VOLUME 3
RESULTS OF ENVIRONMENTAL INVESTIGATIONS
APPENDIX 4, PART 4 OF 5

Of The

COMM 100 ASSOCIATES FACILITY
100 COMMERCIAL STREET
PLAINVIEW, NASSAU COUNTY, NEW YORK
SITE NO. 1-30-075

For

ROBIN S. WEINSTEIN, ESQ.
KENSINGTON & RESSLER, P.C.
400 MADISON AVENUE
NEW YORK, NEW YORK 10017-1910

By

EIKON PLANNING AND DESIGN CORP.
P.O. BOX 469 - 221 HIGH STREET
HACKETTSTOWN, NEW JERSEY 07840

February 1, 1995

INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME LABORATORY RESOURCES CITY/STATE TETERBORO, NJ
CASE NO. 9803 SDG NO. 810301 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____
CONTRACT NO. _____ ASP DATE _____

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II AND III.)

		PAGE NOS. FROM	PAGE NOS. TO	CHECK LAB	CHECK NYSDEC
1.	Inventory Sheet (Form DC-2) (Do not number)			✓	
2.	Cover Page / SDG NARRATIVE	01	03	✓	
3.	Inorganic Analysis Data Sheet (FORM I - IN)	04	10	✓	
4.	Initial & Continuing Calibration Verification (FORM IIA - IN)	11	14	✓	
5.	CRDL Standards For AA and ICP (FORM IIB - IN)	15	16	✓	
6.	Blanks (FORM III - IN)	17	19	✓	
7.	ICP Interference Check Sample (FORM IV - IN)	20	20	✓	
8.	Spike Sample Recovery (FORM VA - IN)	21	21	✓	
9.	Post Digest Spike Sample Recovery (FORM VB - IN)			✓	
10.	Duplicates (FORM VI - IN)	22	22	✓	
11.	Laboratory Control Sample (FORM VII - IN)	23	23	✓	
12.	Standard Addition Results (FORM VIII - IN)	24	24	✓	
13.	ICP Serial Dilutions (FORM IX - IN)	25	25	✓	
14.	Instrument Detection Limits (FORM X - IN)	26	29	✓	
15.	ICP Interelement Correction Factors (FORM XIA - IN)	30	30	✓	
16.	ICP Interference Correction Factors (FORM XIB - IN)	31	35	✓	
17.	ICP Linear Ranges (FORM XII - IN)	36	36	✓	
18.	Preparation Log (FORM XIII - IN)	37	41	✓	
19.	Analysis Run Log (FORM XIV - IN)	42	56	✓	
20.	ICP Raw Data	57	112	✓	
21.	Furnace AA Raw Data	113	263	✓	
22.	Mercury Raw Data	264	394	✓	

FORM DC-2-IN-1

EIKON
T408103 TAL - METALS + CYANIDE.

INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 8103 SDG NO. 8030 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____

	PAGE NOS: FROM	TO	CHECK LAB	NYSDEC
23. Cyanide Raw Data	395	406	✓	
24. Preparation Logs Raw Data	407	421	✓	
25. Percent Solids Determination Log	422	422	✓	
26. Contract Lab Sample Information Sheet (CLSIS)				
27. NYSDEC Shipping/Receiving Documents				
Airbill (No. of Shipments ____)				
Chain-of-custody Records	423	423	✓	
Sample Tags			✓	
Sample Log-in Sheet (Lab & DC1)	424	424	✓	
SDG Cover Sheet	425	425	✓	
28. Misc Shipping/Receiving Records (list all individual records)				
Telephone Logs				
I-C-O-C	426	430	✓	
29. Internal Lab Sample Transfer Records &				
Transfer Sheets (describe or list)				
Metals Batch Sheet	431	435	✓	
ICP STUDY	436	443	✓	
30. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records				
Analysis Records				
Description				
31. Other Records (describe or list)				
Telephone Communications Log				

32. Comments:

Completed by (CLP Lab)

M. Amirbahman — Mod Amirbahman, QA manager — 9-8-94

(Signature) (Print Name & Title) (Date)

Audited by (NYSDEC)

(Signature) (Print Name & Title) (Date)

FORM DC-2-IN-2

Laboratory Resources INC.
Teterboro Division
100 Hollister Road
Teterboro, New Jersey 07608
FAX: 201-288-5311
201-288-3700

SDG CASE NARRATIVE
INORGANICS (TAL-METALS with CYANIDE) NYASP 12/91

Lab Name: LRI Client: EIKON

Project: Plainview Job No.: T408103

CASE No. : 08103 SDG No. : 810301

The following samples are included in this Sample Delivery Group:

LAB ID #	Matrix	CLIENT ID #	SAMPLE ID (to be used on forms)
T408103-01	soil	SD-1	SD-1
T408103-02	soil	SD-2	SD-2
T408103-03	soil	SD-3	SD-3
T408103-04	soil	SD-4	SD-4
T408103-05	soil	SD-5	SD-5
T408103-06	soil	SD-6	SD-6
T408103-07	water	FLD BLK, 8/5/94	FLD BLK

Detailed Documentation of Problems Encountered With These samples:

General

1. Please note that for the cross reference check the Lab sample ID. with Client ID. is listed above on this case narrative.

2. All the above samples for TAL-Metals with CYANIDE analysis a per Chain-of-Custody were performed at LRI NJ- Div. for the above work orders in one data package with CASE # 08103 and SDG # 810301.

METALS:

- Please note that the client sample number with the sample description is too many characters, therefore as per the software being used for data processing (Ward Scientific Software) only six characters can be used for EPA sample number. Never-the-less for the cross reference check the Lab sample ID. with Client ID. is listed above on this case narrative.

- Please be advised that LRI uses the Ward Scientific Software for data processing of CLP Inorganic Packages, the software is designed to accommodate one SDG at a time made of twenty samples or less of the same matrix.

1. The Inorganic ASP CLP data package contains respectively in this order: Case narrative followed by Forms I to XIV, ICP raw data, Furnace raw data, Mercury raw data and Cyanide raw data and finally the last part is General such as sample preparation log, total solid page and Chain-of-Custody, Sample Log-in-sheet, Internal Chain-of-Custody followed by metals department batch sheet and IDL study.

2. Sample T408103-01 (SD-1) was analyzed for QC (duplicate and digestion spike) for ICP and Furnace and Mercury and Cyanide in a batch of 20 samples, the same sample was analyzed for ICP serial dilution and it covers the above work orders.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

08-31-94

Moe Amirsoleymani
CLP/SAS, QA/QC Manager

NYSDEC ASP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

SOW No.: 12/91_

ASP Sample No.	Lab Sample ID.
FB	0810307
SD-1	0810301
SD-1D	0810301D
SD-1S	0810301S
SD-2	0810302
SD-3	0810303
SD-4	0810304
SD-5	0810305
SD-6	0810306

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

_____
_____
_____
_____

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: _____

Date: 08/24/94

~~9188~~ 12/91

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SD-1

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Lab Sample ID: 0810301

Level (low/med): Date Received: 08/09/94

% Solids: 95.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1540			P
7440-36-0	Antimony	2.9	U		P
7440-38-2	Arsenic	0.63	U		F
7440-39-3	Barium	4.6	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	104	B		P
7440-47-3	Chromium	3.1			P
7440-48-4	Cobalt	0.60	B		P
7440-50-8	Copper	1.3	B		P
7439-89-6	Iron	2490			P
7439-92-1	Lead	1.5			F
7439-95-4	Magnesium	113	B		P
7439-96-5	Manganese	23.4			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.7	U		P
7440-09-7	Potassium	252	U		P
7782-49-2	Selenium	0.42	U		F
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	26.8	B		P
7440-28-0	Thallium	0.63	U		F
7440-62-2	Vanadium	3.4	B		P
7440-66-6	Zinc	3.7	B		P
5955-70-0	Cyanide	0.10	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SD-2

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Lab Sample ID: 0810302

Level (low/med): Date Received: 08/09/94

% Solids: 92.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9430			P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	2.6			F
7440-39-3	Barium	18.2	B		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	1300			P
7440-47-3	Chromium	10.1			P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	9720			P
7439-92-1	Lead	12.0		S	F
7439-95-4	Magnesium	1280			P
7439-96-5	Manganese	76.1			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	6.3	B		P
7440-09-7	Potassium	261	U		P
7782-49-2	Selenium	0.43	U		F
7440-22-4	Silver	0.43	U		P
7440-23-5	Sodium	40.4	B		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	16.0			P
7440-66-6	Zinc	16.5			P
5955-70-0	Cyanide	0.11	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SD-3

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Lab Sample ID: 0810303

Level (low/med): Date Received: 08/09/94

% Solids: 84.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1060			P
7440-36-0	Antimony	6.1	B		P
7440-38-2	Arsenic	0.71	U		F
7440-39-3	Barium	15.6	B		P
7440-41-7	Beryllium	0.24	U		P
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	18.0			P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	16.5			P
7439-89-6	Iron	4740			P
7439-92-1	Lead	126			F
7439-95-4	Magnesium	4570			P
7439-96-5	Manganese	54.8			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	6.2	B		P
7440-09-7	Potassium	285	U		P
7782-49-2	Selenium	0.47	U		F
7440-22-4	Silver	0.47	U		P
7440-23-5	Sodium	55.3	B		P
7440-28-0	Thallium	0.71	U		F
7440-62-2	Vanadium	8.8	B		P
7440-66-6	Zinc	130			P
5955-70-0	Cyanide	0.12	U		C

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: BLACK Clarity After: Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SD-4

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Lab Sample ID: 0810304

Level (low/med): Date Received: 08/09/94

% Solids: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3180			P
7440-36-0	Antimony	2.9	U		P
7440-38-2	Arsenic	1.0	B		F
7440-39-3	Barium	10.4	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	446	B		P
7440-47-3	Chromium	4.5			P
7440-48-4	Cobalt	1.7	B		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	4330			P
7439-92-1	Lead	3.3			F
7439-95-4	Magnesium	377	B		P
7439-96-5	Manganese	64.4			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.7	U		P
7440-09-7	Potassium	253	U		P
7782-49-2	Selenium	0.42	U		F
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	32.1	B		P
7440-28-0	Thallium	0.63	U		F
7440-62-2	Vanadium	6.9	B		P
7440-66-6	Zinc	11.3			P
5955-70-0	Cyanide	0.11	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SD-5

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Lab Sample ID: 0810305

Level (low/med): Date Received: 08/09/94

% Solids: 94.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8440			P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	2.5			F
7440-39-3	Barium	29.7	B		P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	1750			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	5.8	B		P
7440-50-8	Copper	17.1			P
7439-89-6	Iron	16100			P
7439-92-1	Lead	16.2		S	F
7439-95-4	Magnesium	2680			P
7439-96-5	Manganese	181			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	12.2			P
7440-09-7	Potassium	543	B		P
7782-49-2	Selenium	0.42	U		F
7440-22-4	Silver	0.42	U		P
7440-23-5	Sodium	73.6	B		P
7440-28-0	Thallium	0.64	U		F
7440-62-2	Vanadium	21.9			P
7440-66-6	Zinc	45.0			P
5955-70-0	Cyanide	0.11	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

SD-6

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Lab Sample ID: 0810306

Level (low/med): Date Received: 08/09/94

% Solids: 96.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1260			P
7440-36-0	Antimony	2.9	U		P
7440-38-2	Arsenic	0.62	U		F
7440-39-3	Barium	3.6	B		P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	109	B		P
7440-47-3	Chromium	2.2			P
7440-48-4	Cobalt	0.60	B		P
7440-50-8	Copper	1.2	B		P
7439-89-6	Iron	1880			P
7439-92-1	Lead	1.5			F
7439-95-4	Magnesium	97.8	B		P
7439-96-5	Manganese	20.6			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.7	U		P
7440-09-7	Potassium	249	U		P
7782-49-2	Selenium	0.41	U		F
7440-22-4	Silver	0.41	U		P
7440-23-5	Sodium	20.4	B		P
7440-28-0	Thallium	0.62	U		F
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	2.9	B		P
5955-70-0	Cyanide	0.10	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

FB

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): WATER Lab Sample ID: 0810307

Level (low/med): LOW Date Received: 08/19/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.0	U		P
7440-36-0	Antimony	14.0	U		P
7440-38-2	Arsenic	3.0	U		F
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	3.0	U		P
7440-70-2	Calcium	15.0	U		P
7440-47-3	Chromium	2.0	U		P
7440-48-4	Cobalt	2.0	U		P
7440-50-8	Copper	4.0	U		P
7439-89-6	Iron	5.0	U		P
7439-92-1	Lead	3.9			F
7439-95-4	Magnesium	22.0	U		P
7439-96-5	Manganese	1.5	B		P
7439-97-6	Mercury	0.24	U		CV
7440-02-0	Nickel	8.0	U		P
7440-09-7	Potassium	1200	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	78.1	B		P
7440-28-0	Thallium	3.0	U		F
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	7.2	B		P
5955-70-0	Cyanide	1.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC ASP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

ab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Initial Calibration Source: SPEX_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	4000.0	3818.94	95.5	4000.0	3820.40	95.5	3870.13	96.8	P
Antimony	4000.0	3866.53	96.7	4000.0	3865.83	96.6	3945.28	98.6	P
Arsenic	40.0	40.63	101.6	40.0	41.56	103.9	40.79	102.0	F
Barium	4000.0	3938.19	98.5	4000.0	3941.72	98.5	4022.86	100.6	P
Beryllium	4000.0	3803.65	95.1	4000.0	3811.37	95.3	3902.79	97.6	P
Cadmium	4000.0	3955.66	98.9	4000.0	3982.65	99.6	4061.54	101.5	P
Calcium	40000.0	39437.89	98.6	40000.0	39579.20	98.9	40319.91	100.8	P
Chromium	4000.0	3862.34	96.6	4000.0	3861.02	96.5	3935.53	98.4	P
Cobalt	4000.0	3880.88	97.0	4000.0	3887.72	97.2	3957.18	98.9	P
Copper	4000.0	3873.18	96.8	4000.0	3880.96	97.0	3943.75	98.6	P
Iron	4000.0	3868.17	96.7	4000.0	3873.87	96.8	3964.53	99.1	P
Lead	40.0	42.29	105.7	40.0	39.87	99.7	40.64	101.6	F
Magnesium	40000.0	38664.66	96.7	40000.0	38835.70	97.1	39341.80	98.4	P
Manganese	4000.0	3927.27	98.2	4000.0	3931.19	98.3	3986.57	99.7	P
Mercury	4.0	3.68	92.0	4.0	3.54	88.5	4.11	102.8	CV
Nickel	4000.0	3880.59	97.0	4000.0	3890.94	97.3	3984.64	99.6	P
Potassium	40000.0	40623.10	101.6	40000.0	39065.35	97.7	39503.47	98.8	P
Selenium	40.0	40.71	101.8	40.0	39.03	97.6	39.15	97.9	F
Silver	1000.0	957.50	95.8	1000.0	957.72	95.8	969.31	96.9	P
Sodium	4000.0	3987.96	99.7	4000.0	4007.30	100.2	4096.01	102.4	P
Thallium	40.0	42.03	105.1	40.0	41.82	104.6	41.90	104.8	F
Vanadium	4000.0	3968.64	99.2	4000.0	3967.36	99.2	4068.67	101.7	P
Zinc	4000.0	3964.19	99.1	4000.0	3973.12	99.3	4075.98	101.9	P
Cyanide	80.0	69.00	86.2	200.0	200.00	100.0	204.00	102.0	C

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

NYSDEC ASP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Initial Calibration Source: SPEX_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				4000.0	3863.42	96.6	3851.16	96.3	P
Antimony				4000.0	3924.36	98.1	3906.22	97.7	P
Arsenic				40.0	40.83	102.1	40.13	100.3	F
Barium				4000.0	4024.31	100.6	4015.48	100.4	P
Beryllium				4000.0	3867.83	96.7	3865.36	96.6	P
Cadmium				4000.0	4073.76	101.8	4074.72	101.9	P
Calcium				40000.0	40286.77	100.7	39786.93	99.5	P
Chromium				4000.0	3927.20	98.2	3909.11	97.7	P
Cobalt				4000.0	3936.49	98.4	3921.12	98.0	P
Copper				4000.0	3914.94	97.9	3904.57	97.6	P
Iron				4000.0	3943.08	98.6	3933.14	98.3	P
Lead				40.0	41.14	102.8	39.94	99.8	F
Magnesium				40000.0	39020.00	97.6	38498.58	96.2	P
Manganese				4000.0	3971.56	99.3	3947.25	98.7	P
Mercury									NR
Nickel				4000.0	3973.79	99.3	4014.44	100.4	P
Potassium				40000.0	40501.40	101.3	39734.70	99.3	P
Selenium				40.0	38.33	95.8	37.53	93.8	F
Silver				1000.0	969.75	97.0	964.06	96.4	P
Sodium				4000.0	4094.75	102.4	4111.43	102.8	P
Thallium				40.0	42.44	106.1	39.46	98.6	F
Vanadium				4000.0	4061.62	101.5	4064.52	101.6	P
Zinc				4000.0	4056.82	101.4	4084.28	102.1	P
Cyanide				200.0	202.00	101.0			C

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

NYSDEC ASP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Initial Calibration Source: SPEX_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	40.0	41.36	103.4	40.0	41.49	103.7	41.18	103.0	F
Magnesium									NR
Manganese									NR
Mercury	4.0	3.69	92.2	4.0	3.97	99.2	4.04	101.0	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

NYSDEC ASP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Initial Calibration Source: SPEX_____

Continuing Calibration Source: SPEX_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				40.0	41.31	103.3			F
Magnesium									NR
Manganese									NR
Mercury				4.0	3.40	85.0			CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

NYSDEC ASP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

AA CRDL Standard Source: INORGANIC VE

ICP CRDL Standard Source: INORGANIC VE

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0	124.11	103.4	124.10	103.4
Arsenic	10.0	12.78	127.8					
Barium								
Beryllium				10.0	9.66	96.6	9.98	99.8
Cadmium				10.0	11.10	111.0	8.87	88.7
Calcium								
Chromium				20.0	17.81	89.0	18.25	91.2
Cobalt				100.0	101.02	101.0	101.80	101.8
Copper				50.0	47.82	95.6	48.39	96.8
Iron								
Lead	3.0	3.16	105.3					
Magnesium								
Manganese				30.0	31.20	104.0	31.20	104.0
Mercury	0.2	0.15	75.0					
Nickel				80.0	76.69	95.9	84.14	105.2
Potassium								
Selenium	5.0	5.32	106.4					
Silver				20.0	17.06	85.3	19.68	98.4
Sodium								
Thallium	10.0	12.26	122.6					
Vanadium				100.0	99.74	99.7	102.31	102.3
Zinc				40.0	41.46	103.6	40.69	101.7

NYSDEC ASP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

A CRDL Standard Source: INORGANIC VE

ICP CRDL Standard Source: _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	3.0	3.45	115.0					
Magnesium								
Manganese								
Mercury	0.2	0.38	190.0					
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

NYSDEC ASP

3
BLANKS

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	14.0	U	14.0	U	14.0	U	14.0	U	-23.990	B	P
Antimony	14.0	U	14.0	U	14.0	U	14.0	U	14.000	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	F
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Calcium	15.0	U	15.0	U	15.0	U	37.0	B	-31.641	B	P
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cobalt	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Copper	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Iron	5.0	U	5.0	U	5.0	U	9.7	B	5.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.050	B	F
Magnesium	22.0	U	22.0	U	22.0	U	22.0	U	22.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.1	B	1.000	U	P
Mercury	0.2	U	0.2	U	0.2	U			0.244	U	CV
Nickel	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Potassium	-1204.8	B	1202.0	U	-2093.2	B	1202.0	U	-1959.352	B	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	16.7	B	16.0	U	16.0	U	48.1	B	50.599	B	P
Thallium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	F
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc	1.0	U	1.0	U	1.3	B	2.6	B	1.106	B	P
Cyanide	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	C

NYSDEC ASP

3
BLANKS

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			14.0	U					-4.018	B	P
Antimony			16.1	B					2.800	U	P
Arsenic			3.0	U					0.600	U	F
Barium			1.0	U					0.200	U	P
Beryllium			1.0	U					0.200	U	P
Cadmium			3.0	U					0.600	U	P
Calcium			40.2	B					-7.393	B	P
Chromium			2.0	U					0.400	U	P
Cobalt			2.0	U					0.400	U	P
Copper			4.0	U					0.800	U	P
Iron			11.9	B					3.383	B	P
Lead			1.0	U					0.200	U	F
Magnesium			22.0	U					4.400	U	P
Manganese			1.1	B					0.200	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.122	U	CV
Nickel			8.0	U					1.600	U	P
Potassium			-1350.9	B					240.400	U	P
Selenium			2.0	U					0.400	U	F
Silver			2.0	U					0.400	U	P
Sodium			54.8	B					6.980	B	P
Thallium			3.0	U					0.600	U	F
Vanadium			3.0	U					0.600	U	P
Zinc			2.7	B					0.200	U	P
Cyanide									0.100	U	C

NYSDEC ASP

3
BLANKS

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.0	U	1.0	U	1.0	U			F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

NYSDEC ASP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No: _____ SDG No.: 810301

ICP ID Number: ENVIROP_____ ICS Source: INORGANIC VE

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	484000	496000	484105	484155.0	97.6	485940	485718.8	97.9
Antimony								
Arsenic								
Barium		496		470.5	94.9		478.5	96.5
Beryllium		437		449.7	102.9		453.8	103.8
Cadmium		904		934.3	103.4		956.7	105.8
Calcium	444000	457000	457792	457888.8	100.2	463354	460556.9	100.8
Chromium		425		447.8	105.4		451.6	106.3
Cobalt		412		435.5	105.7		438.4	106.4
Copper		470		466.1	99.2		468.2	99.6
Iron	167000	172000	173254	169983.0	98.8	175831	171709.5	99.8
Lead								
Magnesium	478000	489000	477147	483203.5	98.8	476196	480599.2	98.3
Manganese		416		450.6	108.3		450.8	108.4
Mercury								
Nickel		855		856.5	100.2		890.6	104.2
Potassium								
Selenium								
Silver		919		952.5	103.6		959.7	104.4
Sodium								
Thallium								
Vanadium		457		457.1	100.0		464.4	101.6
Zinc		885		943.5	106.6		956.1	108.0

NYSDEC ASP

5A
SPIKE SAMPLE RECOVERY

NYSDEC SAMPLE NO.

SD-1S

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Level (low/med):

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	87.0498		2.9319	U	104.7	83.1		P
Arsenic	75-125	8.2848		0.6283	U	8.4	98.9		F
Barium	75-125	339.5102		4.5872	B	418.8	80.0		P
Beryllium	75-125	9.5066		0.2094	U	10.5	90.8		P
Cadmium	75-125	10.7613		0.6283	U	10.5	102.8		P
Calcium									NR
Chromium	75-125	41.7137		3.1137		41.9	92.2		P
Cobalt	75-125	97.2073		0.5985	B	104.7	92.3		P
Copper	75-125	50.2105		1.2806	B	52.4	93.4		P
Iron									NR
Lead	75-125	5.6733		1.5435		4.2	98.6		F
Magnesium									NR
Manganese	75-125	131.2050		23.4448		104.7	102.9		P
Mercury	75-125	0.4859		0.1277	U	0.5	93.4		CV
Nickel	75-125	99.6145		1.6754	U	104.7	95.1		P
Potassium									NR
Selenium	75-125	1.7634		0.4188	U	2.1	84.4		F
Silver	75-125	8.9213		0.4188	U	10.5	85.2		P
Sodium									NR
Thallium	75-125	9.3759		0.6283	U	10.5	89.6		F
Vanadium	75-125	96.0312		3.4111	B	104.7	88.5		P
Zinc	75-125	102.1007		3.6612	B	104.7	94.0		P
Cyanide	75-125	22.8796		0.1047	U	20.9	109.3		C

Comments:

NYSDEC ASP

6
DUPLICATES

NYSDEC SAMPLE NO.

SD-1D

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Level (low/med):

Solids for Sample: 95.5 % Solids for Duplicate: 95.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1543.4647		1430.6748		7.6		P
Antimony		2.9319	U	2.9319	U			P
Arsenic		0.6283	U	1.0325	B	200.0		F
Barium		4.5872	B	4.5005	B	1.9		P
Beryllium		0.2094	U	0.2094	U			P
Cadmium		0.6283	U	0.6283	U			P
Calcium		103.9072	B	170.8052	B	48.7		P
Chromium	2.1	3.1137		3.7110		17.5		P
Cobalt		0.5985	B	0.4188	U	200.0		P
Copper		1.2806	B	1.5150	B	16.8		P
Iron		2490.7030		2455.7755		1.4		P
Lead	0.6	1.5435		2.1340		32.1		F
Magnesium		113.1282	B	150.2346	B	28.2		P
Manganese		23.4448		25.9862		10.3		P
Mercury		0.1277	U	0.1277	U			CV
Nickel		1.6754	U	1.6754	U			P
Potassium		251.7277	U	251.7277	U			P
Selenium		0.4188	U	0.4188	U			F
Silver		0.4188	U	0.4188	U			P
Sodium		26.8283	B	18.5908	B	36.3		P
Thallium		0.6283	U	0.6283	U			F
Vanadium		3.4111	B	2.7464	B	21.6		P
Zinc		3.6612	B	3.6299	B	0.9		P
Cyanide		0.1047	U	0.1047	U			C

NYSDEC ASP

7

LABORATORY CONTROL SAMPLE

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

Solid LCS Source: SPEX_____

Aqueous LCS Source: SPEX_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	4000.0	3511.61	87.8	400.0	363.6		320.0	480.0	90.9
Antimony	4000.0	3510.22	87.8	100.0	92.8		80.0	120.0	92.8
Arsenic	40.0	40.48	101.2	8.0	7.7		6.4	9.6	96.2
Barium	4000.0	3627.38	90.7	400.0	343.4		320.0	480.0	85.8
Beryllium	4000.0	3599.49	90.0	10.0	8.9		8.0	12.0	89.0
Cadmium	4000.0	3542.99	88.6	11.0	10.5		8.8	12.8	95.5
Calcium	40000.0	35509.48	88.8	2000.0	1838.8		1600.0	2400.0	91.9
Chromium	4000.0	3505.87	87.6	40.0	36.3		32.0	48.0	90.8
Cobalt	4000.0	3502.89	87.6	100.0	92.3		80.0	120.0	92.3
Copper	4000.0	3553.47	88.8	50.0	46.4		40.0	60.0	92.8
Iron	4000.0	3567.34	89.2	200.0	183.0		160.0	240.0	91.5
Lead	40.0	42.32	105.8	4.0	4.0		3.2	4.8	100.0
Magnesium	40000.0	34762.48	86.9	2000.0	1758.9		1600.0	2400.0	87.9
Manganese	4000.0	3544.10	88.6	100.0	93.6		80.0	120.0	93.6
Mercury	1.0	1.09	108.6	0.5	0.6		0.4	0.6	120.0
Nickel	4000.0	3507.97	87.7	100.0	94.5		80.0	120.0	94.5
Potassium	40000.0	34148.72	85.4	4000.0	3390.5		3200.0	4800.0	84.8
Selenium	40.0	37.58	94.0	2.0	1.8		1.6	2.4	90.0
Silver	1000.0	854.96	85.5	10.0	8.2		7.2	10.8	82.0
Sodium	4000.0	3825.12	95.6	2000.0	1867.2		1600.0	2400.0	93.4
Thallium	40.0	40.88	102.2	10.0	9.4		8.0	12.0	94.0
Vanadium	4000.0	3623.74	90.6	100.0	89.7		80.0	120.0	89.7
Zinc	4000.0	3585.82	89.6	100.0	91.9		80.0	120.0	91.9
Cyanide				117.0	116.1		93.6	140.4	99.2

NYSDEC ASP

8
STANDARD ADDITION RESULTS

Lab Name: LRI_____ Contract:_____

Lab Code: LRI___ Case No.: 08103 SAS No.:_____ SDG No.:810301

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
SD-2	PB	0.162	10.00	0.220	20.00	0.281	30.00	0.338	27.5	0.9999	
SD-5	PB	0.216	15.00	0.305	30.00	0.391	45.00	0.475	38.1	0.9999	

FORM VIII - IN

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NYSDEC ASP

9

ICP SERIAL DILUTION

NYSDEC SAMPLE NO.

SD-1L

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

Matrix (soil/water): SOIL Level (low/med):

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	7370.04		7341.94		0.4		P
Antimony	14.00	U	70.00	U			P
Arsenic							
Barium	21.90	B	22.22	B	1.5		P
Beryllium	1.00	U	5.00	U			P
Cadmium	3.00	U	15.00	U			P
Calcium	496.16	B	398.30	B	19.7		P
Chromium	14.87		13.55	B	8.9		P
Cobalt	2.86	B	10.00	U	100.0		P
Copper	6.12	B	20.00	U	100.0		P
Iron	11893.11		12002.16		0.9		P
Lead							
Magnesium	540.19	B	560.08	B	3.7		P
Manganese	111.95		118.48		5.8		P
Mercury							
Nickel	8.00	U	40.00	U			P
Potassium	1202.00	U	6010.00	U			P
Selenium							
Silver	2.00	U	10.00	U			P
Sodium	128.10	B	395.24	B	208.5		P
Thallium							
Vanadium	16.29	B	18.19	B	11.7		P
Zinc	17.48	B	23.78	B	36.0		P

NYSDEC ASP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: ENVIROP_____ Date: 05/27/94

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	14.0	P
Antimony	206.80		60	14.0	P
Arsenic			10		NR
Barium	493.40		200	1.0	P
Beryllium	313.00		5	1.0	P
Cadmium	228.80		5	3.0	P
Calcium	317.90		5000	15.0	P
Chromium	267.70		10	2.0	P
Cobalt	228.60		50	2.0	P
Copper	324.70		25	4.0	P
Iron	259.90		100	5.0	P
Lead			3		NR
Magnesium	279.00		5000	22.0	P
Manganese	257.60		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	8.0	P
Potassium	766.40		5000	1202.0	P
Selenium			5		NR
Silver	328.00		10	2.0	P
Sodium	588.90		5000	16.0	P
Thallium			10		NR
Vanadium	292.40		50	3.0	P
Zinc	213.80		20	1.0	P

Comments:

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NYSDEC ASP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: _____ Date: 07/01/94

Flame AA ID Number : _____

Furnace AA ID Number : PE5100#2____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.80	BZ	10	3.0	F
Vanadium			50		NR
Zinc			20		NR

Comments:

FORM XI - IN

9/89
12/91 27

NYSDEC ASP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: _____ Date: 07/01/94

Flame AA ID Number : _____

Furnace AA ID Number : PE5100#3____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	193.70	BZ	10	3.0	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BZ	3	1.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BZ	5	2.0	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

FORM XI - IN

~~9/89~~ 12/9/28

NYSDEC ASP

1@
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: _____ Date: 08/02/94

Flame AA ID Number : TJA1000_____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70	BD	0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

~~9/89~~ 12/9/29

NYSDEC ASP

1A

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

ICP ID Number: ENVIROP Date: 02/24/94

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AG
Aluminum	308.20		0.0000500			
Antimony	206.80					
Arsenic	193.60					0.0000270
Barium	493.40					
Beryllium	313.00					
Cadmium	228.80					
Calcium	317.90					
Chromium	267.70		0.0066500	0.0032200		
Cobalt	228.60					
Copper	324.70					
Iron	259.90					-0.0001300
Lead	220.30					
Magnesium	279.00					
Manganese	257.60		0.0025100			0.0001200
Mercury						
Nickel	231.60					
Potassium	766.40					
Selenium	196.00					
Silver	328.00			0.0004500		
Sodium	588.90					
Thallium	190.80					
Vanadium	292.40		0.0004600			
Zinc	213.80					

Comments:

FORM XII (PART 1) - IN

~~9/89~~ 12/91

NYSDEC ASP

1B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: ENVIROP_____ Date: 02/24/94

Analyte	Wavelength (nm)	Interelement Correction Factors for : AS	B	BA	BE	CD
Aluminum	308.20	0.0048300				
Antimony	206.80	0.0004600				
Arsenic	193.60					0.0156000
Barium	493.40					
Beryllium	313.00					0.0016300
Cadmium	228.80					
Calcium	317.90			0.0000040	0.0000030	0.0000140
Chromium	267.70	0.0013200	0.0002100		0.0000300	
Cobalt	228.60		0.0012800			0.0001100
Copper	324.70					
Iron	259.90	0.0002000	-0.0003500	0.0000160		-0.0000500
Lead	220.30					
Magnesium	279.00				0.0000050	
Manganese	257.60					
Mercury						
Nickel	231.60	0.0006300				
Potassium	766.40					
Selenium	196.00					
Silver	328.00					
Sodium	588.90					
Thallium	190.80					
Vanadium	292.40	0.0100700			0.0031000	0.0001000
Zinc	213.80					

Comments:

NYSDEC ASP

1B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

ICP ID Number: ENVIROP Date: 02/24/94

Analyte	Wavelength (nm)	Interelement Correction Factors for : CO	CR	CU	K	MN
Aluminum	308.20			0.0000050	-0.0004000	0.0000230
Antimony	206.80					
Arsenic	193.60					
Barium	493.40	0.0006700				
Beryllium	313.00			0.0002000		
Cadmium	228.80	0.0011100				
Calcium	317.90				0.0020000	0.0000090
Chromium	267.70	0.0003500				
Cobalt	228.60					
Copper	324.70					
Iron	259.90		0.0000120	-0.0002000	-0.0035500	0.0002350
Lead	220.30					
Magnesium	279.00		0.0000020		0.0020000	0.0000450
Manganese	257.60		0.0001100	0.0002900		
Mercury						
Nickel	231.60					
Potassium	766.40					
Selenium	196.00					
Silver	328.00					
Sodium	588.90					
Thallium	190.80					
Vanadium	292.40		0.0004500			
Zinc	213.80					

Comments:

NYSDEC ASP

1~~2~~B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: ENVIROP_____ Date: 02/24/94

Analyte	Wavelength (nm)	Interelement Correction Factors for : MO	NA	NI	PB	SB
Aluminum	308.20		0.0001000		0.0013000	
Antimony	206.80					
Arsenic	193.60					0.0005000
Barium	493.40					
Beryllium	313.00		0.0367000			
Cadmium	228.80					
Calcium	317.90		-0.0004500			
Chromium	267.70			0.0001100		0.0114800
Cobalt	228.60			0.0003200		
Copper	324.70		0.0364000			
Iron	259.90	-0.0043000	0.0001000		0.0001000	0.0000500
Lead	220.30					
Magnesium	279.00		-0.0004000	0.0000050		0.0000700
Manganese	257.60		0.0567000			
Mercury						
Nickel	231.60				0.0002100	
Potassium	766.40					
Selenium	196.00					
Silver	328.00					
Sodium	588.90					
Thallium	190.80			0.0002900		
Vanadium	292.40	0.0006600				
Zinc	213.80					

Comments:

NYSDEC ASP

1B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 08103 SAS No.: SDG No.: 810301

ICP ID Number: ENVIROP Date: 02/24/94

Analyte	Wave-length (nm)	Interelement Correction Factors for : SE	SI	TI	TL	V
Aluminum	308.20					
Antimony	206.80					
Arsenic	193.60					
Barium	493.40					
Beryllium	313.00					
Cadmium	228.80					
Calcium	317.90					
Chromium	267.70			0.0002500	0.0007700	0.0003900
Cobalt	228.60	0.0009000			0.0059700	
Copper	324.70					
Iron	259.90	-0.0001700	0.0000100		0.0031000	0.0002070
Lead	220.30					
Magnesium	279.00		0.0002530	0.0000200		
Manganese	257.60					
Mercury						
Nickel	231.60					
Potassium	766.40					
Selenium	196.00					
Silver	328.00					
Sodium	588.90					
Thallium	190.80					
Vanadium	292.40	0.0004000			0.0030500	
Zinc	213.80					

Comments:

FORM XII (PART 2) - IN

~~9/89~~ 12/91

NYSDEC ASP

1B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: ENVIROP_____ Date: 02/24/94

Analyte	Wavelength (nm)	Interelement Correction Factors for : ZN	—	—	—	—
Aluminum	308.20	0.0000490				
Antimony	206.80					
Arsenic	193.60					
Barium	493.40					
Beryllium	313.00					
Cadmium	228.80					
Calcium	317.90					
Chromium	267.70					
Cobalt	228.60					
Copper	324.70	0.0019000				
Iron	259.90	0.0000480				
Lead	220.30					
Magnesium	279.00	0.0000490				
Manganese	257.60	0.0005700				
Mercury						
Nickel	231.60	0.0039400				
Potassium	766.40					
Selenium	196.00					
Silver	328.00	0.0001700				
Sodium	588.90					
Thallium	190.80					
Vanadium	292.40					
Zinc	213.80					

Comments:

FORM XII (PART 2) - IN

~~9/89~~ 12/9B5

NYSDEC ASP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103 SAS No.: _____ SDG No.: 810301

ICP ID Number: ENVIROP_____ Date: 05/27/94

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	10.00	500000.0	P
Antimony	10.00	200000.0	P
Arsenic	10.00	200000.0	P
Barium	10.00	200000.0	P
Beryllium	10.00	100000.0	P
Cadmium	10.00	200000.0	P
Calcium	10.00	500000.0	P
Chromium	10.00	200000.0	P
Cobalt	10.00	200000.0	P
Copper	10.00	200000.0	P
Iron	10.00	400000.0	P
Lead	10.00	200000.0	P
Magnesium	10.00	500000.0	P
Manganese	10.00	150000.0	P
Mercury			NR
Nickel	10.00	200000.0	P
Potassium	10.00	1000000.0	P
Selenium	10.00	200000.0	P
Silver	10.00	100000.0	P
Sodium	10.00	500000.0	P
Thallium	10.00	200000.0	P
Vanadium	10.00	100000.0	P
Zinc	10.00	200000.0	P

Comments:

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.:_08103_ SAS No.: _____ SDG No.:810301

Method: P_

Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FB	08/15/94		100
LCSS	08/15/94	1.00	200
LCSW	08/15/94		100
PBS	08/15/94	1.00	200
PBW	08/15/94		100
SD-1	08/15/94	1.00	200
SD-1D	08/15/94	1.00	200
SD-1S	08/15/94	1.00	200
SD-2	08/15/94	1.00	200
SD-3	08/15/94	1.00	200
SD-4	08/15/94	1.00	200
SD-5	08/15/94	1.00	200
SD-6	08/15/94	1.00	200

FORM XIII - IN

~~LLMO2.1~~
12/91

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.:_08103_ SAS No.: _____ SDG No.:810301

Method: F_

Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FB	08/15/94		100
LCSS	08/15/94	1.00	200
LCSW	08/15/94		100
PBS	08/15/94	1.00	200
PBW	08/15/94		100
SD-1	08/15/94	1.00	200
SD-1D	08/15/94	1.00	200
SD-1S	08/15/94	1.00	200
SD-2	08/15/94	1.00	200
SD-3	08/15/94	1.00	200
SD-4	08/15/94	1.00	200
SD-5	08/15/94	1.00	200
SD-6	08/15/94	1.00	200

