.8245	6.9310	.18798
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.39374	53.671	.08448	.04654	.02338	.00950	26.534
SDev	.00079	.546	.00193	.00170	.00183	.00190	.218
%RSD	.20083	1.0165	2.2848	3.6516	7.8235	19.989	.82001
#1	.39406	54.284	.08443	.04798	.02159	.00767	26.702
#2	.39432	53.237	.08643	.04466	.02332	.01146	26.612
#3	.39284	53.493	.08257	.04697	.02525	.00937	26.288
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09696	.01460	1.2611	H122.91	.12373	.04836	.01020
SDev	.00322	.00348	.0071	.48	.00075	.00057	.00008
%RSD	3.3169	23.813	.56180	.39282	.60259	1.1869	.76392
#1	.09929	.01127	1.2565	H123.46	.12321	.04900	.01018
#2	.09829	.01821	1.2693	H122.68	.12458	.04791	.01029
#3	.09329	.01431	1.2576	H122.58	.12339	.04816	.01014
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 05:57:38 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01481	.25266	H1093.4	.26433	6.9032	.03146
SDev	.00057	.00242	8.8	.00522	.0760	.00119
%RSD	3.8532	.95808	.80646	1.9765	1.1007	3.7692

#1	.01427	.25397	H1085.1	.26059	6.8311	.03072
#2	.01541	.25414	H1102.6	.27030	6.9826	.03083
#3	.01474	.24986	H1092.5	.26209	6.8959	.03283

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20093	--	--	--	--	--	--
SDev	222.1603	--	--	--	--	--	--
%RSD	1.105669	--	--	--	--	--	--

#1	20283	--	--	--	--	--	--
#2	19849	--	--	--	--	--	--
#3	20147	--	--	--	--	--	--

Analysis Report

04/10/06 06:03:45 PM

page 1

Method: TRA20505 Sample Name: H2HW4A

Operator:

Run Time: 04/10/06 17:57:42

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.2560	.53499	.14509	.16733	.05768	.14495	57.512
SDev	.0134	.00345	.00135	.00022	.00083	.00304	1.114
%RSD	.41061	.64403	.92799	.13155	1.4424	2.0967	1.9368
#1	3.2488	.53292	.14425	.16739	.05701	.14240	56.648
#2	3.2478	.53309	.14438	.16751	.05742	.14414	57.120
#3	3.2714	.53897	.14664	.16708	.05861	.14832	58.769
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.57635	.11343	1.3469	4.7013	6.7887	6.8043	10.406
SDev	.01055	.00270	.0034	.0880	.1187	.1594	.230
%RSD	1.8307	2.3774	.25156	1.8721	1.7488	2.3427	2.2129
#1	.56745	.11130	1.3504	4.6302	6.6861	6.6746	10.220
#2	.57359	.11253	1.3466	4.6741	6.7614	6.7561	10.334
#3	.58801	.11646	1.3436	4.7997	6.9187	6.9823	10.664
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.49743	105.69	.65789	.20291	.18326	.05895	79.551
SDev	.00824	.11	.00991	.00369	.00103	.00250	.083
%RSD	1.6562	.10714	1.5056	1.8201	.56092	4.2394	.10391
#1	.49009	105.82	.64963	.19875	.18265	.05616	79.483
#2	.49585	105.60	.65517	.20581	.18445	.05971	79.527
#3	.50634	105.66	.66887	.20416	.18269	.06098	79.643
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54584	.24663	1.8017	H120.32	.65459	.16919	.58541
SDev	.00649	.00442	.0245	.90	.00944	.00191	.00104
%RSD	1.1891	1.7931	1.3580	.75140	1.4417	1.1296	.17814
#1	.54198	.24361	1.7827	H119.47	.64875	.17074	.58421
#2	.54221	.24456	1.7931	H120.23	.64954	.16976	.58600
#3	.55334	.25170	1.8293	H121.27	.66547	.16705	.58602
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 06:03:45 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12597	.78107	H1077.1	5.6323	6.7995	.19018
SDev	.00143	.01111	20.7	.0560	.1458	.00178
%RSD	1.1328	1.4220	1.9185	.99433	2.1444	.93503

#1	.12482	.77343	H1060.3	5.5873	6.6788	.18836
#2	.12552	.77597	H1070.9	5.6145	6.7582	.19191
#3	.12757	.79381	H1100.2	5.6950	6.9616	.19025

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19726	--	--	--	--	--	--
SDev	436.5222	--	--	--	--	--	--
%RSD	2.212876	--	--	--	--	--	--

#1	20047	--	--	--	--	--	--
#2	19903	--	--	--	--	--	--
#3	19229	--	--	--	--	--	--

Analysis Report

04/10/06 06:09:52 PM

page 1

Method: TRA20505 Sample Name: H2HXA

Operator:

Run Time: 04/10/06 18:03:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.71157	.02979	.00175	.01889	.00037	-.00128	.30440
SDev	.00528	.00153	.00042	.00020	.00013	.00015	.00413
%RSD	.74229	5.1380	23.907	1.0733	35.446	11.492	1.3558
#1	.71124	.03155	.00206	.01899	.00052	-.00119	.30743
#2	.70647	.02907	.00193	.01866	.00030	-.00120	.30606
#3	.71702	.02876	.00128	.01903	.00029	-.00145	.29970
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	700.00	20.000	30.000	30.000	10.000	40.000	600.00
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	.00184	-.00439	-.00029	.13061	-.01960	-.00309	.05024
SDev	.00301	.00032	.00049	.00983	.00255	.00063	.00309
%RSD	163.88	7.3941	169.54	7.5275	13.029	20.239	6.1505
#1	-.00142	-.00454	-.00011	.13708	-.01666	-.00330	.05304
#2	.00453	-.00402	-.00084	.11929	-.02080	-.00359	.04693
#3	.00241	-.00462	.00009	.13545	-.02132	-.00239	.05075
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	100.00	100.00	50.000	1400.0			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	.00367	.19156	.03630	.03764	.00859	.00051	-.25098
SDev	.00018	.03138	.00046	.00308	.00253	.00203	.48458
%RSD	4.8152	16.383	1.2604	8.1846	29.473	397.55	193.08
#1	.00358	.18464	.03645	.03447	.01124	-.00011	-.74988
#2	.00388	.22582	.03578	.04062	.00621	.00277	.21789
#3	.00356	.16421	.03666	.03783	.00831	-.00114	-.22095
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	30.000	200.00	100.00			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09832	-.00031	.00237	H122.56	.05422	-.00006	.00311
SDev	.00258	.00095	.00020	.31	.00020	.00037	.00007
%RSD	2.6235	303.77	8.2526	.25163	.37129	578.75	2.1319
#1	.09644	-.00032	.00242	H122.35	.05399	-.00044	.00316
#2	.10126	-.00126	.00253	H122.91	.05437	.00030	.00303
#3	.09726	.00064	.00215	H122.41	.05431	-.00005	.00313
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

Analysis Report

04/10/06 06:09:52 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00896	.11888	H1123.9	.10371	L-.00813	.01862
SDev	.00018	.00258	10.8	.00253	.00078	.00069
%RSD	1.9673	2.1724	.95897	2.4357	9.6503	3.6886

#1	.00905	.11931	H1121.2	.10469	L-.00731	.01937
#2	.00876	.12121	H1135.7	.10559	L-.00887	.01802
#3	.00907	.11610	H1114.7	.10084	L-.00821	.01848

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Low	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20347	--	--	--	--	--	--
SDev	286.2532	--	--	--	--	--	--
%RSD	1.406845	--	--	--	--	--	--

#1	20531	--	--	--	--	--	--
#2	20017	--	--	--	--	--	--
#3	20494	--	--	--	--	--	--

Errors LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass

Analysis Report

04/10/06 06:15:59 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01267	.01928	15.760	.45219	.00190	.00514	
SDev	.00012	.00030	2.462	.00301	.00121	.00072	
%RSD	.95078	1.5787	15.622	.66480	63.882	14.084	
#1	.01280	.01949	18.601	.45276	.00054	.00592	
#2	.01257	.01893	14.238	.44894	.00229	.00449	
#3	.01264	.01941	14.443	.45487	.00286	.00502	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20178	--	--	--	--	--	--
SDev	88.00601	--	--	--	--	--	--
%RSD	.4361429	--	--	--	--	--	--
#1	20096	--	--	--	--	--	--
#2	20168	--	--	--	--	--	--
#3	20271	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 06:22:06 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.12326	.50797	21.000	5.4322	.10120	.15179	
SDev	.00074	.00857	.132	.0067	.00263	.00281	
%RSD	.60183	1.6871	.62709	.12421	2.6002	1.8544	
#1	.12411	.51785	21.079	5.4397	.10413	.15503	
#2	.12288	.50256	21.073	5.4267	.10045	.15026	
#3	.12278	.50349	20.848	5.4302	.09903	.15006	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20095	--	--	--	--	--	--
SDev	624.5648	--	--	--	--	--	--
%RSD	3.107987	--	--	--	--	--	--
#1	19383	--	--	--	--	--	--
#2	20354	--	--	--	--	--	--
#3	20549	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 06:28:13 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00249	.00397	11.663	.09120	.00081	.00091	
SDev	.00004	.00163	.098	.00132	.00010	.00062	
%RSD	1.4970	40.981	.83895	1.4507	12.459	68.620	
#1	.00249	.00296	11.606	.08970	.00079	.00021	
#2	.00246	.00311	11.776	.09174	.00091	.00112	
#3	.00253	.00585	11.607	.09217	.00072	.00139	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20907	--	--	--	--	--	--
SDev	160.7235	--	--	--	--	--	--
%RSD	.7687368	--	--	--	--	--	--
#1	20743	--	--	--	--	--	--
#2	21064	--	--	--	--	--	--
#3	20915	--	--	--	--	--	--

Analysis Report

QC Standard

04/10/06 06:34:19 PM

page 1

Method: TRA20505 Sample Name: CCV6

Operator:

Run Time: 04/10/06 18:28:16

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.130	.48355	.49160	1.9958	2.0431	.51865	50.374
SDev	.089	.00100	.00063	.0074	.0053	.00213	.184
%RSD	.36792	.20697	.12807	.37220	.26073	.41025	.36428
#1	24.111	.48437	.49127	1.9950	2.0411	.51868	50.324
#2	24.052	.48244	.49120	1.9889	2.0491	.52077	50.577
#3	24.226	.48386	.49232	2.0037	2.0390	.51651	50.220
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	2.0243	2.0170	1.9221	25.371	.50869	.50402	49.737
SDev	.0040	.0018	.0080	.049	.00638	.00579	.125
%RSD	.19814	.08733	.41664	.19446	1.2539	1.1497	.25195
#1	2.0263	2.0168	1.9212	25.342	.51559	.49778	49.694
#2	2.0270	2.0188	1.9146	25.428	.50748	.50923	49.879
#3	2.0197	2.0153	1.9305	25.342	.50300	.50504	49.639
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	2.0398	46.707	2.0529	.48509	.49049	.98884	47.304
SDev	.0016	.148	.0048	.00191	.00386	.00124	.294
%RSD	.07774	.31686	.23143	.39408	.78744	.12548	.62181
#1	2.0387	46.673	2.0508	.48654	.48692	.98746	47.523
#2	2.0416	46.579	2.0583	.48292	.48995	.98920	46.969
#3	2.0391	46.869	2.0495	.48580	.49459	.98987	47.418
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	.99663	1.9918	2.0484	Q3.3080	1.9948	2.0021	1.9655
SDev	.00643	.0005	.0020	.0166	.0059	.0105	.0056
%RSD	.64540	.02269	.09882	.50327	.29821	.52631	.28744
#1	1.0037	1.9916	2.0465	Q3.2892	1.9879	2.0108	1.9653
#2	.99505	1.9923	2.0505	Q3.3141	1.9981	1.9904	1.9599
#3	.99113	1.9915	2.0481	Q3.3208	1.9983	2.0052	1.9712
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass

Analysis Report

QC Standard

04/10/06 06:34:19 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	2.0160	2.0275	Q11.784	2.0746	.50604	.48906
SDev	.0039	.0064	.324	.0097	.00267	.00259
%RSD	.19297	.31602	2.7526	.46993	.52847	.53046

#1	2.0129	2.0249	Q11.636	2.0788	.50416	.48715
#2	2.0147	2.0348	Q12.156	2.0815	.50910	.48801
#3	2.0203	2.0228	Q11.560	2.0634	.50486	.49201

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	19992	--	--	--	--	--	--
SDev	98.32638	--	--	--	--	--	--
%RSD	.4918174	--	--	--	--	--	--

#1	19965	--	--	--	--	--	--
#2	19911	--	--	--	--	--	--
#3	20102	--	--	--	--	--	--

Analysis Report

04/10/06 06:40:27 PM

page 1

Method: TRA20505 Sample Name: CCB6

Operator:

Run Time: 04/10/06 18:34:23

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02347	-.00247	-.00034	-.00009	.00050	-.00006	-.00511
SDev	.00461	.00302	.00023	.00003	.00007	.00018	.00081
%RSD	19.626	122.18	68.026	35.364	14.171	328.32	15.908

#1	.02687	-.00506	-.00046	-.00010	.00042	-.00006	-.00605
#2	.01823	-.00320	-.00007	-.00005	.00054	.00013	-.00475
#3	.02532	.00085	-.00048	-.00011	.00054	-.00024	-.00455

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10500	.01400	.00330	.00160	.00180	.00082	.06500
Low	-.10500	-.01400	-.00330	-.00160	-.00180	-.00082	-.06500

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	-.00070	-.00211	-.00840	.00329	-.00133	-.00247
SDev	.00022	.00040	.00022	.00539	.00361	.00138	.00193
%RSD	48.859	56.631	10.378	64.172	109.53	103.79	78.085

#1	.00071	-.00112	-.00235	-.01236	.00514	-.00125	-.00399
#2	.00035	-.00033	-.00205	-.01058	.00560	-.00276	-.00313
#3	.00031	-.00064	-.00192	-.00226	-.00086	.00001	-.00030

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00360	.00220	.00700	.04900			.04900
Low	-.00360	-.00220	-.00700	-.04900			-.04900

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.06760	-.00010	.00329	-.00060	.00551	-.32256
SDev	.00004	.03244	.00068	.00275	.00106	.00211	.14005
%RSD	210.86	47.985	712.06	83.544	175.76	38.221	43.419

#1	.00005	.03918	.00002	.00360	-.00056	.00366	-.28022
#2	.00005	.06068	-.00082	.00588	-.00168	.00506	-.20856
#3	-.00003	.10293	.00052	.00040	.00043	.00780	-.47890

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00180	.32200	.00380			.00970	1.4730
Low	-.00180	-.32200	-.00380			-.00970	-1.4730

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00194	-.00069	-.00088	H1.3372	.00036	.00001	-.00003
SDev	.00191	.00027	.00004	.0468	.00041	.00006	.00002
%RSD	98.408	38.903	4.9002	3.5032	113.93	832.83	57.612