FORM XIII - IN

~~ILMO2.1~~
12/91

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.:_08103_ SAS No.: _____ SDG No.:810301

Method: CV

Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FB	08/18/94		100
LCSW	08/18/94		100
PBW	08/18/94		100

FORM XIII - IN

~~ILM02.1~~ 12/91

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.:_08103_ SAS No.: _____ SDG No.:810301

Method: CV

Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/18/94	0.20	100
PBS	08/18/94	0.20	100
SD-1	08/18/94	0.20	100
SD-1D	08/18/94	0.20	100
SD-1S	08/18/94	0.20	100
SD-2	08/18/94	0.20	100
SD-3	08/18/94	0.20	100
SD-4	08/18/94	0.20	100
SD-5	08/18/94	0.20	100
SD-6	08/18/94	0.20	100

FORM XIII - IN

~~ILM02.1~~
12/91

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.:_08103_ SAS No.: _____ SDG No.:810301

Method: C_

Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FB	08/06/94		500
LCSS	08/06/94	1.10	500
PBS	08/06/94	5.00	500
PBW	08/06/94		500
SD-1	08/06/94	5.00	500
SD-1D	08/06/94	5.00	500
SD-1S	08/06/94	5.00	500
SD-2	08/06/94	5.00	500
SD-3	08/06/94	5.00	500
SD-4	08/06/94	5.00	500
SD-5	08/06/94	5.00	500
SD-6	08/06/94	5.00	500

FORM XIII - IN

ILM02.1
12/91

14
ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: ENVIROP_____ Method: P_

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	Analytes																												
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN					
S0	1.00	0807		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
STD5	1.00	0811														X						X										
STD4	1.00	0815		X						X										X												
STD3	1.00	0819												X																		
STD2	1.00	0822					X				X	X	X						X						X							
STD1	1.00	0826			X			X	X								X									X					
STD6	1.00	0830																					X									
ICV	1.00	0833		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
ICB	1.00	0837		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
CCV	1.00	0841		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
CCB	1.00	0845		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
CRI	1.00	0849			X			X	X		X	X	X				X		X			X			X	X						
ICSA	1.00	0853		X						X				X		X																
ICSAB	1.00	0857		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
ZZZZZZ	1.00	0901																														
PBW	1.00	0905		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
LCSW	1.00	0909		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
FB	1.00	0913		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
PBS	1.00	0917		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
LCSS	1.00	0921		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-1	1.00	0925		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
CCV	1.00	0929		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
CCB	1.00	0933		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-1D	1.00	0937		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-1S	1.00	0941		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-1L	5.00	0945		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-2	1.00	0949		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-3	1.00	0953		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-4	1.00	0957		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-5	1.00	1001		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
SD-6	1.00	1005		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						
CCV	1.00	1009		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X						

FORM XIV - IN

~~HRMO2.1~~
12/91

14
ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: ENVIROP_____ Method: P_

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1012		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	1016			X			X	X		X	X	X				X		X			X			X	X	
ICSA	1.00	1020		X						X				X		X											
ICSAB	1.00	1024		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	1028		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1032		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#3_____ Method: F_

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1020				X																					
S10	1.00	1024				X																					
S25	1.00	1029				X																					
S50	1.00	1033				X																					
S75	1.00	1038				X																					
S100	1.00	1043				X																					
ICV	1.00	1050				X																					
ICB	1.00	1054				X																					
CCV	1.00	1059				X																					
CCB	1.00	1103				X																					
CRA-1	1.00	1108				X																					
PBW	1.00	1113				X																					
PBWA	1.00	1117	95.4			X																					
LCSW	1.00	1122				X																					
LCSWA	1.00	1126	101.3			X																					
FB	1.00	1131				X																					
FBA	1.00	1136	97.3			X																					
PBS	1.00	1140				X																					
PBSA	1.00	1145	103.1			X																					
CCV	1.00	1149				X																					
CCB	1.00	1154				X																					
LCSS	1.00	1159				X																					
LCSSA	1.00	1203	69.0			X																					
SD-1	1.00	1208				X																					
SD-1A	1.00	1213	121.2			X																					
SD-1D	1.00	1217				X																					
SD-1DA	1.00	1222	98.6			X																					
SD-1S	1.00	1226				X																					
SD-2	1.00	1231				X																					
SD-2A	1.00	1236	95.8			X																					
CCV	1.00	1240				X																					
CCB	1.00	1245				X																					

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#3_____ Method: F_

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SD-3	1.00	1249				X																					
SD-3A	1.00	1254	99.7			X																					
SD-4	1.00	1259				X																					
SD-4A	1.00	1303	106.5			X																					
SD-5	1.00	1308				X																					
SD-5A	1.00	1312	91.5			X																					
SD-6	1.00	1317				X																					
SD-6A	1.00	1322	119.5			X																					
CCV	1.00	1326				X																					
CCB	1.00	1331				X																					
ZZZZZZ	1.00	1336																									

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#3_____ Method: F_

Start Date: 08/15/94 End Date: 08/15/94

Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1717		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	1722		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S25	1.00	1729		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	1734		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S75	1.00	1739		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S100	1.00	1744		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	1750		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	1755		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1800		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1805		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA-1	1.00	1810		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBW	1.00	1815		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBWA	1.00	1820	92.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSW	1.00	1826		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSWA	1.00	1831	103.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FB	1.00	1836		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FBA	1.00	1841	98.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBS	1.00	1846		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBSA	1.00	1850	96.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1855		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1900		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS	1.00	1905		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSSA	1.00	1910	94.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SD-1	1.00	1914		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SD-1A	1.00	1919	93.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SD-1D	1.00	1924		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SD-1DA	1.00	1929	91.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SD-1S	1.00	1934		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SD-2	1.00	1939		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SD-2A	1.00	1944	90.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1949		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1954		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#3_____ Method: F_

Start Date: 08/15/94 End Date: 08/15/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SD-3	1.00	1959																		X						
SD-3A	1.00	2004	95.8																	X						
SD-4	1.00	2009																		X						
SD-4A	1.00	2014	100.2																	X						
SD-5	1.00	2019																		X						
SD-5A	1.00	2024	105.7																	X						
SD-6	1.00	2029																		X						
SD-6A	1.00	2033	98.6																	X						
CCV	1.00	2038																		X						
CCB	1.00	2043																		X						
ZZZZZZ	1.00	2048																								

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#2_____ Method: F_

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	Analytes																											
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1139																					X			
S10	1.00	1144																					X			
S25	1.00	1149																					X			
S50	1.00	1154																					X			
S75	1.00	1159																					X			
S100	1.00	1204																					X			
ICV	1.00	1210																					X			
ICB	1.00	1215																					X			
CCV	1.00	1220																					X			
CCB	1.00	1225																					X			
CRA-1	1.00	1230																					X			
PBW	1.00	1235																					X			
PBWA	1.00	1240	97.4																				X			
LCSW	1.00	1245																					X			
LCSWA	1.00	1250	93.5																				X			
FB	1.00	1255																					X			
FBA	1.00	1300	110.2																				X			
PBS	1.00	1305																					X			
PBSA	1.00	1310	102.0																				X			
CCV	1.00	1315																					X			
CCB	1.00	1320																					X			
LCSS	1.00	1325																					X			
LCSSA	1.00	1329	83.4																				X			
SD-1	1.00	1334																					X			
SD-1A	1.00	1339	91.5																				X			
SD-1D	1.00	1344																					X			
SD-1DA	1.00	1349	102.1																				X			
SD-1S	1.00	1354																					X			
SD-2	1.00	1359																					X			
SD-2A	1.00	1404	107.7																				X			
CCV	1.00	1409																					X			
CCB	1.00	1414																					X			

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ANALYSIS RUN LOG

Lab Name: LRI Contract: ____

Lab Code: LRI Case No.: 08103 SAS No.: ____ SDG No.:810301

Instrument ID Number: PE5100#2 Method: F

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SD-3	1.00	1419																						X			
SD-3A	1.00	1424	103.6																					X			
SD-4	1.00	1429																						X			
SD-4A	1.00	1434	100.2																					X			
SD-5	1.00	1439																						X			
SD-5A	1.00	1444	97.9																					X			
SD-6	1.00	1449																						X			
SD-6A	1.00	1453	96.0																					X			
CCV	1.00	1458																						X			
CCB	1.00	1503																						X			
ZZZZZZ	1.00	1508																									

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#3_____ Method: F_

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1440													X												
S3	1.00	1445													X												
S25	1.00	1451													X												
S50	1.00	1456													X												
S75	1.00	1502													X												
S100	1.00	1507													X												
ICV	1.00	1514													X												
ICB	1.00	1520													X												
CCV	1.00	1525													X												
CCB	1.00	1531													X												
CRA-1	1.00	1536													X												
PBW	1.00	1542													X												
PBWA	1.00	1548	93.0												X												
LCSW	1.00	1553													X												
LCSWA	1.00	1559	63.2												X												
FB	1.00	1604													X												
FBA	1.00	1610	95.5												X												
PBS	1.00	1615													X												
PBSA	1.00	1621	94.5												X												
CCV	1.00	1626													X												
CCB	1.00	1631													X												
LCSS	1.00	1637													X												
LCSSA	1.00	1642	84.8												X												
SD-1	1.00	1647													X												
SD-1A	1.00	1652	91.5												X												
SD-1D	1.00	1658													X												
SD-1DA	1.00	1703	92.0												X												
SD-1S	1.00	1709													X												
SD-2	1.00	1714																									
SD-2A	1.00	1720	65.5																								
CCV	1.00	1725													X												
CCB	1.00	1731													X												

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#3_____ Method: F_

Start Date: 08/16/94 End Date: 08/16/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SD-3	5.00	1737																												
SD-3A	5.00	1742	-9999.9																											
SD-4	1.00	1748													X															
SD-4A	1.00	1753	88.3												X															
SD-5	1.00	1758																												
SD-5A	1.00	1804	54.5																											
SD-6	1.00	1809													X															
SD-6A	1.00	1814	103.7												X															
CCV	1.00	1820													X															
CCB	1.00	1825													X															
ZZZZZZ	1.00	1831																												

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: PE5100#3_____ Method: F_

Start Date: 08/17/94 End Date: 08/17/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1200													X												
S3	1.00	1205													X												
S25	1.00	1209													X												
S50	1.00	1214													X												
S75	1.00	1219													X												
S100	1.00	1224													X												
ICV	1.00	1231													X												
ICB	1.00	1235													X												
CCV	1.00	1240													X												
CCB	1.00	1245													X												
CRA-2	1.00	1250													X												
PBS	1.00	1255																									
PBSA	1.00	1300	89.5																								
SD-3	10.00	1305													X												
SD-3A	10.00	1310	94.2												X												
SD-20	2.00	1315													X												
SD-21	2.00	1320													X												
SD-22	2.00	1324													X												
SD-23	2.00	1329													X												
CCV	1.00	1334													X												
CCB	1.00	1338													X												
SD-50	2.00	1343													X												
SD-51	2.00	1348													X												
SD-52	2.00	1352													X												
SD-53	2.00	1357													X												
CCV	1.00	1402													X												
CCB	1.00	1406													X												
ZZZZZZ	1.00	1411																									

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: TJA1000_____ Method: CV

Start Date: 08/19/94 End Date: 08/19/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1244																X									
S0.2	1.00	1246																X									
S0.5	1.00	1249																X									
S2	1.00	1251																X									
S5	1.00	1253																X									
S10	1.00	1255																X									
ICV	1.00	1258																X									
ICB	1.00	1301																X									
CCV	1.00	1303																X									
CCB	1.00	1306																X									
CRA-1	1.00	1308																X									
PBW	1.00	1311																X									
LCSW	1.00	1313																X									
ZZZZZZ	1.00	1316																									
ZZZZZZ	1.00	1318																									
FB	1.00	1321																X									
CCV	1.00	1323																X									
CCB	1.00	1326																X									

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: TJA1000_____ Method: CV

Start Date: 08/19/94 End Date: 08/19/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0944																X									
S0.2	1.00	0946																X									
S0.5	1.00	0948																X									
S2	1.00	0951																X									
S5	1.00	0953																X									
S10	1.00	0955																X									
ICV	1.00	0958																X									
ICB	1.00	1000																X									
CCV	1.00	1003																X									
CCB	1.00	1005																X									
CRA-2	1.00	1008																X									
PBS	1.00	1010																X									
LCSS	1.00	1013																X									
ZZZZZZ	1.00	1015																									
ZZZZZZ	1.00	1018																									
ZZZZZZ	1.00	1020																									
ZZZZZZ	1.00	1022																									
ZZZZZZ	1.00	1025																									
ZZZZZZ	1.00	1027																									
ZZZZZZ	1.00	1030																									
CCV	1.00	1032																X									
CCB	1.00	1035																X									
ZZZZZZ	1.00	1037																									
SD-1	1.00	1040																X									
SD-1D	1.00	1042																X									
SD-1S	1.00	1045																X									
SD-2	1.00	1047																X									
SD-3	1.00	1050																X									
SD-4	1.00	1052																X									
SD-5	1.00	1055																X									
SD-6	1.00	1057																X									
CCV	1.00	1100																X									

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: TJA1000_____ Method: CV

Start Date: 08/19/94 End Date: 08/19/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1102																X									

FORM XIV - IN

~~ILM02.1~~ 12/91

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ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 08103_ SAS No.: _____ SDG No.:810301

Instrument ID Number: MR61_____ Method: C_

Start Date: 08/22/94 End Date: 08/22/94

Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0930																									X
S20	1.00	0934																									X
S40	1.00	0938																									X
S100	1.00	0942																									X
S200	1.00	0947																									X
S300	1.00	0951																									X
S400	1.00	0955																									X
S800	1.00	0959																									X
DIST.STN	1.00	1004																										
ICV	1.00	1008																									X
ICB	1.00	1012																									X
CCV	1.00	1017																									X
CCB	1.00	1021																									X
PBW	1.00	1025																									X
PBS	1.00	1029																									X
LCSS	1.00	1034																									X
SD-1	1.00	1038																									X
SD-1D	1.00	1042																									X
SD-1S	1.00	1047																									X
SD-2	1.00	1051																									X
SD-3	1.00	1055																									X
SD-4	1.00	1059																									X
SD-5	1.00	1104																									X
CCV	1.00	1108																									X
CCB	1.00	1112																									X
SD-6	1.00	1117																									X
FB	1.00	1121																									X
CCV	1.00	1125																									X
CCB	1.00	1129																									X

LABORATORY CHRONICLE

-ICP-

METALS DEPT

00061

DATE: 8/16/94
SHIFT: Day
INSTR NO.: ICAP61E
TABLE: 1500994A
DATA FILE: B895ASP
ANALYST: Mike Polidori
BATCH NO.: 891,895
RAW DATA W/: 895
SUPERVISOR: [signature]

STANDARD ID.	LOT NO.
STD 1	A-090-01
STD 2	A-090-02
STD 3	A-090-03
STD 4	A-090-04
STD 5	A-090-05
ICB,CCB.CAL BLK	A-009-09
ICV,CCV	A-159-01
ICSA	A-227-02
ICSAB	A-267-02
Al 500	
Fe 500	
Ca 500	
Mg 500	
CRI /STD 6	A-202-01/A-606-01

SAMPLE NO.	BATCH NO.	CUP NO.	MATRIX	DILUTION FACTORS PREP.	INSTR.	FINAL	ELEMENTS
ICV-1		2-1			10		
ICB-1		2-2			↓		
CCV-1-1		2-3			↓		
CCB-1-1		2-4			↓		
CRI-1-1		2-5			↓		
ICSA-1-1		2-6			↓		
ICSAB-1-1		2-7			↓		
0736601A	891	2-8	Soil	2000		2000	Sb, Mn Spiked with 120ul of 10ppm Sb and 15ul of 1,000ppm Mn to fin. 10ml
PBW-995	995	2-9	Liquid	10		10	TAL METALS
LCSW-995	↓	2-10		↓		↓	↓
0910307	↓	2-11		↓		↓	↓
PBS-995	↓	2-12	Sand	2000		2000	↓
LCSS-995	↓	2-13	↓	↓		↓	↓
0910301	↓	2-14	Soil	↓		↓	↓
CCV-1-2		2-15			10		
CCB-1-2		2-16			↓		
0910301D	895	2-17	Soil	2000		2000	TAL METALS
0910301S	↓	2-18	↓	↓		↓	↓
0910301L	↓	2-19	↓	↓		↓	↓
0910302	↓	2-20	↓	↓		↓	↓
0910303	↓	2-21	↓	↓		↓	↓

LABORATORY CHRONICLE

-ICP-

METALS DEPT 00062

DATE: 8/16/94

BATCH NO.: 895

ANALYST: Mike Polidori

SAMPLE NO.	BATCH NO.	CUP NO.	MATRIX	DILUTION FACTORS PREP.	INSTR.	FINAL	ELEMENTS
CC10304	895	2-22	Soil	2000		2000	TAL METALS
CC10305	↓	2-23	↓	↓		↓	↓
CC10306	↓	2-24	↓	↓		↓	↓
CCV-1-3		2-25			ID		
CCB-1-3		2-26			↓		
CRI-1-2		2-27					
ICSA-1-2		2-28					
ICSAB-1-2		2-29					
CCV-1-4		2-30					
CCB-1-4		2-31					

TITLE

PROJECT NO.

BOOK NO.

Lot No. LRI	STD	Manufacturer	Lot No.	Conc. ppm	Date Recd	Date Open	Exp. Date	Notes
A-49-01	Ti	IV	H-TI0110	997	7/8/93	8/2/93	8/1/94	
A-49-02	Cd	IV	1-CD-0143	996	7/8/93	7/29/93	8/1/94	
A-49-03	Fe	IV	1-FE0184	9944	7/8/93	7/29/93	8/1/94	
A-49-04	Mn	IV	1-MN01059	1003	7/8/93	8/4/93	8/1/94	
A-49-05	Na	IV	1-NA0150	10011	7/8/93	8/2/93	8/1/94	
A-49-06	B	IV	H-B0133	998	7/8/93	8/4/93	8/1/94	
A-49-07	Fe	IV	1-FE0183	1003	7/8/93	8/1/93	8/1/94	
A-49-08	Pb	IV	1-PB0106	1005	7/8/93	7/28/93	8/1/94	
A-49-09	Sb	IV	1-SB0172	997	7/8/93	7/28/93	8/1/94	
A-49-10	Ca	IV	1-CA0167	10,024	7/8/93	7/21/93	8/1/94	
A-49-11	Mg	IV	1-MG0174	10,020	7/8/93	10/11/93	8/1/94	
A-49-12	Co	IV	11-C00135	997	7/8/93	8/2/93	8/1/94	
A-49-13	Ba	IV	1-BA0152	1001	7/8/93	8/2/93	8/1/94	
A-49-14	Blank Cond	ERA	58001		6/16/93	7/31/93		Discard 3/3
A-49-15	Hg	IV	H-HG0135	1000	8/20/93	8/20/93	9/1/94	
A-49-16	As	Spex	2-247AS	1,000	8/23/93	8/14/93	8/31/94	
A-49-17	Ba	Spex	2-235BA	1,000	8/23/93	8/14/93	8/31/94	

SIGNATURE

DATE 10/19/93

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE

 TITLE

PROJECT NO.

BOOK NO.

Lot No. LRI	STD.	Manufacturer	Lot No.	Conc PPM	Date Recieved	Date Opened	Exp. Date	Notes
A-50-01	B	Spex	2-26B	1,000	9/23/93	10/21	8/31/94	
A-50-02	Mg	Spex	2-27Mg	1,000	9/23/93		9/31/94	
A-50-03	Hg	Spex	2-30HG	1,000	9/23/93	9/23/93	9/31/94	
A-50-04	Mo	Spex	2-26MO	1,000	9/23/93	10/13/93	9/31/94	
A-50-05	Se	Spex	3-70Se	1,000	9/23/93	10/1/93	9/31/94	
A-50-06	Ti	Spex	3-39Ti	1,000	9/23/93	10/13/93	9/31/94	
A-50-07	Y	Spex	3-89Y	1,000	9/23/93		9/31/94	
A-50-08	AL	Spex	E-135AL	10,000	9/23/93	10/29/93	9/30/94	
A-50-09	Fe	Spex	F-244FE	10,000	9/23/93	1/6/94	9/30/94	
A-50-10	Na	Spex	3-60NA	1,000	9/23/93	10/20/93	9/30/94	
A-50-11	Na	Spex	F-215NA	10,000	9/23/93	10/21/93	9/30/94	
A-50-12	Si	Spex	3-57Si	1,000	9/23/93	10/20/93	9/30/94	Standard contaminated not used [illegible]
A-50-13	Sb	Spex	D-169Sb	10,000	9/23/93	10/13/93	9/30/94	
A-50-14	Ag	I.V.	I-AG02068	1,0001	9/23/93	10/14/93	10/1/94	
A-50-15	Al	I.V.	I-AL02086	10,066	9/23/93	10/11/93	10/1/94	
A-50-16	As	I.V.	I-AS0147	999	9/23/93	10/14/93	10/1/94	
A-50-17	B	IV	I-B01057	1,000	9/23/93		10/1/94	

SIGNATURE [signature] DATE 10/19/93

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Lot # LRL	STD	MANUFACTURER	Lot No.	Conc PPM	Date Rec.	Date Opened	Exp Date	Notes
A-51-01	Bg	IV	I-BA0152	1,004	9/23/93		10/1/94	
A-51-02	Be	IV	I-BE0133	1,002	9/23/93	11/11/93	10/1/94	
A-51-03	Ca	IV	I-CA0103	999	9/23/93	10/14/93	10/1/94	
A-51-04	Cr	IV	I-CR0195	1,008	9/23/93	10/13/93	10/1/94	
A-51-05	K	IV	I-K01093	9,959	9/23/93	10/10/93	10/1/94	
A-51-06	Mg	IV	I-MG0193	1,002	9/23/93	10/14/93	10/1/94	
A-51-07	Sc	IV	I-SC0109	1,000	9/23/93	10/11/93	10/1/94	10
A-51-08	Si	Spex	3-11-Si	1000	10/28/93	11/16/93	11/15/93	replaces A-50-12
A-51-09	Blank Sand	ERA	58001	—	4/16/93	1/6/94		
A-51-10	Blank Sand	ERA	58001	—	11/21/94			
A-51-11	Blank Sand	ERA	58001	—	1/21/94			
A-51-12	Al	IV	I-AL0249	1,000	2/22/94	3-1-94	3/1/95	
A-51-13	Cu	IV	I-CU0108	999	2/22/94	3-1-94	3/1/95	
A-51-14	Ni	IV	I-NI0102	1004	2/22/94	3-1-94	3/1/95	
A-51-15	Ag	Spex	3-111-Ag	1,000	2/28/94	2/28/94	2/28/95	
A-51-16	Ca	Spex	3-150Ca	1000	2/28/94		2/28/95	
A-51-17	Cd	Spex	3-131-Cd	1000	2/28/94	2/28/94	2/28/95	

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

TITLE

PROJECT NO.

BOOK NO.

Lot # LRI	STD	Manufacturer	Lot No.	Conc PPM	Date Recd	Date Opened	Exp Date	Notes
A-52-01	Co	Spex	3-100Co	1000	2/28/94	2/28/94	2/28/95	
A-52-02	Ti	Spex	3-38Ti	1000	2/28/94	2/28/94	2/28/95	
A-52-03	Cu	Spex	3-78Cu	1000	2/28/94	2/28/94	2/28/95	
A-52-04	Sb	Spex	3-86Sb	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Mn	Spex	3-112Mn	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Blank sand	ERA	58001	—	1/21/94	3/2/94	NA	
A-52-06	Ti	Spex	4-3Ti	1,000	3/22/94	3/24/94	3/31/95	
A-52-07	Al	I.V.	I-Al0213	10,047	4/20/94	6/2/94	5/1/95	
A-52-08	Ca	I.V.	I-CA01114	10,002	4/20/94	6/13/94	5/1/95	
A-52-09	Mg	I.V.	I-MG0114	10,055	4/20/94	6/13/94	5/1/95	
A-52-10	Si	Spex	4-37Si	10,000	5/6/94		4/30/95	
A-52-11	Ca	Spex	11-12Ca	10,000	5/6/94	6/1/94	4/30/95	
A-52-12	Mg	Spex	11-57Mg	10,000	5/6/94		4/30/95	
A-52-13	BLANK SAND	ERA	58001	—	4/94	6/9/94	—	

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Lot # LRI	STD	Mon Feature	Lot No.	Conc. PPM	Date Rec'd	Date Open	Exp. Date	Note
A-53-01	Zn	Spex	4-34ZN	1,000	6/23/94	7/14/94	6/30/95	---
A-53-02	Mg	Spex	3-17OMG	1,000	6/23/94	---	6/30/95	
A-053-03	V	Spex	4-19V	1,000	6/23/94	7/14/94	6/30/95	
A-053-04	Se	Spex	4-43SE	1,000	6/23/94	7/12/94	6/30/95	
A-053-05	Fe	Spex	4-23FE	1,000	6/23/94	7/14/94	6/30/95	
A-053-06	Sn	Spex	3-9SN	1,000	6/23/94	7/14/94	6/30/95	
A-053-07	Cr	Spex	3-24CR	1,000	6/23/94	7/14/94	6/30/95	
A-053-08	Be	Spex	4-4BE	1,000	6/23/94	7/14/94	6/30/95	
A-053-09	Ti	Spex	4-22TI	1,000	6/23/94	7/14/94	6/30/95	
A-053-10	B	Spex	3-13B	1,000	6/23/94	7/14/94	6/30/95	
A-053-11	Mo	Spex	3-17MO	1,000	6/23/94	7/14/94	6/30/95	
A-53-12	Ni	Spex	4-28NI	1,000	6/23/94	7/14/94	6/30/95	
A-53-13	Pb	Spex	4-9PB	1,000	6/23/94	7/14/94	6/30/95	
A-53-14	Ba	Spex	3-10BA	1,000	6/23/94	7/17/94	6/30/95	
A-53-15	Blank Sand	ERA	58001	—	5/94	6/28/94		
A-53-16	Ca	Spex	I-9ICA	10,000	6/26/94	7/14/94	6/30/95	

SIGNATURE DATE

SUBSCRIBED TO AND SWORN TO BEFORE ME DATE WITNESS DATE

TITLE

PROJECT NO.

BOOK NO.

Std #	STD	Manu Fact.	Lot #	Conc. PPM	Date Recd	Date Opened	Exp. Date	Notes
A-5401	Hg	I.V.	J-HG01070	1003	8-5-94	8-9-94	9-01-95	
A-5402	Mn	I.V.	J-MN01093	997	8-5-94	8-9-94	9-01-95	
A-5403	Mo	I.V.	J-MO01072	997	8-5-94	8-9-94	9-01-95	
A-5404	Na	I.V.	J-NA01094	1,005	8-5-94	8-9-94	9-01-95	
A-5405	Na	I.V.	J-NA01105	1,004	8-5-94	8-8-94	9-01-95	
A-5406	Sb	I.V.	J-SB01116	998	8-5-94	8-9-94	9-01-95	
A-5407	Sn	I.V.	J-SN01018	1,001	8-5-94	8-9-94	9-01-95	
A-5408	Ti	I.V.	J-TI01061	1,000	8-5-94	8-9-94	9-01-95	
A-5409	V	I.V.	J-V01094	1,004	8-5-94	8-9-94	9-01-95	
A-5410	Zn	I.V.	J-ZN01080	1,005	8-5-94	8-8-94	9-01-95	
A-5411	Cd	I.V.	J-CD01057	1,008	8-9-94	8-9-94	9-01-95	
A-5412	Co	I.V.	J-CO01067	1,000	8-9-94	8-9-94	9-01-95	
A-5413	Fe	I.V.	J-FE02013	1,004	8-9-94	8-9-94	9-01-95	
A-5414	Pb	I.V.	J-PB02013	1,004	8-9-94	8-9-94	9-01-95	
A-5415	Si	I.V.	J-SI01097	999	8-9-94	8-9-94	9-01-95	
A-5416	TL	I.V.	J-TL01047	1,002	8-9-94	8-9-94	9-01-95	

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

STANDARD PREPARATION LOG

ICAP

STD LOT NO.: ICP-A- 009-01
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 5/16/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-02
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 5/23/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-03
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 6/14/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-04
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 6/23/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-05
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 7/8/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-06
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 7/19/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-07
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 8/01/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-08
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 8/02/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A- 009-09
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 9/15/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STD LOT NO.: ICP-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP:
ANALYST INIT:)
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

STANDARD PREPARATION LOG

ICAP

STD LOT NO.: ICP-A- 090-01
STD NAME: STD 1
DATE PREP: 9/15/94
ANALYST INIT: MP
FINAL VOL(ML): 100
PRESERVATIVES: 1.0ML CONC HNO3
5.0ML CONC HCL
STD1(ppb):Be,Cd,Mn,Sb,Zn:10,000

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
Be	1.0	1,000	A- 51-02
Cd	1.0	1,000	A- 54-11
Mn	1.0	1,000	A- 54-02
Sb	1.0	1,000	A- 54-06
Zn	1.0	1,000	A- 54-10
Se	1.0	1,000	A-51-07

STD LOT NO.: ICP-A- 090-02
STD NAME: STD 2
DATE PREP: 9/15/94
ANALYST INIT: MP
FINAL VOL(ML): 100
PRESERVATIVES: 1.0ML CONC HNO3
5.0ML CONC HCL
STD2(ppb):Ba,Co,Cr,Cu,Mo,Ni,V:10,000

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
Ba	1.0	1,000	A- 51-01
Co	1.0	1,000	A- 54-12
Cr	1.0	1,000	A- 51-04
Cu	1.0	1,000	A- 51-13
Mo	1.0	1,000	A- 54-03
Ni	1.0	1,000	A- 51-14
V	1.0	1,000	A- 54-09

STD LOT NO.: ICP-A- 090-03
STD NAME: STD 3
DATE PREP: 9/15/94
ANALYST INIT: MP
FINAL VOL(ML): 100
PRESERVATIVES: 1.0ML CONC HNO3
5.0ML CONC HCL
STD3(ppb):As,Fe,Si,Ti:10,000

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 50-16
Fe	1.0	1,000	A- 54-13
Si	1.0	1,000	A- 54-15
Ti	1.0	1,000	A- 54-09

STD LOT NO.: ICP-A- 090-04
STD NAME: STD 4
DATE PREP: 9/15/94
ANALYST INIT: MP
FINAL VOL(ML): 100
PRESERVATIVES: 1.0ML CONC HNO3
5.0ML CONC HCL
STD4(ppb):Al:10,000/Ca,K:100,000

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
Al	1.0	1,000	A- 51-12
Ca	1.0	10,000	A- 52-09
K	1.0	10,000	A- 51-05

STD LOT NO.: ICP-A- 090-05
STD NAME: STD 5
DATE PREP: 9/15/94
ANALYST INIT: MP
FINAL VOL(ML): 100
PRESERVATIVES: 1.0ML CONC HNO3
5.0ML CONO HCL
STD 5(ppb): Ag: 2,000/B,Pb,Tl: 10,000/Mg: 100,000

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
Ag	0.2	1,000	A- 50-14
B	1.0	1,000	A- 50-17
Pb	1.0	1,000	A- 54-14
Tl	1.0	1,000	A- 54-16
Mg	1.0	10;000	A- 52-09

STANDARD PREPARATION LOG

ICAP

STD LOT NO.: ICP-A- 134-01
STD NAME: CRI INTERMEDIATE
DATE PREP: 7/14/94
ANALYST INIT: KDL
FINAL VOL(ML): 100
PRESERVATIVES: 1.0ML CONC HNO3

CRI INTERMEDIATE:
Be,Cd ------- :1,000ppb
Ag,Cr ------- :2,000ppb
Mn ---------- :3,000ppb
Pb,Zn ------- :4,000ppb
Cu,Mo ------- :5,000ppb
Ni---------- :8,000ppb
B,Co,Ti,Tl,V :10,000ppb
Sb ---------- :12,000ppb
Si ---------- :20,000ppb

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
Ag	0.2	1,000	A- 51-15
B	1.0	1,000	A- 50-01
Be	0.1	1,000	A- 53-08
Cd	0.1	1,000	A- 51-17
Cr	0.2	1,000	A- 53-07
Co	1.0	1,000	A- 52-01
Cu	0.5	1,000	A- 52-03
Mn	0.3	1,000	A- 52-0
Mo	0.5	1,000	A- 50-01
Ni	0.8	1,000	A- 53-1
Pb	0.4	1,000	A- 53-13
Sb	1.2	1,000	A- 52-0
Si	2.0	1,000	A- 51-0
Ti	1.0	1,000	A- 52-0
Tl	1.0	1,000	A- 52-01
V	1.0	1,000	A- 53-03
Zn	0.4	1,000	A- 53-01

STD LOT NO.: ICP-A-
STD NAME: CRI INTERMEDIATE
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100
PRESERVATIVES: 1.0 ML CONC HNO3

CRI INTERMEDIATE:
Be,Cd --------:1,000ppb
Ag,Cr --------:2,000ppb
Mn ----------:3,000ppb
Pb,Zn --------:4,000ppb
Cu,Mo --------:5,000ppb
Ni ----------:8,000ppb
B,Co,Ti,Tl,V--:10,000ppb
Sb ----------:12,000ppb
Si ----------:20,000ppb

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
Ag	0.2	1,000	A-
B	1.0	1,000	A-
Be	0.1	1,000	A-
Cd	0.1	1,000	A-
Cr	0.2	1,000	A-
Co	1.0	1,000	A-
Cu	0.5	1,000	A-
Mn	0.3	1,000	A-
Mo	0.5	1,000	A-
Ni	0.8	1,000	A-
Pb	0.4	1,000	A-
Sb	1.2	1,000	A-
Si	2.0	1,000	A-
Ti	1.0	1,000	A-
Tl	1.0	1,000	A-
V	1.0	1,000	A-
Zn	0.4	1,000	A-

STAND RD PREPARATION LOG

ICAP

STD LOT NO.: ICP-A- 158-01
STD NAME: ICV/CCV
DATE PREP: 8/10/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0ML CONC HNO3
25 ML CONC HCL

ICV/CCV:
Ag----------:1,000ppb
As,Al----------:4,000ppb
B,Ba,Be,Cd,Cu,Cr,Co----:4,000ppb
Fe,Mn,Mo,Ni,Pb,Sb,Se---:4,000ppb
Tl,Ti,V,Zn----------:4,000ppb
Ca,K,Mg----------:40,000ppb

NOTE: Use an independent std. Concentrations are different than those used for instrument calibration.

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
Ag	0.5	1,000	A- 51-1
B	2.0	1,000	A- 50-0
Ba	2.0	1,000	A- 49-1
Be	2.0	1,000	A- 53-0
Cd	2.0	1,000	A- 51-1
Ca	2.0	10,000	A- 53-16
Cu	2.0	1,000	A- 52-0
Co	2.0	1,000	A- 52-0
Cr	2.0	1,000	A- 53-0
Fe	2.0	10,000	A- 53-0
K	2.0	10,000	A- 52-1
Mn	2.0	1,000	A- 52-0
Mg	2.0	10,000	A- 52-1
Mo	2.0	1,000	A- 50-0
Ni	2.0	1,000	A- 53-1
Pb	2.0	1,000	A- 53-1
Sb	2.0	1,000	A- 52-0
Se	2.0	1,000	A- 53-0
Ti	2.0	1,000	A- 52-0
Tl	2.0	1,000	A- 52-0
V	2.0	1,000	A- 53-03
Zn	2.0	1,000	A- 53-01
As	2.0	1,000	A- 52-1
Al	2.0	1,000	A- 52-1
Si	2.0	1,000	A- 52-1
Na	2.0	1,000	A- 50-10
Sn	2.0	1,000	A- 53-

STANDARD PREPARATION LOG

ICAP

STD LOT NO.: ICP-A- 201-01
STD NAME: CRI
DATE PREP: 8/04/94
ANALYST INIT: MP
FINAL VOL(ML): 100
PRESERVATIVES: 1.0 ML CONC HNO3
5.0 ML CONC HCL

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH N
CRI INTERMED	1.0	Multi	ICP-A-13

CRI:

Be,Cd----------:	10ppb	Ni----------:	80ppb
Ag,Cr----------:	20ppb	B,Co,Ti,Tl,V-:	100ppb
Mn ----------:	30ppb	Sb ----------:	120ppb
Pb,Zn ---------:	40ppb	Si ----------:	200ppb
Cu,Mo ---------:	50ppb	As ------	40ppb
		Se ------	40ppb

STD LOT NO.: ICP-A- 201-02
STD NAME: CRI
DATE PREP: 8/10/94
ANALYST INIT: MP
FINAL VOL(ML): 100
PRESERVATIVES: 1.0 ML CONC HNO3
5.0 ML CONC HCL

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
CRI INTERMED	1.0	Multi	ICP-A-134

CRI:

BE,Cd----------:	10ppb	Ni----------:	80ppb
Ag,Cr----------:	20ppb	B,Co,Ti,Tl,V :	100ppb
Mn----------:	30ppb	Sb ----------:	120ppb
Pb,Zn----------:	40ppb	Si----------:	200ppb
Cu,Mo----------:	50ppb	As ------	40ppb
		Se ------	40ppb

STANDARD PREPARATION LOG

ICAP

STD LOT NO.: ICP-A- 227-01
STD NAME: ICSA
DATE PREP: 09/01/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0 ML CONC HNO3
25 ML CONC HCL
ICSA: Al,Ca,Mg:500,000ppb
Fe------:200,000ppb

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH N
Al	25.0	10,000	A- 52-(
Ca	25.0	10,000	A- 52-(
Mg	25.0	10,000	A- 52-(
Fe	10.0	10,000	A- 49-(

STD LOT NO.: ICP-A- 227-02
STD NAME: ICSA
DATE PREP: 9/12/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0 ML CONC HNO3
25 ML CONC HCL
ICSA: Al,Ca,MG:500,000ppb
Fe------:200,000ppb

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH N
Al	25.0	10,000	A- 52-0
Ca	25.0	10,000	A- 52-9
Mg	25.0	10,000	A- 52-0
Fe	10.0	10,000	A- 53-

STD LOT NO.: ICP-A-
STD NAME: ICSA
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 500
PRESERVATIVES: 5.0 ML CONC HNO3
25 ML CONC HCL
ICSA: Al,Ca,Mg:500,000ppb
Fe------:500,000ppb

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH
Al	25.0	10,000	A-
Ca	25.0	10,000	A-
Mg	25.0	10,000	A-
Fe	~~10.0~~ 25.0	10,000	A-

STANDARD PREPARATION LOG

ICAP

STD LOT NO.: ICP-A-267-01
STD NAME: ICSAB
DATE PREP: 06/13/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0 ML CONC HNO3
25 ML CONC HCL

ICSAB:
Al,Ca,Mg----------:500,000ppb
Fe----------:200,000ppb
Ag,Cd,Ni,Pb,Zn--------:1,000ppb
Ba,Be,Cu,Co,Cr,Mn,Mo,V: 500ppb

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
Al	25.0	10,000	A-52-0
Ca	25.0	10,000	A-52-0
Mg	25.0	10,000	A-52-0
Ag	0.50	1,000	A-50-1
Ba	0.25	1,000	A-49-1
Be	0.25	1,000	A-51-0
Cd	0.50	1,000	A-49-0
Co	0.25	1,000	A-44-1
Cr	0.25	1,000	A-51-0
Cu	0.25	1,000	A-51-1
Mn	0.25	1,000	A-49-0
Mo	0.25	1,000	A-48-1
Ni	0.50	1,000	A-51-1
Pb	0.50	1,000	A-49-1
V	0.25	1,000	A-48-1
Zn	0.50	1,000	A-48-1
Fe	10.0	10,000	A-49-0

STD LOT NO.: ICP-A-267-02
STD NAME: ICSAB
DATE PREP: 07/19/94
ANALYST INIT: MP
FINAL VOL(ML): 500
PRESERVATIVES: 5.0 ML CONC HNO3
25 ML CONC HCL

ICSAB:
Al,Ca,Mg----------:500,00ppb
Fe----------:200,00ppb
Ag,Cd,Ni,Pb,Zn----------:1,000ppb
Ba,Be,Cu,Co,Cr,Mn,Mo,V---: 500ppb

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
Al	25.0	10,000	A-52-0
Ca	25.0	10,000	A-52-09
Mg	25.0	10,000	A-52-09
Ag	0.50	1,000	A-50-1
Ba	0.25	1,000	A-49-1
Be	0.25	1,000	A-51-0
Cd	0.50	1,000	A-49-0
Co	0.25	1,000	A-44-1
Cr	0.25	1,000	A-51-0
Cu	0.25	1,000	A-51-1
Mn	0.25	1,000	A-49-0
Mo	0.25	1,000	A-49-1
Ni	0.50	1,000	A-51-1
Pb	0.50	1,000	A-49-0
V	0.25	1,000	A-48-1
Zn	0.50	1,000	A-48-1
Fe	10.0	10,000	A-49-0

STANDARD PREPARATION LOG METALS DEPT.