#1	.00237	-.00100	-.00083	H1.2968	.00082	.00007	-.00005
#2	.00360	-.00056	-.00089	H1.3262	.00021	-.00000	-.00002
#3	-.00015	-.00051	-.00092	H1.3886	.00004	-.00005	-.00002

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
--------	---------	---------	---------	---------	---------	---------	---------

Analysis Report

04/10/06 06:40:27 PM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00016	.00129	H7.0409	.00985	.00074	.00106	
SDev	.00003	.00148	.0896	.00153	.00056	.00025	
%RSD	19.679	114.66	1.2720	15.546	74.806	23.235	
#1	-.00019	.00088	H6.9549	.00888	.00137	.00123	
#2	-.00013	.00293	H7.1336	.00905	.00053	.00118	
#3	-.00015	.00006	H7.0343	.01161	.00033	.00078	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	.00160	.00770	.05500	.02100	.00370	.00430	
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19954	--	--	--	--	--	--
SDev	246.7957	--	--	--	--	--	--
%RSD	1.236822	--	--	--	--	--	--
#1	20129	--	--	--	--	--	--
#2	20061	--	--	--	--	--	--
#3	19672	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 06:46:34 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.12197	.50537	7.6165	5.4237	.10341	.15264	
SDev	.00056	.00242	.2107	.0218	.00064	.00049	
%RSD	.46308	.47921	2.7665	.40163	.61839	.31757	
#1	.12240	.50807	7.8312	5.4389	.10270	.15209	
#2	.12217	.50465	7.6082	5.3987	.10359	.15297	
#3	.12133	.50339	7.4100	5.4334	.10393	.15287	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20262	--	--	--	--	--	--
SDev	96.87578	--	--	--	--	--	--
%RSD	.4781198	--	--	--	--	--	--
#1	20151	--	--	--	--	--	--
#2	20305	--	--	--	--	--	--
#3	20330	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 06:52:41 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.01487	.01842	2.9360	.42491	.00105	.00495	
SDev	.00013	.00120	.1605	.00534	.00011	.00109	
%RSD	.88092	6.4995	5.4650	1.2564	10.569	22.057	
#1	.01502	.01899	3.0730	.42868	.00092	.00495	
#2	.01480	.01924	2.9755	.42724	.00113	.00386	
#3	.01478	.01705	2.7594	.41880	.00109	.00604	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20427	--	--	--	--	--	--
SDev	271.2750	--	--	--	--	--	--
%RSD	1.328011	--	--	--	--	--	--
#1	20211	--	--	--	--	--	--
#2	20339	--	--	--	--	--	--
#3	20732	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 06:58:49 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20616	.01221	2.3310	1.4601	.00753	.00613
SDev	.00075	.00101	.0534	.0161	.00080	.00120
%RSD	.36122	8.2643	2.2911	1.1057	10.581	19.600

#1	.20592	.01138	2.3734	1.4544	.00739	.00497
#2	.20557	.01333	2.3485	1.4475	.00838	.00603
#3	.20700	.01192	2.2710	1.4783	.00681	.00737

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20620	--	--	--	--	--	--
SDev	33.79183	--	--	--	--	--	--
%RSD	.1638759	--	--	--	--	--	--

#1	20605	--	--	--	--	--	--
#2	20659	--	--	--	--	--	--
#3	20597	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 07:04:56 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.28359	.38441	2.1725	6.0091	.09559	.13338
SDev	.00085	.00253	.0575	.0241	.00056	.00132
%RSD	.30042	.65857	2.6487	.40100	.58637	.99228

#1	.28328	.38155	2.2037	5.9832	.09507	.13472
#2	.28456	.38533	2.2077	6.0308	.09618	.13335
#3	.28294	.38636	2.1061	6.0134	.09554	.13207

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20546	--	--	--	--	--	--
SDev	51.50906	--	--	--	--	--	--
%RSD	.2506987	--	--	--	--	--	--

#1	20530	--	--	--	--	--	--
#2	20505	--	--	--	--	--	--
#3	20604	--	--	--	--	--	--

	Al	Sb	As	Ba	Be	Cd	Ca
Elem Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.1901	.11973	.10161	.35360	.05455	.04764	56.221
SDev	.0317	.00101	.00161	.00149	.00003	.00022	.116
%RSD	.44109	.84504	1.5861	.42054	.05768	.45843	.20616
#1	7.2243	.11870	.10195	.35525	.05459	.04740	56.133
#2	7.1842	.11977	.09986	.35318	.05453	.04768	56.178
#3	7.1617	.12072	.10303	.35237	.05453	.04783	56.352
Errors High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
Low	700.00	20.000	30.000	30.000	10.000	40.000	600.00
	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem Units	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21125	.10591	.32748	10.020	.09665	.09689	12.719
SDev	.00048	.00083	.00093	.003	.00293	.00129	.017
%RSD	.22585	.77991	.28548	.02672	3.0260	1.3326	.13677
#1	.21164	.10540	.32834	10.023	.09501	.09659	12.703
#2	.21072	.10548	.32762	10.019	.10003	.09578	12.737
#3	.21140	.10687	.32648	10.018	.09492	.09830	12.717
Errors High	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
Low	100.00	100.00	50.000	1400.0			700.00
	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem Units	Mn	K_	Ni	Se/1	Se/2	Ag	Na
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.3399	55.871	.55189	.13573	.13579	.04602	53.896
SDev	.0012	.311	.00225	.00014	.00245	.00047	.212
%RSD	.09287	.55694	.40749	.09966	1.8029	1.0095	.39315
#1	1.3407	56.164	.55117	.13585	.13715	.04553	54.140
#2	1.3405	55.903	.55010	.13559	.13296	.04607	53.752
#3	1.3385	55.545	.55442	.13576	.13725	.04646	53.798
Errors High	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
Low	30.000	200.00	100.00			4.0000	800.00
	-.01500	-5.0000	-.04000			-.02000	-5.0000
Elem Units	Tl	V_	Zn	B_	Mo	Li	Sr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.28150	.22037	.61496	1.6762	.35886	.10793	.61220
SDev	.00345	.00068	.00029	.0292	.00124	.00091	.00240
%RSD	1.2256	.31013	.04727	1.7426	.34534	.84158	.39175
#1	.28028	.22038	.61515	1.7047	.35928	.10887	.61497
#2	.27882	.21969	.61510	1.6775	.35746	.10785	.61096
#3	.28539	.22106	.61463	1.6463	.35983	.10706	.61068
Errors High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
Low							

Analysis Report

04/10/06 07:11:03 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.34528	.39078	1.8223	5.7549	.09733	.13613	
SDev	.00056	.00127	.0543	.0368	.00068	.00169	
%RSD	.16345	.32602	2.9812	.63932	.69627	1.2411	
#1	.34587	.38942	1.8845	5.7408	.09655	.13711	
#2	.34524	.39195	1.7983	5.7967	.09778	.13418	
#3	.34474	.39096	1.7841	5.7272	.09767	.13709	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20450	--	--	--	--	--	--
SDev	47.56800	--	--	--	--	--	--
%RSD	.2326011	--	--	--	--	--	--
#1	20410	--	--	--	--	--	--
#2	20503	--	--	--	--	--	--
#3	20439	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 07:17:10 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.29490	.01357	2.1669	2.3337	.00878	.00554	
SDev	.00080	.00038	.0229	.0106	.00069	.00088	
%RSD	.27248	2.8027	1.0587	.45567	7.8278	15.906	
#1	.29422	.01398	2.1879	2.3238	.00936	.00477	
#2	.29578	.01348	2.1703	2.3449	.00896	.00534	
#3	.29469	.01324	2.1424	2.3324	.00802	.00650	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20557	--	--	--	--	--	--
SDev	96.67183	--	--	--	--	--	--
%RSD	.4702535	--	--	--	--	--	--
#1	20449	--	--	--	--	--	--
#2	20636	--	--	--	--	--	--
#3	20587	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 07:23:18 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38873	.01661	2.0987	2.1104	.01079	.00480
SDev	.00189	.00076	.0182	.0198	.00070	.00136
%RSD	.48553	4.5773	.86658	.93664	6.4783	28.275

#1	.38718	.01578	2.1117	2.0906	.01026	.00373
#2	.39083	.01676	2.1066	2.1302	.01158	.00632
#3	.38817	.01728	2.0780	2.1103	.01052	.00433

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	40.000	40.000	70.000	30.000
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20321	--	--	--	--	--	--
SDev	80.96015	--	--	--	--	--	--
%RSD	.3984029	--	--	--	--	--	--

#1	20229	--	--	--	--	--	--
#2	20381	--	--	--	--	--	--
#3	20353	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 07:29:25 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.04167	.00271	.97892	.30823	.00175	.00080	
SDev	.00017	.00133	.01612	.00168	.00025	.00102	
%RSD	.40965	48.918	1.6467	.54365	14.108	128.31	
#1	.04170	.00353	.99727	.30891	.00184	.00019	
#2	.04148	.00343	.97249	.30632	.00194	.00023	
#3	.04182	.00118	.96701	.30946	.00147	.00197	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20066	--	--	--	--	--	--
SDev	202.8503	--	--	--	--	--	--
%RSD	1.010911	--	--	--	--	--	--
#1	19832	--	--	--	--	--	--
#2	20188	--	--	--	--	--	--
#3	20178	--	--	--	--	--	--

Analysis Report

QC Standard

04/10/06 07:35:31 PM

page 1

Method: TRA20505 Sample Name: CCV7

Operator:

Run Time: 04/10/06 19:29:28

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.221	.48612	.49177	1.9980	2.0621	.52184	50.958
SDev	.160	.00207	.00206	.0093	.0075	.00453	.253
%RSD	.66088	.42656	.41982	.46358	.36408	.86875	.49710
#1	24.045	.48560	.49142	1.9894	2.0701	.52694	51.180
#2	24.358	.48436	.48991	2.0078	2.0552	.51825	50.682
#3	24.261	.48841	.49399	1.9968	2.0611	.52035	51.014
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	2.0395	2.0396	1.9195	25.595	.51599	.50774	50.128
SDev	.0119	.0021	.0165	.092	.00569	.00387	.307
%RSD	.58231	.10241	.86208	.36081	1.1021	.76137	.61248
#1	2.0530	2.0384	1.9020	25.686	.52226	.50876	50.465
#2	2.0306	2.0384	1.9349	25.502	.51454	.50347	49.865
#3	2.0348	2.0420	1.9216	25.598	.51117	.51099	50.053
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	2.0552	46.252	2.0720	.48629	.49137	.99228	47.369
SDev	.0077	.331	.0055	.00157	.00369	.00214	.304
%RSD	.37263	.71582	.26354	.32202	.75052	.21516	.64113
#1	2.0641	45.915	2.0783	.48807	.49111	.99417	47.037
#2	2.0504	46.577	2.0686	.48512	.48783	.99269	47.632
#3	2.0513	46.264	2.0690	.48569	.49519	.98997	47.438
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	1.0020	2.0067	2.0569	Q2.2184	2.0098	1.9868	1.9718
SDev	.0063	.0027	.0031	.0208	.0087	.0093	.0143
%RSD	.62659	.13381	.14827	.93873	.43201	.46959	.72305
#1	1.0070	2.0065	2.0603	Q2.2401	2.0006	1.9817	1.9568
#2	.99495	2.0041	2.0546	Q2.2164	2.0109	1.9975	1.9851
#3	1.0040	2.0095	2.0556	2.1986	2.0178	1.9811	1.9734
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass

Analysis Report

QC Standard

04/10/06 07:35:31 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	2.0363	2.0435	Q2.7595	2.1438	.51096	.49007
SDev	.0040	.0114	.0102	.0162	.00309	.00260
%RSD	.19867	.55951	.36862	.75608	.60457	.53144

#1	2.0319	2.0550	Q2.7503	2.1577	.51377	.49051
#2	2.0399	2.0321	Q2.7577	2.1478	.50766	.48727
#3	2.0373	2.0433	Q2.7704	2.1260	.51145	.49243

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	19760	--	--	--	--	--	--
SDev	342.4236	--	--	--	--	--	--
%RSD	1.732923	--	--	--	--	--	--

#1	19366	--	--	--	--	--	--
#2	19991	--	--	--	--	--	--
#3	19922	--	--	--	--	--	--

Analysis Report

04/10/06 07:41:39 PM

page 1

Method: TRA20505 Sample Name: CCB7

Operator:

Run Time: 04/10/06 19:35:35

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02537	-.00038	-.00101	-.00005	.00037	-.00003	-.00410
SDev	.00683	.00150	.00043	.00007	.00010	.00009	.00123
%RSD	26.914	398.63	42.593	140.43	26.951	348.00	29.920

#1	.03315	.00099	-.00052	.00001	.00026	.00007	-.00332
#2	.02034	-.00197	-.00134	-.00012	.00044	-.00003	-.00551
#3	.02263	-.00014	-.00116	-.00003	.00043	-.00011	-.00346

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10500	.01400	.00330	.00160	.00180	.00082	.06500
Low	-.10500	-.01400	-.00330	-.00160	-.00180	-.00082	-.06500

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	-.00019	-.00151	.00211	.00085	-.00074	-.00095
SDev	.00069	.00045	.00050	.01121	.00266	.00055	.00403
%RSD	309.09	235.73	33.328	532.61	313.23	73.631	422.51

#1	.00083	.00010	-.00115	.01033	.00297	-.00082	.00158
#2	-.00052	-.00072	-.00208	-.01067	.00173	-.00016	-.00560
#3	.00036	.00004	-.00129	.00665	-.00214	-.00125	.00116

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00360	.00220	.00700	.04900			.04900
Low	-.00360	-.00220	-.00700	-.04900			-.04900

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.01205	-.00012	.00023	.00006	.00201	-.32470
SDev	.00014	.02920	.00080	.00123	.00114	.00191	.19273
%RSD	180.18	242.43	663.05	527.56	1808.0	94.936	59.356

#1	.00022	.04269	.00078	.00165	.00122	.00402	-.12167
#2	-.00006	-.01546	-.00074	-.00039	.00002	.00020	-.50514
#3	.00007	.00891	-.00040	-.00056	-.00106	.00183	-.34729

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00180	.32200	.00380			.00970	1.4730
Low	-.00180	-.32200	-.00380			-.00970	-1.4730

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00121	-.00026	-.00083	H.16098	.00081	-.00001	-.00000
SDev	.00166	.00127	.00011	.01046	.00133	.00003	.00003
%RSD	136.26	485.33	13.793	6.4947	163.54	226.75	3597.2

#1	-.00041	.00097	-.00088	H.17284	.00233	-.00002	.00002
#2	.00116	-.00158	-.00091	H.15702	-.00016	-.00005	-.00003
#3	.00290	-.00018	-.00070	H.15309	.00027	.00002	.00001

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
--------	---------	---------	---------	---------	---------	---------	---------