A5 - ICP -

606

STD LOT NO.: ICP-A-606-01
STD NAME: STD6
DATE PREP: 6/15/94
ANALYST INIT: MP
FINAL VOL(ML): 200
PRESERVATIVES: 10ml HCl
2ml HNO3

NOTES:

STOCK STD NAME	ML	STOCK CONC, ppb	STOCK INTECH NO.
Sn		1,000	A-54-07
Na		10,000	A-54-05

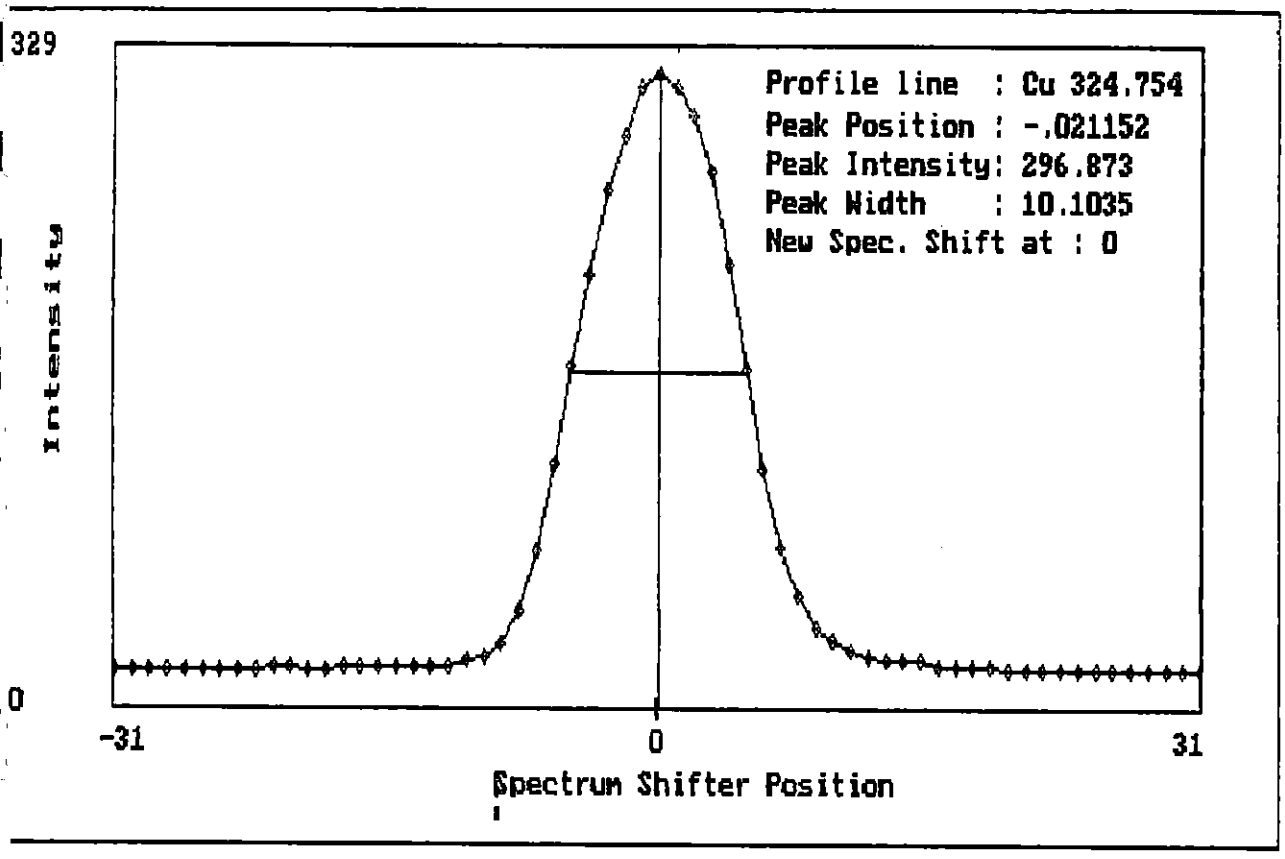
STD LOT NO.: ICP-A-606-02
STD NAME: LOW STD
DATE PREP: 6/15/94
ANALYST INIT: MP
FINAL VOL(ML): 200.
PRESERVATIVES: 10ml HCl
2ml HNO3

NOTES:

STOCK STD NAME	ML	STOCK CONC, ppb	STOCK INTECH NO.
Ag	0.20	1,000	A-50-14
Al	0.20		A-51-12
As	0.20		A-50-16
B	0.20		A-50-17
Ba	0.20		A-51-01
Be	0.20		A-51-02
Ca	0.20		A-51-03
Cd	0.20		A-54-11
Co	0.20		A-54-12
Cr	0.20		A-51-04
Cu	0.20		A-51-13
Fe	0.20		A-54-13
K	0.20	10,000	A-51-05
Mg	0.20	1,000	A-52-09
Mn	0.20		A-54-02
Mo	0.20		A-54-03
Na	0.20		A-54-04
Ni	0.20		A-51-14
Pb	0.20		A-54-14
Sb	0.20		A-54-06
Se	0.20		A-51-07
Si	0.20		A-54-15
Sn	0.20		A-54-07
Ti	0.20		A-54-08
Tl	0.20		A-54-16
V	0.20		A-54-09
Zn	0.20		A-54-10

ANALYST SIGNATURE: Michael Polidori

SUPERVISOR SIGNATURE:



Method: ALPHA1 Standard: BLANK

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	-.00210	.01880	.00143	.00047	.00013	.01630	.01550
SDev	.00010	.00082	.00142	.00047	.00015	.00010	.00207
%RSD	4.7619	4.3539	98.994	101.27	114.56	.61350	13.332
#1	-.00200	.01950	.00170	.00030	.00000	.01620	.01610
#2	-.00220	.01790	.00270	.00100	.00030	.01630	.01320
#3	-.00210	.01900	-.00010	.00010	.00010	.01640	.01720

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.00037	-.00057	.00047	.00047	.00073	-.02790	.00260
SDev	.00015	.00012	.00055	.00012	.00047	.00434	.00060
%RSD	41.660	20.377	118.02	24.744	64.443	15.557	23.077
#1	.00020	-.00050	.00020	.00040	.00090	-.02570	.00320
#2	.00050	-.00070	.00010	.00040	.00020	-.03290	.00200
#3	.00040	-.00050	.00110	.00060	.00110	-.02510	.00260

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.01853	-.00030	.19927	.00150	.00303	.00000	-.00547
SDev	.00012	.00036	.00169	.00180	.00042	.00030	.00196
%RSD	.62304	120.19	.84621	120.19	13.725	.00000	35.862
#1	.01860	.00010	.20120	.00000	.00270	.00030	-.00570
#2	.01840	-.00060	.19810	.00350	.00290	-.00030	-.00340
#3	.01860	-.00040	.19850	.00100	.00350	.00000	-.00730

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Avge	.01613	.00090	.00133	-.00137	-.00070	.00117
SDev	.00142	.00131	.00025	.00193	.00020	.00023
%RSD	8.7731	145.30	18.875	141.19	28.571	19.795
#1	.01690	.00240	.00130	.00080	-.00050	.00130
#2	.01450	.00000	.00110	-.00290	-.00090	.00090
#3	.01700	.00030	.00160	-.00200	-.00070	.00130

tandardization Rpt. Tue 08-16-94 08:15:39 AM page 1

Method: ALPHA1 Standard: STD5

Elem	Ag3280	B_2496	Mg2790	Pb2203	Tl1908
Avge	.30270	.74853	9.2208	.54403	.85263
SDev	.00333	.01001	.1273	.00633	.01120
%RSD	1.0997	1.3368	1.3808	1.1633	1.3131
#1	.29890	.73700	9.0754	.53710	.83980
#2	.30410	.75370	9.3125	.54550	.86040
#3	.30510	.75490	9.2744	.54950	.85770

Method: ALPHA1 Standard: STD4

Elem	Al3082	Ca3179	K_7664
Avge	.88033	48.253	.24600
SDev	.00606	.200	.00996
%RSD	.68818	.41418	4.0485
#1	.88070	48.214	.24550
#2	.88620	48.470	.25620
#3	.87410	48.076	.23630

tandardization Rpt. Tue 08-16-94 08:22:28 AM page 1

Method: ALPHA1 Standard: STD3

Elem	As1936	Fe2599	Si2881	Ti3349
Avge	1.3710	3.8643	2.6530	4.0035
SDev	.0106	.0237	.0391	.0222
%RSD	.77067	.61247	1.4751	.55405
#1	1.3591	3.8397	2.6095	3.9807
#2	1.3792	3.8664	2.6640	4.0049
#3	1.3748	3.8869	2.6854	4.0250

Standardization Rpt. Tue 08-16-94 08:26:24 AM page 1

Method: ALPHA1 Standard: STD2

Elem	Ba4934	Co2286	Cr2677	Cu3247	Mo2020	Ni2316	V_2924
Avge	3.2089	3.0104	3.0399	1.1569	2.2659	3.8057	1.0382
SDev	.0220	.0137	.0168	.0089	.0162	.0103	.0063
%RSD	.68514	.45617	.55403	.76579	.71599	.27117	.60782
#1	3.1914	2.9987	3.0242	1.1492	2.2472	3.7940	1.0329
#2	3.2336	3.0255	3.0577	1.1666	2.2754	3.8136	1.0452
#3	3.2018	3.0069	3.0379	1.1550	2.2752	3.8094	1.0366

Standardization Rpt. Tue 08-16-94 08:30:20 AM page 1

Method: ALPHA1 Standard: STD1

Elem	Be3130	Cd2288	Mn2576	Sb2068	Se1960	Zn2138
Avge	14.320	.85737	6.4696	.47730	.94427	1.8157
SDev	.082	.00408	.0454	.00476	.01385	.0100
%RSD	.57098	.47612	.70248	.99777	1.4666	.54918
#1	14.277	.85430	6.4383	.47370	.94560	1.8086
#2	14.269	.85580	6.4487	.47550	.92980	1.8114
#3	14.415	.86200	6.5217	.48270	.95740	1.8271

Method: ALPHA1 Standard: STD6

Elem	Na5889	Sn1899
Avge	23.982	3.0291
SDev	.162	.0244
%RSD	.67598	.80452
#1	24.148	3.0253
#2	23.824	3.0068
#3	23.974	3.0551

Standardization Report Tue 08-16-94 08:33:49 AM page 1

Method: ALPHA1 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	STD5	BLANK	6561.68	13.7795	08/16/94 08:30:27
Al3082	308.215	STD4	BLANK	11607.2	-218.216	08/16/94 08:30:27
As1936	193.696	STD3	BLANK	7302.86	-10.4674	08/16/94 08:30:27
B_2496	249.678	STD5	BLANK	13367.8	-6.23830	08/16/94 08:30:27
Ba4934	493.409	STD2	BLANK	3116.43	-.415524	08/16/94 08:30:27
Be3130	313.042	STD1	BLANK	699.100	-11.3953	08/16/94 08:30:27
Ca3179	317.933	STD4	BLANK	2073.07	-32.1326	08/16/94 08:30:27
Cd2288	228.802	STD1	BLANK	11687.6	-4.28546	08/16/94 08:30:27
Co2286	228.616	STD2	BLANK	3324.62	1.88395	08/16/94 08:30:27
Cr2677	267.716	STD2	BLANK	3291.53	-1.53605	08/16/94 08:30:27
Cu3247	324.754	STD2	BLANK	8650.49	-4.03689	08/16/94 08:30:27
Fe2599	259.940	STD3	BLANK	2588.26	-1.89806	08/16/94 08:30:27
K_7664	766.491	STD4	BLANK	365097.	10186.2	08/16/94 08:30:27
Mg2790	279.079	STD5	BLANK	10848.1	-28.2052	08/16/94 08:30:27
Mn2576	257.610	STD1	BLANK	1550.14	-28.7292	08/16/94 08:30:27
Mo2020	202.030	STD2	BLANK	4415.52	1.32466	08/16/94 08:30:27
Na5889	588.995	STD6	BLANK	4204.73	-837.862	08/16/94 08:30:27
Ni2316	231.604	STD2	BLANK	2629.83	-3.94474	08/16/94 08:30:27
Pb2203	220.353	STD5	BLANK	18484.3	-56.0690	08/16/94 08:30:27
Sb2068	206.838	STD1	BLANK	20951.2	.000000	08/16/94 08:30:27
Se1960	196.026	STD1	BLANK	10529.3	57.5600	08/16/94 08:30:27
Si2881	288.158	STD3	BLANK	3794.86	-61.2237	08/16/94 08:30:27
Sn1899	189.989	STD6	BLANK	3302.33	-2.97210	08/16/94 08:30:27
Ti3349	334.941	STD3	BLANK	2498.63	-3.33150	08/16/94 08:30:27
Tl1908	190.864	STD5	BLANK	11709.6	16.0031	08/16/94 08:30:27
V_2924	292.402	STD2	BLANK	9629.01	6.74031	08/16/94 08:30:27
Zn2138	213.856	STD1	BLANK	5514.20	-6.43323	08/16/94 08:30:27

Analysis Report Tue 08-16-94 08:37:47 AM page 1

Method: ALPHA1 Sample Name: ICV-1 Operator: MP
Run Time: 08/16/94 08:33:57
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	957.50	3818.9	3840.6	3937.7	3938.2	3803.7	39438.
SDev	2.11	11.1	59.3	8.9	18.2	8.1	218.
%RSD	.22006	.28958	1.5433	.22552	.46199	.21355	.55163
#1	955.10	3807.6	3776.7	3927.5	3918.5	3794.3	39187.
#2	958.38	3819.5	3851.3	3942.2	3954.3	3808.6	39578.
#3	959.03	3829.7	3893.7	3943.5	3941.8	3808.1	39548.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3955.7	3880.9	3862.3	3873.2	3868.2	40623.	38665.
SDev	13.4	16.4	23.0	9.6	14.0	1295.	188.
%RSD	.33921	.42145	.59577	.24813	.36283	3.1881	.48679
#1	3940.3	3862.0	3836.5	3862.8	3852.0	40380.	38541.
#2	3961.3	3891.1	3880.5	3881.8	3876.1	42023.	38881.
#3	3965.3	3889.5	3870.0	3874.9	3876.4	39467.	38572.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3927.3	3950.2	3988.0	3880.6	3852.8	3866.5	3924.7
SDev	15.4	45.8	11.6	19.3	22.7	22.6	87.9
%RSD	.39278	1.1604	.29008	.49650	.58882	.58373	2.2397
#1	3910.0	3898.9	3976.6	3858.3	3827.0	3856.8	3850.0
#2	3939.8	3964.3	3999.7	3891.7	3862.0	3850.4	4021.5
#3	3932.0	3987.3	3987.5	3891.7	3869.4	3892.3	3902.6

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	3826.9	3911.4	3893.1	4041.7	3968.6	3964.2

#1	3790.8	3871.6	3873.3	4043.6	3950.4	3954.2
#2	3847.5	3938.0	3906.0	4131.0	3986.0	3965.0
#3	3842.3	3924.5	3900.1	3950.7	3969.6	3973.3

nalysis Report Tue 08-16-94 08:41:44 AM page 1

ethod: ALPHA1 Sample Name: ICB-1 Operator: MP
Run Time: 08/16/94 08:37:54
omment: 940816-1
ode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.3126	-10.164	10.030	3.1204	-.10389	.14048	1.7277
SDev	.6559	7.956	10.350	5.3482	.53978	.06822	1.1373
%RSD	49.969	78.275	103.19	171.39	519.58	48.565	65.827
#1	-1.3128	-16.424	18.086	8.4683	.51939	.20917	2.2848
#2	-.65663	-1.2111	13.646	-2.2281	-.41552	.07273	2.4791
#3	-1.9685	-12.858	-1.6432	3.1211	-.41553	.13953	.41927

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.93447	-.77365	-.21919	-2.3092	.68886	-1204.8	-13.741
SDev	1.21189	.57365	1.13994	1.7299	.68726	973.5	7.385
%RSD	129.69	74.149	520.08	74.912	99.767	80.802	53.741
#1	-2.2271	-1.1045	-.87732	-2.3113	1.2069	-1533.4	-19.527
#2	.17606	-.11125	1.0971	-.57829	-.09078	-109.53	-16.273
#3	-.75237	-1.1052	-.87734	-4.0381	.95048	-1971.5	-5.4235

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.77553	8.2400	16.680	-6.1376	-4.3003	4.1872	20.355
SDev	.08962	4.9619	2.464	4.4821	11.5354	5.5492	7.012
%RSD	11.555	60.217	14.774	73.028	268.24	132.53	34.447
#1	.87901	13.684	19.483	-1.8466	-13.536	-.00628	12.282
#2	.72402	3.9716	14.857	-10.789	8.6295	2.0882	23.866
#3	.72357	7.0642	15.699	-5.7771	-7.9941	10.480	24.919

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-4.5466	-.44031	-.08323	14.835	-.32088	.21155
SDev	4.1781	5.11950	.24068	30.277	.55608	1.4712

%RSD	91.696	1102.7	299.90	204.77	173.30	695.67
#1	-6.5674	-.33023	-.08307	24.201	.00011	-1.4593
#2	.25777	4.6233	.16630	39.425	-.96299	.77824
#3	-7.3301	-5.6140	-.33293	-19.123	.00025	1.3157

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Method: ALPHA1 Sample Name: CCV-1-1 Operator: MP
Run Time: 08/16/94 08:41:52
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	957.72	3820.4	3830.1	3960.0	3941.7	3811.4	39579.
SDev	3.28	21.6	25.9	18.8	17.2	9.5	150.
%RSD	.34256	.56637	.67553	.47378	.43551	.24946	.37779
#1	957.72	3796.7	3804.3	3958.2	3947.1	3806.5	39533.
#2	954.44	3825.6	3856.0	3942.2	3922.5	3805.3	39458.
#3	961.00	3839.0	3830.0	3979.6	3955.5	3822.3	39746.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3982.6	3887.7	3861.0	3881.0	3873.9	39065.	38836.
SDev	24.6	15.2	15.2	10.0	15.9	980.	140.
%RSD	.61668	.39085	.39409	.25664	.40997	2.5095	.35928
#1	3977.2	3884.2	3853.2	3877.5	3869.8	38481.	38806.
#2	3961.3	3874.6	3851.3	3873.2	3860.4	38518.	38713.
#3	4009.5	3904.4	3878.6	3892.2	3891.4	40197.	38988.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3931.2	3956.8	4007.3	3890.9	3887.3	3865.8	3911.0
SDev	13.3	25.6	4.9	17.1	44.5	36.0	24.6
%RSD	.33915	.64652	.12105	.43914	1.1459	.93224	.62946
#1	3929.4	3938.3	4011.9	3878.3	3882.4	3825.4	3882.6
#2	3918.9	3946.2	4007.7	3884.1	3845.4	3877.7	3925.8
#3	3945.3	3986.0	4002.2	3910.4	3934.1	3894.4	3924.7

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	3833.5	3897.4	3893.7	4010.5	3967.4	3973.1
SDev	27.1	18.0	13.1	21.2	17.5	8.5
%RSD	.70769	.46277	.33717	.52930	.44059	.21288
#1	3807.4	3887.8	3890.1	3993.0	3961.9	3966.2
#2	3831.7	3886.2	3882.8	4034.1	3953.3	3970.6
#3	3861.5	3918.2	3908.3	4004.3	3986.9	3982.6

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ethod: ALPHA1 Sample Name: CCB-1-1 Operator: MP
un Time: 08/16/94 08:45:50
Comment: 940816-1
ode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.87460	.27859	-9.2726	5.7943	.20775	.22853	.54543
SDev	.37869	7.3797	7.4507	2.3168	.53978	.03890	1.9041
%RSD	43.299	2648.9	80.352	39.984	259.83	17.021	349.10
#1	-.65610	4.5140	-1.0342	4.4554	.51939	.20305	1.6417
#2	-1.3119	-8.2427	-15.539	4.4580	-.41554	.20923	-1.6532
#3	-.65582	4.5644	-11.245	8.4694	.51939	.27331	1.6478

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.4115	-.88475	.76690	-2.8857	1.6344	-146.04	13.741
SDev	.5632	1.34137	1.5072	.9977	.3918	729.28	11.498
%RSD	39.902	151.61	196.53	34.573	23.972	499.37	83.676
#1	-.76234	.55306	2.0826	-2.3099	1.7158	657.17	26.035
#2	-1.7026	-1.1048	-.87750	-2.3095	1.2083	-766.70	11.933
#3	-1.7697	-2.1025	1.0957	-4.0377	1.9791	-328.59	3.2541

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.67043	8.5371	12.754	-1.6693	-9.2424	4.1950	35.447
SDev	.23661	2.0845	4.625	5.1569	10.1710	7.5495	5.571
%RSD	35.293	24.417	36.259	308.92	110.05	179.96	15.715
#1	.72135	10.155	12.754	1.3065	-4.3186	10.475	37.551
#2	.41250	9.2716	8.1298	-7.6241	-20.938	6.2915	39.659
#3	.87744	6.1847	17.379	1.3096	-2.4703	-4.1811	29.131

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-1.5213	.11008	.16638	15.996	1.2827	-.54192
SDev	7.3544	12.918	.00038	10.723	1.1108	1.58334
%RSD	483.42	11736.	.22646	67.033	86.601	292.17
#1	2.1409	4.9535	.16605	25.352	1.9238	-1.4745
#2	3.2830	9.9070	.16679	4.2949	.00002	-1.4375
#3	-9.9878	-14.530	.16630	18.341	1.9241	1.2862

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ethod: ALPHA1 Sample Name: CRI-1-1 Operator: MP
un Time: 08/16/94 08:49:47
Comment: 940816-1
ode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	17.056	-34.289	9.4665	105.92	-.41553	9.6579	-32.304
SDev	1.136	3.074	18.569	8.13	.00001	.0388	1.654
%RSD	6.6615	8.9654	196.15	7.6748	.00236	.40162	5.1193
#1	15.744	-30.800	-.53235	96.564	-.41554	9.6802	-32.171
#2	17.713	-36.597	-1.9604	109.93	-.41552	9.6803	-34.021
#3	17.712	-35.470	30.892	111.27	-.41553	9.6131	-30.721

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	11.095	101.02	17.811	47.816	.52306	-1448.2	-19.347
SDev	2.004	2.18	1.434	1.729	.97814	988.0	6.974
%RSD	18.060	2.1569	8.0521	3.6169	187.00	68.223	36.049
#1	13.196	99.028	18.469	49.546	1.6433	-2300.1	-14.283
#2	10.884	103.35	16.166	46.087	-.16181	-1679.4	-27.302
#3	9.2053	100.69	18.798	47.816	.08769	-365.10	-16.456

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	31.204	49.505	13.739	76.692	30.151	124.11	54.609
SDev	.089	1.418	2.074	3.945	19.587	7.93	12.866
%RSD	.28501	2.8641	15.098	5.1439	64.963	6.3880	23.560
#1	31.255	48.921	12.757	80.636	51.095	115.04	40.572
#2	31.101	48.472	12.337	72.746	12.286	129.70	57.414
#3	31.256	51.121	16.121	76.693	27.071	127.59	65.840

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	189.06	9.4667	99.024	110.71	99.740	41.463
SDev	2.65	6.6403	1.010	6.65	.556	2.308
%RSD	1.4031	70.144	1.0197	6.0066	.55774	5.5666
#1	189.06	7.5954	98.108	108.76	100.06	38.872
#2	186.41	3.9628	98.858	118.11	100.06	42.217
#3	191.71	16.842	100.11	105.25	99.098	43.299

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Method: ALPHA1 Sample Name: ICSA-1-1 Operator: MP
Run Time: 08/16/94 08:53:44
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.74859	484110.	-104.97	-8.8692	-1.0054	-.41644	457790.
SDev	1.8870	4162.	74.90	8.2758	.9452	.02687	2494.
%RSD	252.08	.85969	71.356	93.309	94.014	6.4512	.54479
#1	1.7474	479720.	-190.89	-10.216	-1.2002	-.44261	455210.
#2	-1.4279	484600.	-70.584	-16.389	-1.8380	-.38893	457970.
#3	1.9263	488000.	-53.436	-.00250	.02204	-.41776	460190.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-4.4077	-2.4115	-5.5616	-2.0623	173250.	1460.4	477150.
SDev	1.6274	2.0746	1.9536	1.6498	1225.	1495.1	3402.
%RSD	36.921	86.028	35.126	79.998	.70689	102.38	.71299
#1	-4.2475	-.08695	-7.3959	-2.3022	171960.	2154.1	473740.
#2	-6.1093	-3.0726	-5.7815	-.30568	173410.	-255.57	477160.
#3	-2.8664	-4.0750	-3.5074	-3.5790	174390.	2482.7	480540.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.2637	-13.082	-32.675	11.199	-2.5255	-34.329	38.630
SDev	.2040	7.853	.691	20.713	17.0656	12.700	20.531
%RSD	16.140	60.028	2.1145	184.96	675.74	36.996	53.148
#1	-1.4682	-22.074	-32.819	17.519	16.071	-45.386	62.302
#2	-1.0603	-7.5703	-33.283	28.016	-6.1791	-37.144	25.667
#3	-1.2624	-9.6025	-31.924	-11.938	-17.468	-20.457	27.921

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-43.284	-18.273	-11.160	-39.320	-2.9135	4.2188
SDev	5.203	10.202	.520	20.355	1.6012	1.7151
%RSD	12.020	55.829	4.6635	51.768	54.958	40.655
#1	-48.547	-20.144	-10.577	-43.984	-1.3512	2.8295
#2	-43.163	-7.2651	-11.577	-17.037	-4.5510	6.1357
#3	-38.143	-27.409	-11.327	-56.937	-2.8384	3.6911

ethod: ALPHA1 Sample Name: ICSAB-1-1 Operator: MP
Run Time: 08/16/94 08:57:42
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	952.55	484160.	2.1718	-16.463	470.54	449.66	457890.
SDev	6.78	4365.	23.239	4.090	4.05	4.09	2201.
%RSD	.71216	.90164	1070.1	24.844	.85971	.90975	.48075
#1	949.66	481930.	19.002	-14.413	470.34	448.07	457330.
#2	947.68	481350.	11.857	-21.172	466.60	446.61	456020.
#3	960.29	489180.	-24.344	-13.803	474.69	454.31	460320.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	934.33	435.47	447.76	466.11	169980.	-486.80	483200.
SDev	4.09	2.32	.66	4.19	1082.	1737.70	3938.
%RSD	.43756	.53270	.14744	.89833	.63632	356.97	.81496
#1	937.95	435.47	448.00	463.71	169470.	-2044.5	481200.
#2	929.90	433.15	447.01	463.67	169250.	1387.4	480670.
#3	935.14	437.79	448.27	470.94	171230.	-803.21	487740.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	450.55	440.85	-10.675	856.47	898.37	-5.7185	-35.209
SDev	2.50	10.08	8.381	39.98	19.98	21.2243	76.636
%RSD	.55422	2.2856	78.514	4.6685	2.2243	371.15	217.66
#1	449.80	436.21	-14.949	854.55	893.52	-28.740	48.599
#2	448.52	433.94	-1.0182	817.48	881.26	-1.4859	-52.512
#3	453.34	452.41	-16.058	897.38	920.33	13.071	-101.71

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-26.449	-21.465	-11.023	-49.287	457.06	943.54
SDev	4.472	13.451	.577	20.363	1.72	4.44
%RSD	16.908	62.663	5.2360	41.316	.37527	.47026
#1	-21.657	-5.9442	-10.690	-62.044	457.17	944.53
#2	-27.180	-28.730	-10.689	-25.803	455.29	938.69
#3	-30.511	-29.721	-11.689	-60.015	458.72	947.39

Method: ALPHA1 Sample Name: 0736601A Operator: MP
Run Time: 08/16/94 09:01:39
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.77151	40356.	3.6003	15.984	560.31	2.1463	15203.
SDev	2.3050	557.	13.839	8.036	7.56	.0452	131.
%RSD	298.77	1.3804	384.38	50.274	1.3488	2.1056	.86436
#1	-1.4433	40050.	11.628	12.728	556.26	2.1983	15093.
#2	3.1572	40020.	-12.379	10.087	555.63	2.1171	15169.
#3	.60065	41000.	11.553	25.136	569.03	2.1234	15349.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2.4229	23.329	46.095	43.218	54693.	-36.510	11749.
SDev	1.7607	1.026	2.188	.958	595.	2497.91	207.
%RSD	72.670	4.3989	4.7457	2.2171	1.0873	6841.7	1.7646
#1	.73797	23.559	43.688	42.567	54301.	-2190.6	11682.
#2	2.2800	24.221	47.963	44.319	54400.	2701.7	11583.
#3	4.2507	22.207	46.633	42.769	55377.	-620.66	11981.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	2235.1	4.9093	381.46	53.334	9.4802	122.38	37.286
SDev	23.6	5.7578	7.60	7.148	11.694	8.36	34.146
%RSD	1.0559	117.28	1.9923	13.402	123.35	6.8307	91.577
#1	2219.0	6.4963	373.50	47.285	9.8651	114.01	50.916
#2	2224.2	-1.4756	388.64	61.221	20.977	122.41	62.513
#3	2262.2	9.7071	382.24	51.497	-2.4014	130.73	-1.5693

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	2955.3	19.374	352.54	-67.352	65.743	197.18
SDev	22.5	6.649	3.82	12.806	2.032	3.90
%RSD	.76129	34.317	1.0849	19.014	3.0915	1.9778
#1	2970.4	26.419	350.46	-53.349	64.225	192.85
#2	2929.4	13.209	350.21	-70.238	68.052	198.30
#3	2966.1	18.493	356.96	-78.469	64.953	200.40

Method: ALPHA1 Sample Name: PBW-895 Operator: MP
Run Time: 08/16/94 09:05:36
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.65602	-23.990	-10.348	.00174	-.41552	.06815	-31.641
SDev	.00017	5.941	6.485	2.7838	.00001	.00468	2.211
%RSD	.02662	24.763	62.669	160380.	.00124	6.8657	6.9891
#1	-.65614	-17.428	-5.2838	-2.2279	-.41553	.06410	-30.259
#2	-.65612	-29.001	-8.1034	-.88876	-.41552	.07327	-34.191
#3	-.65582	-25.541	-17.657	3.1218	-.41552	.06707	-30.472

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.61652	-1.2153	-1.4259	-.28853	-.34026	-1959.4	-14.463
SDev	.10128	1.2572	.8275	1.32041	.51618	701.6	6.539
%RSD	16.427	103.44	58.036	457.64	151.70	35.810	45.209
#1	-.69580	.22350	-1.5362	1.1522	.17737	-1204.8	-15.187
#2	-.65133	-1.7680	-2.1927	-1.4409	-.85497	-2592.2	-20.609
#3	-.50243	-2.1016	-.54872	-.57686	-.34318	-2081.1	-7.5926

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.93187	.14523	50.599	-.52198	-4.9017	7.6903	3.5105
SDev	.08920	1.3492	2.558	8.43412	16.7671	12.802	17.912
%RSD	9.5719	929.05	5.0555	1615.8	342.07	166.46	510.23
#1	1.0349	1.3233	49.337	-4.9946	14.192	10.478	-9.8286
#2	.88083	-1.3268	53.543	-5.7777	-11.672	-6.2755	23.869
#3	.87991	.43918	48.917	9.2064	-17.225	18.868	-3.5084

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-5.3045	10.017	-.66594	-10.921	.64255	1.1064
SDev	6.0827	6.746	.38156	10.196	1.4699	.8204
%RSD	114.67	67.347	57.295	93.360	228.76	74.152
#1	1.0162	12.879	-.33277	.77375	1.9257	.20213
#2	-11.117	14.860	-1.0822	-15.593	-.96111	1.3139
#3	-5.8123	2.3116	-.58288	-17.943	.96302	1.8031

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ethod: ALPHA1 Sample Name: LCSW-895 Operator: MP
un Time: 08/16/94 09:09:34
Comment: 940816-1
ode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	854.95	3511.6	3442.4	3637.0	3627.4	3599.5	35509.
SDev	9.56	65.8	60.2	47.9	50.8	54.7	559.
%RSD	1.1179	1.8741	1.7486	1.3163	1.3999	1.5206	1.5733
#1	844.90	3442.0	3372.9	3581.8	3573.2	3540.7	34919.
#2	856.05	3519.9	3476.5	3667.3	3635.2	3608.8	35581.
#3	863.92	3572.9	3477.8	3661.9	3673.8	3649.0	36029.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3543.0	3502.9	3505.9	3553.5	3567.3	34149.	34762.
SDev	44.9	52.0	57.7	49.8	55.2	428.	570.
%RSD	1.2661	1.4848	1.6462	1.4008	1.5466	1.2529	1.6403
#1	3495.6	3447.6	3442.6	3499.0	3507.4	33662.	34129.
#2	3548.7	3510.2	3519.2	3564.7	3578.8	34319.	34922.
#3	3584.7	3550.9	3555.7	3596.7	3615.9	34465.	35236.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3544.1	3594.7	3825.1	3508.0	3475.8	3510.2	3562.3
SDev	55.1	60.2	61.0	71.4	52.4	47.7	43.3
%RSD	1.5535	1.6759	1.5938	2.0353	1.5083	1.3577	1.2166
#1	3485.7	3528.4	3764.3	3426.0	3417.4	3455.2	3513.6
#2	3551.6	3609.4	3824.8	3541.4	3491.2	3536.7	3576.7
#3	3595.0	3646.2	3886.2	3556.6	3518.8	3538.7	3596.6

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	4100.3	3590.8	3557.7	3582.7	3623.7	3585.8
SDev	85.1	60.5	55.2	50.5	66.9	56.3
%RSD	2.0745	1.6847	1.5521	1.4109	1.8450	1.5696
#1	4006.6	3527.5	3498.6	3536.4	3551.3	3525.7
#2	4121.6	3596.9	3566.3	3575.1	3636.9	3594.5
#3	4172.7	3648.1	3608.0	3636.6	3683.0	3637.3

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Method: ALPHA1 Sample Name: 0810307 Operator: MP
Run Time: 08/16/94 09:13:31
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.4060	-3.5215	7.0796	-1.3339	-.41557	.23499	-9.4666
SDev	1.3660	7.5930	5.9643	4.2974	.00001	.03875	2.6209
%RSD	56.776	215.62	84.247	322.17	.00156	16.488	27.686
#1	-1.9687	4.5979	12.144	-6.2356	-.41557	.27958	-8.4955
#2	-1.3122	-4.7159	.50570	.44733	-.41557	.20947	-7.4698
#3	-3.9371	-10.446	8.5885	1.7865	-.41556	.21593	-12.435

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.6664	-.99306	-.54808	-1.7302	4.2293	-2397.5	-10.485
SDev	1.3705	1.01243	.87020	.9983	.6479	490.3	13.736
%RSD	82.244	101.95	158.77	57.697	15.320	20.450	131.00
#1	-.96769	-.77232	-1.2064	-.57752	4.3174	-2190.6	-5.4230
#2	-.78608	-.10922	.43851	-2.3077	4.8288	-2044.5	.00061
#3	-3.2455	-2.0977	-.87632	-2.3055	3.5419	-2957.3	-26.034

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.4980	3.1071	78.068	-1.4110	-6.7733	2.7939	4.2127
SDev	.1541	2.8956	6.938	4.2233	7.6909	1.2118	17.534
%RSD	10.284	93.193	8.8873	299.32	113.55	43.372	416.21
#1	1.4975	3.5483	83.814	-4.4764	-4.3173	2.0926	23.867
#2	1.6524	5.7567	80.030	-3.1628	-.61047	2.0959	-1.4046
#3	1.3442	.01620	70.360	3.4064	-15.392	4.1931	-9.8241

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-8.2133	9.6868	-.66616	32.384	-.64215	7.1727
SDev	6.4576	12.099	.38154	7.135	1.11106	1.1338
%RSD	78.624	124.90	57.274	22.031	173.02	15.807
#1	-7.7092	10.898	-.58271	27.697	-.00025	6.2632
#2	-2.0224	21.135	-.33326	28.861	-.00109	6.8119
#3	-14.908	-2.9721	-1.0825	40.595	-1.9251	8.4429

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Method: ALPHA1 Sample Name: PBS-895 Operator: MP
Run Time: 08/16/94 09:17:29
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.7485	-20.092	-5.4910	.00733	-.41569	.11781	-36.967
SDev	1.8941	14.942	9.6548	3.3655	.00001	.07749	2.655
%RSD	108.33	74.369	175.83	45909.	.00280	65.773	7.1808
#1	-3.9356	-37.133	-11.694	-3.5591	-.41568	.07931	-39.995
#2	-.65517	-9.2307	5.6328	.45365	-.41569	.20701	-35.042
#3	-.65464	-13.913	-10.412	3.1274	-.41570	.06711	-35.862

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.47473	-.99491	-.65792	-3.4547	16.914	-511.14	-2.8910
SDev	2.0919	1.06993	1.48241	.9992	1.164	1772.13	22.9171
%RSD	440.66	107.54	225.32	28.922	6.8795	346.70	792.70
#1	-.59519	.22583	-2.1918	-4.0319	15.711	-2555.7	-29.287
#2	-.86585	-1.7699	.76698	-2.3009	16.995	584.15	11.934
#3	2.8852	-1.4407	-.54892	-4.0313	18.034	438.12	8.6800

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.97882	-2.1348	34.901	-1.1426	-12.301	2.8016	2.1100
SDev	.09039	1.9234	5.892	6.0963	2.807	12.800	10.118
%RSD	9.2345	90.100	16.883	533.52	22.822	456.87	479.53
#1	1.0325	-.81438	39.668	-7.6286	-15.361	-8.3656	3.8643
#2	1.0295	-4.3416	36.722	4.4697	-11.699	.00062	11.236
#3	.87446	-1.2484	28.313	-.26903	-9.8439	16.770	-8.7704

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-12.134	-6.3845	-.99929	13.587	-.32387	.19529
SDev	5.387	6.8823	.76298	13.299	2.22186	.92942
%RSD	44.396	107.80	76.352	97.885	686.03	475.92
#1	-18.320	-13.870	-1.8318	19.449	-2.8895	-.87784
#2	-9.6110	-.33023	-.33334	-1.6367	.95869	.72098
#3	-8.4719	-4.9535	-.83274	22.948	.95915	.74274

Method: ALPHA1 Sample Name: LCSS-895 Operator: MP
Run Time: 08/16/94 09:21:27
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	40.865	1818.0	1795.6	1858.3	1717.2	44.600	9194.0
SDev	1.002	5.5	19.2	5.8	7.2	.259	49.1
%RSD	2.4525	.30134	1.0716	.31363	.41950	.58079	.53415
#1	39.991	1813.9	1778.6	1851.6	1708.9	44.303	9142.0
#2	41.959	1816.0	1791.7	1862.3	1721.7	44.782	9200.3
#3	40.646	1824.2	1816.5	1860.9	1721.1	44.715	9239.6

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	52.342	461.73	181.64	232.18	914.96	16953.	8794.4
SDev	.484	3.52	1.52	.00	4.49	1003.	68.9
%RSD	.92478	.76197	.83593	.00143	.49020	5.9150	.78376
#1	51.830	461.20	180.77	232.18	910.05	16429.	8715.3
#2	52.792	458.51	180.76	232.18	915.99	16320.	8827.0
#3	52.405	465.49	183.39	232.18	918.84	18109.	8841.1

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	467.93	1863.5	9336.1	472.60	432.22	463.86	1845.2
SDev	2.29	8.3	39.0	5.14	30.77	3.62	38.9
%RSD	.48907	.44288	.41756	1.0872	7.1199	.77933	2.1084
#1	465.30	1856.0	9292.4	472.16	467.35	461.79	1800.3
#2	469.01	1872.3	9367.3	477.95	410.04	461.76	1867.7
#3	469.48	1862.2	9348.8	467.70	419.27	468.04	1867.7

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	50.572	20.364	1851.4	1880.1	448.26	459.71
SDev	2.018	6.770	9.0	18.6	1.47	2.59
%RSD	3.9894	33.247	.48383	.98752	.32713	.56285
#1	51.362	24.437	1841.1	1896.1	446.66	460.64
#2	52.076	12.549	1857.1	1884.4	449.54	461.70
#3	48.280	24.107	1856.1	1859.7	448.58	456.79

Method: ALPHA1 Sample Name: 0810301 Operator: MP
Run Time: 08/16/94 09:25:25
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.0902	7370.0	7.4657	1.4822	21.904	.30873	496.16
SDev	1.7352	43.8	26.522	4.1026	.001	.10051	3.62
%RSD	159.17	.59454	355.25	276.78	.00240	32.557	.72997
#1	-3.0587	7364.3	8.4982	.59425	21.904	.22064	492.65
#2	.21762	7329.4	33.457	-2.1037	21.904	.41822	495.94
#3	-.42940	7416.5	-19.558	5.9562	21.903	.28732	499.88

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.77793	2.8584	14.868	6.1154	11893.	-.00026	540.19
SDev	2.0862	2.1768	1.554	.8592	53.	863.205	5.46
%RSD	268.17	76.153	10.452	14.050	.44289	326e6	1.0106
#1	-.79344	.53644	13.115	5.2512	11893.	-985.76	534.40
#2	-.01763	4.8529	16.074	6.9695	11841.	620.66	540.91
#3	3.1449	3.1860	15.416	6.1256	11946.	365.10	545.25

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	111.95	.85646	128.10	4.0259	-1.5758	7.3961	-8.7546
SDev	.81	.89230	1.46	3.5299	7.4992	12.742	8.5195
%RSD	.72045	104.18	1.1396	87.679	475.90	172.29	97.314
#1	111.64	-.17387	127.26	-.00402	-8.3458	-7.2686	-10.156
#2	111.34	1.3692	129.79	5.5121	6.4850	15.767	-16.487
#3	112.86	1.3740	127.26	6.5697	-2.8666	13.690	.37852

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	891.15	26.088	223.87	1.9592	16.288	17.482
SDev	4.01	8.015	1.04	9.6386	2.011	.855
%RSD	.45013	30.721	.46465	491.97	12.349	4.8921
#1	888.12	32.693	223.54	2.7620	14.685	18.419
#2	889.63	28.400	223.04	11.171	18.545	16.744
#3	895.70	17.172	225.04	-8.0557	15.635	17.282

Method: ALPHA1 Sample Name: CCV-1-2 Operator: MP
Run Time: 08/16/94 09:29:23
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	969.31	3870.1	3923.2	4100.7	4022.9	3902.8	40320.
SDev	7.23	37.6	34.5	22.0	38.1	30.7	289.
%RSD	.74543	.97251	.87979	.53727	.94596	.78672	.71576
#1	962.31	3832.1	3904.7	4094.5	3990.1	3878.0	40041.
#2	968.87	3871.0	3901.9	4082.5	4013.8	3893.3	40301.
#3	976.74	3907.3	3963.0	4125.2	4064.6	3937.1	40617.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4061.5	3957.2	3935.5	3943.7	3964.5	39503.	39342.
SDev	21.3	31.4	35.5	35.4	32.8	666.	371.
%RSD	.52326	.79322	.90163	.89856	.82740	1.6865	.94264
#1	4042.0	3928.5	3903.9	3916.4	3935.3	38737.	39005.
#2	4058.4	3952.3	3928.8	3931.1	3958.3	39942.	39281.
#3	4084.2	3990.7	3973.9	3983.8	4000.0	39832.	39739.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3986.6	4032.7	4096.0	3984.6	3930.3	3945.3	3989.5
SDev	32.0	53.3	22.3	34.5	15.1	67.0	50.9
%RSD	.80316	1.3218	.54341	.86608	.38311	1.6976	1.2768
#1	3958.6	3982.6	4070.4	3977.9	3917.4	3877.6	3953.1
#2	3979.5	4026.8	4107.4	3954.0	3926.6	3946.7	3967.8
#3	4021.5	4088.8	4110.3	4022.0	3946.9	4011.5	4047.7

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	3880.7	3982.9	3970.0	4109.9	4068.7	4076.0
SDev	43.9	16.4	35.7	96.7	42.2	31.9
%RSD	1.1310	.41098	.89844	2.3527	1.0369	.78220
#1	3831.2	3972.0	3938.0	4013.2	4032.1	4053.3
#2	3896.3	3975.0	3963.5	4110.0	4059.1	4062.2
#3	3914.7	4001.8	4008.5	4206.6	4114.8	4112.4

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Method: ALPHA1 Sample Name: CCB-1-2 Operator: MP
Run Time: 08/16/94 09:33:20
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.5310	-10.531	-2.1348	2.6768	-.41554	.21341	1.5923
SDev	1.6514	6.509	14.4746	8.1647	.00001	.00444	3.2063
%RSD	107.87	61.812	678.02	305.02	.00252	2.0809	201.36
#1	-1.3119	-16.424	-18.405	9.8058	-.41553	.21816	-1.6479
#2	.00001	-3.5439	2.6871	4.4551	-.41555	.20936	4.7635
#3	-3.2810	-11.624	9.3133	-6.2305	-.41555	.21272	1.6613

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.9114	-1.9899	-.54781	-2.8849	1.6396	-2093.2	-2.8925
SDev	1.3406	3.3268	.98620	.9965	1.0453	1241.5	20.1588
%RSD	70.135	167.18	180.03	34.543	63.756	59.311	696.92
#1	-.49066	-1.7695	-1.5340	-2.3114	.43253	-2117.6	-19.526
#2	-3.1540	1.2212	.43843	-2.3076	2.2402	-839.72	19.526
#3	-2.0897	-5.4214	-.54790	-4.0355	2.2460	-3322.4	-8.6779

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.72321	6.6267	15.839	2.4515	-2.4534	11.177	12.285
SDev	.00122	6.3605	1.058	4.8773	7.3901	11.546	20.981
%RSD	.16881	95.983	6.6780	198.95	301.22	103.30	170.78
#1	.72425	13.683	15.699	2.8962	-2.4466	23.058	-11.934
#2	.72187	4.8633	16.959	-2.6328	4.9333	10.473	24.917
#3	.72352	1.3339	14.858	7.0913	-9.8468	-.00086	23.872

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-4.5499	5.8341	-.16644	8.9856	-1.2834	1.2808
SDev	5.3083	16.213	.28830	20.716	1.4696	.5457
%RSD	116.67	277.90	173.22	230.55	114.51	42.605
#1	-6.1880	-1.6512	-.33277	-13.252	-2.8870	.72660
#2	1.3844	-5.2837	.16647	12.472	-.00071	1.2982
#3	-8.8461	24.437	-.33301	27.738	-.96268	1.8176

Method: ALPHA1 Sample Name: 0810301D Operator: MP
Run Time: 08/16/94 09:37:18
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.7598	6831.5	-9.3754	.97939	21.490	.26999	815.59
SDev	2.2663	48.3	12.9700	6.2835	.721	.03979	2.11
%RSD	128.78	.70718	138.34	641.57	3.3533	14.736	.25825
#1	-.45245	6805.9	-.95275	5.8567	21.906	.22435	813.31
#2	-.45027	6801.3	-24.311	3.1927	21.906	.28830	817.46
#3	-4.3768	6887.2	-2.8622	-6.1113	20.658	.29732	816.01

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.8174	1.5250	17.720	7.2337	11726.	-1655.1	717.37
SDev	2.3266	1.1963	1.187	1.3085	93.	1429.2	1.66
%RSD	128.02	78.448	6.6982	18.089	.79201	86.349	.23075
#1	4.0191	2.8525	18.708	6.9324	11663.	-620.66	715.56
#2	2.0498	1.1921	18.048	8.6666	11684.	-1058.8	718.82
#3	-.61665	.53038	16.403	6.1021	11833.	-3285.9	717.73

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	124.08	.00833	88.771	-.70955	2.7406	4.3598	-13.340
SDev	.65	.61837	5.328	6.16219	7.6511	5.2670	32.836
%RSD	.52497	7422.3	6.0017	868.46	279.17	120.81	246.16
#1	123.64	.62223	87.793	-5.2670	-5.8485	9.2499	-51.256
#2	123.79	-.61441	94.521	-3.1631	5.2437	-1.2167	5.6065
#3	124.83	.01717	84.001	6.3015	8.8267	5.0464	5.6305

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	1553.8	14.090	225.95	13.712	13.114	17.333
SDev	8.4	10.723	1.38	2.221	1.484	1.074
%RSD	.54262	76.103	.60916	16.194	11.314	6.1964
#1	1548.7	6.9349	224.54	15.575	12.807	16.254
#2	1549.1	8.9163	226.04	14.307	14.727	17.344
#3	1563.5	26.419	227.29	11.255	11.808	18.402

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Method: ALPHA1 Sample Name: 0810301S Operator: MP
Run Time: 08/16/94 09:41:16
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	42.599	13725.	1795.2	1816.0	1621.2	45.394	10195.
SDev	1.363	22.	40.5	6.7	1.6	.139	25.
%RSD	3.2005	.16014	2.2587	.36791	.10171	.30591	.24455
#1	44.127	13699.	1801.7	1815.9	1620.5	45.238	10171.
#2	42.165	13739.	1751.8	1809.3	1623.0	45.440	10221.
#3	41.505	13736.	1832.1	1822.6	1619.9	45.504	10193.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	51.385	464.17	199.18	239.76	21371.	17427.	9761.0
SDev	5.229	.19	2.09	.86	43.	1750.	26.7
%RSD	10.176	.04011	1.0486	.35974	.20060	10.041	.27405
#1	54.006	464.28	197.98	239.75	21323.	18401.	9730.3
#2	54.785	464.27	201.59	238.89	21405.	18474.	9779.1
#3	45.364	463.95	197.97	240.62	21386.	15407.	9773.7

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	626.50	1797.0	9339.9	475.66	441.98	415.66	1789.7
SDev	1.77	13.2	13.1	1.09	9.30	9.59	32.8
%RSD	.28324	.73425	.13992	.22981	2.1049	2.3063	1.8352
#1	624.50	1781.8	9327.4	475.32	440.78	417.76	1771.8
#2	627.89	1803.8	9353.5	476.88	433.33	405.20	1769.7
#3	627.12	1805.5	9338.8	474.78	451.82	424.03	1827.6

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	3323.1	22.786	2045.6	1891.2	458.55	487.53
SDev	7.7	6.596	3.7	20.9	1.92	.56
%RSD	.23288	28.949	.18129	1.1044	.41816	.11437
#1	3324.9	18.493	2041.5	1867.3	456.64	488.09
#2	3329.8	19.484	2048.7	1900.8	458.54	487.52
#3	3314.6	30.381	2046.5	1905.6	460.47	486.98

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Method: ALPHA1 Sample Name: 0810301L Operator: MP
Run Time: 08/16/94 09:45:14
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.47892	1468.4	-2.3358	3.9583	4.4429	.24220	79.660
SDev	1.31190	2.3	1.8551	1.3342	.1800	.03955	2.522
%RSD	273.93	.15657	79.422	33.708	4.0517	16.330	3.1656
#1	-.47952	1470.7	-4.0636	3.9560	4.5468	.26337	81.318
#2	.83328	1466.1	-.37532	5.2936	4.5468	.19657	80.905
#3	-1.7905	1468.4	-2.5684	2.6251	4.2350	.26666	76.758

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.8851	.37567	2.7101	-2.1180	2400.4	-681.51	112.02
SDev	1.1556	.69070	.0002	.4990	9.1	2166.51	15.81
%RSD	61.302	183.86	.00753	23.561	.37993	317.90	14.112
#1	-3.0252	-.17630	2.7099	-1.8324	2392.0	146.04	117.08
#2	-1.9157	1.1502	2.7101	-2.6942	2399.2	949.25	124.67
#3	-.71452	.15309	2.7103	-1.8273	2410.1	-3139.8	94.298

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	23.697	4.2343	79.049	-.97006	-4.9930	6.7904	19.661
SDev	.091	2.0070	8.860	5.67445	6.9985	9.8990	15.772
%RSD	.38396	47.398	11.208	584.96	140.17	145.78	80.221
#1	23.802	6.5517	87.459	4.9872	-9.9249	10.285	2.1104
#2	23.645	3.0528	79.891	-1.5860	-8.0710	14.468	24.223
#3	23.644	3.0986	69.799	-6.3114	3.0170	-4.3820	32.649

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	174.26	3.6326	44.142	18.787	3.6383	4.7563
SDev	7.22	2.3116	.250	10.660	.5574	.8472
%RSD	4.1444	63.636	.56605	56.739	15.319	17.811
#1	170.09	1.3209	43.892	23.123	4.2819	4.9154
#2	182.60	3.6326	44.392	26.596	3.3177	3.8408
#3	170.09	5.9442	44.142	6.6430	3.3154	5.5126

Method: ALPHA1 Sample Name: 0810302 Operator: MP
Run Time: 08/16/94 09:49:12
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.7191	43401.	33.779	2.2624	83.592	1.3108	5964.3
SDev	2.3062	75.	12.424	4.2928	.540	.0370	13.0
%RSD	134.15	.17323	36.780	189.74	.64582	2.8240	.21777
#1	-3.9086	43388.	45.072	4.0348	83.904	1.2926	5953.8
#2	.68844	43333.	20.470	-2.6328	83.904	1.3534	5978.8
#3	-1.9372	43482.	35.793	5.3852	82.969	1.2865	5960.4

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.09037	11.025	46.505	20.668	44726.	1034.4	5885.3
SDev	1.20063	.691	1.507	1.999	23.	1230.7	28.3
%RSD	1328.5	6.2718	3.2406	9.6731	.05183	118.97	.48029
#1	1.2891	11.801	45.190	19.510	44700.	36.510	5899.4
#2	-.66064	10.473	48.150	22.976	44743.	2409.6	5852.7
#3	-.89959	10.803	46.175	19.517	44735.	657.17	5903.7

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	350.12	-.34333	185.79	29.152	38.022	7.9924	-17.899
SDev	.39	2.48921	7.24	5.936	15.856	16.936	3.795
%RSD	.11052	725.01	3.8985	20.360	41.701	211.91	21.205
#1	349.77	-.89481	180.61	22.325	52.829	5.1980	-16.850
#2	350.53	2.3754	194.07	33.082	39.944	26.152	-14.738
#3	350.06	-2.5106	182.70	32.051	21.293	-7.3732	-22.108

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	1010.9	19.924	1104.0	-.61892	73.398	75.974
SDev	11.6	6.491	1.6	41.1660	1.465	1.128
%RSD	1.1495	32.578	.14551	6651.3	1.9955	1.4845
#1	1003.8	15.851	1102.8	-24.299	71.801	75.086
#2	1024.3	27.409	1103.3	46.915	74.678	77.243
#3	1004.6	16.512	1105.8	-24.473	73.717	75.592

Method: ALPHA1 Sample Name: 0810303 Operator: MP
Run Time: 08/16/94 09:53:09
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.05929	4485.7	-12.058	9.2009	65.868	.27743	42500.
SDev	1.35737	34.9	13.193	5.0856	.718	.00641	326.
%RSD	2289.3	.77720	109.41	55.273	1.0901	2.3119	.76812
#1	-.50339	4460.6	-27.220	12.735	65.454	.28251	42270.
#2	1.4645	4471.0	-3.1994	3.3723	65.454	.27955	42356.
#3	-1.1390	4525.5	-5.7551	11.496	66.698	.27022	42873.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8.5513	5.5380	75.860	69.435	19988.	219.06	19262.
SDev	2.7413	1.7021	3.228	.485	165.	1900.3	174.
%RSD	32.057	30.735	4.2547	.69870	.82570	867.47	.90390
#1	5.6755	4.1052	72.133	69.994	19893.	-766.70	19246.
#2	11.135	7.4195	77.727	69.127	19894.	2409.6	19097.
#3	8.8438	5.0893	77.721	69.184	20179.	-985.76	19444.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	230.79	6.2907	233.08	26.046	242.97	25.640	-9.3074
SDev	1.53	4.3761	7.02	1.904	5.28	2.087	27.1557
%RSD	.66380	69.564	3.0129	7.3097	2.1727	8.1382	291.76
#1	229.68	1.3274	225.51	27.279	239.93	25.657	3.6674
#2	230.15	7.9511	239.38	23.853	239.92	23.545	8.9271
#3	232.54	9.5936	234.33	27.005	249.07	27.718	-40.517

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	1330.8	22.566	243.60	-7.3757	37.297	545.90
SDev	11.7	4.721	2.55	17.1655	1.435	7.79
%RSD	.88070	20.919	1.0476	232.73	3.8475	1.4276
#1	1317.3	18.493	242.52	-26.802	36.036	539.84
#2	1337.1	27.740	241.76	-1.0736	36.997	543.17
#3	1338.1	21.465	246.51	5.7480	38.859	554.70

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Method: ALPHA1 Sample Name: 0810304 Operator: MP
Run Time: 08/16/94 09:57:07
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.1177	15106.	5.8948	3.1797	49.553	.63200	2119.7
SDev	.6604	52.	19.834	2.0603	.540	.06984	3.8
%RSD	59.089	.34193	336.46	64.795	1.0890	11.050	.18055
#1	-1.7791	15053.	9.5952	.92723	49.242	.56122	2116.8
#2	-.45824	15157.	23.618	3.6430	49.241	.70085	2124.0
#3	-1.1157	15107.	-15.529	4.9690	50.176	.63393	2118.2

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.6140	7.9675	21.405	19.044	20585.	-219.06	1791.9
SDev	1.4960	.1911	1.369	1.718	63.	515.03	3.1
%RSD	57.232	2.3984	6.3959	9.0208	.30746	235.11	.17477
#1	-3.0613	8.0806	19.871	20.760	20514.	328.59	1790.1
#2	-.94530	8.0751	22.501	17.324	20637.	-292.08	1790.1
#3	-3.8353	7.7469	21.844	19.048	20604.	-693.68	1795.5

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	306.11	-1.0457	152.60	6.7333	15.211	11.577	.61099
SDev	1.13	1.4129	2.94	11.091	6.729	13.622	14.242
%RSD	.36769	135.11	1.9256	164.72	44.241	117.66	2331.0
#1	304.84	-2.6676	149.66	-3.6915	22.673	10.880	-.45235
#2	306.98	-.38755	155.54	5.5037	9.6027	25.534	-13.070
#3	306.52	-.08205	152.60	18.388	13.357	-1.6827	15.355

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	1126.3	26.749	500.39	11.630	32.608	53.930
SDev	2.1	14.038	.75	8.667	.560	1.312
%RSD	.18536	52.480	.14974	74.522	1.7161	2.4329
#1	1125.3	19.484	499.64	4.1661	32.945	55.445
#2	1124.9	17.833	501.14	21.136	32.917	53.197
#3	1128.7	42.930	500.39	9.5889	31.962	53.147

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Method: ALPHA1 Sample Name: 0810305 Operator: MP
Run Time: 08/16/94 10:01:06
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.32039	39751.	21.658	5.5526	139.69	2.0131	8226.8
SDev	1.13020	306.	20.892	2.2902	1.24	.0394	45.7
%RSD	352.76	.77070	96.466	41.245	.88888	1.9570	.55526
#1	-1.0082	39520.	-1.8802	4.0604	138.45	2.0586	8176.0
#2	.98401	39633.	28.848	8.1895	139.69	1.9906	8240.0
#3	-.93698	40098.	38.005	4.4080	140.93	1.9901	8264.4

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.5409	27.551	59.181	80.529	75838.	2555.7	12619.
SDev	1.8207	1.538	.822	.430	500.	1159.2	125.
%RSD	118.16	5.5839	1.3884	.53384	.65898	45.356	.99322
#1	-2.3452	28.892	58.309	81.019	75398.	3431.9	12509.
#2	-2.8209	27.889	59.292	80.217	75734.	2993.8	12591.
#3	.54354	25.871	59.941	80.350	76381.	1241.3	12755.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	851.04	3.4270	346.48	57.438	74.046	8.7885	-7.9949
SDev	5.99	5.6094	1.19	7.747	8.475	9.4700	25.2458
%RSD	.70393	163.69	.34204	13.487	11.445	107.76	315.77
#1	845.17	.10129	345.80	54.632	66.958	8.1266	17.209
#2	850.82	9.9034	345.79	66.197	83.433	18.572	-33.283
#3	857.15	.27621	347.85	51.486	71.747	-.33327	-7.9108

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	1476.1	17.943	1206.1	-35.394	102.92	212.08
SDev	9.2	5.568	9.2	18.283	.64	2.73
%RSD	.62500	31.035	.76352	51.657	.62580	1.2894
#1	1471.9	20.474	1199.0	-27.025	103.66	209.56
#2	1469.6	11.558	1202.7	-22.793	102.63	211.69
#3	1486.6	21.795	1216.5	-56.364	102.48	214.99

Method: ALPHA1 Sample Name: 0810306 Operator: MP
Run Time: 08/16/94 10:05:03
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.5183	6064.5	3.6938	1.8351	17.257	.37213	523.16
SDev	2.9538	41.3	26.973	1.5227	.540	.11879	1.88
%RSD	194.55	.68090	730.23	82.978	3.1308	31.922	.35899
#1	1.3204	6024.6	20.427	3.5933	17.881	.43286	524.88
#2	-1.3000	6061.8	18.077	.94452	16.946	.23525	521.16
#3	-4.5752	6107.1	-27.422	.96740	16.945	.44829	523.45

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.5247	2.9155	10.733	5.5494	9079.5	-766.70	471.18
SDev	1.4748	2.3924	1.483	1.4869	58.8	2379.86	21.21
%RSD	96.728	82.059	13.816	26.794	.64719	310.40	4.5018
#1	.15774	5.5694	12.158	6.4022	9021.0	1241.3	493.24
#2	-2.1377	2.2526	10.844	6.4136	9079.0	-146.04	469.38
#3	-2.5942	.92443	9.1984	3.8325	9138.5	-3395.4	450.93

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	99.144	-.55931	98.515	2.5383	-.42678	1.8975	9.7783
SDev	.612	1.72872	8.866	4.5276	9.07030	7.3565	12.746
%RSD	.61726	309.08	8.9997	178.37	2125.3	387.69	130.35
#1	98.590	.07465	100.90	3.4184	-6.5380	9.5719	5.2031
#2	99.041	.76292	105.94	6.5613	-4.7373	-5.0933	-.04847
#3	99.801	-2.5155	88.700	-2.3647	9.9950	1.2140	24.180

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	998.27	21.025	190.14	-2.7223	11.453	14.213
SDev	2.43	9.942	.29	23.8921	2.558	1.453
%RSD	.24366	47.286	.15176	877.65	22.335	10.225
#1	1000.0	9.9070	190.31	-19.638	14.352	15.864
#2	999.28	29.060	189.81	24.609	10.490	13.644
#3	995.49	24.107	190.31	-13.138	9.5153	13.130

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Method: ALPHA1 Sample Name: CCV-1-3 Operator: MP
Run Time: 08/16/94 10:09:01
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	969.75	3863.4	3892.0	4062.0	4024.3	3867.8	40287.
SDev	2.96	20.7	66.9	32.7	22.4	21.7	155.
%RSD	.30494	.53665	1.7192	.80598	.55596	.56040	.38490
#1	969.53	3848.2	3845.9	4062.4	4019.4	3864.2	40248.
#2	972.81	3887.0	3968.7	4094.5	4048.7	3891.1	40458.
#3	966.91	3855.0	3861.3	4029.0	4004.8	3848.2	40155.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4073.8	3936.5	3927.2	3914.9	3943.1	40501.	39020.
SDev	17.1	15.5	17.2	21.7	25.0	741.	144.
%RSD	.42018	.39331	.43699	.55420	.63517	1.8305	.36991
#1	4064.0	3934.4	3915.7	3909.5	3932.7	41000.	38951.
#2	4093.5	3952.9	3946.9	3938.8	3971.7	39650.	39186.
#3	4063.8	3922.1	3919.0	3896.5	3924.9	40854.	38923.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3971.6	4012.1	4094.8	3973.8	3929.7	3924.4	3975.8
	.7	26.1	30.0	23.8	18.9	48.7	37.7
	[illegible]	[illegible]	.73336	.59985	.48012	1.2398	[illegible]
[illegible]	[illegible]	3991.4	4086.8	3975.8	3908.2	3869.2	3951.1
[illegible]	[illegible]	[illegible]	[illegible]	3996.6	3937.7	3961.3	4019.3
#3	3957.7	4003.3	4069.5	3949.0	3943.3	3942.6	3954.1

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	3868.9	3984.5	3956.6	4075.5	4061.6	4056.8
SDev	22.5	5.9	20.8	38.3	16.6	20.9
%RSD	.58219	.14834	.52675	.93941	.40748	.51620
#1	3846.7	3978.0	3949.8	4058.8	4056.2	4050.6
#2	3891.8	3989.5	3980.0	4119.3	4080.2	4080.2
#3	3868.3	3985.9	3940.0	4048.4	4048.5	4039.7

Method: ALPHA1 Sample Name: CCB-1-3 Operator: MP
Run Time: 08/16/94 10:12:59
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.87429	12.788	-.09008	-.44220	.10378	.25024	37.025
SDev	1.51522	14.100	16.3592	3.36812	.47603	.04143	6.985
%RSD	173.31	110.26	18160.	761.67	458.68	16.555	18.864
#1	.00016	10.429	18.668	-3.5644	.20765	.20356	43.522
#2	.00088	27.918	-11.400	-.88942	.51931	.26455	37.914
#3	-2.6239	.01634	-7.5385	3.1272	-.41561	.28262	29.638

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.9438	-.21933	1.4246	-1.7272	9.7454	-511.14	14.465
SDev	1.8798	3.45635	.8690	1.3214	1.2926	2665.71	27.018
%RSD	96.707	1575.8	60.998	76.503	13.264	521.53	186.79
#1	-1.0698	2.5471	1.0956	-1.4399	11.039	.00020	-3.2543
#2	-4.1016	.88878	2.4100	-.57313	9.7429	1862.0	45.562
#3	-.66014	-4.0938	.76814	-3.1686	8.4541	-3395.4	1.0868

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.1330	-1.5781	48.073	-2.4515	-10.489	6.9864	18.603
SDev	.3568	3.1027	15.861	5.6705	17.162	13.952	11.961
%RSD	31.490	196.61	32.993	231.30	163.62	199.70	64.297
#1	1.3401	1.3691	61.108	-8.4024	-2.4755	-2.1013	4.9119
#2	1.3380	-4.8160	52.697	-1.8413	1.2003	23.050	27.025
#3	.72105	-1.2875	30.414	2.8892	-30.192	.01038	23.872

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-6.9571	2.3116	-.33351	-7.0787	1.9225	2.5827
SDev	8.6815	9.7293	.66090	25.2571	2.8869	1.1267
%RSD	124.79	420.88	198.17	356.81	150.16	43.624
#1	-8.8479	-2.9721	-.08356	-35.595	1.9223	1.3198
#2	2.5140	13.540	.16597	1.8825	4.8095	2.9434
#3	-14.537	-3.6326	-1.0829	12.476	-.96426	3.4848

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Method: ALPHA1 Sample Name: CRI-1-2 Operator: MP
Run Time: 08/16/94 10:16:57
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	19.681	-16.112	27.107	106.36	-.41555	9.9759	-26.919
SDev	1.137	6.628	5.697	4.70	.00001	.0411	1.458
%RSD	5.7759	41.136	21.018	4.4151	.00330	.41196	5.4147
#1	20.993	-18.037	20.539	101.90	-.41556	9.9507	-26.783
#2	19.024	-21.564	30.052	105.92	-.41554	10.023	-28.440
#3	19.025	-8.7347	30.728	111.27	-.41556	9.9537	-25.535

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8.8744	101.80	18.248	48.393	2.6772	-219.06	15.004
SDev	1.3006	3.00	.380	.999	1.3704	829.34	3.911
%RSD	14.656	2.9426	2.0809	2.0648	51.187	378.59	26.063
#1	8.1986	104.68	18.467	47.817	3.7114	-803.21	13.920
#2	8.0508	98.699	18.468	47.815	1.1229	-584.15	19.343
#3	10.374	102.02	17.810	49.547	3.1972	730.19	11.751

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	31.201	50.100	24.949	84.138	12.876	124.10	35.654
SDev	.089	2.504	4.848	1.321	10.175	8.72	9.556
%RSD	.28614	4.9980	19.433	1.5700	79.022	7.0285	26.803
#1	31.253	49.369	23.268	85.365	3.0200	121.31	24.772
#2	31.098	52.889	21.166	84.309	12.266	133.88	42.676
#3	31.253	48.044	30.415	82.739	23.343	117.12	39.516

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	183.86	2.5318	99.441	115.37	102.31	40.694
SDev	3.42	3.7556	.382	14.33	.56	1.594
%RSD	1.8608	148.34	.38374	12.419	.54295	3.9174
#1	187.15	5.6140	99.357	112.22	102.95	38.853
#2	180.32	-1.6512	99.857	131.01	101.99	41.613
#3	184.12	3.6326	99.108	102.88	101.99	41.616

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Method: ALPHA1 Sample Name: ICSA-1-2 Operator: MP
Run Time: 08/16/94 10:20:55
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.27995	485940.	102.72	-21.335	-1.0311	-.20330	463350.
SDev	.78985	1510.	48.16	8.603	.1758	.00672	1046.
%RSD	282.13	.31077	46.883	40.322	17.050	3.3067	.22572
#1	-.63200	484490.	152.22	-13.034	-1.2341	-.19555	462150.
#2	.72541	485820.	99.903	-30.211	-.92832	-.20678	463980.
#3	.74645	487510.	56.032	-20.760	-.93097	-.20758	463940.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-7.6225	-2.9621	-3.1649	-2.1254	175830.	-243.40	476200.
SDev	6.7928	1.0138	.6559	.9850	433.	1610.71	437.
%RSD	89.115	34.224	20.726	46.344	.24654	661.76	.09172
#1	-6.0656	-4.0708	-3.1580	-1.6384	175350.	-2044.5	475730.
#2	-1.7433	-2.0824	-3.8242	-3.2591	175940.	1058.8	476260.
#3	-15.059	-2.7331	-2.5124	-1.4788	176200.	255.57	476590.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.62444	.42499	-28.925	12.428	3.1722	14.384	67.792
SDev	.13744	6.6296	11.128	15.202	14.653	16.938	27.958
%RSD	22.010	1559.9	38.471	122.32	461.92	117.75	41.241
#1	-.74254	-2.0252	-32.011	26.726	8.5349	-3.7790	48.068
#2	-.65719	7.9309	-16.580	-3.5398	14.388	29.748	55.521
#3	-.47358	-4.6307	-38.184	14.099	-13.407	17.184	99.788

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-40.084	-14.640	-11.327	-38.939	-.58070	1.8409
SDev	4.357	10.549	.250	62.023	.46787	2.7102
%RSD	10.869	72.051	2.2044	159.28	80.569	147.22
#1	-40.824	-2.6419	-11.327	-85.019	-1.1199	2.8243
#2	-44.024	-18.823	-11.577	31.580	-.28226	3.9221
#3	-35.405	-22.456	-11.078	-63.379	-.33993	-1.2237

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Method: ALPHA1 Sample Name: ICSAB-1-2 Operator: MP
Run Time: 08/16/94 10:24:53
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	959.67	485720.	87.742	-17.200	478.52	453.79	460560.
SDev	10.05	6777.	19.419	8.454	6.99	5.60	4297.
%RSD	1.0472	1.3953	22.132	49.151	1.4615	1.2340	.93293
#1	949.03	478660.	92.921	-7.6414	471.58	448.11	456120.
#2	968.99	492170.	104.05	-23.696	485.57	459.30	464690.
#3	961.00	486330.	66.258	-20.262	478.42	453.96	460860.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	956.73	438.43	451.60	468.18	171710.	-1277.8	480600.
SDev	4.96	1.99	5.65	5.63	1903.	1596.0	6260.
%RSD	.51833	.45501	1.2520	1.2022	1.1083	124.90	1.3025
#1	956.64	438.43	446.72	462.05	169730.	-146.04	474160.
#2	951.82	440.42	457.79	473.12	173530.	-3103.3	486660.
#3	961.73	436.43	450.28	469.36	171860.	-584.15	480970.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	450.79	452.39	-10.964	890.62	926.01	27.038	17.688
SDev	3.91	17.54	2.802	33.06	5.81	1.214	57.275
%RSD	.86697	3.8780	25.558	3.7122	.62757	4.4907	323.81
#1	446.75	437.75	-10.854	854.52	923.03	27.858	24.418
#2	454.55	471.84	-13.819	919.43	922.29	27.612	71.301
#3	451.08	447.60	-8.2183	897.90	932.71	25.643	-42.655

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-29.942	-3.9628	-10.940	59.392	464.39	956.05
SDev	4.247	11.1841	.501	41.786	7.14	7.80
%RSD	14.183	282.23	4.5804	70.356	1.5373	.81586
#1	-34.644	4.9535	-10.439	107.64	456.15	947.28
#2	-26.388	-.33023	-11.442	35.305	468.80	958.66
#3	-28.793	-16.512	-10.940	35.229	468.20	962.21

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ethod: ALPHA1 Sample Name: CCV-1-4 Operator: MP
Run Time: 08/16/94 10:28:51
omment: 940816-1
ode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	964.06	3851.2	3905.9	4105.7	4015.5	3865.4	39787.
SDev	2.01	14.9	40.4	15.9	10.7	12.8	60.
%RSD	.20800	.38742	1.0349	.38828	.26596	.33138	.15074
#1	963.62	3861.1	3950.0	4118.6	4024.1	3879.8	39856.
#2	966.25	3858.4	3870.6	4110.6	4018.8	3860.7	39752.
#3	962.32	3834.0	3897.1	4087.9	4003.5	3855.5	39752.

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4074.7	3921.1	3909.1	3904.6	3933.1	39735.	38499.
SDev	5.7	7.5	3.5	8.0	3.4	432.	193.
%RSD	.13949	.19069	.08882	.20581	.08573	1.0885	.50052
#1	4068.2	3929.7	3913.0	3911.2	3936.3	39467.	38700.
#2	4077.6	3917.1	3907.8	3906.9	3933.5	39503.	38480.
#3	4078.4	3916.5	3906.5	3895.6	3929.6	40234.	38316.