Analysis Report

04/10/06 07:41:39 PM

page 2

High	.01000	.00500	.00380	.03100	.00880	.00270	.00130
Low	-.01000	-.00500	-.00380	-.03100	-.00880	-.00270	-.00130

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00009	.00069	H.69455	.00716	.00031	.00048
SDev	.00021	.00155	.03349	.00229	.00119	.00115
%RSD	222.24	224.60	4.8223	32.022	386.52	240.17

#1	.00012	.00221	H.73292	.00977	.00104	.00171
#2	-.00029	-.00089	H.67119	.00550	.00095	.00027
#3	-.00011	.00075	H.67953	.00620	-.00106	-.00055

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.00160	.00770	.05500	.02100	.00370	.00430
Low	-.00160	-.00770	-.05500	-.02100	-.00370	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20509	--	--	--	--	--	--
SDev	360.6981	--	--	--	--	--	--
%RSD	1.758723	--	--	--	--	--	--

#1	20116	--	--	--	--	--	--
#2	20825	--	--	--	--	--	--
#3	20586	--	--	--	--	--	--

Analysis Report

04/10/06 07:47:46 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00011	-.00061	.66979	-.02394	.00146	-.00041	
SDev	.00011	.00349	.12123	.00594	.00057	.00069	
%RSD	102.00	567.21	18.100	24.804	39.433	167.83	
#1	-.00019	-.00461	.53922	-.01711	.00212	.00022	
#2	.00002	.00183	.69139	-.02788	.00120	-.00114	
#3	-.00017	.00093	.77877	-.02683	.00106	-.00031	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	28683	--	--	--	--	--	--
SDev	2228.792	--	--	--	--	--	--
%RSD	7.770522	--	--	--	--	--	--
#1	26141	--	--	--	--	--	--
#2	30303	--	--	--	--	--	--
#3	29604	--	--	--	--	--	--

[illegible]

Analysis Report

04/10/06 07:53:54 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00058	.00027	.67118	-.02147	.00168	-.00053	
SDev	.00012	.00169	.08952	.00639	.00032	.00024	
%RSD	20.183	626.31	13.338	29.753	18.911	45.058	
#1	-.00063	-.00165	.58355	-.01877	.00188	-.00028	
#2	-.00068	.00092	.76247	-.01687	.00184	-.00076	
#3	-.00045	.00154	.66751	-.02876	.00131	-.00054	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	27167	--	--	--	--	--	--
SDev	2616.943	--	--	--	--	--	--
%RSD	9.632645	--	--	--	--	--	--
#1	26180	--	--	--	--	--	--
#2	25188	--	--	--	--	--	--
#3	30134	--	--	--	--	--	--

Errors LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass LC Pass

Analysis Report

04/10/06 08:00:01 PM

page 2

High	70.000	100.00	10.000	40.000	40.000	5.0000	10.000
Low	-.03500	-.02500	-.02000	-.50000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00022	.00036	.57851	-.02100	.00128	-.00002	
SDev	.00036	.00456	.15597	.01093	.00089	.00044	
%RSD	165.62	1267.0	26.961	52.065	69.321	2199.3	
#1	-.00005	-.00151	.42610	-.02439	.00213	.00024	
#2	-.00063	-.00296	.73782	-.00877	.00134	.00023	
#3	.00003	.00556	.57161	-.02983	.00036	-.00053	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	40.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-1.0000	-.30000	-.00400	-.01000	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	27344	--	--	--	--	--	--
SDev	4578.283	--	--	--	--	--	--
%RSD	16.74330	--	--	--	--	--	--
#1	29172	--	--	--	--	--	--
#2	22134	--	--	--	--	--	--
#3	30726	--	--	--	--	--	--

Raw Data Mercury

STL Knoxville

Mercury Analysis Cover Sheet

Analyst	BNC	Instrument	Leeman Hydra AA Mercury Analyzer
Run Date	042406	Chart Name	H042406.prn

Daily Maintenance		As Needed Maintenance	
☒	Check tubing.	☐	Adjust/change Hg lamp.
☒	Check maintenance schedule flags.	☐	Clean or replace optical cell.
		☐	Lubricate pump and autosampler arm.
		☐	Change the drying tube.

SEP's, steps 4-6

+ air reprep H2HV7 (HCl fan)

STL Knoxville

Method Information

Method Name: 7pt.std/SW-846 7470A/7471A/0.2 RL

Element: Hg

Chart Number: H042406.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

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): 0.059

Prep Blank Check Level (ug/L): 0.099

Reporting Limit (ug/L): 0.2

IDL (ug/L): 0.06

Date of IDL: 12/8/2005

STL Knoxville Mercury Data Review Checklist

Method: 7pt.std/SW-846 7470A/7471A/0.2 RL

Analyst:	BNC			Instrument:	Leeman Hydra AA Mercury Analyzer		
Run Date:	Apr-24-06	Calibration Number:	1	Chart Name:	H042406.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 39 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 0.9999
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			
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 H3R5PC at 4/24/2006 2:56:12 PM had 118.2% recovery.	} Step 4, SEP's
C4	Method LCS H3R5PL at 4/24/2006 3:01:59 PM had 117.2% recovery.	
C4	Method LCS H3R50C at 4/24/2006 3:05:35 PM had 116.6% recovery.	} Step 5, SEP's
C4	Method LCS H3R50L at 4/24/2006 3:07:37 PM had 112.2% recovery.	

Analyst: BNCDate: 042406

STL Knoxville Mercury Data Review Checklist

Analyst Comments:

SEP's fall under different "control limits". NCM doesn't apply.

```

-----
:      Instrument Upload                      Run Log - Page 1 :
:      Started Mon Apr 24 15:23:55 2006 by CROMBIEB          :
:      Data File: UPL$KNX_DATA_ROOT:<LHG>H042406.PRN;1      :
-----

```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	CK2ICV	1.00	24-APR-2006	14:29:18			HG
2	ICB	1.00	24-APR-2006	14:31:04			HG
3	CRA	1.00	24-APR-2006	14:32:50			HG
4	CK3CCV	1.00	24-APR-2006	14:35:02			HG
5	CK1CCB	1.00	24-APR-2006	14:37:00			HG
6	H3TL4B	0.05	24-APR-2006	14:38:47	6111407	H6D210000	HG
7	H3TL4C	0.05	24-APR-2006	14:40:36	6111407	H6D210000	HG
8	H2HV72AA	1.00	24-APR-2006	14:42:42	6111407	H6D030224	HG
9	H2HV71AE	1.00	24-APR-2006	14:44:44	6111407	H6D030224	HG
10	H2HV71AF	1.00	24-APR-2006	14:46:40	6111407	H6D030224	HG
11	H2HV72AA	3.50	24-APR-2006	14:48:32	6111407	H6D030224	HG
12	H2HV71AE	3.50	24-APR-2006	14:50:34	6111407	H6D030224	HG
13	H2HV71AF	3.50	24-APR-2006	14:52:26	6111407	H6D030224	HG
14	H3R5PB	1.00	24-APR-2006	14:54:26	6111334	H6D210000	HG
15	H3R5PC	1.00	24-APR-2006	14:56:12	6111334	H6D210000	HG
16	CK3CCV	1.00	24-APR-2006	14:58:00			HG
17	CK1CCB	1.00	24-APR-2006	15:00:12			HG
18	H3R5PL	1.00	24-APR-2006	15:01:59	6111334	H6D210000	HG
19	H3R50B	1.00	24-APR-2006	15:03:49	6111335	H6D210000	HG
20	H3R50C	1.00	24-APR-2006	15:05:35	6111335	H6D210000	HG
21	H3R50L	1.00	24-APR-2006	15:07:37	6111335	H6D210000	HG
22	H3R54B	1.00	24-APR-2006	15:09:29	6111336	H6D210000	HG
23	H3R54C	1.00	24-APR-2006	15:11:26	6111336	H6D210000	HG
24	H3R54L	1.00	24-APR-2006	15:13:55	6111336	H6D210000	HG
25	H2T01	1.00	24-APR-2006	15:15:52	6111334	H6D070246	HG
26	H2T22	1.00	24-APR-2006	15:17:40	6111334	H6D070246	HG
27	H2T8N	1.00	24-APR-2006	15:19:29	6111334	H6D070246	HG
28	CK3CCV	1.00	24-APR-2006	15:21:16			HG
29	CK1CCB	1.00	24-APR-2006	15:23:02			HG
30	H2VCL	1.00	24-APR-2006	15:25:01	6111334	H6D070246	HG
31	H2VCLX	1.00	24-APR-2006	15:26:58	6111334	H6D070246	HG
32	H2VC0	1.00	24-APR-2006	15:28:47	6111334	H6D070246	HG
33	H2VDJ	1.00	24-APR-2006	15:30:53	6111334	H6D070246	HG
34	H2VEC	1.00	24-APR-2006	15:32:44	6111334	H6D070246	HG
35	H2VE1	1.00	24-APR-2006	15:34:34	6111334	H6D070246	HG
36	H2VFR	1.00	24-APR-2006	15:36:36	6111334	H6D070246	HG
37	H2VGC	1.00	24-APR-2006	15:38:23	6111334	H6D070246	HG
38	H2VGT	1.00	24-APR-2006	15:40:37	6111334	H6D070246	HG
39	H2VHD	1.00	24-APR-2006	15:42:27	6111334	H6D070246	HG
40	CK3CCV	1.00	24-APR-2006	15:44:19			HG
41	CK1CCB	1.00	24-APR-2006	15:46:06			HG
42	H2T07	1.00	24-APR-2006	15:48:13	6111335	H6D070246	HG
43	H2T23	1.00	24-APR-2006	15:50:06	6111335	H6D070246	HG
44	H2T8Q	1.00	24-APR-2006	15:51:53	6111335	H6D070246	HG

```

----- (continued) -----

```



```

-----
:      Instrument Upload                      Run Log - Page  2 :
:      Started Mon Apr 24 15:23:56 2006 by CROMBIEB             :
:      Data File: UPL$KNX_DATA_ROOT:<LHG>H042406.PRN;1         :
-----

```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	H2VCM	1.00	24-APR-2006	15:53:39	6111335	H6D070246	HG
46	H2VCMX	1.00	24-APR-2006	15:55:36	6111335	H6D070246	HG
47	H2VC5	1.00	24-APR-2006	15:57:25	6111335	H6D070246	HG
48	H2VDK	1.00	24-APR-2006	15:59:12	6111335	H6D070246	HG
49	H2VEE	1.00	24-APR-2006	16:01:10	6111335	H6D070246	HG
50	H2VE5	1.00	24-APR-2006	16:03:21	6111335	H6D070246	HG
51	H2VFW	1.00	24-APR-2006	16:05:10	6111335	H6D070246	HG
52	CK3CCV	1.00	24-APR-2006	16:06:59			HG
53	CK1CCB	1.00	24-APR-2006	16:09:08			HG
54	H2VGE	1.00	24-APR-2006	16:11:35	6111335	H6D070246	HG
55	H2VGW	1.00	24-APR-2006	16:13:48	6111335	H6D070246	HG
56	H2VHF	1.00	24-APR-2006	16:15:41	6111335	H6D070246	HG
57	H2T08	1.00	24-APR-2006	16:18:13	6111336	H6D070246	HG
58	H2T24	1.00	24-APR-2006	16:20:13	6111336	H6D070246	HG
59	H2T8R	1.00	24-APR-2006	16:22:01	6111336	H6D070246	HG
60	H2VCN	1.00	24-APR-2006	16:23:51	6111336	H6D070246	HG
61	H2VCNX	1.00	24-APR-2006	16:25:49	6111336	H6D070246	HG
62	H2VC7	1.00	24-APR-2006	16:27:37	6111336	H6D070246	HG
63	H2VDP	1.00	24-APR-2006	16:29:29	6111336	H6D070246	HG
64	CK3CCV	1.00	24-APR-2006	16:31:18			HG
65	CK1CCB	1.00	24-APR-2006	16:33:06			HG
66	H2VEG	1.00	24-APR-2006	16:35:54	6111336	H6D070246	HG
67	H2VE8	1.00	24-APR-2006	16:38:17	6111336	H6D070246	HG
68	H2VF1	1.00	24-APR-2006	16:40:15	6111336	H6D070246	HG
69	H2VGG	1.00	24-APR-2006	16:42:37	6111336	H6D070246	HG
70	H2VG1	1.00	24-APR-2006	16:44:29	6111336	H6D070246	HG
71	H2VHG	1.00	24-APR-2006	16:46:17	6111336	H6D070246	HG
72	CK3CCV	1.00	24-APR-2006	16:48:16			HG
73	CK1CCB	1.00	24-APR-2006	16:50:46			HG

```

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

```

WinHg Database 1.215

- [] x

File Utility Help



RN

RN



Protocol 7ptcurve

BUSY

Dataset/Proto H042406 /7ptcurve

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

A

☒ CalculatedRel. Abs.
1295010

New Cal

B

7.73240e-6

☒ Accepted

Accepted

Update Coeffs

C

-2.15327e-2

Accepted

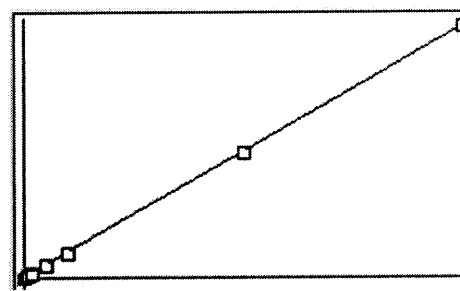
New

Spike Coeffs

rho

.999993

Type Lines

Include S1 Rep 1 ☒ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	
01	.00000	.014	.014	915	1	915			
02	.10000	.122	.022	18520	0%	18519			
03	.20000	.196	.004	28075	0%	28074			
04	.50000	.490	.010	66194	0%	66194			
05	1.0000	.998	.002	131861	0%	131861			
06	5.0000	5.02	.017	651598	0%	651597			

Ready

CAP NUM

WinHg Database 1.215

- [] x

File Utility Help



RN

RN



Protocol 7ptcurve

BUSY

Dataset/Proto H042406 /7ptcurve

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

A

☒ CalculatedRel. Abs.
1295010

New Cal

B

7.73240e-6

☒ Accepted

Accepted

Update Coeffs

C

-2.15327e-2

Accepted

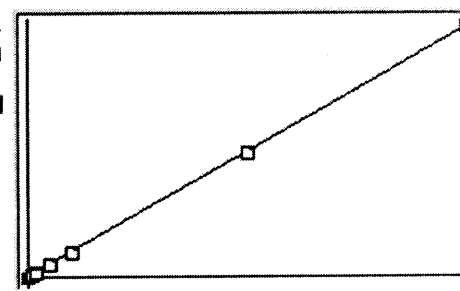
New

Spike Coeffs

rho

.999993

Type Lines

Include S1 Rep 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	
02	.10000	.122	.022	18520	0%	18519			
03	.20000	.196	.004	28075	0%	28074			
04	.50000	.490	.010	66194	0%	66194			
05	1.0000	.998	.002	131861	0%	131861			
06	5.0000	5.02	.017	651598	0%	651597			
07	10.000	9.99	.008	1295010	0%	1295010			