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3947.3	4003.2	4111.4	4014.4	3943.9	3906.2	3957.6
SDev	7.9	16.0	14.1	4.8	36.1	20.2	35.9
%RSD	.19939	.39955	.34258	.12005	.91445	.51593	.90803
#1	3956.2	3984.8	4120.0	4012.3	3943.3	3888.0	3916.2
#2	3944.3	4010.8	4119.1	4020.0	3908.2	3927.9	3976.2
#3	3941.3	4013.9	4095.2	4011.0	3980.3	3902.7	3980.4

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	3845.2	3940.3	3951.7	4112.7	4064.5	4084.3
SDev	4.5	27.0	6.1	24.9	14.9	11.3
%RSD	.11822	.68457	.15516	.60585	.36778	.27626
#1	3841.5	3970.7	3958.0	4107.9	4081.2	4097.3
#2	3850.3	3919.2	3951.3	4139.6	4060.0	4078.0
#3	3843.9	3931.1	3945.8	4090.5	4052.3	4077.5

Method: ALPHA1 Sample Name: CCB-1-4 Operator: MP
Run Time: 08/16/94 10:32:49
Comment: 940816-1
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.00087	9.1899	-3.9486	2.6783	.72705	.35202	40.223
SDev	1.3127	8.1453	12.7132	4.2976	.17992	.06971	.354
%RSD	151000.	88.633	321.96	160.46	24.747	19.803	.87908
#1	.00103	12.605	-12.003	4.4618	.83093	.42178	40.024
#2	-1.3119	-.10701	10.707	5.7969	.51929	.35193	40.631
#3	1.3135	15.072	-10.551	-2.2240	.83092	.28236	40.013

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.6171	-.22315	-1.2062	-2.0187	11.907	-1350.9	11.572
SDev	1.3470	.83618	1.1862	.4989	.832	607.6	12.942
%RSD	83.295	374.71	98.342	24.714	6.9861	44.982	111.85
#1	2.9096	-1.1099	-2.5221	-2.3092	11.306	-657.17	-3.2543
#2	.22157	-.11073	-.21917	-1.4426	11.559	-1789.0	17.358
#3	1.7201	.55113	-.87727	-2.3042	12.857	-1606.4	20.611

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	1.0807	7.5523	54.801	2.3550	-11.719	16.069	-4.5623
SDev	.1795	5.7837	2.558	8.7858	9.779	1.216	6.3183
%RSD	16.613	76.582	4.6677	373.07	83.451	7.5702	138.49
#1	1.1846	12.845	51.857	4.7103	-.63233	16.772	-4.5629
#2	1.1841	8.4333	56.483	-7.3684	-15.403	14.664	-10.880
#3	.87342	1.3786	56.062	9.7231	-19.121	16.770	1.7563

Elem	Si2881	Sn1899	Ti3349	Tl1908	V_2924	Zn2138
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/l
Avge	-12.139	2.8620	-.08299	37.808	-.96459	2.7462
SDev	2.086	1.9066	.24994	33.953	.00056	1.1765
%RSD	17.182	66.617	301.19	89.804	.05858	42.840
#1	-14.157	3.9628	-.08266	75.679	-.96394	1.8185
#2	-9.9919	3.9628	-.33310	27.660	-.96481	4.0695
#3	-12.269	.66047	.16679	10.086	-.96501	2.3507

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

00001

ELEMENT As
WAVE LENGTH 193.7
INSTR.NO. PE 5100 # 3
LAMP NO. HCL 0551462
LAMP ENERGY 42
ID/MT FILE CLP.IDW
DATA FILE ~~AS0816~~ ~~SE~~ AS0815X
~~MDL~~, ppb IDL (3.2ppb)

DATE 08/16/94
TIME 10:16
SHIFT Day
ANALYST RS
SUPERVISOR

BATCH NO. 895
RAW DATA w/: 895

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
ICV-1	01	1D		1D	40.63			101.6%
ICB-1	02				-0.40			
CCV-1-1	03				41.56			103.9%
CCB-1-1	04				0.22			
CRA-1	05				12.78			
PBW-895	06				0.36			
PBWA-895	07				19.07	95.4%		
LCSW-895	08				40.48			101.2%
LCSWA-895	09				60.74	101.3%		
0810307	10				-0.26			
0810307A	11				19.45	97.2%		
PBS-895	12				-0.44			
PBSA-895	13				20.62	103.1%		
CCV-1-2	14				40.79			102%
CCB-1-2	15				0.17			
LCSS-895	16				38.63			96.6%
LCSSA-895	17				52.42	69.0%		
0810301	18				2.33			
0810301A	19				24.24	121.2%		
0810301D	20				4.93			
0810301DA	21				24.65	98.6%		
0810301S	22				39.56		SR	98.9%
0810302	23				12.07			
0810302A	24				31.22	95.8%		
CCV-1-3	25	↓		↓	40.83			102.1%

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

00002

ELEMENT As

DATE 08/16/94

ANALYST RS

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
CCB-1-3	26	1D		1D	0.70			
0810303	27				2.67			
0810303A	28				19.94	99.7%		
0810304	29				4.76			
0810304A	30				26.05	106.4%		
0810305	31				11.73			
0810305A	32				30.02	91.4%		
0810306	33				2.62			
0810306A	34				23.90	119.5%		
CCV-1-4	35				40.13			100.3%
CCB-1-4	36				-0.31			
End Run	37	↓		↓	52.54			
CRA/STD① 10 ppb	35	FU-A-	0413-03					
STD② 25 "	36	FU-A-	0414-01					
STD③ 50 "	37	FU-A-	0414-01					
STD④ 75 "	38	FU-A-	0414-01					
High Std 100 "	39	FU-A-	0138-03					
Modifier	40							

Standard Name	Cup	Conc.	Lot No.
ICV/CCV	see run	40 ppb	FU-A-0028-03
ICB/CCB	1,	0 "	FU-A-0227-02
spiking soln	-	2000 "	FU-A-0414-02

ANALYST SIGNATURE: Rani Swamy

SUPERVISOR SIGNATURE:

Element File: ASCLP.GEL Element: As Wavelength: 193.7
Date: 08/16/94 Time: 10:16 Slit: 0.70 L
Data File: SE0815X.DAT ID/Wt File: CLP.IDW Lamp Current: 18
Technique: HGA Calib. Type: Linear Energy: 42
Remark 1: AS ANALYSIS
Remark 2: BATCH#895
Remark 3: ANALYST:RS
Remark 4: INSTRUMENT: PE 5100#3
Remark 5: STANDARD PREP DATE:08-16-94

As ID: BLANK Seq. No.: 00048 A/S Pos.: 0 Date: 08/16/94

dispensed: 5 from 40, 20 from 0
Replicate 1 Time: 10:18

115

Peak Area (A-s): 0.008 Peak Height (A): 0.025
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.008

uL dispensed: 5 from 40, 20 from 0
Replicate 2 Time: 10:20
Peak Area (A-s): -0.004 Peak Height (A): 0.020
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): -0.004

Mean Pk Area (A-s): 0.002 SD: 0.0086 RSD(%): 438.01

Auto-zero performed.

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As ID: STANDARD1 Seq. No.: 00049 A/S Pos.: 35 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 35
Replicate 1 Time: 10:22
Peak Area (A-s): 0.047 Peak Height (A): 0.064
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.045

uL dispensed: 5 from 40, 20 from 35
Replicate 2 Time: 10:24
Peak Area (A-s): 0.045 Peak Height (A): 0.062
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.043

Mean Pk Area (A-s): 0.044 SD: 0.0014 RSD(%): 3.26

Standard number 1 applied. [10.00]
Correlation coefficient: 1.00000 Slope: 0.0044

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As ID: STANDARD2 Seq. No.: 00050 A/S Pos.: 36 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 36
Replicate 1 Time: 10:27
Peak Area (A-s): 0.116 Peak Height (A): 0.124
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 25.74

uL dispensed: 5 from 40, 20 from 36
Replicate 2 Time: 10:29
Peak Area (A-s): 0.109 Peak Height (A): 0.136
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 24.17

Mean Conc (ug/L): 24.96 SD: 1.111 RSD(%): 4.45

Standard number 2 applied. [25.00]
Correlation coefficient: 1.00000 Slope: 0.0044

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As ID: STANDARD3 Seq. No.: 00051 A/S Pos.: 37 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 37
Replicate 1 Time: 10:31
Peak Area (A-s): 0.207 Peak Height (A): 0.223
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Blank Corrected Pk Area (A-s): 0.205
Concentration (ug/L): 46.39

uL dispensed: 5 from 40, 20 from 37
Replicate 2 Time: 10:34
Peak Area (A-s): 0.200 Peak Height (A): 0.214
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.198
Concentration (ug/L): 44.96

Mean Conc (ug/L): 45.67 SD: 1.015 RSD(%): 2.22

Standard number 3 applied. [50.00]
Correlation coefficient: 0.99704 Slope: 0.0041

ID: STANDARD4 Seq. No.: 00052 A/S Pos.: 38 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 38
Replicate 1 Time: 10:36
Peak Area (A-s): 0.303 Peak Height (A): 0.297
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.301
Concentration (ug/L): 72.92

uL dispensed: 5 from 40, 20 from 38
Replicate 2 Time: 10:38
Peak Area (A-s): 0.309 Peak Height (A): 0.308
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.307
Concentration (ug/L): 74.36

Mean Conc (ug/L): 73.64 SD: 1.024 RSD(%): 1.39

Standard number 4 applied. [75.00]
Correlation coefficient: 0.99887 Slope: 0.0041

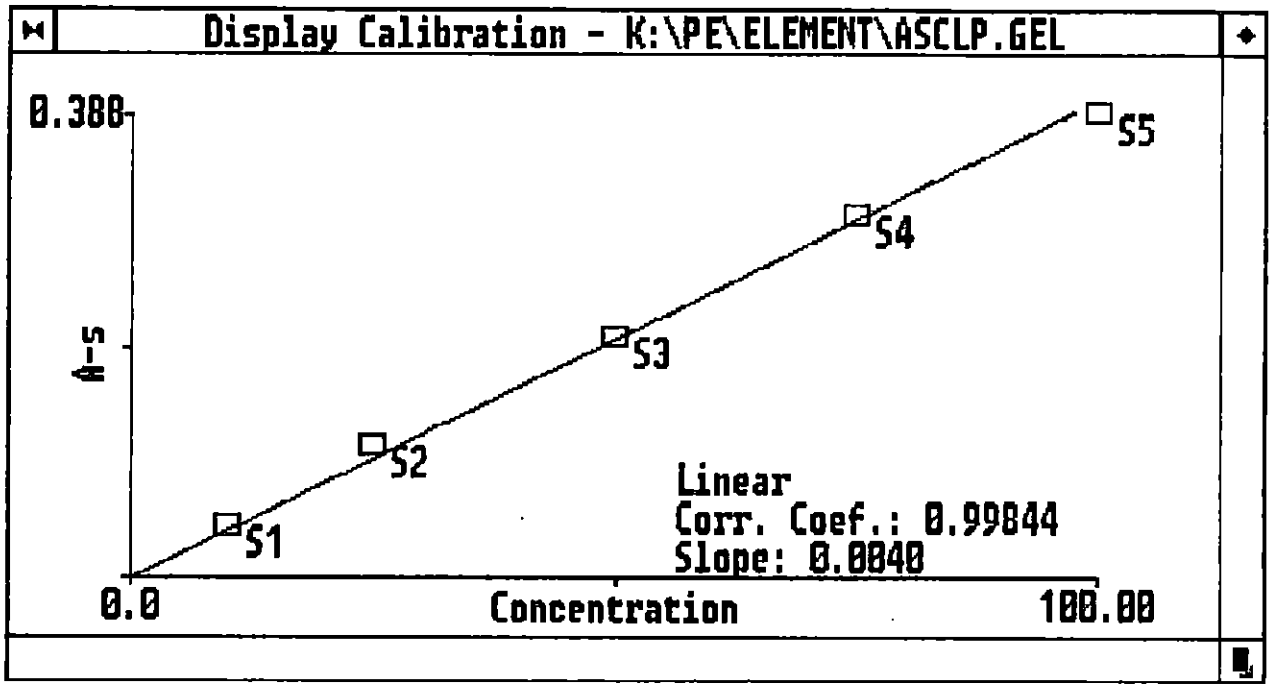
ID: STANDARD5 Seq. No.: 00053 A/S Pos.: 39 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 39
Replicate 1 Time: 10:41
Peak Area (A-s): 0.386 Peak Height (A): 0.361
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.384
Concentration (ug/L): 94.17

uL dispensed: 5 from 40, 20 from 39
Replicate 2 Time: 10:43
Peak Area (A-s): 0.395 Peak Height (A): 0.356
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.393
Concentration (ug/L): 96.34

Mean Conc (ug/L): 95.26 SD: 1.539 RSD(%): 1.62

Standard number 5 applied. [100.00]
Correlation coefficient: 0.99844 Slope: 0.0040



As ID: ICV-1 Seq. No.: 00054 A/S Pos.: 1 Date: 08/16/94

dispensed: 5 from 40, 20 from 1
Replicate 1 Time: 10:48
Peak Area (A-s): 0.161 Peak Height (A): 0.172
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 40.01 Corrected Conc (ug/L): 40.01

dispensed: 5 from 40, 20 from 1
Replicate 2 Time: 10:50
Peak Area (A-s): 0.166 Peak Height (A): 0.175
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.164
Concentration (ug/L): 41.24 Corrected Conc (ug/L): 41.24

Mean Conc (ug/L): 40.63 SD: 0.873 RSD(%): 2.15
Corrected Conc (ug/L): 40.63

As ID: ICB-1 Seq. No.: 00055 A/S Pos.: 2 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 2

Replicate 1 Time: 10:52
Peak Area (A-s): 0.002 Peak Height (A): 0.024
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.08 Corrected Conc (ug/L): 0.08

uL dispensed: 5 from 40, 20 from 2

Replicate 2 Time: 10:55
Peak Area (A-s): -0.002 Peak Height (A): 0.025
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -0.88 Corrected Conc (ug/L): -0.88

Mean Conc (ug/L): -0.40 SD: 0.683 RSD(%): 170.00
Corrected Conc (ug/L): -0.40

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As ID: CCV-1-1 Seq. No.: 00056 A/S Pos.: 3 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 3
Replicate 1 Time: 10:57
Peak Area (A-s): 0.167 Peak Height (A): 0.176
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 41.50 Corrected Conc (ug/L): 41.50

uL dispensed: 5 from 40, 20 from 3
Replicate 2 Time: 10:59
Peak Area (A-s): 0.167 Peak Height (A): 0.174
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 41.62 Corrected Conc (ug/L): 41.62

Mean Conc (ug/L): 41.56 SD: 0.082 RSD(%): 0.20
Corrected Conc (ug/L): 41.56

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As ID: CCB-1-1 Seq. No.: 00057 A/S Pos.: 4 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 4
Replicate 1 Time: 11:02
Peak Area (A-s): 0.009 Peak Height (A): 0.022
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.67 Corrected Conc (ug/L): 1.67

uL dispensed: 5 from 40, 20 from 4
Replicate 2 Time: 11:04
Peak Area (A-s): -0.003 Peak Height (A): 0.021
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -1.22 Corrected Conc (ug/L): -1.22

Mean Conc (ug/L): 0.22 SD: 2.039 RSD(%): 911.00
Corrected Conc (ug/L): 0.22

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As ID: CRA-1 Seq. No.: 00058 A/S Pos.: 5 Date: 08/16/94
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uL dispensed: 5 from 40, 20 from 5
eplicate 1 Time: 11:07
eak Area (A-s): 0.052 Peak Height (A): 0.060
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.050
oncentration (ug/L): 12.65 Corrected Conc (ug/L): 12.65

uL dispensed: 5 from 40, 20 from 5
eplicate 2 Time: 11:09
eak Area (A-s): 0.053 Peak Height (A): 0.062
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.051
oncentration (ug/L): 12.90 Corrected Conc (ug/L): 12.90

Mean Conc (ug/L): 12.78 SD: 0.173 RSD(%): 1.35
orrected Conc (ug/L): 12.78

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s ID: PBW-895 Seq. No.: 00059 A/S Pos.: 6 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 6
eplicate 1 Time: 11:11
eak Area (A-s): 0.000 Peak Height (A): 0.024
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.38 Corrected Conc (ug/L): -0.38

uL dispensed: 5 from 40, 20 from 6
eplicate 2 Time: 11:14
eak Area (A-s): 0.006 Peak Height (A): 0.021
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.004
oncentration (ug/L): 1.11 Corrected Conc (ug/L): 1.11

Mean Conc (ug/L): 0.36 SD: 1.047 RSD(%): 287.08
orrected Conc (ug/L): 0.36

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ID: PBWA-895 Seq. No.: 00060 A/S Pos.: 7 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 7
eplicate 1 Time: 11:16
eak Area (A-s): 0.078 Peak Height (A): 0.094
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.076
oncentration (ug/L): 19.19 Corrected Conc (ug/L): 19.19

uL dispensed: 5 from 40, 20 from 7
eplicate 2 Time: 11:19
eak Area (A-s): 0.077 Peak Height (A): 0.083
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.075
oncentration (ug/L): 18.95 Corrected Conc (ug/L): 18.95

Mean Conc (ug/L): 19.07 SD: 0.175 RSD(%): 0.92
orrected Conc (ug/L): 19.07

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uL dispensed: 5 from 40, 20 from 8
Replicate  1                          Time: 11:21
Peak Area (A-s): 0.164                Peak Height (A): 0.181
Background Pk Area (A-s): 0.052       Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L  ): 40.73         Corrected Conc (ug/L  ): 40.73


uL dispensed: 5 from 40, 20 from 8
Replicate  2                          Time: 11:23
Peak Area (A-s): 0.162                Peak Height (A): 0.185
Background Pk Area (A-s): 0.047       Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L  ): 40.22         Corrected Conc (ug/L  ): 40.22

Mean Conc  (ug/L  ):      40.48       SD: 0.361              RSD(%): 0.89
Corrected Conc (ug/L  ): 40.48
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s    ID: LCSWA-895          Seq. No.: 00062    A/S Pos.: 9     Date: 08/16/94

uL dispensed: 5 from 40, 20 from 9
Replicate  1                          Time: 11:26
Peak Area (A-s): 0.240                Peak Height (A): 0.251
Background Pk Area (A-s): 0.054       Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.239
Concentration (ug/L  ): 60.01         Corrected Conc (ug/L  ): 60.01

uL dispensed: 5 from 40, 20 from 9
Replicate  2                          Time: 11:28
Peak Area (A-s): 0.246                Peak Height (A): 0.242
Background Pk Area (A-s): 0.046       Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.244
Concentration (ug/L  ): 61.47         Corrected Conc (ug/L  ): 61.47

Mean Conc  (ug/L  ):      60.74       SD: 1.035              RSD(%): 1.70
Corrected Conc (ug/L  ): 60.74
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s    ID: 0810307            Seq. No.: 00063    A/S Pos.: 10    Date: 08/16/94

uL dispensed: 5 from 40, 20 from 10
Replicate  1                          Time: 11:30
Peak Area (A-s): -0.002               Peak Height (A): 0.020
Background Pk Area (A-s): 0.044       Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L  ): -0.99         Corrected Conc (ug/L  ): -0.99

uL dispensed: 5 from 40, 20 from 10
Replicate  2                          Time: 11:33
Peak Area (A-s): 0.004                Peak Height (A): 0.027
Background Pk Area (A-s): 0.040       Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L  ): 0.48          Corrected Conc (ug/L  ): 0.48