Ready

CAP NUM

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1				Seq: 0		14:11:46 24 Apr 06	HG	
Hg	.000	ppb	915					
*** Standard: 2 Rep: 1				Seq: 1		14:13:35 24 Apr 06	HG	
Hg	.100	ppb	18519					
*** Standard: 3 Rep: 1				Seq: 2		14:15:28 24 Apr 06	HG	
Hg	.200	ppb	28074					
*** Standard: 4 Rep: 1				Seq: 3		14:17:15 24 Apr 06	HG	
Hg	.500	ppb	66194					
*** Standard: 5 Rep: 1				Seq: 4		14:20:57 24 Apr 06	HG	
Hg	1.00	ppb	131861					
*** Standard: 6 Rep: 1				Seq: 5		14:23:25 24 Apr 06	HG	
Hg	5.00	ppb	651597					
*** Standard: 7 Rep: 1				Seq: 6		14:25:55 24 Apr 06	HG	
Hg	10.0	ppb	1295010					
*** Check Standard: 2 Ck2icv				Seq: 7		14:29:18 24 Apr 06	HG	
Line Flag %Rcv. Found True Units						SD/RSD		
Hg	101.		2.52	2.50	ppb	.000 %		
*** Sample ID: ICB				Seq: 8		14:31:04 24 Apr 06	HG	
			ICB					
Hg	-.023	ppb	.000 %	-.023				
*** Sample ID: CRA				Seq: 9		14:32:50 24 Apr 06	HG	
			CRA					
Hg	.203	ppb	.000 %	.203				
*** Check Standard: 3 Ck3ccv				Seq: 10		14:35:02 24 Apr 06	HG	
Line Flag %Rcv. Found True Units						SD/RSD		
Hg	101.		5.03	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb				Seq: 11		14:37:00 24 Apr 06	HG	
Line Flag Found Range(+/-) Units						SD/RSD		
Hg	-.021		.059	ppb		.000 %		
*** Sample ID: H3TL4B				Seq: 12		14:38:47 24 Apr 06	HG	
			6111407					
Hg	-.007	ppb	.000 %	-.007				
*** Sample ID: H3TL4C				Seq: 13		14:40:36 24 Apr 06	HG	
Hg	5.01	ppb	.000 %	5.01				
*** Sample ID: H2HV72AA				Seq: 14		14:42:42 24 Apr 06	HG	
			2mL prepped					
Hg	.985	ppb	.000 %	.985				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: H2HV71AE Seq: 15 14:44:44 24 Apr 06 HG								
					2mL prepped, MS			
Hg	1.92	ppb	.000 %	1.92				
*** Sample ID: H2HV71AF Seq: 16 14:46:40 24 Apr 06 HG								
					2mL prepped, MSD			
Hg	2.00	ppb	.000 %	2.00				
*** Sample ID: H2HV72AA Seq: 17 14:48:32 24 Apr 06 HG								
					5mL prepped			
Hg	2.51	ppb	.000 %	2.51				
*** Sample ID: H2HV71AE Seq: 18 14:50:34 24 Apr 06 HG								
					5mL prepped, MS			
Hg	3.48	ppb	.000 %	3.48				
*** Sample ID: H2HV71AF Seq: 19 14:52:26 24 Apr 06 HG								
					5mL prepped, MSD			
Hg	3.54	ppb	.000 %	3.54				
*** Sample ID: H3R5PB Seq: 20 14:54:26 24 Apr 06 HG								
					6111334			
Hg	-.009	ppb	.000 %	-.009				
*** Sample ID: H3R5PC Seq: 21 14:56:12 24 Apr 06 HG								
Hg	5.91	ppb	.000 %	5.91				
*** Check Standard: 3 Ck3ccv Seq: 22 14:58:00 24 Apr 06 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		98.5	4.92	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb Seq: 23 15:00:12 24 Apr 06 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.019	.059	ppb	.000 %			
*** Sample ID: H3R5PL Seq: 24 15:01:59 24 Apr 06 HG								
Hg	5.86	ppb	.000 %	5.86				
*** Sample ID: H3R50B Seq: 25 15:03:49 24 Apr 06 HG								
					6111335			
Hg	-.035	ppb	.000 %	-.035				
*** Sample ID: H3R50C Seq: 26 15:05:35 24 Apr 06 HG								
Hg	5.83	ppb	.000 %	5.83				
*** Sample ID: H3R50L Seq: 27 15:07:37 24 Apr 06 HG								
Hg	5.61	ppb	.000 %	5.61				
*** Sample ID: H3R54B Seq: 28 15:09:29 24 Apr 06 HG								
					6111336			
Hg	-.045	ppb	.000 %	-.045				
*** Sample ID: H3R54C Seq: 29 15:11:26 24 Apr 06 HG								
Hg	4.97	ppb	.000 %	4.97				

1796X

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: H3R54L				Seq: 30		15:13:55 24 Apr 06		HG
Hg	5.30	ppb	.000 %	5.30				
*** Sample ID: H2T01				Seq: 31		15:15:52 24 Apr 06		HG
Hg	.820	ppb	.000 %	.820				
*** Sample ID: H2T22				Seq: 32		15:17:40 24 Apr 06		HG
Hg	.637	ppb	.000 %	.637				
*** Sample ID: H2T8N				Seq: 33		15:19:29 24 Apr 06		HG
Hg	.652	ppb	.000 %	.652				
*** Check Standard: 3 Ck3ccv				Seq: 34		15:21:16 24 Apr 06		HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		98.6	4.93	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb				Seq: 35		15:23:02 24 Apr 06		HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.055	.059	ppb	.000 %			
*** Sample ID: H2VCL				Seq: 36		15:25:01 24 Apr 06		HG
Hg	.462	ppb	.000 %	.462				
*** Sample ID: H2VCLX				Seq: 37		15:26:58 24 Apr 06		HG
Hg	.413	ppb	.000 %	.413				
*** Sample ID: H2VC0				Seq: 38		15:28:47 24 Apr 06		HG
Hg	.460	ppb	.000 %	.460				
*** Sample ID: H2VDJ				Seq: 39		15:30:53 24 Apr 06		HG
Hg	.301	ppb	.000 %	.301				
*** Sample ID: H2VEC				Seq: 40		15:32:44 24 Apr 06		HG
Hg	.218	ppb	.000 %	.218				
*** Sample ID: H2VE1				Seq: 41		15:34:34 24 Apr 06		HG
Hg	.373	ppb	.000 %	.373				
*** Sample ID: H2VFR				Seq: 42		15:36:36 24 Apr 06		HG
Hg	.640	ppb	.000 %	.640				
*** Sample ID: H2VGC				Seq: 43		15:38:23 24 Apr 06		HG
Hg	.388	ppb	.000 %	.388				
*** Sample ID: H2VGT				Seq: 44		15:40:37 24 Apr 06		HG
Hg	.458	ppb	.000 %	.458				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: H2VHD				Seq: 45		15:42:27 24 Apr 06		HG
Hg	.310	ppb	.000 %	.310				
*** Check Standard: 3 Ck3ccv				Seq: 46		15:44:19 24 Apr 06		HG
Line Flag %Rcv. Found True Units					SD/RSD			
Hg	97.0	4.85	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1ccb				Seq: 47		15:46:06 24 Apr 06		HG
Line Flag Found Range(+/-) Units					SD/RSD			
Hg	-.043	.059		ppb	.000 %			
*** Sample ID: H2T07				Seq: 48		15:48:13 24 Apr 06		HG
Hg	.453	ppb	.000 %	.453				
*** Sample ID: H2T23				Seq: 49		15:50:06 24 Apr 06		HG
Hg	.425	ppb	.000 %	.425				
*** Sample ID: H2T8Q				Seq: 50		15:51:53 24 Apr 06		HG
Hg	.323	ppb	.000 %	.323				
*** Sample ID: H2VCM				Seq: 51		15:53:39 24 Apr 06		HG
Hg	.286	ppb	.000 %	.286				
*** Sample ID: H2VCMX				Seq: 52		15:55:36 24 Apr 06		HG
Hg	.307	ppb	.000 %	.307				
*** Sample ID: H2VC5				Seq: 53		15:57:25 24 Apr 06		HG
Hg	.301	ppb	.000 %	.301				
*** Sample ID: H2VDK				Seq: 54		15:59:12 24 Apr 06		HG
Hg	.077	ppb	.000 %	.077				
*** Sample ID: H2VEE				Seq: 55		16:01:10 24 Apr 06		HG
Hg	.059	ppb	.000 %	.059				
*** Sample ID: H2VE5				Seq: 56		16:03:21 24 Apr 06		HG
Hg	.209	ppb	.000 %	.209				
*** Sample ID: H2VFW				Seq: 57		16:05:10 24 Apr 06		HG
Hg	.366	ppb	.000 %	.366				
*** Check Standard: 3 Ck3ccv				Seq: 58		16:06:59 24 Apr 06		HG
Line Flag %Rcv. Found True Units					SD/RSD			
Hg	96.8	4.84	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1ccb				Seq: 59		16:09:08 24 Apr 06		HG
Line Flag Found Range(+/-) Units					SD/RSD			
Hg	-.018	.059		ppb	.000 %			

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: H2VGE				Seq: 60		16:11:35 24 Apr 06		HG
Hg	.228	ppb	.000 %	.228				
*** Sample ID: H2VGW				Seq: 61		16:13:48 24 Apr 06		HG
Hg	.145	ppb	.000 %	.145				
*** Sample ID: H2VHF				Seq: 62		16:15:41 24 Apr 06		HG
Hg	.179	ppb	.000 %	.179				
*** Sample ID: H2T08				Seq: 63		16:18:13 24 Apr 06		HG
Hg	.033	ppb	.000 %	.033				
*** Sample ID: H2T24				Seq: 64		16:20:13 24 Apr 06		HG
Hg	.043	ppb	.000 %	.043				
*** Sample ID: H2T8R				Seq: 65		16:22:01 24 Apr 06		HG
Hg	.062	ppb	.000 %	.062				
*** Sample ID: H2VCN				Seq: 66		16:23:51 24 Apr 06		HG
Hg	.026	ppb	.000 %	.026				
*** Sample ID: H2VCNX				Seq: 67		16:25:49 24 Apr 06		HG
Hg	.048	ppb	.000 %	.048				
*** Sample ID: H2VC7				Seq: 68		16:27:37 24 Apr 06		HG
Hg	.065	ppb	.000 %	.065				
*** Sample ID: H2VDP				Seq: 69		16:29:29 24 Apr 06		HG
Hg	-.009	ppb	.000 %	-.009				
*** Check Standard: 3 Ck3ccv				Seq: 70		16:31:18 24 Apr 06		HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg		95.6	4.78	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb				Seq: 71		16:33:06 24 Apr 06		HG
Line Flag Found Range(+/-) Units SD/RSD								
Hg		-.021	.059		ppb	.000 %		
*** Sample ID: H2VEG				Seq: 72		16:35:54 24 Apr 06		HG
Hg	.002	ppb	.000 %	.002				
*** Sample ID: H2VE8				Seq: 73		16:38:17 24 Apr 06		HG
Hg	.013	ppb	.000 %	.013				
*** Sample ID: H2VF1				Seq: 74		16:40:15 24 Apr 06		HG
Hg	.029	ppb	.000 %	.029				

STL - Knoxville
16:42:37 24 Apr 2006

Folder: H042406
Protocol: 7ptcurve

Page 6 427

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: H2VGG									
				Seq: 75	16:42:37 24 Apr 06			HG	
Hg	.046	ppb	.000 %	.046					
*** Sample ID: H2VG1									
				Seq: 76	16:44:29 24 Apr 06			HG	
Hg	.019	ppb	.000 %	.019					
*** Sample ID: H2VHG									
				Seq: 77	16:46:17 24 Apr 06			HG	
Hg	-.001	ppb	.000 %	-.001					
*** Check Standard: 3 Ck3ccv									
				Seq: 78	16:48:16 24 Apr 06			HG	
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		95.3	4.77	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1ccb									
				Seq: 79	16:50:46 24 Apr 06			HG	
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.011	.059	ppb	.000 %				

STL Knoxville **Mercury Analysis Cover Sheet**

Analyst	<i>BNC</i>	Instrument	Leeman Hydra AA Mercury Analyzer
Run Date	<i>041006</i>	Chart Name	<i>H041006.prm</i>

Daily Maintenance		As Needed Maintenance	
☒	Check tubing.	☐	Adjust/change Hg lamp.
☒	Check maintenance schedule flags.	☐	Clean or replace optical cell.
		☐	Lubricate pump and autosampler arm.
		☐	Change the drying tube.

STL Knoxville

Method Information

Method Name: 7pt.std/SW-846 7470A/7471A/0.2 RL

Element: Hg

Chart Number: H041006.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

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): 0.059

Prep Blank Check Level (ug/L): 0.099

Reporting Limit (ug/L): 0.2

IDL (ug/L): 0.06

Date of IDL: 12/8/2005

STL Knoxville Mercury Data Review Checklist

Method: 7pt.std/SW-846 7470A/7471A/0.2 RL

Analyst:	BNC			Instrument:	Leeman Hydra AA Mercury Analyzer		
Run Date:	Apr-10-06	Calibration Number:	1	Chart Name:	H041006.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 44 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 0.9994
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	X		BNC 041106 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	See Comments on Next Page
7.	Were post-digestion spike recoveries within QC limits?			X			
8.	Were duplicate RPDs within QC limits?					X	See Comments on Next Page

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 H2RMKC at 4/10/2006 3:34:17 PM had 84.2% recovery. | } passes for air matrix (80-120%) |
| C4 | Method LCS H2RMKL at 4/10/2006 3:36:07 PM had 84% recovery. | |
| C6 | Matrix spike sample H2HV7S at 4/10/2006 4:19:21 PM had 116% recovery. | } OS > 4x matrix spike level |
| C6 | Matrix spike sample H2HV7D at 4/10/2006 4:21:23 PM had 75% recovery. | |
| C6 | Matrix spike sample H2HWND at 4/10/2006 4:27:41 PM had 958% recovery. | } see analyst comments |
| C6 | Matrix spike sample H2HWPDP at 4/10/2006 4:33:13 PM had 382.5% recovery. | |

STL Knoxville Mercury Data Review Checklist

- C6 Could Not find the Original Sample for Matrix spike sample H2HWNSUC at 4/10/2006 5:35:58 PM
- C6 Could Not find the Original Sample for Matrix spike sample H2HWNDZ3UC at 4/10/2006 5:38:17 PM
- C6 Could Not find the Original Sample for Matrix spike sample H2HWPSUC at 4/10/2006 5:40:08 PM
- C6 Could Not find the Original Sample for Matrix spike sample H2HWPDUC at 4/10/2006 5:42:39 PM
- C7 Matrix spike duplicate H2HWND at 4/10/2006 4:27:41 PM exceeded the RPD range with -163.%. } contamination issue
- C7 Matrix spike duplicate H2HWPD at 4/10/2006 4:33:13 PM exceeded the RPD range with -113.%. }
- C7 Could Not find OS for MS Duplicate sample H2HWNDZ3UC at 4/10/2006 5:38:17 PM - as above
- C7 Matrix spike duplicate H2HWPDUC at 4/10/2006 5:42:39 PM exceeded the RPD range with -187.%. -contamination issue

these are contamination tests on original unfiltered, unspiked samples

Analyst: BNC Date: 041106

Analyst Comments: It's apparent from the MSD results for H2HWN (KMnO₄ fn) and H2HWP (HCl fn) that the MSD original bottle/run of the KMnO₄ fn was contaminated or bottle was mislabelled/spiked in the field. Naturally, this carried over into the HCl MSD fn/bottle. Unfiltered, uncooked, unspiked analysis of these two fns. verify our conclusion (see end of file).