Mean Conc  (ug/L  ):      -0.26       SD: 1.041              RSD(%): 407.7
Corrected Conc (ug/L  ): -0.26
```

L dispensed: 5 from 40, 20 from 11
eplicate 1 Time: 11:35
reak Area (A-s): 0.078 Peak Height (A): 0.086
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.076
oncentration (ug/L): 19.16 Corrected Conc (ug/L): 19.16

uL dispensed: 5 from 40, 20 from 11
eplicate 2 Time: 11:37
eak Area (A-s): 0.080 Peak Height (A): 0.091
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.035
lank Corrected Pk Area (A-s): 0.078
oncentration (ug/L): 19.75 Corrected Conc (ug/L): 19.75

Mean Conc (ug/L): 19.45 SD: 0.416 RSD(%): 2.14
orrected Conc (ug/L): 19.45

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ID: PBS-895 Seq. No.: 00065 A/S Pos.: 12 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 12
eplicate 1 Time: 11:40
eak Area (A-s): -0.002 Peak Height (A): 0.020
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): -0.004
ncentration (ug/L): -0.90 Corrected Conc (ug/L): -0.90

uL dispensed: 5 from 40, 20 from 12
eplicate 2 Time: 11:42
eak Area (A-s): 0.002 Peak Height (A): 0.021
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.000
ncentration (ug/L): 0.02 Corrected Conc (ug/L): 0.02

Mean Conc (ug/L): -0.44 SD: 0.653 RSD(%): 148.60
orrected Conc (ug/L): -0.44

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ID: PBSA-895 Seq. No.: 00066 A/S Pos.: 13 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 13
Replicate 1 Time: 11:44
eak Area (A-s): 0.085 Peak Height (A): 0.093
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.083
ncentration (ug/L): 20.85 Corrected Conc (ug/L): 20.85

uL dispensed: 5 from 40, 20 from 13
Replicate 2 Time: 11:47
eak Area (A-s): 0.083 Peak Height (A): 0.093
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.081
ncentration (ug/L): 20.39 Corrected Conc (ug/L): 20.39

Mean Conc (ug/L): 20.62 SD: 0.330 RSD(%): 1.60
orrected Conc (ug/L): 20.62

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uL dispensed: 5 from 40, 20 from 14
Replicate 1 Time: 11:49
Peak Area (A-s): 0.166 Peak Height (A): 0.191
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.164
Concentration (ug/L): 41.34 Corrected Conc (ug/L): 41.34

uL dispensed: 5 from 40, 20 from 14
Replicate 2 Time: 11:51
Peak Area (A-s): 0.162 Peak Height (A): 0.166
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 40.24 Corrected Conc (ug/L): 40.24

Mean Conc (ug/L): 40.79 SD: 0.772 RSD(%): 1.89
Corrected Conc (ug/L): 40.79

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s ID: CCB-1-2 Seq. No.: 00068 A/S Pos.: 15 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 15
Replicate 1 Time: 11:53
Peak Area (A-s): -0.001 Peak Height (A): 0.022
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.71 Corrected Conc (ug/L): -0.71

uL dispensed: 5 from 40, 20 from 15
Replicate 2 Time: 11:56
Peak Area (A-s): 0.006 Peak Height (A): 0.020
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.04 Corrected Conc (ug/L): 1.04

Mean Conc (ug/L): 0.17 SD: 1.234 RSD(%): 738.81
Corrected Conc (ug/L): 0.17

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s ID: LCSS-895 Seq. No.: 00069 A/S Pos.: 16 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 16
Replicate 1 Time: 11:58
Peak Area (A-s): 0.151 Peak Height (A): 0.154
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.150
Concentration (ug/L): 37.62 Corrected Conc (ug/L): 37.62

uL dispensed: 5 from 40, 20 from 16
Replicate 2 Time: 12:00
Peak Area (A-s): 0.160 Peak Height (A): 0.157
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 39.64 Corrected Conc (ug/L): 39.64

Mean Conc (ug/L): 38.63 SD: 1.427 RSD(%): 3.69
Corrected Conc (ug/L): 38.63

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L dispensed: 5 from 40, 20 from 17
eplicate 1 Time: 12:02
eak Area (A-s): 0.211 Peak Height (A): 0.207
ackground Pk Area (A-s): 0.058 Background Pk Height (A): 0.045
lank Corrected Pk Area (A-s): 0.209
oncentration (ug/L): 52.47 Corrected Conc (ug/L): 52.47

uL dispensed: 5 from 40, 20 from 17
eplicate 2 Time: 12:04
eak Area (A-s): 0.210 Peak Height (A): 0.217
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.208
oncentration (ug/L): 52.38 Corrected Conc (ug/L): 52.38

ean Conc (ug/L): 52.42 SD: 0.062 RSD(%): 0.12
orrected Conc (ug/L): 52.42

ID: 0810301 Seq. No.: 00071 A/S Pos.: 18 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 18
eplicate 1 Time: 12:07
eak Area (A-s): 0.010 Peak Height (A): 0.033
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.078
lank Corrected Pk Area (A-s): 0.008
oncentration (ug/L): 2.02 Corrected Conc (ug/L): 2.02

uL dispensed: 5 from 40, 20 from 18
eplicate 2 Time: 12:09
eak Area (A-s): 0.012 Peak Height (A): 0.029
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.067
lank Corrected Pk Area (A-s): 0.010
oncentration (ug/L): 2.63 Corrected Conc (ug/L): 2.63

Mean Conc (ug/L): 2.33 SD: 0.436 RSD(%): 18.75
orrected Conc (ug/L): 2.33

ID: 0810301A Seq. No.: 00072 A/S Pos.: 19 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 19
eplicate 1 Time: 12:11
eak Area (A-s): 0.105 Peak Height (A): 0.108
ackground Pk Area (A-s): 0.094 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.103
oncentration (ug/L): 25.92 Corrected Conc (ug/L): 25.92

uL dispensed: 5 from 40, 20 from 19
eplicate 2 Time: 12:13
eak Area (A-s): 0.092 Peak Height (A): 0.110
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.076
lank Corrected Pk Area (A-s): 0.090
oncentration (ug/L): 22.56 Corrected Conc (ug/L): 22.56

Mean Conc (ug/L): 24.24 SD: 2.378 RSD(%): 9.81
orrected Conc (ug/L): 24.24

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uL dispensed: 5 from 40, 20 from 20

eplicate 1 — Time: 12:16
eak Area (A-s): 0.020 — Peak Height (A): 0.034
Background Pk Area (A-s): 0.107 — Background Pk Height (A): 0.088
lank Corrected Pk Area (A-s): 0.018
oncentration (ug/L): 4.47 — Corrected Conc (ug/L): 4.47

uL dispensed: 5 from 40, 20 from 20

eplicate 2 — Time: 12:18
eak Area (A-s): 0.023 — Peak Height (A): 0.034
Background Pk Area (A-s): 0.107 — Background Pk Height (A): 0.087
lank Corrected Pk Area (A-s): 0.021
oncentration (ug/L): 5.38 — Corrected Conc (ug/L): 5.38

Mean Conc (ug/L): 4.93 — SD: 0.641 — RSD(%): 13.01
orrected Conc (ug/L): 4.93

ID: 0810301DA — Seq. No.: 00074 — A/S Pos.: 21 — Date: 08/16/94

uL dispensed: 5 from 40, 20 from 21

eplicate 1 — Time: 12:20
eak Area (A-s): 0.099 — Peak Height (A): 0.098
ackground Pk Area (A-s): 0.115 — Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.097
ncentration (ug/L): 24.49 — Corrected Conc (ug/L): 24.49

uL dispensed: 5 from 40, 20 from 21

plicate 2 — Time: 12:23
ak Area (A-s): 0.101 — Peak Height (A): 0.109
Background Pk Area (A-s): 0.112 — Background Pk Height (A): 0.088
lank Corrected Pk Area (A-s): 0.099
ncentration (ug/L): 24.80 — Corrected Conc (ug/L): 24.80

Mean Conc (ug/L): 24.65 — SD: 0.220 — RSD(%): 0.89
rrected Conc (ug/L): 24.65

ID: 0810301S — Seq. No.: 00075 — A/S Pos.: 22 — Date: 08/16/94

dispensed: 5 from 40, 20 from 22

Replicate 1 — Time: 12:25
ak Area (A-s): 0.156 — Peak Height (A): 0.156
ckground Pk Area (A-s): 0.093 — Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.154
ncentration (ug/L): 38.63 — Corrected Conc (ug/L): 38.63

uL dispensed: 5 from 40, 20 from 22

plicate 2 — Time: 12:27
ak Area (A-s): 0.163 — Peak Height (A): 0.158
Background Pk Area (A-s): 0.094 — Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.161
ncentration (ug/L): 40.49 — Corrected Conc (ug/L): 40.49

Mean Conc (ug/L): 39.56 — SD: 1.318 — RSD(%): 3.33
rrected Conc (ug/L): 39.56

L dispensed: 5 from 40, 20 from 23
eplicate 1 Time: 12:30
Peak Area (A-s): 0.047 Peak Height (A): 0.068
Background Pk Area (A-s): 0.417 Background Pk Height (A): 0.346
lank Corrected Pk Area (A-s): 0.045
oncentration (ug/L): 11.31 Corrected Conc (ug/L): 11.31

uL dispensed: 5 from 40, 20 from 23
eplicate 2 Time: 12:32
eak Area (A-s): 0.053 Peak Height (A): 0.063
Background Pk Area (A-s): 0.456 Background Pk Height (A): 0.371
lank Corrected Pk Area (A-s): 0.051
oncentration (ug/L): 12.83 Corrected Conc (ug/L): 12.83

ean Conc (ug/L): 12.07 SD: 1.074 RSD(%): 8.90
orrected Conc (ug/L): 12.07

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s ID: 0810302A Seq. No.: 00077 A/S Pos.: 24 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 24
eplicate 1 Time: 12:34
eak Area (A-s): 0.127 Peak Height (A): 0.139
Background Pk Area (A-s): 0.464 Background Pk Height (A): 0.370
lank Corrected Pk Area (A-s): 0.125
oncentration (ug/L): 31.39 Corrected Conc (ug/L): 31.39

uL dispensed: 5 from 40, 20 from 24
eplicate 2 Time: 12:37
eak Area (A-s): 0.125 Peak Height (A): 0.135
Background Pk Area (A-s): 0.460 Background Pk Height (A): 0.352
lank Corrected Pk Area (A-s): 0.123
oncentration (ug/L): 31.05 Corrected Conc (ug/L): 31.05

ean Conc (ug/L): 31.22 SD: 0.237 RSD(%): 0.76
orrected Conc (ug/L): 31.22

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s ID: CCV-1-3 Seq. No.: 00078 A/S Pos.: 25 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 25
eplicate 1 Time: 12:39
eak Area (A-s): 0.166 Peak Height (A): 0.164
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.127
lank Corrected Pk Area (A-s): 0.164
oncentration (ug/L): 41.24 Corrected Conc (ug/L): 41.24

uL dispensed: 5 from 40, 20 from 25
eplicate 2 Time: 12:41
eak Area (A-s): 0.163 Peak Height (A): 0.167
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.039
lank Corrected Pk Area (A-s): 0.161
oncentration (ug/L): 40.43 Corrected Conc (ug/L): 40.43

Mean Conc (ug/L): 40.83 SD: 0.571 RSD(%): 1.40
orrected Conc (ug/L): 40.83

_ dispensed: 5 from 40, 20 from 26
eplicate 1 Time: 12:44
Peak Area (A-s): 0.003 Peak Height (A): 0.022
ackground Pk Area (A-s): 0.034 Background Pk Height (A): 0.028
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.16 Corrected Conc (ug/L): 0.16

L dispensed: 5 from 40, 20 from 26
plicate 2 Time: 12:46
eak Area (A-s): 0.007 Peak Height (A): 0.028
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.034
ank Corrected Pk Area (A-s): 0.005
ncentration (ug/L): 1.25 Corrected Conc (ug/L): 1.25

ean Conc (ug/L): 0.70 SD: 0.770 RSD(%): 109.53
rrected Conc (ug/L): 0.70

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ID: 0810303 Seq. No.: 00080 A/S Pos.: 27 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 27
plicate 1 Time: 12:49
eak Area (A-s): 0.014 Peak Height (A): 0.032
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.059
ank Corrected Pk Area (A-s): 0.012
ncentration (ug/L): 2.98 Corrected Conc (ug/L): 2.98

uL dispensed: 5 from 40, 20 from 27
plicate 2 Time: 12:51
eak Area (A-s): 0.011 Peak Height (A): 0.021
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.057
ank Corrected Pk Area (A-s): 0.009
ncentration (ug/L): 2.37 Corrected Conc (ug/L): 2.37

ean Conc (ug/L): 2.67 SD: 0.432 RSD(%): 16.17
rrected Conc (ug/L): 2.67

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ID: 0810303A Seq. No.: 00081 A/S Pos.: 28 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 28
plicate 1 Time: 12:53
eak Area (A-s): 0.085 Peak Height (A): 0.097
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.083
ncentration (ug/L): 20.81 Corrected Conc (ug/L): 20.81

uL dispensed: 5 from 40, 20 from 28
plicate 2 Time: 12:56
eak Area (A-s): 0.078 Peak Height (A): 0.097
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.064
ank Corrected Pk Area (A-s): 0.076
ncentration (ug/L): 19.07 Corrected Conc (ug/L): 19.07

Mean Conc (ug/L): 19.94 SD: 1.233 RSD(%): 6.18
rrected Conc (ug/L): 19.94

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L dispensed: 5 from 40, 20 from 29
eplicate 1 Time: 12:58
eak Area (A-s): 0.016 Peak Height (A): 0.039
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.116
lank Corrected Pk Area (A-s): 0.014
oncentration (ug/L): 3.61 Corrected Conc (ug/L): 3.61

uL dispensed: 5 from 40, 20 from 29
eplicate 2 Time: 13:00
eak Area (A-s): 0.025 Peak Height (A): 0.039
Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.110
lank Corrected Pk Area (A-s): 0.024
oncentration (ug/L): 5.91 Corrected Conc (ug/L): 5.91

Mean Conc (ug/L): 4.76 SD: 1.629 RSD(%): 34.22
orrected Conc (ug/L): 4.76

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ID: 0810304A Seq. No.: 00083 A/S Pos.: 30 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 30
eplicate 1 Time: 13:03
eak Area (A-s): 0.109 Peak Height (A): 0.127
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.108
oncentration (ug/L): 27.05 Corrected Conc (ug/L): 27.05

uL dispensed: 5 from 40, 20 from 30
plicate 2 Time: 13:05
ak Area (A-s): 0.102 Peak Height (A): 0.113
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.109
ank Corrected Pk Area (A-s): 0.100
ncentration (ug/L): 25.05 Corrected Conc (ug/L): 25.05

Mean Conc (ug/L): 26.05 SD: 1.412 RSD(%): 5.42
rrected Conc (ug/L): 26.05

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ID: 0810305 Seq. No.: 00084 A/S Pos.: 31 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 31
Replicate 1 Time: 13:07
ak Area (A-s): 0.043 Peak Height (A): 0.064
Background Pk Area (A-s): 0.375 Background Pk Height (A): 0.308
Blank Corrected Pk Area (A-s): 0.041
ncentration (ug/L): 10.21 Corrected Conc (ug/L): 10.21

uL dispensed: 5 from 40, 20 from 31
Replicate 2 Time: 13:09
ak Area (A-s): 0.055 Peak Height (A): 0.079
Background Pk Area (A-s): 0.377 Background Pk Height (A): 0.302
lank Corrected Pk Area (A-s): 0.053
ncentration (ug/L): 13.26 Corrected Conc (ug/L): 13.26

Mean Conc (ug/L): 11.73 SD: 2.158 RSD(%): 18.39
rrected Conc (ug/L): 11.73

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L dispensed: 5 from 40, 20 from 32
eplicate 1 Time: 13:12
Peak Area (A-s): 0.121 Peak Height (A): 0.125
Background Pk Area (A-s): 0.389 Background Pk Height (A): 0.306
lank Corrected Pk Area (A-s): 0.119
oncentration (ug/L): 29.86 Corrected Conc (ug/L): 29.86

uL dispensed: 5 from 40, 20 from 32
eplicate 2 Time: 13:14
eak Area (A-s): 0.122 Peak Height (A): 0.136
Background Pk Area (A-s): 0.392 Background Pk Height (A): 0.315
lank Corrected Pk Area (A-s): 0.120
oncentration (ug/L): 30.18 Corrected Conc (ug/L): 30.18

ean Conc (ug/L): 30.02 SD: 0.225 RSD(%): 0.75
orrected Conc (ug/L): 30.02

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s ID: 0810306 Seq. No.: 00086 A/S Pos.: 33 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 33
eplicate 1 Time: 13:16
eak Area (A-s): 0.009 Peak Height (A): 0.028
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.103
lank Corrected Pk Area (A-s): 0.007
oncentration (ug/L): 1.67 Corrected Conc (ug/L): 1.67

uL dispensed: 5 from 40, 20 from 33
eplicate 2 Time: 13:18
eak Area (A-s): 0.016 Peak Height (A): 0.034
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.064
lank Corrected Pk Area (A-s): 0.014
ncentration (ug/L): 3.57 Corrected Conc (ug/L): 3.57

ean Conc (ug/L): 2.62 SD: 1.343 RSD(%): 51.23
orrected Conc (ug/L): 2.62

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s ID: 0810306A Seq. No.: 00087 A/S Pos.: 34 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 34
plicate 1 Time: 13:20
eak Area (A-s): 0.097 Peak Height (A): 0.111
ackground Pk Area (A-s): 0.092 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.095
ncentration (ug/L): 23.89 Corrected Conc (ug/L): 23.89

uL dispensed: 5 from 40, 20 from 34
plicate 2 Time: 13:23
eak Area (A-s): 0.097 Peak Height (A): 0.110
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.071
lank Corrected Pk Area (A-s): 0.095
ncentration (ug/L): 23.92 Corrected Conc (ug/L): 23.92

Mean Conc (ug/L): 23.90 SD: 0.016 RSD(%): 0.07
orrected Conc (ug/L): 23.90

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L dispensed: 5 from 40, 20 from 35
eplicate 1 Time: 13:25
Peak Area (A-s): 0.157 Peak Height (A): 0.164
ackground Pk Area (A-s): 0.051 Background Pk Height (A): 0.034
lank Corrected Pk Area (A-s): 0.155
oncentration (ug/L): 39.11 Corrected Conc (ug/L): 39.11

L dispensed: 5 from 40, 20 from 35
eplicate 2 Time: 13:27
eak Area (A-s): 0.166 Peak Height (A): 0.167
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.038
lank Corrected Pk Area (A-s): 0.164
oncentration (ug/L): 41.15 Corrected Conc (ug/L): 41.15

ean Conc (ug/L): 40.13 SD: 1.439 RSD(%): 3.59
orrected Conc (ug/L): 40.13

ID: CCB-1-4 Seq. No.: 00089 A/S Pos.: 36 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 36
eplicate 1 Time: 13:29
eak Area (A-s): -0.005 Peak Height (A): 0.022
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): -0.007
ncentration (ug/L): -1.65 Corrected Conc (ug/L): -1.65

uL dispensed: 5 from 40, 20 from 36
plicate 2 Time: 13:32
eak Area (A-s): 0.006 Peak Height (A): 0.025
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.040
ank Corrected Pk Area (A-s): 0.004
ncentration (ug/L): 1.03 Corrected Conc (ug/L): 1.03

Mean Conc (ug/L): -0.31 SD: 1.891 RSD(%): 606.53
rrected Conc (ug/L): -0.31

ID: END RUN Seq. No.: 00090 A/S Pos.: 37 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 37
plicate 1 Time: 13:34
ak Area (A-s): 0.214 Peak Height (A): 0.201
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.212
ncentration (ug/L): 53.29 Corrected Conc (ug/L): 53.29

uL dispensed: 5 from 40, 20 from 37
plicate 2 Time: 13:36
ak Area (A-s): 0.208 Peak Height (A): 0.199
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.038
ank Corrected Pk Area (A-s): 0.206
ncentration (ug/L): 51.78 Corrected Conc (ug/L): 51.78

Mean Conc (ug/L): 52.54 SD: 1.068 RSD(%): 2.03
rrected Conc (ug/L): 52.54

STANDARD PREPARATION LOG METALS DEPT.

FU3 -FURNACE-

STD LOT NO.: FU-A- 0138-01
STD NAME: FURNACE HIGH STD
DATE PREP: 08/13/94
ANALYST INIT: AM 8Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A- 0138-02
STD NAME: FURNACE HIGH STD
DATE PREP: 08/15/94
ANALYST INIT: AM 9Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A- 0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A- 0138-03
STD NAME: FURNACE HIGH STD
DATE PREP: 08-16-94
ANALYST INIT: RS 9Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A- 0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: FURNACE HIGH STD
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ____ML CONC HNO3
____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: FURNACE HIGH STD
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ____ML CONC HNO3
____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

0138

STANDARD PREPARATION LOG METALS DEPT.

A2 -FURNACE-

STD LOT NO.: FU-A- 0028-01
STD NAME: ICV/CCV
DATE PREP: 08/13/94
ANALYST INIT: Art 8A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A- 0028-02
STD NAME: ICV/CCV
DATE PREP: 08/15/94
ANALYST INIT: Art 9A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A- 0028-03
STD NAME: ICV/CCV
DATE PREP: 08-16-94 9Am
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ML CONC HNO3
ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV,ppb:
Cd,As,Se,Sb,Pb,TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ML CONC HNO3
ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV,ppb:
Cd,As,Se,Sb,Pb,TL 40;
Prep fresh for each run.

FU1

STANDARD PREPARATION LOG METALS DEPT.
-FURNACE-

STD LOT NO.: FU-A- 0227-01 STD NAME: ICB/CCB/CAL BLK DATE PREP: 08/15/94 ANALYST INIT: An 9Am FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A-0227-02 STD NAME: ICB/CCB/CAL BLK 9am DATE PREP: 08-16-94 ANALYST INIT: RS FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2

FU2

STANDARD PREPARATION LOG METALS DEPT.
-FURNACE-

STD LOT NO.: FU-A-0413-01
STD NAME: spiking soln
DATE PREP: 08/15/94 9AM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 M H2O2
Notes: _____

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1,000	FU-A-5216
Se	0.10	↓	FU-A-5304
Pb	0.060	↓	FU-A-5313
Tl	0.20	↓	FU-A-5206
			FU-A-
			FU-A-

STD LOT NO.: FU-A-0413-02
STD NAME: spiking for MSA 1
DATE PREP: 08/15/94
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 M H2O2
Notes: 0.02 ml of each soln to 2 ml of Sample

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.10	1,000	FU-A-5216
↓	0.15	↓	FU-A-
	0.20		FU-A-
	0.30		FU-A-
↓	0.45	↓	FU-A- ↓
			FU-A-

STD LOT NO.: FU-A-0413-03
STD NAME: CRA/Std ①
DATE PREP: 08-16-94 9AM
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
3 5 10 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High Std	3.0	100 ppb	FU-A-0138-03
↓	5.0	↓	FU-A-
↓	10.0	↓	FU-A- ↓
			FU-A-
			FU-A-
			FU-A-

0413

STANDARD PREPARATION LOG METALS DEPT.

FU2 -FURNACE-

STD LOT NO.: FU-A-0414-01
STD NAME: Std ① ③ ④
DATE PREP: 08-16-94 gam
ANALYST INIT: RS
FINAL VOL(ML): ~~100.0~~ 10.0 ml
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
25 50 75 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High Std	2.5	100 ppb	FU-A-0138-03
Cal. Blk	7.5	0 "	FU-A-0227-02
High Std	5.0	100 "	FU-A-0138-03
Cal Blk	5.0	0 "	FU-A-0227-02
High Std	7.5	100 "	FU-A-0138-03
Cal Blk	2.5	0 "	FU-A-0227-02

STD LOT NO.: FU-A-0414-02
STD NAME: spiking soln
DATE PREP: 08-16-94 gam
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
~~25 50 75~~
0.02 ml of each to 2.0 ml of sample

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1000	FU-A-52-16
Se	0.10	↓	FU-A-53-04
Pb	0.060	↓	FU-A-53-13
Tl	0.20	↓	FU-A-52-06
			FU-A-
			FU-A-

STD LOT NO.: FU-A-0414-02
STD NAME: spiking for ICP-MS
DATE PREP: 08/16/94
ANALYST INIT: A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes:

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As, Pb	0.10	1,000	~~FU~~-A-52-16
↓	0.15	↓	~~FU~~-A-53-13
	0.20		FU-A-
	0.30		FU-A-
↓	0.45	↓	FU-A-
			FU-A-

0414

FU2

STANDARD PREPARATION LOG -FURNACE- METALS DEPT.

STD LOT NO.: FU-A-0111-01
STD NAME: FURNACE STOCK STD
DATE PREP: 04-21-94 10A
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 50-16
Cd	1.0	1,000	A- 49-02
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- 48-14

STD LOT NO.: FU-A-0111-02
STD NAME: FURNACE STOCK STD
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As (Ag)	~~1.0~~ 0.10	1,000	A- 50-14
Cd	~~1.0~~ 0.10	1,000	A- 49-02
~~Pb~~ Ba	1.0	1,000	A- 49-13
~~Sb~~ Be	0.10	1,000	A- 51-02
~~Se~~ Cr	0.10	1,000	A- 51-04
Tl	1.0	1,000	A-

STD LOT NO.: FU-A-0111-03
STD NAME: FURNACE STOCK STD
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 52-16
~~Cd~~	~~1.0~~	~~1,000~~	~~A~~
Pb	1.0	1,000	A- 53-13
Sb	1.0	1,000	A- 53-04
Se	1.0	1,000	A- 53-04
● Tl	1.0	1,000	A- ~~52-06~~ 48-14

RL

0111

STANDARD PREPARATION LOG METALS DEPT.

A1 -FURNACE-

STD LOT NO.: FU-A- 001-01
STD NAME: ICV/CCV INTERM,
DATE PREP: 03/07/94 9AM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 49-16
Cd	1.0	1,000	A- 51-17
Pb	1.0	1,000	A- 48-04
Sb	1.0	1,000	A- 52-04
Se	1.0	1,000	A- 50-05
Tl	1.0	1,000	A- 48-03

STD LOT NO.: FU-A- 001-02
STD NAME: ICV/CCV INTERM
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
~~Ag~~ Ag	~~1.0~~ 0.10	1,000	A- 51-15
Cd	~~1.0~~ 0.10	1,000	A- 51-17
~~Pb~~ Ba	1.0	1,000	A- 49-17
~~Sb~~ Be	~~1.0~~ 0.10	1,000	A- 48-10
~~Se~~ Cr	~~1.0~~ 0.10	1,000	A- 47-16
~~Tl~~	1.0	1,000	A-

STD LOT NO.: FU-A-001-03
STD NAME: ICV/CCV INTERM
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 50-16
~~Cd~~	~~1.0~~	~~1,000~~	A-
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- ~~48-14~~ 52-06

M

T 001

Lot # LRI	Std	Manufacturer	Lot No.	Conc ppm	Date Rec	Date Open	Exp Date
A 48-01	Ca	Spex ~~28Ca~~ JS 7/8/93	G-228CA	10,000	7/8/93	7/15/93	7/15/94
A 48-02	Mg	Spex	G 215MG	10,000	7/8/93	7/15/93	7/15/94
A 48-03	Ti	Spex	3-2TI	1,000	7/8/93	7/8/93	7/15/94
A 48-04	Pb	Spex	3-40PB	1,000	7/8/93	7/15/93	7/15/94
A-48-05	V	Spex	2-23V	1,000	7/8/93	7/12/93	7/15/94
A-48-06	Zn	Spex	3-50ZN	1,000	7/8/93	7/8/93	7/15/94
A-48-07	Ni	Spex	2-26NI	1,000	7/8/93	7/8/93	7/15/94
A-48-08	Fe	Spex	3-18FE	1,000	7/8/93	7/12/93	7/15/94
A-48-09	Al	Spex	3-58AL	1,000	7/8/93	7/12/93	7/15/94
A-48-10	Be	Spex	3-56BE	1,000	7/8/93	7/8/93	7/15/94
A-48-11	Sn	IV	n-SN0126	1,002	7/8/93	10/6/93	8/1/94
A 48-12	Zn	IV	1ZN0151	1,001	7/8/93	8/2/93	8/1/94
A-48-13	Na	IV	1NA01060	993	7/8/93	7/9/93	8/1/94
A 48-14	Ti	IV	11TI0132	1,001	7/8/93	7/8/93	8/1/94
A-48-15	V	IV	11V0144	1,001	7/8/93	9/1/93	8/1/94
A-48-16	Mo	IV	1MO0139	1,002	7/8/93	8/4/93	8/1/94
A-48-17	Si	IV	11-SI01058	998	7/8/93	8/2/93	8/1/94

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Lab No. LRI	STD	Manufacturer	Lot No.	Conc. ppm	Date Rec'd	Date open	Exp. Date	N
A-49-01	Ti	IV	H-TI01110	997	7/8/93	8/2/93	8/1/94	
A-49-02	Cd	IV	1-CD-0143	996	7/8/93	7/29/93	8/1/94	
A-49-03	Fe	IV	1-FE0184	994	7/8/93	7/27/93	8/1/94	
A-49-04	Mn	IV	1-MN01059	1003	7/8/93	8/4/93	8/1/94	
A-49-05	Na	IV	1-NA0150	1001	7/8/93	8/2/93	8/1/94	
A-49-06	B	IV	H-B0133	998	7/8/93	8/4/93	8/1/94	
A-49-07	Fe	IV	1-FE0153	1003	7/8/93	8/11/93	8/1/94	
A-49-08	Pb	IV	1-PB0106	1005	7/8/93	7/30/93	8/1/94	
A-49-09	Sb	IV	1-SB0172	997	7/8/93	7/28/93	8/1/94	
A-49-10	Ca	IV	1-CA0147	10,024	7/8/93	7/21/93	8/1/94	
A-49-11	Mg	IV	1-MG0174	10,020	7/8/93	10/11/93	8/1/94	
A-49-12	Co	IV	H-CO0135	997	7/8/93	8/2/93	8/1/94	
A-49-13	Ba	IV	1-BA0152	1004	7/8/93	8/2/93	8/1/94	
A-49-14	Blank Std	ERA	58001		7/16/93	7/31/93		[illegible]
A-49-15	Hg	IV	H-HG0135	1000	8/20/93	8/20/93	9/1/94	
A-49-16	As	SPEX	[illegible]	1000	[illegible]	8/4/93	[illegible]	
A-49-17	[illegible]	[illegible]	2-135[illegible]	1000	[illegible]	[illegible]	[illegible]	

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Lot No. LRT	Std.	Manufacturer	Lot # No.	Conc ppm	Date Received	Date Opened	Exp. Date	Notes
A-50-4	B	Spex	[illegible]	1,000	9/23/93	10/6/	9/30/94	
A-50-01	Mg	Spex	[illegible]	1,000	9/23/93		9/30/94	
A-50-03	Hg	Spex	[illegible]	1,000	9/23/93	9/23/93	9/30/94	
A-50-04	Mo	Spex	[illegible]	1,000	9/23/93	[illegible]	9/30/94	
A-50-05	Se	Spex	3-70Se	1,000	9/23/93	10/1/93	9/30/94	
A-50-06	Ti	Spex	3-20Ti	1,000	9/23/93	10/13/93	9/30/94	
A-50-07	V	Spex	3-40V	1,000	9/23/93		9/30/94	
A-50-08	Al	Spex	E-[illegible]	10,000	9/23/93	10/1/93	9/30/94	
A-50-09	Fe	Spex	[illegible]	10,000	9/23/93	10/1/93	9/30/94	
A-50-10	Na	Spex	3-60Na	1,000	9/23/93	10/1/93	9/30/94	
A-50-11	Ni	Spex	[illegible]	10,000	9/23/93	10/1/93	9/30/94	
A-50-12	Si	Spex	3-95Si	1,000	9/23/93	10/1/93	9/30/94	Standard contaminated
A-50-13	Sb	Spex	0-145Sb	10,000	9/23/93	10/1/93	9/30/94	
A-50-14	As	I.V.	I-[illegible]	1,000	9/23/93	10/1/93	10/1/94	
A-50-15	Al	I.V.	I-[illegible]	10,000	9/23/93	10/1/93	10/1/94	
A-50-16	As	I.V.	I-AS0[illegible]	999	9/23/93	10/1/93	10/1/94	
A-50-17	B	I.V.	I-B0[illegible]	1,000	9/23/93		10/1/94	

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LOT # LRI	STD	Manufacturer	Lot No.	Conc. ppm	Date Rec.	Date Opened	Exp. Date
A-51-01	Bi	IV	I-BI0152	1,004	9/13/93		10/1/94
A-51-02	Be	IV	I-BE0133	1,002	9/13/93	11/11/93	10/1/94
A-51-03	Cd	IV	I-CD0103	999	9/13/93	10/1/93	10/1/94
A-51-04	Cr	IV	I-CR0105	1,000	9/13/93	10/1/93	10/1/94
A-51-05	K	IV	I-K0109	9,951	9/13/93	11/1/93	10/1/94
A-51-06	Mg	IV	I-MG0133	1,002	9/13/93	10/1/93	10/1/94
A-51-07	Se	IV	I-SE0109	1,000	9/13/93	10/1/93	10/1/94
A-51-08	Si	Spex	3-11-S1	1000	10/28/93	11/10/93	11/15/93
A-51-09	Blank Sand	ERA	58001	—	1/4/93	1/1/94	
A-51-10	Blank Sand	ERA	58001	—	1/21/94		
A-51-11	Blank Sand	ERA	58001	—	1/21/94		
A-51-12	Al	IV	I-AL0089	1,000	2/22/94	3-1-94	3/1/95
A-51-13	Cu	IV	I-CU0108	999	2/22/94	3-1-94	3/1/95
A-51-14	Ni	IV	I-NI0100	1004	2/22/94	3-1-94	3/1/95
A-51-15	Ag	Spex	3-11 Ag	1,000	2/28/94	2/28/94	2/28/95
A-51-16	Ca	Spex	3-150Ca	1000	2/28/94		2/28/95
A-51-17	Cd	Spex	3-[illegible]	1000	2/28/94	2/28/94	2/28/95

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BOOK NO.

Lot # LRI	STD	Manufacturer	Lot No.	Conc PPM	Date Recd	Date Opened	Exp Date	Notes
A-52-01	Co	Spex	3-100Co	1000	2/28/94	2/28/94	2/28/95	
A-52-02	Ti	Spex	3-38Ti	1000	2/28/94	2/28/94	2/28/95	
A-52-03	Cu	Spex	3-78Cu	1000	2/28/94	2/28/94	2/28/95	
A-52-04	Sb	Spex	3-86Sb	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Mn	Spex	3-112Mn	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Blank Sand	ERA	58091	—	1/27/94	3/2/94	NA	
A-52-06	Ti	Spex	4-3Ti	1000	3/22/94	3/22/94	3/31/95	
A-52-07	Al	I.V.	I-ALO3#2	10,047	4/26/94	6/20/94	5/1/95	
A-52-08	Ca	I.V.	I-CAO1114	10,002	4/26/94	6/13/94	5/1/95	
A-52-09	Mg	I.V.	I-MgO1114	10,055	4/26/94	6/13/94	5/1/95	
A-52-10	Si	Spex	G-37Si	10,000	5/6/94		4/30/95	
A-52-11	Ca	Spex	H-12Ca	10,000	5/6/94	6/1/94	4/30/95	
A-52-12	Mg	Spex	H-5Mg	10,000	5/6/94		4/30/95	
A-52-13	BLANK SAND	ERA	58001	—	4/94	6/9/94	—	
A-52-14	K	Spex	I-9K	10,000	6/23/94	6/23/94	6/30/95	
A-52-15	Al	Spex	2-14Al	1,000	6/23/94	—	6/30/95	
A-52-16	As	Spex	4-52As	1,000	6/23/94		6/30/95	

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

TITLE

PROJECT NO.

BOOK NO.

Lot# LRI	STD	Mfg. Formula	Lot No.	Conc. PPM	Date Recd	Date Open	Exp. Date	Notes
A-53-01	Zn	Spex	4-34ZN	1,000	6/23/94	7/14/94	6/30/95	
A-53-02	Mg	Spex	3-17OMG	1,000	6/23/94		6/30/95	
A-053-03	V	Spex	4-19V	1,000	6/23/94	7/14/94	6/30/95	
A-053-04	Se	Spex	4-43SE	1,000	6/23/94	7/12/94	6/30/95	
A-053-05	Fe	Spex	4-23FE	1,000	6/23/94	7/14/94	6/30/95	
A-053-06	Sn	Spex	3-92SN	1,000	6/23/94	7/14/94	6/30/95	
A-053-07	Cr	Spex	3-24CR	1,000	6/23/94	7/14/94	6/30/95	
A-053-08	Be	Spex	4-4BE	1,000	6/23/94	7/14/94	6/30/95	
A-053-09	Ti	Spex	4-22TI	1,000	6/23/94	7/14/94	6/30/95	
A-053-10	B	Spex	3-13B	1,000	6/23/94	7/14/94	6/30/95	
A-053-11	Mo	Spex	3-42MO	1,000	6/23/94	7/14/94	6/30/95	
A-53-12	Ni	Spex	4-28NI	1,000	6/23/94	7/14/94	6/30/95	
A-53-13	Pb	Spex	4-82PB	1,000	6/23/94	7/14/94	6/30/95	
A-53-14	Ba	Spex	3-10BA	1,000	6/23/94	7/17/94	6/30/95	
A-53-15	Blank Sand	ERA	58001	—	5/94	6/28/94		
A-53-16	Ca	Spex	I-20CA	10,000	6/26/94	7/14/94	6/30/95	

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

ELEMENT Se
WAVE LENGTH 196.0
INSTR.NO. PE 5100 # 3
LAMP NO. EDL 454
LAMP ENERGY 58
ID/WT FILE CLP-IDW
DATA FILE SE0815
~~MDL~~, ppb IDL (1.6 ppb)

DATE 08/15/94
TIME 17:12
SHIFT Day
ANALYST RS
SUPERVISOR [illegible]

BATCH NO. 895
RAW DATA: w/: 895

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
ICV-1	01	1D		1D	40.71			101.8%
ICB-1	02				0.20			
CCV-1-1	03				39.03			97.6%
CCB-1-1	04				0.14			
CRA-1	05				5.32			
PBW-895	06				-0.26			
PBWA-895	07				9.21	92.1%		
LCSW-895	08				37.58			94.0%
LCSWA-895	09				47.96	103.8%		
0810307	10				0.31			
0810307A	11				9.89	98.9%		
PBS-895	12				-0.10			
PBSA-895	13				9.65	96.5%		
CCV-1-2	14				39.15			97.9%
CCB-1-2	15				0.08			
LCSS-895	16				9.22			92.2%
LCSSA-895	17				18.71	94.9%		
0810301	18				0.09			
0810301 A	19				9.39	93.9%		
0810301D	20				0.01			
0810301D A	21				9.18	91.8%		
0810301S	22				8.42		SR	84.2%
0810302	23				1.80			
0810302A	24				10.89	90.9%		
CCV-1-3	25	↓		↓	38.33			95.8%

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

ELEMENT Se

DATE 08/15/94

ANALYST RS

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
CCB-1-3	26	1D		1D	−0.29			
0810303	27				0.23			
0810303A	28				9.58	95.8%		
0810304	29				0.23			
0810304A	30				10.02	100.2%		
0810305	31				1.07			
0810305A	32				10.57	105.7%		
0810306	33				0.39			
0810306A	34				9.86	98.6%		
CCV-1-4	35				37.53			93.8%
CCB-1-4	36				0.55			
End Run	37	↓		↓	49.50			
	38							
	39							
	40							
CRA/STD① 5 ppb	35	FU-A-	0412-02					
STD② 25 "	36	FU-A-	0412-03					
STD③ 50 "	37	FU-A-	0412-03					
STD④ 75 "	38	FU-A-	0412-03					
High Std 100 "	39	FU-A-	0138-02					
Modifier	40							

Standard Name	Cup	Conc.	Lot No.
ICV/CCV	see run	40 ppb	FU-A-0028-02
ICB/CCB	↓	0 "	FU-A-0227-01
Spiking soln	—	1000 "	FU-A-0413-01

ANALYST SIGNATURE: Rani Swamy

SUPERVISOR SIGNATURE:

Element File: SECLP.GEL Element: Se Wavelength: 196.0
ate: 08/15/94 Time: 17:12 Slit: 2.0 L
ata File: SE0815X.DAT ID/Wt File: CLP.IDW Lamp Current: 0
echnique: HGA Calib. Type: Linear Energy: 58
emark 1: ANALYST:RS
emark 2: BATCH# 895
emark 3: STD PREP DATE:08-15-94
Remark 4: INSTRUMENT#PE 5100#3
emark 5: SE ANALYSIS

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e ID: BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 0
Replicate 1 Time: 17:14
eak Area (A-s): 0.015 Peak Height (A): 0.012
ackground Pk Area (A-s): 0.019 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.007
ncentration (ug/L): -1.67

uL dispensed: 5 from 40, 20 from 0
Replicate 2 Time: 17:17
eak Area (A-s): 0.019 Peak Height (A): 0.012
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.002
ncentration (ug/L): -0.54

Mean Conc (ug/L): -1.10 SD: 0.796 RSD(%): 72.46

to-zero performed.

Se ID: STANDARD1 Seq. No.: 00002 A/S Pos.: 35 Date: 08/15/94

L dispensed: 5 from 40, 20 from 35
Replicate 1 Time: 17:19
Peak Area (A-s): 0.040 Peak Height (A): 0.037
ackground Pk Area (A-s): 0.021 Background Pk Height (A): 0.017
.ank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 5.87

. dispensed: 5 from 40, 20 from 35
Replicate 2 Time: 17:22
eak Area (A-s): 0.039 Peak Height (A): 0.035
ackground Pk Area (A-s): 0.022 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 5.69

ean Conc (ug/L): 5.78 SD: 0.127 RSD(%): 2.20

tandard number 1 applied. [5.00]
orrelation coefficient: 1.00000 Slope: 0.0046

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ID: STANDARD2 Seq. No.: 00003 A/S Pos.: 36 Date: 08/15/94

dispensed: 5 from 40, 20 from 36
eplicate 1 Time: 17:26
eak Area (A-s): 0.123 Peak Height (A): 0.118
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.038
ank Corrected Pk Area (A-s): 0.106
ncentration (ug/L): 23.14

dispensed: 5 from 40, 20 from 36
plicate 2 Time: 17:29
reak Area (A-s): 0.124 Peak Height (A): 0.124
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.039
ank Corrected Pk Area (A-s): 0.107
ncentration (ug/L): 23.54

ean Conc (ug/L): 23.34 SD: 0.286 RSD(%): 1.23

Standard number 2 applied. [25.00]
orrelation coefficient: 0.99970 Slope: 0.0043

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Se ID: STANDARD3 Seq. No.: 00004 A/S Pos.: 37 Date: 08/15/94

dispensed: 5 from 40, 20 from 37
Replicate 1 Time: 17:31
ak Area (A-s): 0.227 Peak Height (A): 0.251
ckground Pk Area (A-s): 0.072 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.210
ncentration (ug/L): 49.07

dispensed: 5 from 40, 20 from 37
Replicate 2 Time: 17:34
ak Area (A-s): 0.222 Peak Height (A): 0.243
ckground Pk Area (A-s): 0.074 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.205

ean Conc (ug/L): 48.51 SD: 0.779 RSD(%): 1.61

Standard number 3 applied. [50.00]
Correlation coefficient: 0.99971 Slope: 0.0042

Se ID: STANDARD4 Seq. No.: 00005 A/S Pos.: 38 Date: 08/15/94

L dispensed: 5 from 40, 20 from 38
Replicate 1 Time: 17:36
eak Area (A-s): 0.323 Peak Height (A): 0.349
ackground Pk Area (A-s): 0.099 Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.306
Concentration (ug/L): 73.40

uL dispensed: 5 from 40, 20 from 38
Replicate 2 Time: 17:39
eak Area (A-s): 0.324 Peak Height (A): 0.345
ackground Pk Area (A-s): 0.100 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.307
oncentration (ug/L): 73.68

Mean Conc (ug/L): 73.54 SD: 0.202 RSD(%): 0.27

tandard number 4 applied. [75.00]
orrelation coefficient: 0.99975 Slope: 0.0041

ID: STANDARD5 Seq. No.: 00006 A/S Pos.: 39 Date: 08/15/94

. dispensed: 5 from 40, 20 from 39
eplicate 1 Time: 17:41
Peak Area (A-s): 0.416 Peak Height (A): 0.436
Background Pk Area (A-s): 0.122 Background Pk Height (A): 0.119
ank Corrected Pk Area (A-s): 0.399
oncentration (ug/L): 96.89

. dispensed: 5 from 40, 20 from 39
eplicate 2 Time: 17:44
Peak Area (A-s): 0.411 Peak Height (A): 0.431
ackground Pk Area (A-s): 0.122 Background Pk Height (A): 0.116
ank Corrected Pk Area (A-s): 0.394
oncentration (ug/L): 95.68

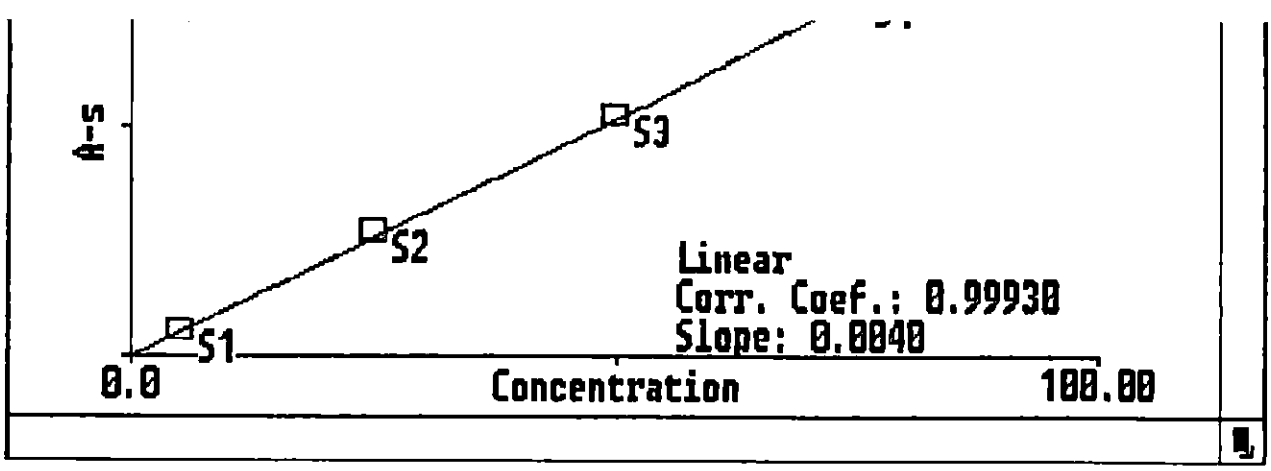
ean Conc (ug/L): 96.29 SD: 0.859 RSD(%): 0.89

Standard number 5 applied. [100.00]
orrelation coefficient: 0.99930 Slope: 0.0040

Display Calibration - K:\PE\ELEMENT\SECLP.GEL

0.397

55



Se ID: ICV-1 Seq. No.: 00007 A/S Pos.: 1 Date: 08/15/94

dispensed: 5 from 40, 20 from 1
Replicate 1 Time: 17:48
Peak Area (A-s): 0.184 Peak Height (A): 0.191
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.167
Concentration (ug/L): 41.43 Corrected Conc (ug/L): 41.43

dispensed: 5 from 40, 20 from 1
Replicate 2 Time: 17:50
Peak Area (A-s): 0.179 Peak Height (A): 0.187
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L): 40.00 Corrected Conc (ug/L): 40.00

Mean Conc (ug/L): 40.71 SD: 1.013 RSD(%): 2.49
Corrected Conc (ug/L): 40.71

Se ID: ICB-1 Seq. No.: 00008 A/S Pos.: 2 Date: 08/15/94

dispensed: 5 from 40, 20 from 2
Replicate 1 Time: 17:53
Peak Area (A-s): 0.019 Peak Height (A): 0.012
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.44 Corrected Conc (ug/L): 0.44

dispensed: 5 from 40, 20 from 2
Replicate 2 Time: 17:55
Peak Area (A-s): 0.017 Peak Height (A): 0.010
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.04 Corrected Conc (ug/L): -0.04

Mean Conc (ug/L): 0.20 SD: 0.338 RSD(%): 167.85
Corrected Conc (ug/L): 0.20

Se ID: CCV-1-1 Seq. No.: 00009 A/S Pos.: 3 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 3
Replicate 1 Time: 17:58
Peak Area (A-s): 0.176 Peak Height (A): 0.188
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 39.30 Corrected Conc (ug/L): 39.30

uL dispensed: 5 from 40, 20 from 3
Replicate 2 Time: 18:00
Peak Area (A-s): 0.174 Peak Height (A): 0.186
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 38.77 Corrected Conc (ug/L): 38.77

Mean Conc (ug/L): 39.03 SD: 0.378 RSD(%): 0.97
Corrected Conc (ug/L): 39.03

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Sample ID: CCB-1-1 Seq. No.: 00010 A/S Pos.: 4 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 4
Replicate 1 Time: 18:03
Peak Area (A-s): 0.017 Peak Height (A): 0.012
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.11 Corrected Conc (ug/L): -0.11

uL dispensed: 5 from 40, 20 from 4
Replicate 2 Time: 18:05
Peak Area (A-s): 0.019 Peak Height (A): 0.013
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.40 Corrected Conc (ug/L): 0.40

Mean Conc (ug/L): 0.14 SD: 0.366 RSD(%): 253.67
Corrected Conc (ug/L): 0.14

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Sample ID: CRA-1 Seq. No.: 00011 A/S Pos.: 5 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 5
Replicate 1 Time: 18:08
Peak Area (A-s): 0.040 Peak Height (A): 0.034
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 5.57 Corrected Conc (ug/L): 5.57

uL dispensed: 5 from 40, 20 from 5
Replicate 2 Time: 18:10
Peak Area (A-s): 0.037 Peak Height (A): 0.032
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 5.07 Corrected Conc (ug/L): 5.07

Mean Conc (ug/L): 5.32 SD: 0.353 RSD(%): 6.64
Corrected Conc (ug/L): 5.32

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Sample ID: PBW-895 Seq. No.: 00012 A/S Pos.: 6 Date: 08/15/94
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Replicate 1 Time: 18:13
Peak Area (A-s): 0.016 Peak Height (A): 0.011
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.15 Corrected Conc (ug/L): -0.15

uL dispensed: 5 from 40, 20 from 6
Replicate 2 Time: 18:15
Peak Area (A-s): 0.016 Peak Height (A): 0.011
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.37 Corrected Conc (ug/L): -0.37

Mean Conc (ug/L): -0.26 SD: 0.156 RSD(%): 59.94
Corrected Conc (ug/L): -0.26

Sample ID: PBWA-895 Seq. No.: 00013 A/S Pos.: 7 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 7
Replicate 1 Time: 18:18
Peak Area (A-s): 0.054 Peak Height (A): 0.049
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 9.25 Corrected Conc (ug/L): 9.25

uL dispensed: 5 from 40, 20 from 7
Replicate 2 Time: 18:20
Peak Area (A-s): 0.054 Peak Height (A): 0.052
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 9.17 Corrected Conc (ug/L): 9.17

Mean Conc (ug/L): 9.21 SD: 0.056 RSD(%): 0.61
Corrected Conc (ug/L): 9.21

Sample ID: LCSW-895 Seq. No.: 00014 A/S Pos.: 8 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 8
Replicate 1 Time: 18:23
Peak Area (A-s): 0.167 Peak Height (A): 0.171
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.150
Concentration (ug/L): 37.23 Corrected Conc (ug/L): 37.23

uL dispensed: 5 from 40, 20 from 8
Replicate 2 Time: 18:26
Peak Area (A-s): 0.170 Peak Height (A): 0.177
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.153
Concentration (ug/L): 37.93 Corrected Conc (ug/L): 37.93

Mean Conc (ug/L): 37.58 SD: 0.492 RSD(%): 1.31
Corrected Conc (ug/L): 37.58

Sample ID: LCSWA-895 Seq. No.: 00015 A/S Pos.: 9 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 9
eplicate 2 Time: 18:31
eak Area (A-s): 0.210 Peak Height (A): 0.226
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.061
lank Corrected Pk Area (A-s): 0.193
oncentration (ug/L): 47.86 Corrected Conc (ug/L): 47.86

Mean Conc (ug/L): 47.96 SD: 0.143 RSD(%): 0.30
orrected Conc (ug/L): 47.96

Se ID: 0810307 Seq. No.: 00016 A/S Pos.: 10 Date: 08/15/94

dispensed: 5 from 40, 20 from 10
Replicate 1 Time: 18:33
eak Area (A-s): 0.019 Peak Height (A): 0.013
ckground Pk Area (A-s): 0.018 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 0.58 Corrected Conc (ug/L): 0.58

dispensed: 5 from 40, 20 from 10
Replicate 2 Time: 18:36
ak Area (A-s): 0.017 Peak Height (A): 0.011
ckground Pk Area (A-s): 0.020 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.04 Corrected Conc (ug/L): 0.04

ean Conc (ug/L): 0.31 SD: 0.381 RSD(%): 124.08
orrected Conc (ug/L): 0.31

Se ID: 0810307A Seq. No.: 00017 A/S Pos.: 11 Date: 08/15/94

dispensed: 5 from 40, 20 from 11
Replicate 1 Time: 18:38
eak Area (A-s): 0.055 Peak Height (A): 0.052
ckground Pk Area (A-s): 0.029 Background Pk Height (A): 0.018
lank Corrected Pk Area (A-s): 0.038
oncentration (ug/L): 9.52 Corrected Conc (ug/L): 9.52

dispensed: 5 from 40, 20 from 11
Replicate 2 Time: 18:41
Peak Area (A-s): 0.058 Peak Height (A): 0.055
ckground Pk Area (A-s): 0.030 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.041
ncentration (ug/L): 10.25 Corrected Conc (ug/L): 10.25

ean Conc (ug/L): 9.89 SD: 0.518 RSD(%): 5.24
Corrected Conc (ug/L): 9.89

Se ID: PBS-895 Seq. No.: 00018 A/S Pos.: 12 Date: 08/15/94

Replicate 1 Time: 18:43
Peak Area (A-s): 0.015 Peak Height (A): 0.012
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.60 Corrected Conc (ug/L): -0.60

uL dispensed: 5 from 40, 20 from 12
Replicate 2 Time: 18:46
Peak Area (A-s): 0.019 Peak Height (A): 0.010
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.39 Corrected Conc (ug/L): 0.39

Mean Conc (ug/L): -0.10 SD: 0.703 RSD(%): 677.24
Corrected Conc (ug/L): -0.10

Se ID: PBSA-895 Seq. No.: 00019 A/S Pos.: 13 Date: 08/15/94

dispensed: 5 from 40, 20 from 13
Replicate 1 Time: 18:48
Peak Area (A-s): 0.056 Peak Height (A): 0.048
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 9.62 Corrected Conc (ug/L): 9.62

dispensed: 5 from 40, 20 from 13
Replicate 2 Time: 18:50
Peak Area (A-s): 0.056 Peak Height (A): 0.058
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 9.68 Corrected Conc (ug/L): 9.68

Mean Conc (ug/L): 9.65 SD: 0.045 RSD(%): 0.47
Corrected Conc (ug/L): 9.65

Se ID: CCV-1-2 Seq. No.: 00020 A/S Pos.: 14 Date: 08/15/94

dispensed: 5 from 40, 20 from 14
Replicate 1 Time: 18:53
Peak Area (A-s): 0.175 Peak Height (A): 0.176
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 39.08 Corrected Conc (ug/L): 39.08

dispensed: 5 from 40, 20 from 14
Replicate 2 Time: 18:55
Peak Area (A-s): 0.175 Peak Height (A): 0.178
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 39.21 Corrected Conc (ug/L): 39.21

Mean Conc (ug/L): 39.15 SD: 0.090 RSD(%): 0.23
Corrected Conc (ug/L): 39.15