STL KNOXVILLE

INTERMEDIATE STANDARD -- CALIBRATION

Stock Std Name: PLH64-24

Element: Hg

Stock Source: Spex

Stock Std Lot #: 11-118HGStock Std Expiration Date: 5/30/06

Stock Conc.: 1000 ppm

HNO₃ Lot B24037

Stock Vol (ml)/100ml: 1ml

Date Prepared: 3/22/06Expiration Date: 4/22/06 I-CAL-4014-16 = 10ppmQC Check: H032206-pmInitials: KNDMatrix: 2% HNO₃

WORKING STANDARD -- CALIBRATION

One ml Intermediate Standard/100ml 0.15% Concentrated Nitric Acid I-CAL-4014-16-X = 100ppb

1. I-CAL -4014-16-1	Initials <u>BNC</u>	Date: <u>032206</u>	Exp. Date: <u>032306</u>	HN03 Lot: <u>B24037</u>
2. I-CAL -4014-16-2	Initials <u>BNC</u>	Date: <u>032306</u>	Exp. Date: <u>032406</u>	HN03 Lot: <u>L</u>
3. I-CAL -4014-16-3	Initials <u>BNC</u>	Date: <u>032706</u>	Exp. Date: <u>032806</u>	HN03 Lot: <u>L</u>
4. I-CAL -4014-16-4	Initials <u>KND</u>	Date: <u>3/28/06</u>	Exp. Date: <u>3/29/06</u>	HN03 Lot: <u>B24037</u>
5. I-CAL -4014-16-5	Initials <u>BNC</u>	Date: <u>032906</u>	Exp. Date: <u>033006</u>	HN03 Lot: <u>L</u>
6. I-CAL -4014-16-6	Initials <u>BNC</u>	Date: <u>033006</u>	Exp. Date: <u>033106</u>	HN03 Lot: <u>L</u>
7. I-CAL -4014-16-7	Initials <u>BNC</u>	Date: <u>033106</u>	Exp. Date: <u>040106</u>	HN03 Lot: <u>L</u>
8. I-CAL -4014-16-8	Initials <u>KND</u>	Date: <u>4/3/06</u>	Exp. Date: <u>4/4/06</u>	HN03 Lot: <u>B24037 (3052 ppm)</u>
9. I-CAL -4014-16-9	Initials <u>BNC</u>	Date: <u>040406</u>	Exp. Date: <u>040506</u>	HN03 Lot: <u>L</u>
10. I-CAL -4014-16-10	Initials <u>BNC</u>	Date: <u>040506</u>	Exp. Date: <u>040606</u>	HN03 Lot: <u>L</u>
11. I-CAL -4014-16-11	Initials <u>BNC</u>	Date: <u>041006</u>	Exp. Date: <u>041106</u>	HN03 Lot: <u>L</u>
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:

Reviewed 11-16
DKW 4/5/06

STL KNOXVILLE

INTERMEDIATE STANDARD -- VERIFICATION

Stock Std Name: ICP-080
 Element: Hg
 Stock Source: Ultra
 Stock Std Lot #: D00413
 Stock Std Expiration Date: 8/2006
 Stock Conc.: 1000 ppm
 Acid Lot: B24037

Stock Vol (ml)/100ml: 1.0 ml
 Date Prepared: 3/22/06 ^{BNC 032206}
 Expiration Date: 4/22/06 ^{JEAT}
 QC Check: H032206.prm ^{IVER-4013-16 = 10ppm}
 Initials: ICND
 Matrix: 2% HNO₃

WORKING STANDARD -- VERIFICATION

1 ml Intermediate Standard/100 ml 0.15 % Concentrated Nitric Acid I-VER-4013-16-X = 100ppb

1. I-VER <u>-4013-16-1</u> ¹³ _{BNC 032206}	Initials <u>BNC</u>	Date: <u>032206</u> Exp. Date: <u>032306</u> HN03 Lot: <u>B24037</u>
2. I-VER <u>-4013-16-2</u> ¹³ _{BNC 032206}	Initials <u>BNC</u>	Date: <u>032306</u> Exp. Date: <u>032406</u> HN03 Lot: <u>I</u>
3. I-VER <u>-4013-16-3</u> ¹³ _{BNC 032206}	Initials <u>BNC</u>	Date: <u>032706</u> Exp. Date: <u>032806</u> HN03 Lot: <u>I</u>
4. I-VER <u>-4013-16-4</u>	Initials <u>ICND</u>	Date: <u>3/28/06</u> Exp. Date: <u>3/29/06</u> HN03 Lot: <u>B24037</u>
5. I-VER <u>-4013-16-5</u>	Initials <u>BNC</u>	Date: <u>032906</u> Exp. Date: <u>033006</u> HN03 Lot: <u>I</u>
6. I-VER <u>-4013-16-6</u>	Initials <u>BNC</u>	Date: <u>033006</u> Exp. Date: <u>033106</u> HN03 Lot: <u>I</u>
7. I-VER <u>-4013-16-7</u>	Initials <u>BNC</u>	Date: <u>033106</u> Exp. Date: <u>040106</u> HN03 Lot: <u>I</u>
8. I-VER <u>-4013-16-8</u>	Initials <u>BNC</u>	Date: <u>040406</u> Exp. Date: <u>040506</u> HN03 Lot: <u>I</u>
9. I-VER <u>-4013-16-9</u>	Initials <u>BNC</u>	Date: <u>040506</u> Exp. Date: <u>040606</u> HN03 Lot: <u>I</u>
10. I-VER <u>-4013-16-10</u>	Initials <u>BNC</u>	Date: <u>041006</u> Exp. Date: <u>041106</u> HN03 Lot: <u>I</u>
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: _____

MT047R6.doc, 01/14/02

*Reviewed 11-16
 DKW 4/3/06*

```

-----
:      Instrument Upload                      Run Log - Page 1 :
:      Started Tue Apr 11 07:15:50 2006 by CROMBIEB          :
:      Data File: UPL$KNX_DATA_ROOT:<LHG>H041006.PRN;1      :
-----

```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	CK2ICV	1.00	10-APR-2006	15:22:31			HG
2	ICB	1.00	10-APR-2006	15:24:39			HG
3	CRA	1.00	10-APR-2006	15:26:35			HG
4	CK3CCV	1.00	10-APR-2006	15:28:45			HG
5	CK1CCB	1.00	10-APR-2006	15:30:35			HG
6	H2RMKB	1.00	10-APR-2006	15:32:31	6097037	H6D070000	HG
7	H2RMKC	1.00	10-APR-2006	15:34:17	6097037	H6D070000	HG
8	H2RMKL	1.00	10-APR-2006	15:36:07	6097037	H6D070000	HG
9	H2MRB	0.050	10-APR-2006	15:37:54	6097041	H6D070000	HG
10	H2MRMC	0.050	10-APR-2006	15:39:53	6097041	H6D070000	HG
11	H2RMMB	1.00	10-APR-2006	15:41:41	6097038	H6D070000	HG
12	H2RMMC	1.00	10-APR-2006	15:43:37	6097038	H6D070000	HG
13	H2HV1	1.00	10-APR-2006	15:46:16	6097037	H6D030224	HG
14	H2HV1A	1.00	10-APR-2006	15:48:33	6097037	H6D030224	HG
15	H2HV8	1.00	10-APR-2006	15:50:32	6097037	H6D030224	HG
16	CK3CCV	1.00	10-APR-2006	15:52:20			HG
17	CK1CCB	1.00	10-APR-2006	15:54:31			HG
18	H2HV8S	1.00	10-APR-2006	15:56:16	6097037	H6D030224	HG
19	H2HV8D	1.00	10-APR-2006	15:58:02	6097037	H6D030224	HG
20	H2HWQ	1.00	10-APR-2006	16:00:01	6097037	H6D030224	HG
21	H2HWQA	1.00	10-APR-2006	16:01:57	6097037	H6D030224	HG
22	H2HW4	1.00	10-APR-2006	16:04:05	6097037	H6D030224	HG
23	H2HW4A	1.00	10-APR-2006	16:05:52	6097037	H6D030224	HG
24	H2HV6	0.72	10-APR-2006	16:07:41	6097041	H6D030224	HG
25	H2HV6S	0.72	10-APR-2006	16:09:31	6097041	H6D030224	HG
26	H2HV6D	0.72	10-APR-2006	16:11:31	6097041	H6D030224	HG
27	H2HV7	1.75	10-APR-2006	16:13:19	6097041	H6D030224	HG
28	CK3CCV	1.00	10-APR-2006	16:15:20			HG
29	CK1CCB	1.00	10-APR-2006	16:17:10			HG
30	H2HV7S	1.75	10-APR-2006	16:19:21	6097041	H6D030224	HG
31	H2HV7D	1.75	10-APR-2006	16:21:23	6097041	H6D030224	HG
32	H2HWN	0.20	10-APR-2006	16:23:11	6097041	H6D030224	HG
33	H2HWNS	0.20	10-APR-2006	16:25:14	6097041	H6D030224	HG
34	H2HWND	0.20	10-APR-2006	16:27:41	6097041	H6D030224	HG
35	H2HWP	0.75	10-APR-2006	16:29:37	6097041	H6D030224	HG
36	H2HWPS	0.75	10-APR-2006	16:31:25	6097041	H6D030224	HG
37	H2HWPD	0.75	10-APR-2006	16:33:13	6097041	H6D030224	HG
38	H2HW0	0.90	10-APR-2006	16:35:12	6097041	H6D030224	HG
39	H2HW2	1.75	10-APR-2006	16:37:01	6097041	H6D030224	HG
40	CK3CCV	1.00	10-APR-2006	16:38:49			HG
41	CK1CCB	1.00	10-APR-2006	16:41:36			HG
42	H2HW7	0.97	10-APR-2006	16:43:56	6097041	H6D030224	HG
43	H2HW8	1.60	10-APR-2006	16:46:04	6097041	H6D030224	HG
44	H2HV2	2.00	10-APR-2006	16:47:51	6097038	H6D030224	HG

```

----- (continued) -----

```

```

-----
:      Instrument Upload                      Run Log - Page  2 :
:      Started Tue Apr 11 07:15:51 2006 by CROMBIEB           :
:      Data File: UPL$KNX_DATA_ROOT:<LHG>H041006.PRN;1       :
-----

```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	H2HV2A	1.00	10-APR-2006	16:49:38	6097038	H6D030224	HG
46	H2HV3	2.10	10-APR-2006	16:51:35	6097038	H6D030224	HG
47	H2HV3S	2.10	10-APR-2006	16:53:22	6097038	H6D030224	HG
48	H2HV3D	2.10	10-APR-2006	16:55:09	6097038	H6D030224	HG
49	H2HWF	2.00	10-APR-2006	16:57:06	6097038	H6D030224	HG
50	H2HWFS	2.00	10-APR-2006	16:59:34	6097038	H6D030224	HG
51	H2HWFD	2.00	10-APR-2006	17:01:31	6097038	H6D030224	HG
52	CK3CCV	1.00	10-APR-2006	17:03:32			HG
53	CK1CCB	1.00	10-APR-2006	17:05:21			HG
54	H2HWL	2.00	10-APR-2006	17:09:04	6097038	H6D030224	HG
55	H2HWLS	2.00	10-APR-2006	17:10:54	6097038	H6D030224	HG
56	H2HWLD	2.00	10-APR-2006	17:13:16	6097038	H6D030224	HG
57	H2HWT	2.00	10-APR-2006	17:15:03	6097038	H6D030224	HG
58	H2HWTa	1.00	10-APR-2006	17:17:52	6097038	H6D030224	HG
59	H2HWV	4.00	10-APR-2006	17:19:39	6097038	H6D030224	HG
60	H2HW5	2.00	10-APR-2006	17:21:30	6097038	H6D030224	HG
61	H2HW5A	1.00	10-APR-2006	17:23:42	6097038	H6D030224	HG
62	H2HW6	2.40	10-APR-2006	17:25:32	6097038	H6D030224	HG
63	CK3CCV	1.00	10-APR-2006	17:27:21			HG
64	CK1CCB	1.00	10-APR-2006	17:29:52			HG
65	H2HWNA	1.00	10-APR-2006	17:31:41	6097041	H6D030224	HG
66	H2HWPA	1.00	10-APR-2006	17:33:29	6097041	H6D030224	HG
67	H2HWNSUC	1.00	10-APR-2006	17:35:58	6097041	H6D030224	HG
68	H2HWNDZ3UC	1.00	10-APR-2006	17:38:17	6097041	H6D030224	HG
69	H2HWPSUC	1.00	10-APR-2006	17:40:08	6097041	H6D030224	HG
70	H2HWPDUC	1.00	10-APR-2006	17:42:39	6097041	H6D030224	HG
71	CK3CCV	1.00	10-APR-2006	17:44:49			HG
72	CK1CCB	1.00	10-APR-2006	17:46:48			HG

```

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

```


WinHg Database 1.215

-|□|×

File Utility Help



RN ↵

RN ↵



Protocol 7ptcurve

BUSY

Dataset/Proto H041006 /7ptcurve

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

A

☒ Labored

Rel. Abs.

1263915

☒ Accepted

Accepted

New Cal

B 7.86542e-6

Accept

New

Update Coeffs

rho .999510

Type Linear

Spike Coeffs

Include S1 Rep ☐ ☐ ☐ ☐ ☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	
01	.00000	-.057	-.057	2061	0	2061			
02	.10000	.056	-.044	16359	0%	16359			
03	.20000	.155	-.045	28993	0%	28992			
04	.50000	.500	.000	72869	0%	72868			
05	1.0000	1.03	.035	140803	0%	140802			
06	5.0000	5.24	.242	675714	0%	675714			

Ready

WinHg Database 1.215

-|□|×

File Utility Help



RN ↵

RN ↵



Protocol 7ptcurve

BUSY

Dataset/Proto H041006 /7ptcurve

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

A

☐ Labored

Rel. Abs.

1263915

☐ Accepted

Accepted

New Cal

B 7.86542e-6

Accept

New

Update Coeffs

rho .999510

Type Linear

Spike Coeffs

Include S1 Rep ☒ ☐ ☐ ☐ ☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	
02	.10000	.056	-.044	16359	0%	16359			
03	.20000	.155	-.045	28993	0%	28992			
04	.50000	.500	.000	72869	0%	72868			
05	1.0000	1.03	.035	140803	0%	140802			
06	5.0000	5.24	.242	675714	0%	675714			
07	10.000	9.87	-.132	1263916	0%	1263915			

Ready

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 0		15:02:49 10 Apr 06	HG	
Hg	.000	ppb	2061					
*** Standard: 2 Rep: 1				Seq: 1		15:05:29 10 Apr 06	HG	
Hg	.100	ppb	16359					
*** Standard: 3 Rep: 1				Seq: 2		15:07:22 10 Apr 06	HG	
Hg	.200	ppb	28992					
*** Standard: 4 Rep: 1				Seq: 3		15:09:28 10 Apr 06	HG	
Hg	.500	ppb	72868					
*** Standard: 5 Rep: 1				Seq: 4		15:11:56 10 Apr 06	HG	
Hg	1.00	ppb	140802					
*** Standard: 6 Rep: 1				Seq: 5		15:14:15 10 Apr 06	HG	
Hg	5.00	ppb	675714					
*** Standard: 7 Rep: 1				Seq: 6		15:16:15 10 Apr 06	HG	
Hg	10.0	ppb	1263915					
*** Check Standard: 2 Ck2icv				Seq: 7		15:22:31 10 Apr 06	HG	
Line Flag %Rcv. Found True Units SD/RSD								
Hg		98.3	2.46	2.50	ppb	.000 %		
*** Sample ID: ICB				Seq: 8		15:24:39 10 Apr 06	HG	
			ICB					
Hg	-.060	ppb	.000 %	-.060				
*** Sample ID: CRA				Seq: 9		15:26:35 10 Apr 06	HG	
			CRA					
Hg	.155	ppb	.000 %	.155				
*** Check Standard: 3 Ck3ccv				Seq: 10		15:28:45 10 Apr 06	HG	
Line Flag %Rcv. Found True Units SD/RSD								
Hg		100.	5.01	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb				Seq: 11		15:30:35 10 Apr 06	HG	
Line Flag Found Range(+/-) Units SD/RSD								
Hg	<i>OK, 6/10/06</i>	-.085	.059	ppb		.000 %		
*** Sample ID: H2RMKB				Seq: 12		15:32:31 10 Apr 06	HG	
			6097037					
Hg	-.054	ppb	.000 %	-.054				
*** Sample ID: H2RMKC				Seq: 13		15:34:17 10 Apr 06	HG	
Hg	4.21	ppb	.000 %	4.21				
*** Sample ID: H2RMKL				Seq: 14		15:36:07 10 Apr 06	HG	
Hg	4.20	ppb	.000 %	4.20				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: H2RMRB				Seq: 15	15:37:54 10 Apr 06	HG		
			6097041					
Hg	-.092	ppb	.000 %	-.092				
*** Sample ID: H2RMRC				Seq: 16	15:39:53 10 Apr 06	HG		
Hg	5.30	ppb	.000 %	5.30				
*** Sample ID: H2RMMB				Seq: 17	15:41:41 10 Apr 06	HG		
			6097038					
Hg	-.094	ppb	.000 %	-.094				
*** Sample ID: H2RMMC				Seq: 18	15:43:37 10 Apr 06	HG		
Hg	5.35	ppb	.000 %	5.35				
*** Sample ID: H2HV1				Seq: 19	15:46:16 10 Apr 06	HG		
Hg	-.047	ppb	.000 %	-.047				
*** Sample ID: H2HV1A				Seq: 20	15:48:33 10 Apr 06	HG		
			PDS, 1ppb spike					
Hg	.964	ppb	.000 %	.964				
*** Sample ID: H2HV8				Seq: 21	15:50:32 10 Apr 06	HG		
Hg	-.062	ppb	.000 %	-.062				
*** Check Standard: 3 Ck3ccv				Seq: 22	15:52:20 10 Apr 06	HG		
Line Flag %Rcv. Found True Units					SD/RSD			
Hg		100.	5.01	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb				Seq: 23	15:54:31 10 Apr 06	HG		
Line Flag Found Range(+/-) Units					SD/RSD			
Hg	X	-.064	.059	ppb	.000 %			
		OK, BNC 041106						
*** Sample ID: H2HV8S				Seq: 24	15:56:16 10 Apr 06	HG		
Hg	.891	ppb	.000 %	.891				
*** Sample ID: H2HV8D				Seq: 25	15:58:02 10 Apr 06	HG		
Hg	.883	ppb	.000 %	.883				
*** Sample ID: H2HWQ				Seq: 26	16:00:01 10 Apr 06	HG		
Hg	-.061	ppb	.000 %	-.061				
*** Sample ID: H2HWQA				Seq: 27	16:01:57 10 Apr 06	HG		
			PDS, 1ppb spike					
Hg	.957	ppb	.000 %	.957				
*** Sample ID: H2HW4				Seq: 28	16:04:05 10 Apr 06	HG		
Hg	-.057	ppb	.000 %	-.057				
*** Sample ID: H2HW4A				Seq: 29	16:05:52 10 Apr 06	HG		
			PDS, 1ppb spike					
Hg	.971	ppb	.000 %	.971				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: H2HV6				Seq: 30	16:07:41 10 Apr 06	HG		
Hg	1.29	ppb	.000 %	1.29				
*** Sample ID: H2HV6S				Seq: 31	16:09:31 10 Apr 06	HG		
Hg	2.30	ppb	.000 %	2.30				
*** Sample ID: H2HV6D				Seq: 32	16:11:31 10 Apr 06	HG		
Hg	2.30	ppb	.000 %	2.30				
*** Sample ID: H2HV7				Seq: 33	16:13:19 10 Apr 06	HG		
Hg	4.81	ppb	.000 %	4.81				
*** Check Standard: 3 Ck3ccv				Seq: 34	16:15:20 10 Apr 06	HG		
Line Flag %Rcv. Found True Units SD/RSD								
Hg	98.8	4.94	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1ccb				Seq: 35	16:17:10 10 Apr 06	HG		
Line Flag Found Range(+/-) Units SD/RSD								
Hg	<u>X</u> -.087	.059	ppb	.000 %				
	OK, BNC 041106							
*** Sample ID: H2HV7S				Seq: 36	16:19:21 10 Apr 06	HG		
Hg	5.97	ppb	.000 %	5.97				
*** Sample ID: H2HV7D				Seq: 37	16:21:23 10 Apr 06	HG		
Hg	5.56	ppb	.000 %	5.56				
*** Sample ID: <u>H2HWN</u> <i>KMnO₄ blank train</i>				Seq: 38	16:23:11 10 Apr 06	HG		
	<i>OS bottle</i>							
Hg	-.087	ppb	.000 %	-.087				
*** Sample ID: <u>H2HWNS</u> <i>MS bottle</i>				Seq: 39	16:25:14 10 Apr 06	HG		
Hg	.968	ppb	.000 %	.968				
*** Sample ID: <u>H2HWND</u> <i>see end of file</i>				Seq: 40	16:27:41 10 Apr 06	HG		
	<i>MSD bottle</i>							
Hg	<u>9.58</u>	ppb	.000 %	9.58				
*** Sample ID: <u>H2HWP</u> <i>HCl blank train</i>				Seq: 41	16:29:37 10 Apr 06	HG		
	<i>OS bottle</i>							
Hg	.025	ppb	.000 %	.025				
*** Sample ID: <u>H2HWPS</u> <i>MS bottle</i>				Seq: 42	16:31:25 10 Apr 06	HG		
Hg	1.06	ppb	.000 %	1.06				
*** Sample ID: <u>H2HWPD</u> <i>see end of file</i>				Seq: 43	16:33:13 10 Apr 06	HG		
	<i>MSD bottle</i>							
Hg	<u>3.85</u>	ppb	.000 %	3.85				
*** Sample ID: H2HW0				Seq: 44	16:35:12 10 Apr 06	HG		
Hg	.763	ppb	.000 %	.763				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: H2HWL					Seq: 60	17:09:04 10 Apr 06	HG	
Hg	-.058	ppb	.000 %	-.058				
*** Sample ID: H2HWLS					Seq: 61	17:10:54 10 Apr 06	HG	
Hg	.934	ppb	.000 %	.934				
*** Sample ID: H2HWLD					Seq: 62	17:13:16 10 Apr 06	HG	
Hg	.928	ppb	.000 %	.928				
*** Sample ID: H2HWT					Seq: 63	17:15:03 10 Apr 06	HG	
Hg	.870	ppb	.000 %	.870				
*** Sample ID: H2HWTa					Seq: 64	17:17:52 10 Apr 06	HG	
Hg	1.77	ppb	.000 %	1.77	PDS, 1ppb spike			
*** Sample ID: H2HWV					Seq: 65	17:19:39 10 Apr 06	HG	
Hg	-.025	ppb	.000 %	-.025				
*** Sample ID: H2HW5					Seq: 66	17:21:30 10 Apr 06	HG	
Hg	2.13	ppb	.000 %	2.13				
*** Sample ID: H2HW5A					Seq: 67	17:23:42 10 Apr 06	HG	
Hg	2.88	ppb	.000 %	2.88	PDS, 1ppb spike			
*** Sample ID: H2HW6					Seq: 68	17:25:32 10 Apr 06	HG	
Hg	.035	ppb	.000 %	.035				
*** Check Standard: 3 Ck3ccv					Seq: 69	17:27:21 10 Apr 06	HG	
Line Flag %Rcv. Found True Units SD/RSD								
Hg	99.2	4.96	5.00	ppb	.000 %			
*** Check Standard: 1 Ck1ccb					Seq: 70	17:29:52 10 Apr 06	HG	
Line Flag Found Range(+/-) Units SD/RSD								
Hg	X -0.059	.059	ppb	.000 %				
OK, BNC 041106								
*** Sample ID: H2HWN					Seq: 71	17:31:41 10 Apr 06	HG	
Hg	.913	ppb	.000 %	.913	PDS, 1ppb spike			
*** Sample ID: H2HWPA					Seq: 72	17:33:29 10 Apr 06	HG	
Hg	1.05	ppb	.000 %	1.05	PDS, 1ppb spike			
*** Sample ID: H2HWNSUC					Seq: 73	17:35:58 10 Apr 06	HG	
Hg	.020	ppb	.000 %	.020	unfiltered, uncooked, unspiked from original bottle			
ND, OK								
*** Sample ID: H2HWNDZ3UC					Seq: 74	17:38:17 10 Apr 06	HG	
Hg	5.57	ppb	.000 %	5.57	unfiltered, uncooked, unspiked from original bottle			
contaminated or mislabeled/spiked in field								

BNC 041106

Line	Conc.	Units	SD/RSD	1	2	3	4	5
------	-------	-------	--------	---	---	---	---	---

*** Sample ID: H2HWPSUC HCL Seq: 75 17:40:08 10 Apr 06 HG
unfiltered, uncooked, unspiked from original bottle
Hg .064 ppb ND, OK .000 % .064

*** Sample ID: H2HWPDUC HCL Seq: 76 17:42:39 10 Apr 06 HG
unfiltered, uncooked, unspiked from original bottle
Hg 1.93 ppb 0.000 % 1.93
contaminated or mislabeled/spiked in-field

*** Check Standard: 3 Ck3ccv Seq: 77 17:44:49 10 Apr 06 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 98.6 4.93 5.00 ppb .000 %

*** Check Standard: 1 Ck1ccb Seq: 78 17:46:48 10 Apr 06 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg ☒ -.073 .059 ppb .000 %
OK, BNC 041106

Miscellaneous Data

STL Knoxville ICP Data Review / Narrative Checklist
Methods 6010B and 200.7 - KNOX-MT-0007, Rev 5 Page 1 of 2

Lot / SDG #:	H6D0302224		☐ No QC reported	☒ Batch QC reported	Client QC reported
A. Review of QuantIMS / QDS Results					
1. Were PM checklists, Lot Summary and any applicable QAS reviewed?	NA	Yes	No	Why is data reportable?	
2. Were all prep sheets, prep spreadsheets and any existing NCMs reviewed?		✓			
3. Were manual calculations of results and RLs performed for at least one analyte for each sample, blank, LCS, LCSD, MS, MSD and DUP? (Document 1 calculation per batch.) NOTE: If DF<1, results for all NDs must be verified.		✓			
4. Were elements with H, k or S flags reported from dilution?	✓				
5. For DOD QSM projects, were samples with concentrations > the high calibration standard for any parameter diluted and reanalyzed?	✓			☐ High-calibration check standard analyzed instead of running samples at a dilution. Results +/- 10%.	
6. Were manual calculations of results & RLs performed for all elements reported from dilution?	✓				
7. Were all RLs in any sample elevated due to matrix effects? If yes, list sample ID:	✓			☐ [elev3] All RLs elevated due to difficult matrix.	
8. Were elements with L flags reported as ND G?	✓				
9. For each sample, blank, LCS, LCSD, MS, MSD and DUP, were flags, units, DFs, prep date, date/time of analysis verified to be correct?	✓				
10. Were spike amounts verified for one analyte per LCSMS? (Document 1 manual calculation.)		✓			
11. Were method blank results within limits? (Water/Soil/Waste limits ≤ 1/2RL; Air/PM10/4U limits ≤ RL)		✓		☐ [mb3] No analyte >RL in associated samples.* ☐ [mb4] Sample results >10x blank. ☐ [mb5] Insufficient sample for reanalysis.*	
12. LCS or LCS/LCSD within QC limits? (6010B = in-house limits; 200.7 = 85 - 115%R)		✓		☐ [lcs2] Insufficient sample for reanalysis. ☐ [lcs3] LCS%R >QC limits & sample results ND. ☐ [lcsd] Insufficient sample - lcs/lcsd analyzed.	
13. MS/MSD or MS/DUP run at required frequency?		✓		☐ [ms1] [msd1] LCS acceptable - matrix effects. ☐ [ms2] [msd2] Native analyte > 4x spike level. ☐ [ms3] [msd3] Matrix effects & native >4x spike. ☒ [batch] Batch QC on client's sample outside limits.	
14. MS %R or MS/MSD %R & RPD within QC limits?			✓	☐ [rp1] LCS acceptable. Results indicate sample heterogeneity.	
15. DUP RPD within limits? (0-20 RPD for results ≥ 5xRL; +RL if result <5xRL)	✓				
16. Were J flags added to the DUP as needed?	✓				
17. Is DUP RPD=0 for two ND results and RPD=200 for one ND and a positive result?	✓				
18. Are all results present for all samples?		✓			
Data Reviewer:  Date: 4-13-06 Calculation Checks / Comments:					
Batch: 6095073 F.H. H2HVS (Ni): 0.03662 µg/g x 100ml = 3.662 µg RL: 40 µg/g x 0.11 = 4.0 µg 6095074 B.H. H2HWT (Cu): 0.08123 µg/g x 100ml = 8.12 µg RL: 25 µg/g x 0.11 = 2.5 µg					