Se ID: CCB-1-2 Seq. No.: 00021 A/S Pos.: 15 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 15

eplicate 1 — Time: 18:58
eak Area (A-s): 0.020 — Peak Height (A): 0.011
ackground Pk Area (A-s): 0.019 — Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 0.72 — Corrected Conc (ug/L): 0.72

uL dispensed: 5 from 40, 20 from 15

eplicate 2 — Time: 19:00
eak Area (A-s): 0.015 — Peak Height (A): 0.010
Background Pk Area (A-s): 0.020 — Background Pk Height (A): 0.015
lank Corrected Pk Area (A-s): -0.002
oncentration (ug/L): -0.55 — Corrected Conc (ug/L): -0.55

Mean Conc (ug/L): 0.08 — SD: 0.896 — RSD(%): 1099.78
orrected Conc (ug/L): 0.08

Se ID: LCSS-895 — Seq. No.: 00022 — A/S Pos.: 16 — Date: 08/15/94

dispensed: 5 from 40, 20 from 16

Replicate 1 — Time: 19:02
eak Area (A-s): 0.052 — Peak Height (A): 0.045
ckground Pk Area (A-s): 0.024 — Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.035
oncentration (ug/L): 8.63 — Corrected Conc (ug/L): 8.63

dispensed: 5 from 40, 20 from 16

Replicate 2 — Time: 19:05
eak Area (A-s): 0.057 — Peak Height (A): 0.047
ckground Pk Area (A-s): 0.023 — Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.040
oncentration (ug/L): 9.81 — Corrected Conc (ug/L): 9.81

ean Conc (ug/L): 9.22 — SD: 0.834 — RSD(%): 9.05
Corrected Conc (ug/L): 9.22

Se ID: LCSSA-895 — Seq. No.: 00023 — A/S Pos.: 17 — Date: 08/15/94

dispensed: 5 from 40, 20 from 17

Replicate 1 — Time: 19:07
eak Area (A-s): 0.091 — Peak Height (A): 0.087
ckground Pk Area (A-s): 0.036 — Background Pk Height (A): 0.027
lank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 18.19 — Corrected Conc (ug/L): 18.19

dispensed: 5 from 40, 20 from 17

Replicate 2 — Time: 19:10
Peak Area (A-s): 0.095 — Peak Height (A): 0.091
ckground Pk Area (A-s): 0.035 — Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.078
ncentration (ug/L): 19.22 — Corrected Conc (ug/L): 19.22

ean Conc (ug/L): 18.71 — SD: 0.731 — RSD(%): 3.9
Corrected Conc (ug/L): 18.71

Se ID: 0810301 — Seq. No.: 00024 — A/S Pos.: 18 — Date: 08/15/94

Replicate 1 Time: 19:12
Peak Area (A-s): 0.020 Peak Height (A): 0.010
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.65 Corrected Conc (ug/L): 0.65

uL dispensed: 5 from 40, 20 from 18
Replicate 2 Time: 19:14
Peak Area (A-s): 0.015 Peak Height (A): 0.009
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.48 Corrected Conc (ug/L): -0.48

Mean Conc (ug/L): 0.09 SD: 0.795 RSD(%): 918.90
Corrected Conc (ug/L): 0.09

Se ID: 0810301A Seq. No.: 00025 A/S Pos.: 19 Date: 08/15/94

dispensed: 5 from 40, 20 from 19
Replicate 1 Time: 19:17
Peak Area (A-s): 0.054 Peak Height (A): 0.053
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 9.25 Corrected Conc (ug/L): 9.25

dispensed: 5 from 40, 20 from 19
Replicate 2 Time: 19:19
Peak Area (A-s): 0.056 Peak Height (A): 0.055
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 9.54 Corrected Conc (ug/L): 9.54

Mean Conc (ug/L): 9.39 SD: 0.204 RSD(%): 2.17
Corrected Conc (ug/L): 9.39

Se ID: 0810301D Seq. No.: 00026 A/S Pos.: 20 Date: 08/15/94

dispensed: 5 from 40, 20 from 20
Replicate 1 Time: 19:22
Peak Area (A-s): 0.018 Peak Height (A): 0.014
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.18 Corrected Conc (ug/L): 0.18

dispensed: 5 from 40, 20 from 20
Replicate 2 Time: 19:24
Peak Area (A-s): 0.016 Peak Height (A): 0.014
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.16 Corrected Conc (ug/L): -0.16

Mean Conc (ug/L): 0.01 SD: 0.238 RSD(%): 3021.95
Corrected Conc (ug/L): 0.01

Se ID: 0810301DA Seq. No.: 00027 A/S Pos.: 21 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 21
eplicate 1 Time: 19:27
eak Area (A-s): 0.056 Peak Height (A): 0.052
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.019
lank Corrected Pk Area (A-s): 0.039
oncentration (ug/L): 9.64 Corrected Conc (ug/L): 9.64

L dispensed: 5 from 40, 20 from 21
eplicate 2 Time: 19:29
eak Area (A-s): 0.052 Peak Height (A): 0.051
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.019
lank Corrected Pk Area (A-s): 0.035
oncentration (ug/L): 8.73 Corrected Conc (ug/L): 8.73

ean Conc (ug/L): 9.18 SD: 0.647 RSD(%): 7.05
orrected Conc (ug/L): 9.18

Se ID: 0810301S Seq. No.: 00028 A/S Pos.: 22 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 22
Replicate 1 Time: 19:32
eak Area (A-s): 0.054 Peak Height (A): 0.046
ackground Pk Area (A-s): 0.028 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.037
oncentration (ug/L): 9.16 Corrected Conc (ug/L): 9.16

uL dispensed: 5 from 40, 20 from 22
Replicate 2 Time: 19:34
eak Area (A-s): 0.048 Peak Height (A): 0.049
ackground Pk Area (A-s): 0.031 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.031
oncentration (ug/L): 7.67 Corrected Conc (ug/L): 7.67

Mean Conc (ug/L): 8.42 SD: 1.055 RSD(%): 12.54
orrected Conc (ug/L): 8.42

Se ID: 0810302 Seq. No.: 00029 A/S Pos.: 23 Date: 08/15/94

uL dispensed: 5 from 40, 20 from 23
Replicate 1 Time: 19:37
eak Area (A-s): 0.026 Peak Height (A): 0.017
ackground Pk Area (A-s): 0.044 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.009
oncentration (ug/L): 2.24 Corrected Conc (ug/L): 2.24

uL dispensed: 5 from 40, 20 from 23
Replicate 2 Time: 19:39
eak Area (A-s): 0.022 Peak Height (A): 0.019
ackground Pk Area (A-s): 0.044 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.005
oncentration (ug/L): 1.36 Corrected Conc (ug/L): 1.36

Mean Conc (ug/L): 1.80 SD: 0.621 RSD(%): 34.54
Corrected Conc (ug/L): 1.80

Se ID: 0810302A Seq. No.: 00030 A/S Pos.: 24 Date: 08/15/94

eplicate 1 Time: 19:42
eak Area (A-s): 0.061 Peak Height (A): 0.065
ackground Pk Area (A-s): 0.058 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.044
oncentration (ug/L): 10.91 Corrected Conc (ug/L): 10.91

uL dispensed: 5 from 40, 20 from 24
eplicate 2 Time: 19:44
eak Area (A-s): 0.061 Peak Height (A): 0.063
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.033
lank Corrected Pk Area (A-s): 0.044
oncentration (ug/L): 10.86 Corrected Conc (ug/L): 10.86

Mean Conc (ug/L): 10.89 SD: 0.035 RSD(%): 0.32
orrected Conc (ug/L): 10.89

Se ID: CCV-1-3 Seq. No.: 00031 A/S Pos.: 25 Date: 08/15/94

dispensed: 5 from 40, 20 from 25
Replicate 1 Time: 19:47
eak Area (A-s): 0.170 Peak Height (A): 0.180
ckground Pk Area (A-s): 0.056 Background Pk Height (A): 0.049
lank Corrected Pk Area (A-s): 0.153
Concentration (ug/L): 37.86 Corrected Conc (ug/L): 37.86

dispensed: 5 from 40, 20 from 25
Replicate 2 Time: 19:49
eak Area (A-s): 0.174 Peak Height (A): 0.184
ckground Pk Area (A-s): 0.058 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 38.80 Corrected Conc (ug/L): 38.80

ean Conc (ug/L): 38.33 SD: 0.668 RSD(%): 1.74
Corrected Conc (ug/L): 38.33

Se ID: CCB-1-3 Seq. No.: 00032 A/S Pos.: 26 Date: 08/15/94

dispensed: 5 from 40, 20 from 26
eplicate 1 Time: 19:52
Peak Area (A-s): 0.017 Peak Height (A): 0.012
ckground Pk Area (A-s): 0.019 Background Pk Height (A): 0.015
ank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.00 Corrected Conc (ug/L): -0.00

dispensed: 5 from 40, 20 from 26
Replicate 2 Time: 19:54
eak Area (A-s): 0.015 Peak Height (A): 0.009
ckground Pk Area (A-s): 0.020 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.59 Corrected Conc (ug/L): -0.59

an Conc (ug/L): -0.29 SD: 0.413 RSD(%): 140.69
Corrected Conc (ug/L): -0.29

Se ID: 0810303 Seq. No.: 00033 A/S Pos.: 27 Date: 08/15/94

[illegible] dispensed: 40, 20 from 27

eplicate 1 — Time: 19:57
eak Area (A-s): 0.019 — Peak Height (A): 0.010
Background Pk Area (A-s): 0.029 — Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 0.57 — Corrected Conc (ug/L): 0.57

uL dispensed: 5 from 40, 20 from 27
eplicate 2 — Time: 19:59
eak Area (A-s): 0.017 — Peak Height (A): 0.012
Background Pk Area (A-s): 0.032 — Background Pk Height (A): 0.020
lank Corrected Pk Area (A-s): -0.000
oncentration (ug/L): -0.12 — Corrected Conc (ug/L): -0.12

Mean Conc (ug/L): 0.23 — SD: 0.483 — RSD(%): 214.34
orrected Conc (ug/L): 0.23

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Se ID: 0810303A — Seq. No.: 00034 — A/S Pos.: 28 — Date: 08/15/94

dispensed: 5 from 40, 20 from 28
Replicate 1 — Time: 20:02
eak Area (A-s): 0.055 — Peak Height (A): 0.052
ackground Pk Area (A-s): 0.040 — Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.038
oncentration (ug/L): 9.50 — Corrected Conc (ug/L): 9.50

uL dispensed: 5 from 40, 20 from 28
Replicate 2 — Time: 20:04
eak Area (A-s): 0.056 — Peak Height (A): 0.054
ackground Pk Area (A-s): 0.042 — Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.039
oncentration (ug/L): 9.67 — Corrected Conc (ug/L): 9.67

Mean Conc (ug/L): 9.58 — SD: 0.121 — RSD(%): 1.26
orrected Conc (ug/L): 9.58

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Se ID: 0810304 — Seq. No.: 00035 — A/S Pos.: 29 — Date: 08/15/94

dispensed: 5 from 40, 20 from 29
Replicate 1 — Time: 20:07
eak Area (A-s): 0.018 — Peak Height (A): 0.013
ckground Pk Area (A-s): 0.027 — Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.35 — Corrected Conc (ug/L): 0.35

dispensed: 5 from 40, 20 from 29
Replicate 2 — Time: 20:09
eak Area (A-s): 0.017 — Peak Height (A): 0.009
ckground Pk Area (A-s): 0.026 — Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.000
ncentration (ug/L): 0.12 — Corrected Conc (ug/L): 0.12

Mean Conc (ug/L): 0.23 — SD: 0.166 — RSD(%): 70.46
Corrected Conc (ug/L): 0.23

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Se ID: 0810304A — Seq. No.: 00036 — A/S Pos.: 30 — Date: 08/15/94
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eplicate 1 Time: 20:12
eak Area (A-s): 0.057 Peak Height (A): 0.053
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.040
oncentration (ug/L): 9.98 Corrected Conc (ug/L): 9.98

uL dispensed: 5 from 40, 20 from 30
eplicate 2 Time: 20:14
eak Area (A-s): 0.058 Peak Height (A): 0.056
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.023
lank Corrected Pk Area (A-s): 0.041
oncentration (ug/L): 10.07 Corrected Conc (ug/L): 10.07

Mean Conc (ug/L): 10.02 SD: 0.065 RSD(%): 0.65
orrected Conc (ug/L): 10.02

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Se ID: 0810305 Seq. No.: 00037 A/S Pos.: 31 Date: 08/15/94

L dispensed: 5 from 40, 20 from 31
Replicate 1 Time: 20:17
eak Area (A-s): 0.021 Peak Height (A): 0.013
ackground Pk Area (A-s): 0.045 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.07 Corrected Conc (ug/L): 1.07

dispensed: 5 from 40, 20 from 31
Replicate 2 Time: 20:19
eak Area (A-s): 0.021 Peak Height (A): 0.012
ackground Pk Area (A-s): 0.043 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.004
oncentration (ug/L): 1.07 Corrected Conc (ug/L): 1.07

Mean Conc (ug/L): 1.07 SD: 0.004 RSD(%): 0.33
Corrected Conc (ug/L): 1.07

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Se ID: 0810305A Seq. No.: 00038 A/S Pos.: 32 Date: 08/15/94

dispensed: 5 from 40, 20 from 32
Replicate 1 Time: 20:21
Peak Area (A-s): 0.060 Peak Height (A): 0.059
ackground Pk Area (A-s): 0.055 Background Pk Height (A): 0.032
lank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 10.74 Corrected Conc (ug/L): 10.74

dispensed: 5 from 40, 20 from 32
Replicate 2 Time: 20:24
eak Area (A-s): 0.059 Peak Height (A): 0.058
ackground Pk Area (A-s): 0.054 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.042
oncentration (ug/L): 10.40 Corrected Conc (ug/L): 10.40

ean Conc (ug/L): 10.57 SD: 0.236 RSD(%): 2.24
Corrected Conc (ug/L): 10.57

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Se ID: 0810306 Seq. No.: 00039 A/S Pos.: 33 Date: 08/15/94
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uL dispensed: 5 from 40, 20 from 33

eplicate 1 — Time: 20:26
eak Area (A-s): 0.020 — Peak Height (A): 0.011
ackground Pk Area (A-s): 0.023 — Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 0.77 — Corrected Conc (ug/L): 0.77

uL dispensed: 5 from 40, 20 from 33

eplicate 2 — Time: 20:29
eak Area (A-s): 0.017 — Peak Height (A): 0.010
Background Pk Area (A-s): 0.021 — Background Pk Height (A): 0.020
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.02 — Corrected Conc (ug/L): 0.02

Mean Conc (ug/L): 0.39 — SD: 0.530 — RSD(%): 135.01
orrected Conc (ug/L): 0.39

Se ID: 0810306A — Seq. No.: 00040 — A/S Pos.: 34 — Date: 08/15/94

dispensed: 5 from 40, 20 from 34

Replicate 1 — Time: 20:31
eak Area (A-s): 0.057 — Peak Height (A): 0.053
ckground Pk Area (A-s): 0.031 — Background Pk Height (A): 0.019
lank Corrected Pk Area (A-s): 0.040
oncentration (ug/L): 9.95 — Corrected Conc (ug/L): 9.95

dispensed: 5 from 40, 20 from 34

Replicate 2 — Time: 20:33
eak Area (A-s): 0.057 — Peak Height (A): 0.052
ckground Pk Area (A-s): 0.031 — Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.040
oncentration (ug/L): 9.77 — Corrected Conc (ug/L): 9.77

ean Conc (ug/L): 9.86 — SD: 0.125 — RSD(%): 1.26
Corrected Conc (ug/L): 9.86

Se ID: CCV-1-4 — Seq. No.: 00041 — A/S Pos.: 35 — Date: 08/15/94

dispensed: 5 from 40, 20 from 35

Replicate 1 — Time: 20:36
eak Area (A-s): 0.169 — Peak Height (A): 0.179
ckground Pk Area (A-s): 0.054 — Background Pk Height (A): 0.045
ank Corrected Pk Area (A-s): 0.152
Concentration (ug/L): 37.71 — Corrected Conc (ug/L): 37.71

dispensed: 5 from 40, 20 from 35

Replicate 2 — Time: 20:38
Peak Area (A-s): 0.168 — Peak Height (A): 0.174
ckground Pk Area (A-s): 0.057 — Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.151
oncentration (ug/L): 37.36 — Corrected Conc (ug/L): 37.36

ean Conc (ug/L): 37.53 — SD: 0.248 — RSD(%): 0.66
Corrected Conc (ug/L): 37.53

Se ID: CCB-1-4 — Seq. No.: 00042 — A/S Pos.: 36 — Date: 08/15/94

Replicate 1 Time: 20:41
eak Area (A-s): 0.020 Peak Height (A): 0.012
ackground Pk Area (A-s): 0.016 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 0.78 Corrected Conc (ug/L): 0.78

uL dispensed: 5 from 40, 20 from 36
eplicate 2 Time: 20:43
eak Area (A-s): 0.018 Peak Height (A): 0.011
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.32 Corrected Conc (ug/L): 0.32

Mean Conc (ug/L): 0.55 SD: 0.322 RSD(%): 58.41
orrected Conc (ug/L): 0.55

Se ID: END RUN Seq. No.: 00043 A/S Pos.: 37 Date: 08/15/94

dispensed: 5 from 40, 20 from 37
Replicate 1 Time: 20:46
Peak Area (A-s): 0.215 Peak Height (A): 0.228
ackground Pk Area (A-s): 0.067 Background Pk Height (A): 0.062
lank Corrected Pk Area (A-s): 0.198
Concentration (ug/L): 49.02 Corrected Conc (ug/L): 49.02

dispensed: 5 from 40, 20 from 37
Replicate 2 Time: 20:48
eak Area (A-s): 0.219 Peak Height (A): 0.228
ackground Pk Area (A-s): 0.069 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.202
oncentration (ug/L): 49.97 Corrected Conc (ug/L): 49.97

ean Conc (ug/L): 49.50 SD: 0.678 RSD(%): 1.37
Corrected Conc (ug/L): 49.50

FU3

STANDARD PREPARATION LOG METALS DEPT.
-FURNACE-

STD LOT NO.: FU-A- 0138-01 STD NAME: FURNACE HIGH STD DATE PREP: 08/13/94 ANALYST INIT: AM 8Am FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
	FURNACE STOCK STD	1.0	10,000	FU-A-0111-03
	TV,ppb: As,Cd,Pb,Sb,Se,Tl____100 ppb. Prep fresh for each run.			
STD LOT NO.: FU-A- 0138-02 STD NAME: FURNACE HIGH STD DATE PREP: 08/15/94 ANALYST INIT: Am 9Am FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
	FURNACE STOCK STD	1.0	10,000	FU-A- 0111-03
	TV,ppb: As,Cd,Pb,Sb,Se,Tl____100 ppb. Prep fresh for each run.			
STD LOT NO.: FU-A- STD NAME: FURNACE HIGH STD DATE PREP:____ ANALYST INIT:____ FINAL VOL(ML): 100.0 PRESERVATIVES:____ML CONC HNO3 ____ML H2O2	STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
	FURNACE STOCK STD	1.0	10,000	FU-A-
	TV,ppb: As,Cd,Pb,Sb,Se,Tl____100 ppb. Prep fresh for each run.			
STD LOT NO.: FU-A- STD NAME: FURNACE HIGH STD DATE PREP:____ ANALYST INIT:____ FINAL VOL(ML): 100.0 PRESERVATIVES:____ML CONC HNO3 ____ML H2O2	STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
	FURNACE STOCK STD	1.0	10,000	FU-A-
	TV,ppb: As,Cd,Pb,Sb,Se,Tl____100 ppb. Prep fresh for each run.			
STD LOT NO.: FU-A- STD NAME: FURNACE HIGH STD DATE PREP:____ ANALYST INIT:____ FINAL VOL(ML): 100.0 PRESERVATIVES:____ML CONC HNO3 ____ML H2O2	STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
	FURNACE STOCK STD	1.0	10,000	FU-A-
	TV,ppb: As,Cd,Pb,Sb,Se,Tl____100 ppb. Prep fresh for each run.			

A2

STANDARD PREPARATION LOG   METALS DEPT.
-FURNACE-

STD LOT NO.: FU-A-0028-01
STD NAME: ICV/CCV
DATE PREP: 08/13/94
ANALYST INIT: Arr   9A~
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL________40;
Prep fresh for each run.

STD LOT NO.: FU-A-0028-02
STD NAME: ICV/CCV
DATE PREP: 08/15/94
ANALYST INIT: A~   9A~
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL________40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:____________
ANALYST INIT:____________
FINAL VOL(ML): 100.0
PRESERVATIVES:______ML CONC HNO3
______ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV,ppb:
Cd,As,Se,Sb,Pb,TL________40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:____________
ANALYST INIT:____________
FINAL VOL(ML): 100.0
PRESERVATIVES:______ML CONC HNO3
______ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV,ppb:
Cd,As,Se,Sb,Pb,TL________40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:____________
ANALYST INIT:____________
FINAL VOL(ML): 100.0
PRESERVATIVES:______ML CONC HNO3
______ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV,ppb:
Cd,As,Se,Sb,Pb,TL________40;
Prep fresh for each run.

FU1

STANDARD PREPARATION LOG
-FURNACE-

METALS DEPT.

STD LOT NO.: FU-A- 0227-01
STD NAME: ICB/CCB/CAL BLK
DATE PREP: 08/15/94
ANALYST INIT: Am 9Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STD LOT NO.: FU-A-
STD NAME: ICB/CCB/CAL BLK
DATE PREP: ______
ANALYST INIT: ______
FINAL VOL(ML): 100.0
PRESERVATIVES: ______ ML CONC HNO3
______ ML H2O2

STANDARD PREPARATION LOG METALS DEPT.

FU2 -FURNACE-

STD LOT NO.: FU-A- 0412-01
STD NAME: spiking sol'n
DATE PREP: 05/13/94
ANALYST INIT: Am 8Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H2O2
Notes: _____

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1,000	~~FU~~-A-52-16
Se	0.10	↓	~~FU~~-A-53-04
Pb	0.060	↓	~~FU~~-A-53-13
Tl	0.20	↓	~~FU~~-A-52-06
			FU-A-
			FU-A-

STD LOT NO.: FU-A-0412-02
STD NAME: CRA (std ①)
DATE PREP: 05/15/94
ANALYST INIT: Am 9Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H2O2
Notes: As, Se, Pb, Tl, Sb } 3, 5, 10 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High std	3.0	100 ppb	FU-A-0138-02
~~Calstk~~ ↓	5-0	↓	FU-A- ↓
↓	10-0	↓	FU-A- ↓
			FU-A-
			FU-A-
			FU-A-

STD LOT NO.: FU-A- 0412-03
STD NAME: std ②, ③, ④
DATE PREP: 05/15/94 9Am
ANALYST INIT: Am
FINAL VOL(ML): ~~100.0~~ 10
PRESERVATIVES: 2.0 ~~ML~~/CONC HNO3
0.5 ml H2O2
Notes: As, Se, Pb }
Tl, Sb } 25, 50, 75 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High std	2-5	100 ppb	FU-A-0138-02
Calblk	7-5	0 "	FU-A-0227-01
High std	5-0	100 "	FU-A-0138-02
Calblk	5-0	0 "	FU-A-0227-01
High std	7-5	100 "	FU-A-0138-02
Calblk	2-5	0 "	FU-A-0227-01

0412

FU2

STANDARD PREPARATION LOG -FURNACE-

METALS DEPT.

STD LOT NO.: FU-A-0413-01
STD NAME: spiking soln
DATE PREP: 08/15/94 9A
ANALYST INIT: Arr
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 % H2O2
Notes: _____

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1,000	FU-A-5216
Se	0.10		FU-A-5304
Pb	0.060		FU-A-5313
Tl	0.20		FU-A-5206
			FU-A-
			FU-A-

STD LOT NO.: FU-A-
STD NAME:
DATE PREP: _____
ANALYST INIT: _____
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3
Notes: _____

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
			FU-A-
			FU-A-
			FU-A-
			FU-A-
			FU-A-
			FU-A-

STD LOT NO.: FU-A-
STD NAME:
DATE PREP: _____
ANALYST INIT: _____
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3
Notes: _____

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
			FU-A-
			FU-A-
			FU-A-
			FU-A-
			FU-A-
			FU-A-

0413

STANDARD PREPARATION LOG METALS DEPT.

A1 -FURNACE-

STD LOT NO.: FU-A- 001-01
STD NAME: ICV/CCV INTERM,
DATE PREP: 07/07/94 9AM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 49-16
Cd	1.0	1,000	A- 51-17
Pb	1.0	1,000	A- 48-04
Sb	1.0	1,000	A- 52-04
Se	1.0	1,000	A- 50-05
Tl	1.0	1,000	A- 48-03

STD LOT NO.: FU-A- 001-02
STD NAME: ICV/CCV INTERM
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
~~As~~ Ag	~~1.0~~ 0.10	1,000	A- 51-15
Cd	~~1.0~~ 0.10	1,000	A- 51-17
~~Pb~~ Ba	1.0	1,000	A- 49-17
~~Sb~~ Be	~~1.0~~ 0.10	1,000	A- 48-10
~~Se~~ Cr	~~1.0~~ 0.10	1,000	A- 47-16
~~Tl~~	1.0	1,000	A-

STD LOT NO.: FU-A-001-03
STD NAME: ICV/CCV INTERM
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 50-16
~~Cd~~	~~1.0~~	~~1,000~~	A-
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- ~~48-14~~ 52-06

T 001

STANDARD PREPARATION LOG METALS DEPT.

FU2 -FURNACE-

STD LOT NO.: FU-A-0111-01
STD NAME: FURNACE STOCK STD
DATE PREP: 04-21-94
ANALYST INIT: AM 10AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 50-16
Cd	1.0	1,000	A- 49-02
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- 48-14

STD LOT NO.: FU-A-0111-02
STD NAME: FURNACE STOCK STD
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As (Ag)	~~1.0~~ 0.10	1,000	A- 50-14
Cd	~~1.0~~ 0.10	1,000	A- 49-02
~~Pb~~ Ba	1.0	1,000	A- 49-13
~~Sb~~ Be	0.10	1,000	A- 51-02
~~Se~~ Cr	0.10	1,000	A- 51-04
Tl	1.0	1,000	A-

STD LOT NO.: FU-A-0111-03
STD NAME: FURNACE STOCK STD
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 52-16
~~Cd~~	~~1.0~~	~~1,000~~	~~A~~
Pb	1.0	1,000	A- 53-13
Sb	1.0	1,000	A- 53-04
Se	1.0	1,000	A- 53-04
● Tl	1.0	1,000	A- ~~52-06~~ 48-14

0111

Lot # / LR #	SID	Manufacturer	Lot # No.	Card ppm	Date Rec	Date Oden	Date Del
A-48-01	CA	Spex	G-228CA	10,000	7/8/93	7/15/93	7/15/93
A-48-02	MG	Spex	G-215MG	10,000	7/8/93	7/15/93	7/15/93
A-48-03	TL	Spex	312TL	1000	7/8/93	7/8/93	7/15/93
A-48-04	PL	Spex	314PL	1,000	7/8/93	7/15/93	7/15/93
A-48-05	V	Spex	2-233V	1,000	7/8/93	7/15/93	7/15/93
A-48-06	ZN	Spex	3-502N	1,000	7/8/93	7/15/93	7/15/93
A-48-07	NI	Spex	2-266N	1,000	7/8/93	7/15/93	7/15/93
A-48-08	FE	Spex	318FE	1,000	7/8/93	7/15/93	7/15/93
A-48-09	AL	Spex	3-508AL	1,000	7/8/93	7/15/93	7/15/93
A-48-10	BE	Spex	3-56 BE	1,000	7/8/93	7/15/93	7/15/93
A-48-11	SN	[illegible]	[illegible]	[illegible]	7/8/93	[illegible]	[illegible]
A-48-12	ZN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A-48-13	NI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A-48-14	FE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A-48-15	V	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A-48-16	MO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
A-48-17	SI	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SIGNATURE _____ DATE 10/19/93

DISCLOSED TO AND UNDERSTOOD BY _____ DATE _____ WITNESS _____ DATE _____

Lab No. LRI	STD	Manufacturer	Lot No.	Conc. ppm	Date Rec'd	Date open	Exp. Date	
A-49-01	Ti	IV	H-TI0110	997	7/8/93	7/2/93	8/1/94	
A-49-02	Cd	IV	1-CD-0143	996	7/8/93	7/8/93	8/1/94	
A-49-03	Fe	IV	1-FE0154	994	7/8/93	7/27/93	8/1/94	
A-49-04	Mn	IV	1-MN01059	1003	7/8/93	9/4/93	8/1/94	
A-49-05	Na	IV	1-NA0150	1001	7/8/93	8/2/93	8/1/94	
A-49-06	B	IV	1-B0133	998	7/8/93	9/4/93	8/1/94	
A-49-07	Fe	IV	1-FE0153	1003	7/8/93	9/1/93	8/1/94	
A-49-08	Pb	IV	1-PB0106	1005	7/8/93	7/8/93	8/1/94	
A-49-09	Sb	IV	1-SB0172	997	7/8/93	7/8/93	8/1/94	
A-49-10	Ca	IV	1-CA0147	10,024	7/8/93	7/21/93	8/1/94	
A-49-11	Mg	IV	1-MG0174	10,020	7/8/93	10/11/93	8/1/94	
A-49-12	Co	IV	1-CO0135	997	7/8/93	8/2/93	8/1/94	
A-49-13	Ba	IV	1-BA0152	1004	7/8/93	8/2/93	8/1/94	
A-49-14	Blank Std	ERA	58001		7/16/93	7/31/93		[illegible]
A-49-15	Hg	IV	H-HG0135	1000	8/20/93	8/20/93	9/1/94	
A-49-16	As	Spex	[illegible]	1000	[illegible]	9/4/93	[illegible]	
A-49-17	Se	Spex	2-35SE	1000	[illegible]	[illegible]	[illegible]	

SIGNATURE [signature] DATE 10/13/9[illegible]

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE

Lot No. LRII	Sml.	Manufacturer	Lot # No.	Conc ppm	Date Received	Date Opened	Exp. Date	Notes
A-50-1	B	Spex	[illegible]	1,000	9/23/93	10/6/93	9/31/94	
A-50-02	Mg	Spex	2-22MG	1,000	9/23/93		9/31/94	
A-50-03	Hg	Spex	2-20HG	1,000	9/23/93	9/23/93	9/31/94	
A-50-04	Mo	Spex	2-24MO	1,000	9/23/93	[illegible]	9/31/94	
A-50-05	Se	Spex	3-70SE	1,000	9/23/93	10/11/93	9/31/94	
A-50-06	Ti	Spex	3-73TI	1,000	9/23/93	10/13/93	9/31/94	
A-50-07	Y	Spex	3-60Y	1,000	9/23/93		9/31/94	
A-50-08	Al	Spex	E-65AL	10,000	9/23/93	10/7/93	9/30/94	
A-50-09	Fe	Spex	F-74FE	10,000	9/23/93	[illegible]	9/30/94	
A-50-10	Na	Spex	3-60NA	1,000	9/23/93	[illegible]	9/30/94	
A-50-11	Ni	Spex	F-25NI	10,000	9/23/93	[illegible]	9/31/94	
A-50-12	Si	Spex	3-57SI	1,000	9/23/93	[illegible]	9/31/94	Standard, Confirmation [illegible]
A-50-13	Sb	Spex	D-14SB	10,000	9/23/93	[illegible]	9/31/94	
A-50-14	As	I.V.	[illegible]	1,000	9/23/93	10/11/93	10/1/94	
A-50-15	Al	I.V.	[illegible]	10,000	9/23/93	10/11/93	10/1/94	
A-50-16	As	I.V.	[illegible]	999	9/23/93	10/11/93	10/1/94	
A-50-17	B	I.V.	I-B0157	1,000	9/23/93		10/1/94	

SIGNATURE [signature] DATE 10/19/93

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE

Lot # LRL	STD	Manufacturer	Lot No.	Conc.	Date Rec.	Date Opened	Exp. Date
A-51-01	Bi	IV	I-BI0152	1,004	9/13/93		10/1/94
A-51-02	Be	IV	I-BE0133	1,002	9/13/93	11/11/93	10/1/94
A-51-03	Ca	IV	I-CA0103	999	9/13/93	10/11/93	10/1/94
A-51-04	Cr	IV	I-CR0195	1,00[illegible]	9/13/93	10/13/93	10/1/94
A-51-05	K	IV	I-K0140	995	9/13/93	11/14/93	10/1/94
A-51-06	Mg	IV	I-MG0173	1,002	9/13/93	10/11/93	10/1/94
A-51-07	Se	IV	I-SE0104	1,000	9/13/93	10/1/93	10/1/94
A-51-08	Si	Spex	3-11-Si	1000	10/28/93	11/10/93	11/12/93
A-51-09	Blank Sand	ERA	58007	—	4/1/93	1/6/94	
A-51-10	Blank Sand	ERA	58001	—	1/21/94		
A-51-11	Blank Sand	ERA	58001	—	1/21/94		
A-51-12	Al	IV	I-AL0209	1,000	2/22/94	3-1-94	3/1/95
A-51-13	Cu	IV	I-CU0108	999	2/22/94	3-1-94	3/1/95
A-51-14	Ni	IV	I-NI0160	1004	2/22/94	3-1-94	3/1/95
A-51-15	Ag	Spex	3-111Ag	1,000	2/28/94	2/28/94	2/28/95
A-51-16	Ca	Spex	3-150Ca	1000	2/28/94		2/28/95
A-51-17	Cd	Spex	3-[illegible]Cd	1000	2/28/94	2/28/94	2/28/95

SIGNATURE [signature] DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

BOOK NO.

Lot # LRI	STD	Manu Factured	Lot No.	Conc PPM	Date Recd	Date Opened	Exp Date	Notes
A-52-01	Co	Spex	3-100Co	1000	2/28/94	2/28/94	2/28/95	
A-52-02	Ti	Spex	3-38Ti	1000	2/28/94	2/28/94	2/28/95	
A-52-03	Cu	Spex	3-78Cu	1000	2/28/94	2/28/94	2/28/95	
A-52-04	Sb	Spex	3-86Sb	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Mn	Spex	3-112Mn	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Blank sand	ERA	58001	—	11/21/94	3/2/94	NA	
A-52-06	Ti	Spex	4-3Ti	1000	3/22/94	3/31/94	3/31/98	
A-52-07	Al	I.V.	I-Al 0113	10,047	4/26/94	6/20/94	5/1/95	
A-52-08	Ca	I.V.	I-Ca 0114	10,002	4/26/94	6/13/94	5/1/95	
A-52-09	Mg	I.V.	I-Mg 0114	10,055	4/26/94	6/13/94	5/1/95	
A-52-10	Si	Spex	4-37Si	10,000	5/6/94		4/30/95	
A-52-11	Ca	Spex	11-12Ca	10,000	5/6/94	6/1/94	4/30/95	
A-52-12	Mg	Spex	11-5Mg	10,000	5/6/94		4/30/95	
A-52-13	BLANK SAND	ERA	58001	—	4/94	6/9/94	—	
A-52-14	K	Spex	3-40K	10,000	6/23/94	6/23/94	6/30/95	
A-52-15	Al	Spex	3-14Al	1,000	6/23/94		6/30/95	
A-52-16	As	Spex	4-52As	1,000	6/23/94		6/30/95	

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

Lot# LRI	STD	Mfg. Formula	Lot No.	Conc. PPM	Date Rec'd	Date Open.	Exp. Date	Notes
A-53-01	Zn	Spex	4-34ZN	1,000	6/23/94	7/14/94	6/30/95	
A-53-02	Mg	Spex	3-17OMG	1,000	6/23/94		6/30/95	
A-053-03	V	Spex	4-19V	1,000	6/23/94	7/14/94	6/30/95	
A-053-04	Se	Spex	4-43SE	1,000	6/23/94	7/12/94	6/30/95	
A-053-05	Fe	Spex	4-26FE	1,000	6/23/94	7/14/94	6/30/95	
A-053-06	Sn	Spex	3-50SN	1,000	6/23/94	7/14/94	6/30/95	
A-053-07	Cr	Spex	3-24CR	1,000	6/23/94	7/14/94	6/30/95	
A-053-08	Be	Spex	4-4BE	1,000	6/23/94	7/14/94	6/30/95	
A-053-09	Ti	Spex	4-22TI	1,000	6/23/94	7/14/94	6/30/95	
A-053-10	B	Spex	3-5B	1,000	6/23/94	7/14/94	6/30/95	
A-053-11	Mo	Spex	3-42MO	1,000	6/23/94	7/14/94	6/30/95	
A-53-12	Ni	Spex	4-28NI	1,000	6/23/94	7/14/94	6/30/95	
A-53-13	Pb	Spex	4-9PB	1,000	6/23/94	7/14/94	6/30/95	
A-53-14	Ba	Spex	3-167BA	1,000	6/23/94	7/17/94	6/30/95	
A-53-15	Blank Sand	ERA	58001	—	5/94	6/28/94	—	
A-53-16	Cu	Spex	I-9CA	10,000	6/26/94	7/14/94	6/30/95	

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 6060

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

LABORATORY CHRONICLE : METALS DEPARTMENT 00093

FURNACE

ELEMENT Tl
WAVE LENGTH 276.8
INSTR.NO. PE 5100 #2
LAMP NO. HCL 541591
LAMP ENERGY 57
ID/WT FILE CLP-IdW
DATA FILE TL0816C
~~MDL~~, ppb IDL (2.9 ppb)

DATE 08/16/94
TIME 11:35
SHIFT Day
ANALYST RS
SUPERVISOR MG

BATCH NO. 895
RAW DATA w/: 895

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
ICV-1	01	1D		1D	42.03			105.1%
ICB-1	02				0.50			
CCV-1-1	03				41.82			104.6%
CCB-1-1	04				2.52			
CRA-1	05				12.56			
PBW-895	06				2.33			
PBWA-895	07				19.47	97.4%		
LCSW-895	08				40.88			102.2%
LCSWA-895	09				59.58	93.5%		
0810307	10				0.17			
0810307A	11				22.04	110.2%		
PBS-895	12				0.72			
PBSA-895	13				20.40	102.0%		
CCV-1-2	14				41.90			104.8%
CCB-1-2	15				1.15			
LCSS-895	16				47.16			94.3%
LCSSA-895	17				63.83			
0810301	18				-0.20			
0810301A	19				18.30	91.5%		
0810301D	20				0.68			
0810301DA	21				20.41	102.0%		
0810301S	22				44.77		SR	89.5%
0810302	23				1.23			
0810302A	24				21.54	107.7%		
CCV-1-3	25	↓		↓	42.44			106.1%

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

ELEMENT Tl

DATE 08/16/94

ANALYST RS

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
CCB-1-3	26	1 D		1 D	1.57			
0810303	27				1.56			
0810303A	28				20.71	103.6%		
0810304	29				0.76			
0810304A	30				20.04	100.2%		
0810305	31				0.83			
0810305A	32				19.58	97.9%		
0810306	33				-0.75			
0810306A	34				19.19	96.0%		
CCV-1-4	35				39.46			98.6%
CCB-1-4	36				-0.61			
END Run	37	↓		↓	52.19			
CRA/STD① 10 ppb	35	Fu-A-	0413-03					
STD② 25 "	36	Fu-A-	0414-01					
STD③ 50 "	37	Fu-A-	0414-01					
STD④ 75 "	38	Fu-A-	0414-01					
High std 100 "	39	Fu-A-	0138-03					
Modifier	40							

Standard Name	Cup	Conc.	Lot No.
ICV/CCV	see run	40 ppb	Fu-A-0028-03
ICB/CCB	↓	0 "	Fu-A-0227-02
Spiking soln.	-	2000 "	Fu-A-0414-02

ANALYST SIGNATURE: Ravi Swamy

SUPERVISOR SIGNATURE:

[illegible] Wavelength: 276.8
[illegible] Slit: 0.7 L
[illegible] File: CLP.IDW Lamp Current: 6
[illegible] Calib. Type: Linear Energy: 57
Remark 3: ANALYST:RS
Remark 4: BATCH# 893
Remark 5: STD PREP DATE:09-16-91
Remark 6: INSTRUMENT: PE5100-2
Remark 7: TL ANALYSIS

Tl ID: BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 09/16/91

uL dispensed: 5 from 40, 20 from 0
Replicate 1 Time: 11:37
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 2.23

177

uL dispensed: 5 from 40, 20 from 0
Replicate 2 Time: 11:39
Peak Area (A-s): -0.004 Peak Height (A): 0.008
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.020

Concentration (ug/L): 0.78

Mean Conc (ug/L): 1.51 SD: 1.031 RSD(%): 68.47

Auto-zero performed.

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T1 ID: STANDARD1 Seq. No.: 00002 A/S Pos.: 35 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 35
Replicate 1 Time: 11:42
Peak Area (A-s): 0.026 Peak Height (A): 0.026
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 0.82

uL dispensed: 5 from 40, 20 from 35
Replicate 2 Time: 11:41
Peak Area (A-s): 0.031 Peak Height (A): 0.027
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 7.82

Mean Conc (ug/L): 7.22 SD: 0.853 RSD(%): 11.82

Standard number 1 applied. [10.00]
Correlation coefficient: 1.00000 Slope: 0.0020

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T2 ID: STANDARD2 Seq. No.: 00003 A/S Pos.: 36 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 36
Replicate 1 Time: 11:47
Peak Area (A-s): 0.071 Peak Height (A): 0.060
Background Pk Area (A-s): 0.139 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 21.64

uL dispensed: 5 from 40, 20 from 36
Replicate 2 Time: 11:49
Peak Area (A-s): 0.090 Peak Height (A): 0.067
Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 31.09

Mean Conc (ug/L): 27.87 SD: 4.561 RSD(%): 16.37

Standard number 2 applied. [25.00]
Correlation coefficient: 0.99582 Slope: 0.0032

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uL dispensed: 5 from 40, 20 from 37
Replicate 1 Time: 11:52
Peak Area (A-s): 0.156 Peak Height (A): 0.112
Background Pk Area (A-s): 0.202 Background Pk Height (A): 0.130
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 48.88

uL dispensed: 5 from 40, 20 from 37
Replicate 2 Time: 11:54
Peak Area (A-s): 0.157 Peak Height (A): 0.119
Background Pk Area (A-s): 0.206 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 49.19

Mean Conc (ug/L): 49.04 SD: 0.218 RSD(%): 0.44

Standard number 3 applied. [50.00]
Correlation coefficient: 0.99929 Slope: 0.0032

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T1 ID: STANDARD4 Seq. No.: 00005 A/S Pos.: 38 Date: 08/10/94

uL dispensed: 5 from 40, 20 from 38
Replicate 1 Time: 11:57
Peak Area (A-s): 0.220 Peak Height (A): 0.156
Background Pk Area (A-s): 0.278 Background Pk Height (A): 0.186
Blank Corrected Pk Area (A-s): 0.221
Concentration (ug/L): 70.16

uL dispensed: 5 from 40, 20 from 38
Replicate 2 Time: 11:59
Peak Area (A-s): 0.229 Peak Height (A): 0.161
Background Pk Area (A-s): 0.277 Background Pk Height (A): 0.190
Blank Corrected Pk Area (A-s): 0.230
Concentration (ug/L): 72.96

Mean Conc (ug/L): 71.56 SD: 1.978 RSD(%): 2.76

Standard number 4 applied. [75.00]
Correlation coefficient: 0.99883 Slope: 0.0031

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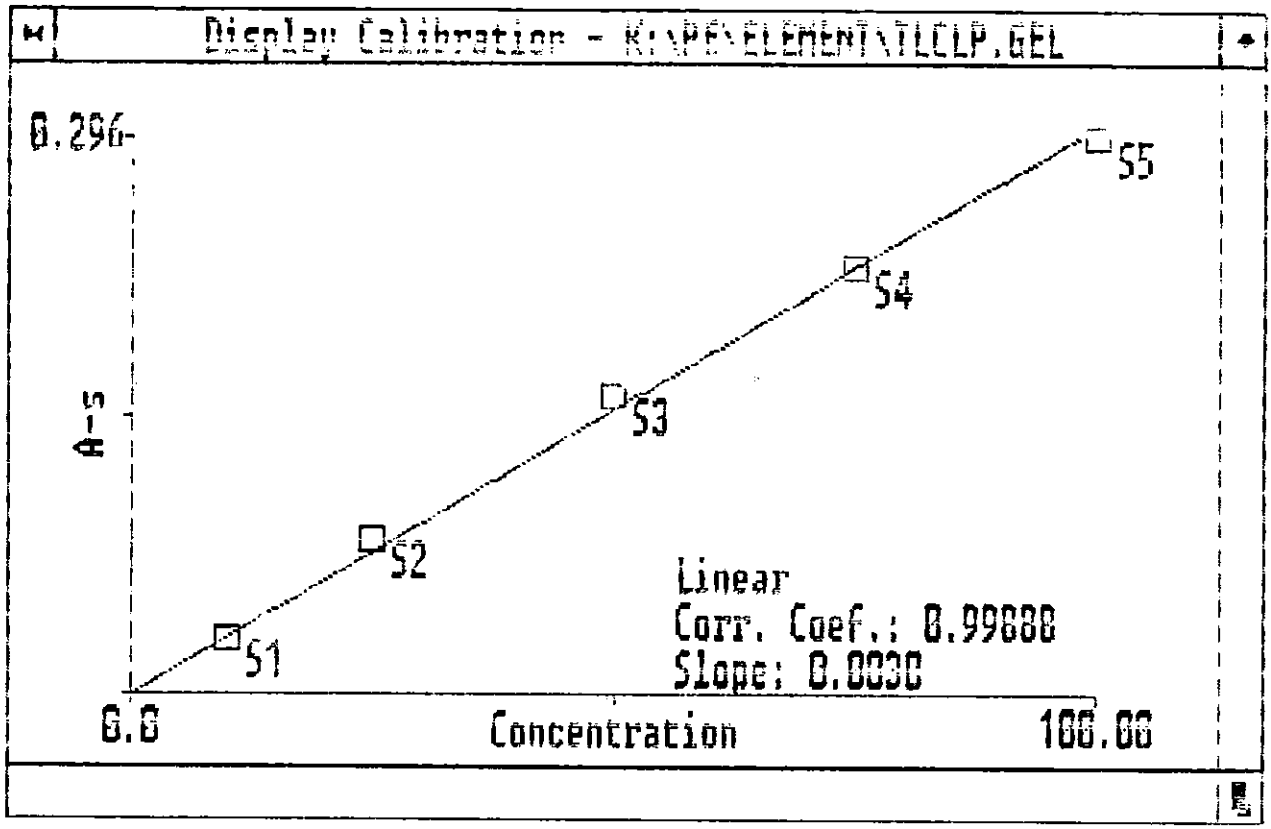
T1 ID: STANDARD5 Seq. No.: 00006 A/S Pos.: 39 Date: 08/10/94

uL dispensed: 5 from 40, 20 from 39
Replicate 1 Time: 12:02
Peak Area (A-s): 0.294 Peak Height (A): 0.200
Background Pk Area (A-s): 0.359 Background Pk Height (A): 0.247
Blank Corrected Pk Area (A-s): 0.295
Concentration (ug/L): 96.23

uL dispensed: 5 from 40, 20 from 39
Replicate 2 Time: 12:04
Peak Area (A-s): 0.295 Peak Height (A): 0.210
Background Pk Area (A-s): 0.366 Background Pk Height (A): 0.250
Blank Corrected Pk Area (A-s): 0.296
Concentration (ug/L): 96.60

Standard number 5 applied. [100.00]
Correlation coefficient: 0.99888 Slope: [illegible]



Tl ID: ICV-1 Seq. No.: 00007 A/S Pos.: 1 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 1
Replicate 1 Time: 12:07
Peak Area (A-s): 0.128 Peak Height (A): 0.092
Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.129
Concentration (ug/L): 42.78 Corrected Conc (ug/L): 42.78

uL dispensed: 5 from 40, 20 from 1
Replicate 2 Time: 12:10
Peak Area (A-s): 0.123 Peak Height (A): 0.092
Background Pk Area (A-s): 0.180 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 41.27 Corrected Conc (ug/L): 41.27

Mean Conc (ug/L): 42.03 SD: 1.071 RSD(%): 2.55
Corrected Conc (ug/L): 42.03

Tl ID: ICB-1 Seq. No.: 00008 A/S Pos.: 2 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 2
Replicate 1 Time: 12:12
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.000
Blank Corrected Pk Area (A-s): 0.004

uL dispensed: 5 from 40, 20 from 2
Replicate 2 Time: 12:15
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.20 Corrected Conc (ug/L): -0.20

Mean Conc (ug/L): 0.50 SD: 0.990 RSD(%): 197.11
Corrected Conc (ug/L): 0.50

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T1 ID: CCV-1-1 Seq. No.: 00009 A/S Pos.: 3 Date: 08/10/94

uL dispensed: 5 from 10, 20 from 3
Replicate 1 Time: 12:17
Peak Area (A-s): 0.127 Peak Height (A): 0.090
Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.103
Blank Corrected Pk Area (A-s): 0.128
Concentration (ug/L): 42.54 Corrected Conc (ug/L): 42.54

uL dispensed: 5 from 40, 20 from 3
Replicate 2 Time: 12:20
Peak Area (A-s): 0.123 Peak Height (A): 0.091
Background Pk Area (A-s): 0.180 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 41.11 Corrected Conc (ug/L): 41.11

Mean Conc (ug/L): 41.82 SD: 1.014 RSD(%): 2.42
Corrected Conc (ug/L): 41.82

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T1 ID: CCB-1-1 Seq. No.: 00010 A/S Pos.: 4 Date: 08/10/94

uL dispensed: 5 from 40, 20 from 4
Replicate 1 Time: 12:22
Peak Area (A-s): 0.007 Peak Height (A): 0.011
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.65 Corrected Conc (ug/L): 2.65

uL dispensed: 5 from 40, 20 from 4
Replicate 2 Time: 12:25
Peak Area (A-s): 0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.39 Corrected Conc (ug/L): 2.39

Mean Conc (ug/L): 2.52 SD: 0.184 RSD(%): 7.31
Corrected Conc (ug/L): 2.52

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T1 ID: CRA-1 Seq. No.: 00011 A/S Pos.: 5 Date: 08/10/94

uL dispensed: 5 from 40, 20 from 5
Replicate 1 Time: 12:27
Peak Area (A-s): 0.033 Peak Height (A): 0.028
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.034
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uL dispensed: 5 from 40, 20 from 5
Replicate 2 Time: 12:30
Peak Area (A-s): 0.038 Peak Height (A): 0.030
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 13.00 Corrected Conc (ug/L): 13.00

Mean Conc (ug/L): 12.20 SD: 1.107 RSD(%): 9.07
Corrected Conc (ug/L): 12.20

T1 ID: PBW-895 Seq. No.: 00012 A/S Pos.: 6 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 6
Replicate 1 Time: 12:32
Peak Area (A-s): 0.007 Peak Height (A): 0.009
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 2.66 Corrected Conc (ug/L): 2.66

uL dispensed: 5 from 40, 20 from 6
Replicate 2 Time: 12:35
Peak Area (A-s): 0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 1.99 Corrected Conc (ug/L): 1.99

Mean Conc (ug/L): 2.33 SD: 0.475 RSD(%): 20.42
Corrected Conc (ug/L): 2.33

T1 ID: PBWA-895 Seq. No.: 00013 A/S Pos.: 7 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 7
Replicate 1 Time: 12:38
Peak Area (A-s): 0.060 Peak Height (A): 0.047
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 20.22 Corrected Conc (ug/L): 20.22

uL dispensed: 5 from 40, 20 from 7
Replicate 2 Time: 12:40
Peak Area (A-s): 0.055 Peak Height (A): 0.046
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 18.72 Corrected Conc (ug/L): 18.72

Mean Conc (ug/L): 19.47 SD: 1.061 RSD(%): 5.45
Corrected Conc (ug/L): 19.47

T1 ID: LCSW-895 Seq. No.: 00014 A/S Pos.: 8 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 8
Replicate 1 Time: 12:43
Peak Area (A-s): 0.120 Peak Height (A): 0.091
Background Pk Area (A-s): 0.165 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.127

uL dispensed: 5 from 40, 20 from 8
Replicate 2 Time: 12:45
Peak Area (A-s): 0.118 Peak Height (A): 0.095
Background Pk Area (A-s): 0.169 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 39.68 Corrected Conc (ug/L): 39.68

Mean Conc (ug/L): 40.88 SD: 1.696 RSD(%): 1.15
Corrected Conc (ug/L): 40.88

T1 ID: LCSWA-895 Seq. No.: 00015 A/S Pos.: 9 Date: 08/10/94

uL dispensed: 5 from 40, 20 from 9
Replicate 1 Time: 12:48
Peak Area (A-s): 0.177 Peak Height (A): 0.135
Background Pk Area (A-s): 0.227 Background Pk Height (A): 0.151
Blank Corrected Pk Area (A-s): 0.170
Concentration (ug/L): 39.33 Corrected Conc (ug/L): 39.33

uL dispensed: 5 from 40, 20 from 9
Replicate 2 Time: 12:50
Peak Area (A-s): 0.170 Peak Height (A): 0.130
Background Pk Area (A-s): 0.224 Background Pk Height (A): 0.151
Blank Corrected Pk Area (A-s): 0.181
Concentration (ug/L): 39.83 Corrected Conc (ug/L): 39.83

Mean Conc (ug/L): 39.58 SD: 0.353 RSD(%): 0.89
Corrected Conc (ug/L): 39.58

T1 ID: 0810307 Seq. No.: 00010 A/S Pos.: 10 Date: 08/10/94

uL dispensed: 5 from 10, 20 from 10
Replicate 1 Time: 12:53
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.10 Corrected Conc (ug/L): 0.10

uL dispensed: 5 from 40, 20 from 10
Replicate 2 Time: 12:55
Peak Area (A-s): -0.000 Peak Height (A): 0.008
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.24 Corrected Conc (ug/L): 0.21

Mean Conc (ug/L): 0.17 SD: 0.101 RSD(%): 58.39
Corrected Conc (ug/L): 0.17

T1 ID: 0810307A Seq. No.: 00017 A/S Pos.: 11 Date: 08/10/94

uL dispensed: 5 from 40, 20 from 11
Replicate 1 Time: 12:58
Peak Area (A-s): 0.065 Peak Height (A): 0.050
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.066

uL dispensed: 5 from 40, 20 from 11
Replicate 2 Time: 13:00
Peak Area (A-s): 0.065 Peak Height (A): 0.055
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 22.02 Corrected Conc (ug/L): 22.02

Mean Conc (ug/L): 22.04 SD: 0.027 RSD(%): 0.12
Corrected Conc (ug/L): 22.04

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Tl ID: PBS-895 Seq. No.: 00018 A/S Pos.: 12 Date: 08/16/94

uL dispensed: 5 from 10, 20 from 12
Replicate 1 Time: 13:03
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.19 Corrected Conc (ug/L): 1.19

uL dispensed: 5 from 40, 20 from 12
Replicate 2 Time: 13:05
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.25 Corrected Conc (ug/L): 0.25

Mean Conc (ug/L): 0.72 SD: 0.662 RSD(%): 92.16
Corrected Conc (ug/L): 0.72

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Tl ID: PBSA-895 Seq. No.: 00019 A/S Pos.: 13 Date: 08/16/94

uL dispensed: 5 from 10, 20 from 13
Replicate 1 Time: 13:08
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 20.31 Corrected Conc (ug/L): 20.31

uL dispensed: 5 from 40, 20 from 13
Replicate 2 Time: 13:10
Peak Area (A-s): 0.061 Peak Height (A): 0.017
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 20.48 Corrected Conc (ug/L): 20.48

Mean Conc (ug/L): 20.40 SD: 0.120 RSD(%): 0.62
Corrected Conc (ug/L): 20.40

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Tl ID: CCV-1-2 Seq. No.: 00020 A/S Pos.: 11 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 11
Replicate 1 Time: 13:13
Peak Area (A-s): 0.123 Peak Height (A): 0.093
Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.121
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uL dispensed: 5 from 40, 20 from 14
Replicate 2 Time: 13:15
Peak Area (A-s): 0.128 Peak Height (A): 0.096
Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.111
Blank Corrected Pk Area (A-s): 0.129
Concentration (ug/L): 42.72 Corrected Conc (ug/L): 42.72

Mean Conc (ug/L): 41.90 SD: 1.146 RSD(%): 2.73
Corrected Conc (ug/L): 41.90

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Tl ID: CCB-1-2 Seq. No.: 00021 A/S Pos.: 15 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 15
Replicate 1 Time: 13:17
Peak Area (A-s): 0.006 Peak Height (A): 0.011
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.45 Corrected Conc (ug/L): 2.45

uL dispensed: 5 from 40, 20 from 15
Replicate 2 Time: 13:20
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.16 Corrected Conc (ug/L): -0.16

Mean Conc (ug/L): 1.15 SD: 1.846 RSD(%): 161.03
Corrected Conc (ug/L): 1.15

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Tl ID: LCSS-895 Seq. No.: 00022 A/S Pos.: 16 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 16
Replicate 1 Time: 13:22
Peak Area (A-s): 0.140 Peak Height (A): 0.100
Background Pk Area (A-s): 0.195 Background Pk Height (A): 0.121
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 47.75 Corrected Conc (ug/L): 47.75

uL dispensed: 5 from 40, 20 from 16
Replicate 2 Time: 13:25
Peak Area (A-s): 0.139 Peak Height (A): 0.104
Background Pk Area (A-s): 0.198 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.140
Concentration (ug/L): 46.56 Corrected Conc (ug/L): 46.56

Mean Conc (ug/L): 47.16 SD: 0.839 RSD(%): 1.78
Corrected Conc (ug/L): 47.16

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Tl ID: LCSSA-895 Seq. No.: 00023 A/S Pos.: 17 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 17
Replicate 1 Time: 13:27
Peak Area (A-s): 0.188 Peak Height (A): 0.135
Background Pk Area (A-s): 0.266 Background Pk Height (A): 0.166
Blank Corrected Pk Area (A-s): 0.189
~~~~~~