MTM
4-13-06

STL Knoxville ICP Data Review / Narrative Checklist
Methods 6010B and 200.7 - KNOX-MT-0007, Rev 5

Page 2 of 2

Lot / SDG #:	H6D030224						
B. Review of QC Summary Forms							
Note: Y=Yes, N=No, NA=Not Applicable							
1. Is the internal standard (IS) response of each run within +30% of ICB IS response?	Chart #	Chart #	Chart #	Chart #	Chart #	Chart #	Why is data reportable?
1. ICB IS response?	7						☐ [is] High IS response. Sample(s) rerun at dilution. ☐ Low IS response. Sample(s) reanalyzed.
2. ICB within limits? (6010B=90-110%R and <5% RSD)	7						
3. CCV within limits? (6010B/SDWA 200.7=90-110%R and <5%RSD; CWA 200.7=95-105%R)	7						If no, list details: _____
4. ICB/CCB within limits? (Waters/Soils ≤3x std. dev. of mean blank value and <MDL; Air/Waste/PM10 = <RL)	7						If no, list details: _____
5. Are RLs on ICSA forms ≤ client RLs?	7						
6. ICSA/ICSAB run at required frequency? (6010B/SDWA 200.7 = beginning of run; CWA 200.7 = beginning and end of run)	7						
7. ICSA criteria for non-interfering elements met? If no, list analytes: _____	7						☐ [ics1] Results outside limits due to contamination. ☐ [ics2] Interfering elements not present in sample at level which would result in false result >+2x RL. ☐ [ics3] Sample conc. >10x analyte signal in ICSA. ☐ Element not reported.
8. ICSAB interferences and analytes within 80-120%R?	7						
9. Reporting Limit Check Standard (CRDL) within limits? (70-130%R; 80-120%R for DOD QSM; 50-150% for Air/PM10/4U)	7						
10. PDS or PDS/PDS run at required frequency?	7						
11. PDS/PDS within limits? (75-125%R) Reminder: Place copy of PDS results in Sample Data Summary and QC Summary sections of report.	N						☐ [pds1] ☐ [pdsd1] LCS acceptable - matrix effects. ☐ [pds2] ☒ [pdsd2] Native analyte > 4x spike level. ☐ [pds3] ☐ [pdsd3] Matrix effects & native >4x spike.
12. Serial dilution done per prep batch? ☒ Client or ☐ Batch sample	7						
13. Serial dilution results within 10% D for analytes >50xIDL? If no, list ID: H2HV1:AL; H2HV2:Cu & Mn	N						☒ [ser] Physical or chemical interference due to sample matrix.
14. Was a serial dilution form generated for each undiluted and diluted run of the original sample?	7						
15. Does IDL form contain IDLs for the instrument used? (check one)	7						
16. Are the IDLs, LR and IECs on summary forms current?	7						
17. Are the QC summary forms correct?	7						
Data Reviewer: 							
Comments:	Date: 4-13-06						

*Such action must be taken in consultation with client.

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

STL Knoxville Mercury Data Review / Narrative Checklist
 Methods 7470A/7471A and 245.1/245.5 - KNOX-MT-0009, Rev 4 and KNOX-MT-0010, Rev 4

Page 1 of 2

Lot / SDG #:	□ No QC reported	□ Batch QC reported	□ Client QC reported
66D030224			
A. Review of QuantIMS / QDS Results			
1. Were PM checklists, Lot Summary and any applicable QAS reviewed?	NA	Yes	No
2. Were all prep sheets, prep spreadsheets and any existing NCMs reviewed?		✓	
3. Were manual calculations of results and RLs performed for each sample, blank, LCS, LCSD, MS, MSD and DUP? (Document 1 calculation per batch.)		✓	
4. Were elements with negative results >RL reported as ND G?	✓		
5. For each sample, blank, LCS, LCSD, MS, MSD and DUP, were flags, units, DFs, prep date, date/time of analysis verified to be correct?		✓	
6. Were spike amounts verified for each LCS/MS? (Document 1 manual calculation.)		✓	
7. Were method blank results <1/2 RL for water/solid samples or <RL for air train samples?		✓	
8. LCS or LCS/LCSD within QC limits? (90-110%RL)		✓	
9. MS/MSD or MS/DUP run at required frequency?		✓	
10. MS %R or MS/MSD %R & RPD within QC limits?		✓	
11. DUP RPD within limits? (0-20 RPD for results $\geq 5 \times RL$; +RL if result $< 5 \times RL$)	✓		
12. Were J flags added to the DUP as needed?	✓		
13. Is DUP RPD=0 for two ND results and RPD=200 for one ND and a positive result?	✓		
14. Are all results present for all samples?		✓	
15. Were the samples analyzed within the holding time?		✓	

Date Reviewer:	Date:
2/28/2006	4-13-06
Calculation Checks / Comments: 6697038 (B.H.) $H2HV2: 0.642 \mu g / L \times 0.11 \times \frac{50 \mu L}{2.5 \mu L} = 1.28 \mu g$ $RL: 0.2 \mu g / L \times 0.11 \times \frac{50 \mu L}{2.5 \mu L} = 0.4 \mu g$ 6697041 (B.H.) $H2HV6: 1.29 \mu g / L \times 0.360 \mu L \times \frac{50 \mu L}{2.5 \mu L} = 0.929 \mu g$ $RL: 0.2 \mu g / L \times 0.360 \mu L \times \frac{50 \mu L}{2.5 \mu L} = 0.144 \mu g$ 6697037 (B.H.) $H2HV6S: 0.891 \mu g / L \times 0.11 \times \frac{50 \mu L}{3 \mu L} = 0.89 \mu g$ 66970407 (B.H.) $H2HV7(2A): 2.51 \mu g / L \times 0.350 \mu L \times \frac{50 \mu L}{5 \mu L} = 6.79 \mu g$ $RL: 0.2 \mu g / L \times 0.350 \mu L \times \frac{50 \mu L}{5 \mu L} = 0.70 \mu g$ JTM 4-25-06 JTM 4-13-06	

*Such action must be taken in consultation with client.

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

MT079R3.doc, 2/13/06

[illegible]

*Such action must be taken in consultation with client.
NOTE: Nonconformance memos are required for **bold** and *italicized* [autotext] statements: **Bold** = deficiency, *italicized* = anomaly.

STL Knoxville Metals Final Deliverable Data Review / Narrative Checklist
Page 1 of 1

Lot / SDG #: 46D030224	Report Type: ☐ Report (COA)	☒ Level 4 Package	☐ QDS Package	☐ Forms Only	☐ Other
-------------------------------	--	---	--------------------------------------	-------------------------------------	--------------------------------

C. Review of Final Deliverable	NA	Yes	No	List NCM #:
1. Are all nonconformances documented and discussed in narrative? (Reminder: Place copy of all NCMs in front of deliverable.)	✓			☒ [MMT1] Multi-metals trains analyzed for ICP & Hg. ☐ [MMT2] Multi-metals trains analyzed for ICP only. ☐ [MMT3] Multi-metals trains analyzed for Hg only. ☐ [MMT4] Combined FH/BH analyzed for ICP only. ☐ [MMT5] Multi-metals trains analyzed for ICP-MS & Hg. ☐ [MMT6] Multi-metals trains analyzed for ICP-MS only. ☐ [MMT7] Combined FH/BH analyzed for ICP-MS only. ☐ [OH] Ontario-Hydro train. ☐ [OH] Ontario-Hydro train with thimble-FH.
2. For air trains, was the appropriate autotext selected for the narrative? (Reminder: Review the autotext and make all appropriate changes.)		✓		☐ [pm10] PM10 filters analyzed for ICP & Hg. ☐ [pm10cp] PM10 filters analyzed for ICP only. ☐ [fb1] Filter Lot Check Report in Misc. Section. ☐ [fb2] Filter Lot Check Report after LCS report.
3. For PM10 projects, was the appropriate autotext selected for the narrative?	✓			
4. Was a Filter Lot Check report included for PM10 filters?	✓			
5. Is the narrative complete and does it contain the appropriate deviations noted on the analyst DRCs, ICP DRC, Hg DRC and ICP-MS DRC?		✓		
6. Were all client/project specific requirements met? (As described in PM checklists, Lot Summary or Client Analysis Summary, and any applicable QAS.)		✓		
7. Are the original DRCs behind narrative with copy in report?		✓		
8. Are results present for all samples?		✓		
9. Is the final deliverable in the proper format?		✓		
10. Were the ICP and Hg charts and cover pages scanned? (Check .pdf files.)		✓		
11. Are the ICP-MS raw data .pdf files complete? (Check .pdf files to assure that each consists of 1) Cover Page, 2) Run Log, 3) Analyst DRC, 4) Performance Report, 5) Fully Quant Calibration Report and 6) Raw Data.)	✓			

Data Reviewer: <i>[Signature]</i>	Date: 4-13-06
Comments:	
<i>MTN 4-25-06</i>	

STL Knoxville

Data Quality Checks

Internal Standard

Date	Time	Lab ID	Problem
13-Apr-06	9:09 AM		There were 77 results successfully verified.

Relative Standard Deviation

Date	Time	Lab ID	Problem
13-Apr-06	9:09 AM		There were 136 results successfully verified.

STL Knoxville

Comp Date: 04/06/2006 1700

2nd Level Review/Received by: KND

Date: 4/11/2006

[illegible]

QuantIMS Upload Dilution Factor = Final ICP Digestate Volume (L) / 0.100 L x ICP Bench Dilution Factor

* = Sample chosen for PDS.
** = Sample chosen for PDS/PDSD.

H6D030224.xls

MMT Air Train rev4.xlt

MT080R4, 1/10/06

STL Knoxville

Comp Date: 04/07/2006 1700

2nd Level Review/Received by: KND

Date: 4/11/2006

Exp. Date
12/1/2006
12/1/2006
12/1/2006

HCl Lot #: B32A17

Comments: MS&MSD were spiked with 1mL spiking solution instead of 80uL, please calculate accordingly.

$$\text{QuantIMS Multiplier} = \text{Final Volume Concentrated Sample (L)} \times \text{Final Volume ICP Digestate (L)} / \text{Volume Concentrated Sample Digested (L)} \times \text{ICP Bench Dilution Factor}$$

** = Sample chosen for PDS/PDSD.

STL Knoxville

Comp Date: 04/10/2006 1300

Reviewed by:

W. H. M.

Date: 4-13-06

[illegible]

** = Sample chosen for PDS/PDSD.

Comments:

QuantIMS Upload Dilution Factor **and** QuantIMS Multiplier = Final ICP Digestate Volume (L) x Final Hg Digestate Volume (ml) / Volume ICP Digestate Used (ml) x Hg Bench Dilution Factor

See the Front Half ICP Sample Preparation Worksheet for Hg LCS/LCSD spike information.

STL Knoxville
Mercury Air Prep Spiking Form

Analyst: BNCDate: 041006Batch: 6097037Bath Temp: 95°C
(Acceptance range 90°-95°C)

- ☐ Hg in PM10 filters: KNOX-IP-0003, Rev. 2
☒ MMT train: KNOX-MT-0006, Rev. 6

- ☐ Ontario Hydro: KNOX-IP-0006, Rev. 1

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- 4014-16-11	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.		Amount Used (ml)	Final Volume (ml)	Final Conc. (ug/L)
		Source	Conc.(ug/L)			
ICV	I-VER- 4013-16-10	ULTRA	100	1.25	50	2.5
CCV	I-CAL- 4014-16-11	SPEX	100	2.5	50	5.0
CRA	I-CAL- ↓	↓	100	0.1	50	0.2

Standard Type	Standard ID	Intermediate Std.		Amount Used @ ICP prep/final volume	ICP Sample Volume used @ Hg prep (ml)	Final Conc. @ Hg prep (ug/L)	Final Amount (ug)
		Source	Conc.(ug/L)				
Air (PM10) LCS	I-CAL-		10,000	0.250 ml/50ml	5.0	5.0	11.25
Air (PM10) MS	I-CAL-		10,000	0.050 ml/50ml	5.0	1.0	2.25

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C05024	5% KMnO ₄ ID #:	B-3122-8-B
Conc. HNO ₃ Lot #:	B51037	5% K ₂ S ₂ O ₈ ID #:	D-2638-15-E
Conc. HCL Lot #:	B32A17	SnCl ₂ Solution ID #:	A-3382-1-C
12% NaClNH ₂ OH HCL ID #:	C-3267-2-A		

STL Knoxville

Comp Date: 04/10/2006 1300

Reviewed by:

150

Date: 4-13-06

Hg LCS/LCSD Spike: 2.5 mL of I-CAL-4014-16-11
Hq MS/MSD Spike: 0.5 mL of I-CAL-4014-16-11

* = Sample chosen for PDS.

*** = Sample chosen for PDS/PDSD.

Comments:

8N HCl logbook #: N/A

$$\text{QuantIMS Upload Dilution Factor} = \frac{(\text{Total Sample Volume (L)} + \text{KMnO}_4 \text{ HCl Rinse Volume (L)}) \times \text{Final Hg Digestate Volume (ml)} \times \text{Hg Bench Dilution Factor}}{\text{QuantIMS Volume (L)}} \times \text{Volume Sample Used (ml)}$$

Note: For the 5% HNO_3 /10% H_2O_2 impingers, enter the final volume of the concentrated sample for the Total Sample Volume (L).

STL Knoxville

Mercury Air Prep Spiking Form

Analyst: BNCDate: 041006Batch: 6097038Bath Temp: 95°C
(Acceptance range 90°-95°C)

☐ Hg in PM10 filters: KNOX-IP-0003, Rev. 2
☒ MMT train: KNOX-MT-0006, Rev. 6

☐ Ontario Hydro: KNOX-IP-0006, Rev. 1

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- 4014-16-11	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.		Amount Used (ml)	Final Volume (ml)	Final Conc. (ug/L)
		Source	Conc.(ug/L)			
ICV	I-VER- 4013-16-10	ULTRA	100	1.25	50	2.5
CCV	I-CAL- 4014-16-11	SPEX	100	2.5	50	5.0
CRA	I-CAL- ↓	↓	100	0.1	50	0.2

Standard Type	Standard ID	Intermediate Std.		Amount Used @ ICP prep/final volume	ICP Sample Volume used @ Hg prep (ml)	Final Conc. @ Hg prep (ug/L)	Final Amount (ug)
		Source	Conc.(ug/L)				
Air (PM10) LCS	I-CAL-		10,000	0.250 ml/50ml	5.0	5.0	11.25
Air (PM10) MS	I-CAL-		10,000	0.050 ml/50ml	5.0	1.0	2.25

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C05024	5% KMnO ₄ ID #:	B-3122-8-B
Conc. HNO ₃ Lot #:	B51037	5% K ₂ S ₂ O ₈ ID #:	D-2638-15-E
Conc. HCL Lot #:	B32A17	SnCl ₂ Solution ID #:	A-3382-1-C
12% NaClNH ₂ OH HCL ID #:	C-3267-2-A		

STL Knoxville

Prep Date: 04/10/2006 0800
Comp Date: 04/10/2006 1300

Reviewed by:

Date:

* = Sample chosen for PDS.
** = Sample chosen for PDS/PDSD.