uL dispensed: 5 from 40, 20 from 17
Replicate 2 Time: 13:29
Peak Area (A-s): 0.194 Peak Height (A): 0.139
Background Pk Area (A-s): 0.259 Background Pk Height (A): 0.168
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 64.69 Corrected Conc (ug/L): 64.69

Mean Conc (ug/L): 63.83 SD: 1.221 RSD(%): 1.91
Corrected Conc (ug/L): 63.83

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T1 ID: 0810301 Seq. No.: 00024 A/S Pos.: 18 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 18
Replicate 1 Time: 13:32
Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.54 Corrected Conc (ug/L): -0.54

uL dispensed: 5 from 40, 20 from 18
Replicate 2 Time: 13:34
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.15 Corrected Conc (ug/L): 0.15

Mean Conc (ug/L): -0.20 SD: 0.491 RSD(%): 251.82
Corrected Conc (ug/L): -0.20

~~~~~~

T1 ID: 0810301A Seq. No.: 00025 A/S Pos.: 19 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 19
Replicate 1 Time: 13:37
Peak Area (A-s): 0.050 Peak Height (A): 0.040
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 16.96 Corrected Conc (ug/L): 16.96

uL dispensed: 5 from 40, 20 from 19
Replicate 2 Time: 13:39
Peak Area (A-s): 0.059 Peak Height (A): 0.051
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 19.64 Corrected Conc (ug/L): 19.64

Mean Conc (ug/L): 18.30 SD: 1.897 RSD(%): 10.37
Corrected Conc (ug/L): 18.30

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T1 ID: 0810301D Seq. No.: 00026 A/S Pos.: 20 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 20
Replicate 1 Time: 13:41
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.000
~~~~~~

uL dispensed: 5 from 40, 20 from 20
Replicate 2 Time: 13:44
Peak Area (A-s): 0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.29 Corrected Conc (ug/L): 1.29

Mean Conc (ug/L): 0.68 SD: 0.859 RSD(%): 126.18
Corrected Conc (ug/L): 0.68

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Tl ID: 0810301DA Seq. No.: 00027 A/S Pos.: 21 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 21
Replicate 1 Time: 13:46
Peak Area (A-s): 0.063 Peak Height (A): 0.051
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.064
Concentration (ug/L): 21.23 Corrected Conc (ug/L): 21.23

uL dispensed: 5 from 40, 20 from 21
Replicate 2 Time: 13:49
Peak Area (A-s): 0.058 Peak Height (A): 0.050
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 19.59 Corrected Conc (ug/L): 19.59

Mean Conc (ug/L): 20.41 SD: 1.160 RSD(%): 5.68
Corrected Conc (ug/L): 20.41

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Tl ID: 0810301S Seq. No.: 00028 A/S Pos.: 22 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 22
Replicate 1 Time: 13:51
Peak Area (A-s): 0.140 Peak Height (A): 0.106
Background Pk Area (A-s): 0.188 Background Pk Height (A): 0.118
Blank Corrected Pk Area (A-s): 0.141
Concentration (ug/L): 46.97 Corrected Conc (ug/L): 46.97

uL dispensed: 5 from 40, 20 from 22
Replicate 2 Time: 13:54
Peak Area (A-s): 0.127 Peak Height (A): 0.099
Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.128
Concentration (ug/L): 42.57 Corrected Conc (ug/L): 42.57

Mean Conc (ug/L): 44.77 SD: 3.111 RSD(%): 6.95
Corrected Conc (ug/L): 44.77

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Tl ID: 0810302 Seq. No.: 00029 A/S Pos.: 23 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 23
Replicate 1 Time: 13:56
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.005
~~~~~~

uL dispensed: 5 from 40, 20 from 23
Replicate 2 Time: 13:59
Peak Area (A-s): 0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.90 Corrected Conc (ug/L): 0.90

Mean Conc (ug/L): 1.23 SD: 0.382 RSD(%): 31.02
Corrected Conc (ug/L): 1.23

~~~~~~

Tl ID: 0810302A Seq. No.: 00030 A/S Pos.: 24 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 24
Replicate 1 Time: 14:01
Peak Area (A-s): 0.066 Peak Height (A): 0.045
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L): 22.43 Corrected Conc (ug/L): 22.43

uL dispensed: 5 from 40, 20 from 24
Replicate 2 Time: 14:04
Peak Area (A-s): 0.061 Peak Height (A): 0.046
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 20.65 Corrected Conc (ug/L): 20.65

Mean Conc (ug/L): 21.54 SD: 1.259 RSD(%): 5.85
Corrected Conc (ug/L): 21.54

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Tl ID: CCV-1-3 Seq. No.: 00031 A/S Pos.: 25 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 25
Replicate 1 Time: 14:07
Peak Area (A-s): 0.127 Peak Height (A): 0.099
Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.128
Concentration (ug/L): 42.64 Corrected Conc (ug/L): 42.61

uL dispensed: 5 from 40, 20 from 25
Replicate 2 Time: 14:09
Peak Area (A-s): 0.126 Peak Height (A): 0.097
Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.113
Blank Corrected Pk Area (A-s): 0.127
Concentration (ug/L): 42.23 Corrected Conc (ug/L): 42.23

Mean Conc (ug/L): 42.41 SD: 0.273 RSD(%): 0.64
Corrected Conc (ug/L): 42.41

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Tl ID: CCB-1-3 Seq. No.: 00032 A/S Pos.: 20 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 20
Replicate 1 Time: 14:12
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 1.26 Corrected Conc (ug/L): 1.26
~~~~~~

uL dispensed: 5 from 40, 20 from 26
Replicate 2 Time: 14:14
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.78 Corrected Conc (ug/L): 1.78

Mean Conc (ug/L): 1.57 SD: 0.298 RSD(%): 19.03
Corrected Conc (ug/L): 1.57

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Tl ID: 0810303 Seq. No.: 00033 A/S Pos.: 27 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 27
Replicate 1 Time: 14:17
Peak Area (A-s): 0.007 Peak Height (A): 0.010
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.61 Corrected Conc (ug/L): 2.61

uL dispensed: 5 from 40, 20 from 27
Replicate 2 Time: 14:19
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.50 Corrected Conc (ug/L): 0.50

Mean Conc (ug/L): 1.56 SD: 1.439 RSD(%): 92.30
Corrected Conc (ug/L): 1.56

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Tl ID: 0810303A Seq. No.: 00034 A/S Pos.: 28 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 28
Replicate 1 Time: 14:22
Peak Area (A-s): 0.063 Peak Height (A): 0.053
Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.064
Concentration (ug/L): 21.15 Corrected Conc (ug/L): 21.15

uL dispensed: 5 from 40, 20 from 28
Replicate 2 Time: 14:24
Peak Area (A-s): 0.060 Peak Height (A): 0.052
Background Pk Area (A-s): 0.110 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 20.26 Corrected Conc (ug/L): 20.26

Mean Conc (ug/L): 20.71 SD: 0.630 RSD(%): 3.04
Corrected Conc (ug/L): 20.71

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Tl ID: 0810304 Seq. No.: 00035 A/S Pos.: 29 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 29
Replicate 1 Time: 14:27
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.000
~~~~~~

uL dispensed: 5 from 40, 20 from 29
Replicate 2 Time: 14:29
Peak Area (A-s): 0.004 Peak Height (A): 0.012
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.65 Corrected Conc (ug/L): 1.65

Mean Conc (ug/L): 0.76 SD: 1.265 RSD(%): 167.17
Corrected Conc (ug/L): 0.76

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Tl ID: 0810304A Seq. No.: 00036 A/S Pos.: 30 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 30
Replicate 1 Time: 14:32
Peak Area (A-s): 0.060 Peak Height (A): 0.048
Background Pk Area (A-s): 0.122 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 20.24 Corrected Conc (ug/L): 20.24

uL dispensed: 5 from 40, 20 from 30
Replicate 2 Time: 14:34
Peak Area (A-s): 0.059 Peak Height (A): 0.049
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 19.84 Corrected Conc (ug/L): 19.84

Mean Conc (ug/L): 20.04 SD: 0.280 RSD(%): 1.40
Corrected Conc (ug/L): 20.04

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Tl ID: 0810305 Seq. No.: 00037 A/S Pos.: 31 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 31
Replicate 1 Time: 14:37
Peak Area (A-s): -0.000 Peak Height (A): 0.000
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.20 Corrected Conc (ug/L): 0.20

uL dispensed: 5 from 40, 20 from 31
Replicate 2 Time: 14:38
Peak Area (A-s): 0.008 Peak Height (A): 0.010
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.46 Corrected Conc (ug/L): 1.46

Mean Conc (ug/L): 0.83 SD: 0.891 RSD(%): 107.18
Corrected Conc (ug/L): 0.83

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Tl ID: 0810305A Seq. No.: 00038 A/S Pos.: 32 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 32
Replicate 1 Time: 14:41
Peak Area (A-s): 0.056 Peak Height (A): 0.049
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 19.08 Corrected Conc (ug/L): 19.08
~~~~~~

uL dispensed: 5 from 40, 20 from 32
Replicate 2 — Time: 14:44
Peak Area (A-s): 0.059 — Peak Height (A): 0.048
Background Pk Area (A-s): 0.119 — Background Pk Height (A): 0.000
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 20.07 — Corrected Conc (ug/L): 20.07

Mean Conc (ug/L): 19.58 — SD: 0.692 — RSD(%): 3.54
Corrected Conc (ug/L): 19.58

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Tl ID: 0810306 — Seq. No.: 00039 — A/S Pos.: 33 — Date: 08/16/94

uL dispensed: 5 from 40, 20 from 33
Replicate 1 — Time: 14:46
Peak Area (A-s): -0.002 — Peak Height (A): 0.009
Background Pk Area (A-s): 0.052 — Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.20 — Corrected Conc (ug/L): -0.20

uL dispensed: 5 from 40, 20 from 33
Replicate 2 — Time: 11:10
Peak Area (A-s): -0.005 — Peak Height (A): 0.008
Background Pk Area (A-s): 0.053 — Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.31 — Corrected Conc (ug/L): -1.31

Mean Conc (ug/L): -0.75 — SD: 0.781 — RSD(%): 104.00
Corrected Conc (ug/L): -0.75

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Tl ID: 0810306A — Seq. No.: 00040 — A/S Pos.: 34 — Date: 08/16/94

uL dispensed: 5 from 40, 20 from 34
Replicate 1 — Time: 11:31
Peak Area (A-s): 0.075 — Peak Height (A): 0.011
Background Pk Area (A-s): 0.107 — Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 18.65 — Corrected Conc (ug/L): 18.65

uL dispensed: 5 from 40, 20 from 34
Replicate 2 — Time: 11:50
Peak Area (A-s): 0.058 — Peak Height (A): 0.018
Background Pk Area (A-s): 0.107 — Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 19.73 — Corrected Conc (ug/L): 19.73

Mean Conc (ug/L): 19.19 — SD: 0.764 — RSD(%): 3.98
Corrected Conc (ug/L): 19.19

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Tl ID: CCV-1-4 — Seq. No.: 00041 — A/S Pos.: 35 — Date: 08/16/94

uL dispensed: 5 from 40, 20 from 35
Replicate 1 — Time: 14:56
Peak Area (A-s): 0.115 — Peak Height (A): 0.093
Background Pk Area (A-s): 0.171 — Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.116
~~~~~~

uL dispensed: 5 from 40, 20 from 35
Replicate 2 Time: 14:58
Peak Area (A-s): 0.121 Peak Height (A): 0.095
Background Pk Area (A-s): 0.168 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 40.49 Corrected Conc (ug/L): 40.49

Mean Conc (ug/L): 39.46 SD: 1.464 RSD(%): 3.71
Corrected Conc (ug/L): 39.46

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Tl ID: CCB-1-4 Seq. No.: 00042 A/S Pos.: 36 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 36
Replicate 1 Time: 15:01
Peak Area (A-s): -0.003 Peak Height (A): 0.008
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.80 Corrected Conc (ug/L): -0.80

uL dispensed: 5 from 40, 20 from 36
Replicate 2 Time: 15:03
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.11 Corrected Conc (ug/L): -0.11

Mean Conc (ug/L): -0.61 SD: 0.272 RSD(%): 11.31
Corrected Conc (ug/L): -0.61

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Tl ID: END RUN Seq. No.: 00043 A/S Pos.: 37 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 37
Replicate 1 Time: 15:06
Peak Area (A-s): 0.157 Peak Height (A): 0.111
Background Pk Area (A-s): 0.190 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 52.67 Corrected Conc (ug/L): 52.67

uL dispensed: 5 from 40, 20 from 37
Replicate 2 Time: 15:08
Peak Area (A-s): 0.153 Peak Height (A): 0.118
Background Pk Area (A-s): 0.198 Background Pk Height (A): 0.133
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 51.72 Corrected Conc (ug/L): 51.72

Mean Conc (ug/L): 52.19 SD: 0.671 RSD(%): 1.29
Corrected Conc (ug/L): 52.19

FU3

STANDARD PREPARATION LOG METALS DEPT.
-FURNACE-

STD LOT NO.: FU-A- 0138-01
STD NAME: FURNACE HIGH STD
DATE PREP: 08/13/94
ANALYST INIT: AM 8Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A- 0138-02
STD NAME: FURNACE HIGH STD
DATE PREP: 08/15/94
ANALYST INIT: AM 9Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A- 0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A- 0138-03
STD NAME: FURNACE HIGH STD 9Am
DATE PREP: 08-16-94
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A- 0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: FURNACE HIGH STD
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ____ML CONC HNO3
____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: FURNACE HIGH STD
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ____ML CONC HNO3
____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STANDARD PREPARATION LOG METALS DEPT.

A2 -FURNACE-

STD LOT NO.: FU-A-0028-01
STD NAME: ICV/CCV
DATE PREP: 08/13/94
ANALYST INIT: AM 8A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL_____40;
Prep fresh for each run.

STD LOT NO.: FU-A-0028-02
STD NAME: ICV/CCV
DATE PREP: 08/15/94
ANALYST INIT: AM 9A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL_____40;
Prep fresh for each run.

STD LOT NO.: FU-A-0028-03
STD NAME: ICV/CCV
DATE PREP: 08-16-94 9AM
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV,ppb:
Cd,As,Se,Sb,Pb,TL_____40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:_____
ANALYST INIT:_____
FINAL VOL(ML): 100.0
PRESERVATIVES:_____ML CONC HNO3
_____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV,ppb:
Cd,As,Se,Sb,Pb,TL_____40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:_____
ANALYST INIT:_____
FINAL VOL(ML): 100.0
PRESERVATIVES:_____ML CONC HNO3
_____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV,ppb:
Cd,As,Se,Sb,Pb,TL_____40;
Prep fresh for each run.

FU1

STANDARD PREPARATION LOG -FURNACE- METALS DEPT.

STD LOT NO.: FU-A- 0227-01 STD NAME: ICB/CCB/CAL BLK DATE PREP: 08/15/94 ANALYST INIT: Am 9Am FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2
STD LOT NO.: FU-A-0227-02 STD NAME: ICB/CCB/CAL BLK 9Am DATE PREP: 08-16-94 ANALYST INIT: RS FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ______ ANALYST INIT: ______ FINAL VOL(ML): 100.0 PRESERVATIVES: ______ML CONC HNO3 ______ML H2O2

STANDARD PREPARATION LOG METALS DEPT.

FU2 -FURNACE-

STD LOT NO.: FU-A-0413-01
STD NAME: spiking std
DATE PREP: 08/15/94 9A
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 M H_2O_2
Notes:

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1,000	FU-A-5216
Se	0.10	↓	FU-A-5304
Pb	0.060	↓	FU-A-5313
Tl	0.20	↓	FU-A-5206
			FU-A-
			FU-A-

STD LOT NO.: FU-A-0413-02
STD NAME: spiking for MSA
DATE PREP: 08/15/94
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 M H_2O_2
Notes:
0.02 ml of each solu to
2 ml of Sample

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.10	1,000	FU-A-5216
↓	0.15	↓	FU-A-
	0.20		FU-A-
	0.30		FU-A-
↓	0.45	↓	FU-A-
			FU-A-

STD LOT NO.: FU-A-0413-03
STD NAME: CRA/Std ①
DATE PREP: 08-16-94 9 AM
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
3 5 10 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High Std	3.0	100 ppb	FU-A-0138-03
↓	5.0	↓	FU-A-
↓	10.0	↓	FU-A-
			FU-A-
			FU-A-
			FU-A-

0413

STANDARD PREPARATION LOG METALS DEPT.

FU2 -FURNACE-

STD LOT NO.: FU-A-0414-01.
STD NAME: Std ① ③ ④
DATE PREP: 08-16-94 gam
ANALYST INIT: RS
FINAL VOL(ML): ~~100.0~~ 10.0 ml
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
25 50 75 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High Std	2.5	100 ppb	FU-A-0138-03
Cal. Blk	7.5	0 "	FU-A-0227-02
High Std	5.0	100 "	FU-A-0138-03
Cal Blk	5.0	0 "	FU-A-0227-02
High Std	7.5	100 "	FU-A-0138-03
Cal Blk	2.5	0 "	FU-A-0227-02

STD LOT NO.: FU-A-0414-02
STD NAME: spiking soln
DATE PREP: 08-16-94 gam
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
or
~~25 50 75~~
0.02 ml of each to 2.0 ml of sample

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1000	FU-A-52-16
Se	0.10	↓	FU-A-53-04
Pb	0.060	↓	FU-A-53-13
Tl	0.20	↓	FU-A-52-06
		↓	FU-A-
		↓	FU-A-

STD LOT NO.: FU-A-0414-02
STD NAME: spiking for ICPMS
DATE PREP: 08/16/94
ANALYST INIT: A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes:

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As, Pb	0.10	1,000	FU-A-52-16
↓	0.15	↓	FU-A-53-13
↓	0.20	↓	FU-A-
↓	0.30	↓	FU-A-
↓	0.45	↓	FU-A-
			FU-A-

0414

FU2

STANDARD PREPARATION LOG -FURNACE- METALS DEPT.

STD LOT NO.: FU-A-0111-01
STD NAME: FURNACE STOCK STD
DATE PREP: 04-21-94
ANALYST INIT: AM 10A
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 50-16
Cd	1.0	1,000	A- 49-02
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- 48-14

STD LOT NO.: FU-A-0111-02
STD NAME: FURNACE STOCK STD
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As (Ag)	~~1.0~~ 0.10	1,000	A- 50-14
Cd	~~1.0~~ 0.10	1,000	A- 49-02
~~Pb~~ Ba	1.0	1,000	A- 49-13
~~Sb~~ Be	0.10	1,000	A- 51-02
~~Se~~ Cr	0.10	1,000	A- 51-04
Tl	1.0	1,000	A-

STD LOT NO.: FU-A-0111-03
STD NAME: FURNACE STOCK STD
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 52-16
~~Cd~~	~~1.0~~	~~1,000~~	~~A~~
Pb	1.0	1,000	A- 53-13
Sb	1.0	1,000	A- 53-04
Se	1.0	1,000	A- 53-04
● Tl	1.0	1,000	A- ~~52-06~~ 48-14 RR

0111

STANDARD PREPARATION LOG METALS DEPT.

A1 -FURNACE-

STD LOT NO.: FU-A- 001-01
STD NAME: ICV/CCV INTERM,
DATE PREP: 03/07/94 9AM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 49-16
Cd	1.0	1,000	A- 51-17
Pb	1.0	1,000	A- 48-04
Sb	1.0	1,000	A- 52-04
Se	1.0	1,000	A- 50-05
Tl	1.0	1,000	A- 48-03

STD LOT NO.: FU-A- 001-02
STD NAME: ICV/CCV INTERM
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
~~Ag~~ Ag	~~1.0~~ 0.10	1,000	A- 51-15
Cd	~~1.0~~ 0.10	1,000	A- 51-17
~~Pb~~ Ba	1.0	1,000	A- 49-17
~~Sb~~ Be	~~1.0~~ 0.10	1,000	A- 48-10
~~Se~~ Cr	~~1.0~~ 0.10	1,000	A- 47-16
~~Tl~~	1.0	1,000	A-

STD LOT NO.: FU-A-001-03
STD NAME: ICV/CCV INTERM
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 50-16
~~Cd~~	~~1.0~~	~~1,000~~	A-
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- ~~48-14~~ 52-06

R

T 001

Lot # LRI	STD	Manufacturer	Lot No.	Conc ppm	Date Rec	Date Open	Exp Date
A-48-01	Ca	Spex (JS 7/8/93)	6-228CA	10,000	7/8/93	7/15/93	7/15/94
A-48-02	Mg	Spex	6-215MG	10,000	7/8/93	7/15/93	7/15/94
A-48-03	Ti	Spex	3-2TI	1,000	7/8/93	7/8/93	7/15/94
A-48-04	Pb	Spex	3-40PB	1,000	7/8/93	7/8/93	7/15/94
A-48-05	V	Spex	2-233V	1,000	7/8/93	7/27/93	7/15/94
A-48-06	Zn	Spex	3-50ZN	1,000	7/8/93	7/8/93	7/15/94
A-48-07	Ni	Spex	2-266NI	1,000	7/8/93	7/8/93	7/15/94
A-48-08	Fe	Spex	3-18FE	1,000	7/8/93	7/27/93	7/15/94
A-48-09	Al	Spex	3-58AL	1,000	7/8/93	7/27/93	7/15/94
A-48-10	Be	Spex	3-56BE	1,000	7/8/93	7/8/93	7/15/94
A-48-11	Sn	IV	II-SN0126	1,002	7/8/93	10/19/93	8/1/94
A-48-12	Zn	IV	1-ZN0151	1,001	7/8/93	8/2/93	8/1/94
A-48-13	Na	IV	1-NA01060	993	7/8/93	7/27/93	8/1/94
A-48-14	Ti	IV	II-TI0132	1,001	7/8/93	7/8/93	8/1/94
A-48-15	Y	IV	II-Y01114	1,001	7/8/93	9/1/93	8/1/94
A-48-16	Mo	IV	1-MO0139	1,002	7/8/93	9/1/93	8/1/94
A-48-17	Si	IV	II-SI01055	999	7/8/93	9/1/93	8/1/94

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Lab No. LRI	STD	Manufacturer	Lot No.	Conc. ppm	Date Rec'd	Date open	Exp. Date	N[illegible]
A-49-01	Ti	IV	H-TI0110	997	7/8/93	7/2/93	8/1/94	
A-49-02	Cd	IV	1-CD-0143	996	7/8/93	7/8/93	8/1/94	
A-49-03	Fe	IV	1-FE0134	994	7/8/93	7/27/93	8/1/94	
A-49-04	Mn	IV	1-MN01359	1003	7/8/93	8/4/93	8/1/94	
A-49-05	Na	IV	1-NA0150	1001	7/8/93	8/2/93	8/1/94	
A-49-06	B	IV	H-B0133	998	7/8/93	8/4/93	8/1/94	
A-49-07	Fe	IV	1-FE0153	1003	7/8/93	9/1/93	8/1/94	
A-49-08	Pb	IV	1-PB0106	1005	7/8/93	7/8/93	8/1/94	
A-49-09	Sb	IV	1-SB0172	997	7/8/93	7/8/93	8/1/94	
A-49-10	Ca	IV	1-CA0147	10,024	7/8/93	7/21/93	8/1/94	
A-49-11	Mg	IV	1-MG0174	10,020	7/8/93	10/11/93	8/1/94	
A-49-12	Co	IV	H-CO0135	997	7/8/93	8/2/93	8/1/94	
A-49-13	Ba	IV	1-BA0152	1004	7/8/93	8/2/93	8/1/94	
A-49-14	Blind [illegible]	ERA	58001		7/16/93	7/31/93		[illegible]
A-49-15	Hg	IV	H-HG0155	1000	8/20/93	8/20/93	9/1/94	
A-49-16	[illegible]	SPEX	[illegible]	1,000	[illegible]	[illegible]	[illegible]	
A-49-17	[illegible]	PRC	2-135[illegible]	1,000	[illegible]	[illegible]	[illegible]	

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Lot No. LRI	Stnd. Type	Manufacturer	Lot # No.	Conc ppm	Date Received	Date Opened	Exp. Date	Notes
A-50-4	B	Spex	[illegible]	1,000	9/23/93	10/6/93	9/30/94	
A-50-01	Mg	Spex	[illegible]	1,000	9/23/93		9/30/94	
A-50-02	Hg	Spex	[illegible]	1,000	9/23/93	9/23/93	9/31/94	
A-50-04	Mo	Spex	[illegible]	1,000	9/23/93	[illegible]	9/31/94	
A-50-05	Se	Spex	3-79 [illegible]	1,000	9/23/93	10/1/93	9/31/94	
A-50-06	Ti	Spex	3-[illegible]	1,000	9/23/93	10/13/93	9/31/94	
A-50-07	V	Spex	3-[illegible]	1,000	9/23/93		9/31/94	
A-50-08	Al	Spex	[illegible]	10,000	9/23/93	10/[illegible]/93	9/30/94	
A-50-09	Fe	Spex	[illegible]	10,000	9/23/93	[illegible]	9/30/94	
A-50-10	Na	Spex	3-60[illegible]	1,000	9/23/93	10/[illegible]/93	9/30/94	
A-50-11	Ni	Spex	[illegible]	10,000	9/23/93	10/[illegible]/93	9/31/94	
A-50-12	S	Spex	3-[illegible]	1,000	9/23/93	11/16