H6D030224.xls

STL Knoxville
Mercury Air Prep Spiking Form

Analyst: BNCDate: 041006Batch: 6097041Bath Temp: 95°C
(Acceptance range 90°-95°C)☐ Hg in PM10 filters: KNOX-IP-0003, Rev. 2☐ Ontario Hydro: KNOX-IP-0006, Rev. 1☒ MMT train: KNOX-MT-0006, Rev. 6

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- 4014-16-11	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.		Amount Used (ml)	Final Volume (ml)	Final Conc. (ug/L)
		Source	Conc.(ug/L)			
ICV	I-VER- 4013-16-10	ULTRA	100	1.25	50	2.5
CCV	I-CAL- 4014-16-11	SPEX	100	2.5	50	5.0
CRA	I-CAL- L	L	100	0.1	50	0.2

Standard Type	Standard ID	Intermediate Std.		Amount Used @ ICP prep/final volume	ICP Sample Volume used @ Hg prep (ml)	Final Conc. @ Hg prep (ug/L)	Final Amount (ug)
		Source	Conc.(ug/L)				
Air (PM10) LCS	I-CAL-		10,000	0.250 ml/50ml	5.0	5.0	11.25
Air (PM10) MS	I-CAL-		10,000	0.050 ml/50ml	5.0	1.0	2.25

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C05024	5% KMnO ₄ ID #:	B-3122-8-B
Conc. HNO ₃ Lot #:	B51037	5% K ₂ S ₂ O ₈ ID #:	D-2638-15-E
Conc. HCL Lot #:	B32A17	SnCl ₂ Solution ID #:	A-3382-1-C
12% NaCl/NH ₂ OH HCL ID #:	C-3267-2-A		

STL Knoxville

Date: 4-25-06

** = Sample chosen for PDS/PDSD.

Note: For the 5% HNO_3 /10% H_2O_2 impingers, enter the final volume of the concentrated sample for the Total Sample Volume (L).

MMT Air Train rev4.xlt

MT083R4. 1/10/06

STL Knoxville

Mercury Air Prep Spiking Form

Analyst: BNCDate: 042406Batch: 6111407Bath A Temp: 95°CBath B Temp: 95°C

(Acceptance range 90°-95°C)

☐ Hg in PM10 filters: KNOX-IP-0003, Rev. 4☐ Ontario Hydro: KNOX-IP-0006, Rev. 2☒ MMT train: KNOX-MT-0006, Rev. 9

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- 4014-17-6	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.		Amount Used (ml)	Final Volume (ml)	Final Conc. (ug/L)
		Source	Conc.(ug/L)			
ICV	I-VER- 4013-17-5	BNC 042406 & ULTRA	100	1.25	50	2.5
CCV	I-CAL- 4014-17-6	SPEX	100	2.5	50	5.0
CRA	I-CAL- 1	1	100	0.1	50	0.2

Standard Type	Standard ID	Intermediate Std.		Amount Used @ ICP prep/final volume	ICP Sample Volume used @ Hg prep (ml)	Final Conc. @ Hg prep (ug/L)	Final Amount (ug)
		Source	Conc.(ug/L)				
Air (PM10) LCS	I-CAL-		10,000	0.250 ml/50ml	5.0	5.0	11.25
Air (PM10) MS	I-CAL-		10,000	0.050 ml/50ml	5.0	1.0	2.25

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C05024	5% KMnO ₄ ID #:	B-3122-8-D
Conc. HNO ₃ Lot #:	B51037	5% K ₂ S ₂ O ₈ ID #:	D-2638-16-A
Conc. HCL Lot #:	B32A17	SnCl ₂ Solution ID #:	A-3382-2-4
12% NaClNH ₂ OH/HCL ID #:	C-3267-2-A		

Sample Receipt Documentation

**Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

STL Knoxville Lot Number: H6D030224

STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:		Westates Carbon CPT	
STL Knoxville Project Number:	142541		
STL Contact:	Ms. Patti Carswell (865) 291-3010		
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080		
Analytical Testing QC Requirements: The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows: "MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate, "DUP" = Duplicate, and "PDS" = Post Digestion Spike			
Project Deliverables: Report analytical results on R-02 Reports and in data packages. Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.			
Holding Time Requirements:			
Metals (excluding Mercury)	180 Days to Analysis.		
Mercury	28 Days to Analysis.		
Laboratory Deliverable Turnaround Requirements:			
Analytical Due Date:	21 Days from Lab Receipt (Review-Released Data)		
Data Package Due Date:	21 Days from Lab Receipt		
Laboratory Destination:		STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000	
Courier:	Federal Express		

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2953-R1- Method 0060/29 Front Half Composite Combine with Sample No.: G-2954	3-28-06	PDS	Petri Dish	Particulate Filter Run #1 Method 0060/29 Train Metals and Mercury	Combine this sample with the companion Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-2954) Combine with Sample No.: G-2953	3-28-06		250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #1 Method 0060/29 Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2955-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers	3-28-06	PDS	2 X 1 Liter Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #1 Method 0060/29 Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-2956-R1- Method 0060/29 Empty Impinger #4	3-28-06	MS/MSD	250 mL Amber Boston Round	Empty Impinger #4 Run #1 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2957-R1- Method 0060/29 4% KMnO ₄ /10% H ₂ SO ₄ Impingers	3-28-06	MS/MSD	500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #1 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2958-R1- Method 0060/29 8N HCl Impinger Rinse	3-28-06	MS/MSD	250 mL Amber Boston Round	8N HCl Impinger Rinse Run #1 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2959-R1- Method 0060/29 Front Half Composite RB Combine with Sample No.: G-2960	3-28-06	Reagent Blank	Petri Dish	Particulate Filter Reagent Blank, Run #1 Method 0060/29 Blank Train Metals and Mercury	Combine this sample with the Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-2960) Combine with Sample No.: G-2959	3-28-06	Reagent Blank	250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse Reagent Blank Run #1 Method 0060/29 Blank Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2961-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Solution RB	3-28-06	Reagent Blank	250 mL Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impinger Solution Reagent Blank, Run #1 Method 0060/29 Blank Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-3163-R1- Method 0060/29 Empty Impinger #4 RB	3-28-06 100 mL HNO ₃	Reagent Blank	250 mL Amber Boston Round	Empty Impinger #4 Reagent Blank, Run #1 Method 0060/29 Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2962-R1- Method 0060/29 4% KMnO ₄ / 10% H ₂ SO ₄ Impinger Solution RB	3-28-06	Reagent Blank	250 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impinger Solution Reagent Blank, Run #1 Method 0060/29 Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2963-R1- Method 0060/29 8N HCl Rinse Solution RB	3-28-03	Reagent Blank	250 mL Amber Boston Round	8N HCl Impinger Rinse Solution Reagent Blank Run #1 Method 0060/29 Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2964-R1- Method 0060/29 Front Half Composite Spiked BT Combine with Sample No.: G-2965	3-28-06 TW 3-29-06	Spiked Blank Train	Petri Dish	Particulate Filter Run #1 Method 0060/29 Spiked Blank Train Metals and Mercury	Combine this sample with the Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-2965) Combine with Sample No.: G-2964	3-29-06	Spiked Blank Train	250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #1 Method 0060/29 Spiked Blank Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2966-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers Spiked BT	3-29-06	Spiked Blank Train	500 mL Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #1 Method 0060/29 Spiked Blank Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-2967-R1- Method 0060/29 Empty Impinger #4 Spiked BT	3-29-06	Spiked Blank Train	250 mL Amber Boston Round	Empty Impinger #4 Run #1 Method 0060/29 Spiked Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A
G-2968-R1- Method 0060/29 4% KMnO ₄ / 10% H ₂ SO ₄ Impingers Spiked BT	3-29-06	Spiked Blank Train	500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #1 Method 0060/29 Spiked Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2969-R1- Method 0060/29 8N HCl Impinger Rinse Spiked BT	3-29-06	Spiked Blank Train	250 mL Amber Boston Round	8N HCl Impinger Rinse Run #1 Method 0060/29 Spiked Blank Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2970-R1- Method 0060/29 Front Half Composite Spiked BT DUP <i>Combine with Sample No.: G-2971</i>	3-30-06	Spiked Blank Train Duplicate	Petri Dish	Particulate Filter Run #1 Method 0060/29 Spiked Blank Train Duplicate Metals and Mercury	Combine this sample with the Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-2971) <i>Combine with Sample No.: G-2970</i>	3-30-06	Spiked Blank Train Duplicate	250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #1 Method 0060/29 Spiked Blank Train Duplicate Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-2972-R1- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	500 mL Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #1 Method 0060/29 Spiked Blank Train Duplicate Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-2973-R1- Method 0060/29 Empty Impinger #4 Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	250 mL Amber Boston Round	Empty Impinger #4 Run #1 Method 0060/29 Spiked Blank Train Duplicate Mercury Only	Analyze for Mercury (Hg) by Method 7470A
G-2974-R1- Method 0060/29 4% KMnO ₄ / 10% H ₂ SO ₄ Impingers Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #1 Method 0060/29 Spiked Blank Train Duplicate Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-2975-R1- Method 0060/29 8N HCl Impinger Rinse Spiked BT DUP	3-30-06	Spiked Blank Train Duplicate	250 mL Amber Boston Round	8N HCl Impinger Rinse Run #1 Method 0060/29 Spiked Blank Train Duplicate Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3057-R2- Method 0060/29 Front Half Composite <i>Combine with Sample No.: G-3058</i>	3-29-06	PDS	Petri Dish	Particulate Filter Run #2 Method 0060/29 Train Metals and Mercury	Combine this sample with the companion Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.

Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
(G-3058) Combine with Sample No.: G-3057	3-29-06		250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #2 Method 0060/29 Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-3059-R2- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers	3-29-06	PDS	2 X 1 Liter Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #2 Method 0060/29 Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
G-3060-R2- Method 0060/29 Empty Impinger #4	3-29-06		250 mL Amber Boston Round	Empty Impinger #4 Run #2 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3061-R2- Method 0060/29 4% KMnO ₄ /10% H ₂ SO ₄ Impingers	3-29-06		500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #2 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3062-R2- Method 0060/29 8N HCl Impinger Rinse	3-29-06		250 mL Amber Boston Round	8N HCl Impinger Rinse Run #2 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3141-R3- Method 0060/29 Front Half Composite Combine with Sample No.: G-3142	3-30-06	PDS	Petri Dish	Particulate Filter Run #3 Method 0060/29 Train Metals and Mercury	Combine this sample with the companion Nitric Acid Probe Rinse using the SW-846 Method 0060/29 digestion procedure and analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.
(G-3142) Combine with Sample No.: G-3141	3-30-06		250 mL Amber Boston Round	0.1N Nitric Acid (HNO ₃) Probe Rinse, Run #3 Method 0060/29 Train Metals and Mercury	Combining this sample with the companion Particulate Filter using the digestion procedure in SW-846 Method 0060/29.
G-3143-R3- Method 0060/29 5% HNO ₃ /10% H ₂ O ₂ Impingers	3-30-06	PDS	2 X 1 Liter Amber Boston Round	5% HNO ₃ /10% H ₂ O ₂ Impingers, Run #3 Method 0060/29 Train Metals and Mercury	Prepare this sample following the digestion procedure for Method 29/0060. Analyze for the target metals by ICAP Method 6010B. Also analyze for mercury (Hg) by Method 7470A.

**Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require- ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3144-R3- Method 0060/29 Empty Impinger #4	3-30-06		250 mL Amber Boston Round	Empty Impinger #4 Run #3 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3145-R3- Method 0060/29 4% KMnO ₄ /10% H ₂ SO ₄ Impingers	3-30-06		500 mL Amber Boston Round	4% KMnO ₄ /10% H ₂ SO ₄ Impingers, Run #3 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.
G-3146-R3- Method 0060/29 8N HCl Impinger Rinse	3-30-06		250 mL Amber Boston Round	8N HCl Impinger Rinse Run #3 Method 0060/29 Train Mercury Only	Analyze for Mercury (Hg) by Method 7470A.

**Request for Analysis/Chain-of-Custody – RFA/COC #022 [Method 0060/29 Trains]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona**

H6D030224

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:

Comments

(Please write "NONE" if no comment applicable)

- (1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.

N/A

- (2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:

5.0°C
24.5°C AMBIENT

- (3) Record any apparent sample loss/breakage.

N/A

- (4) Record any unidentified samples transported with this shipment of samples:

N/A

- (5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):

no nonconformances

Custody Transfer:

Relinquished By:

Hand delivered

Accepted By:

Name

Company

Date/Time

Name

STC - Trucking Co

Company

4/2/06 1625

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

Relinquished By:

Name

Company

Date/Time

Accepted By:

Name

Company

Date/Time

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus Project: West Atk Carbon Lot Number: HS130224

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	☒			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	14A - COC not relinquished dated time.
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)	☒			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?	☒		☒	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	☒	☒		☒ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	☒			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	☒			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?	☒		☒	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	☒			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			☒	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	☒			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			☒	☐ 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?	☒			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		☒		☒ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	☒			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	☒			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	☒			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	☒			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	☒		☒		

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: [Signature] Date: 4/13/06 QA026R18.doc, 1/30/06

XAD Source Sampling Media Request Form

176DV030224

SEVERN
TRENT

STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
865-291-3000

Form Number: 031706-6

-scan completed document and save on the
public drive under Media/PDFs; filename should
be the form number. Send a copy to PM.

Date of Request: March 17, 2006

Company: ACS

Client Project: Westates Carbon - Project # 142541

Client PO#:

Rush Order? No

Quantims Quote: TBD

Media Needed By: 3/22/2006

Project Manager: Kevin Woodcock

Quantity	Media Type	Spiked for Method	Media Check ID
8	Particulate Filter	8.26 cm Quartz 2500QAT-UP for 0060/29	A-5383
4	Particulate Filter	Millipore Isopore 0.4 um HTTP 0930 for Particle Size Distribution	A-5384

A 5383

A 5384

Comments:

Method	Color Code	Amt. Spiked	Conc. And Units	Spike Sol'n ID	Exp. Date	Spiked By/ Date	Verified By
8270C							
Dioxin							
1668 mod.							
CARB 429							
8081A							
TCO/Grav		NA	NA	NA	NA	NA	NA

Shipping (include blank COCs and Custody Seals with this shipment. Send temperature blanks where applicable)

Attn: Patti Carswell

Company: STL Knoxville - ACS

Address 1:

Address 2:

City, State, Zip:

Phone:

Fax:

FedEx Email:

Completed/ Shipped by: PBC

Date Shipped: 03-22-06

Shipping Courier: Shipped w/ Battco

Tracking Number

Invoice #:

Lot Number: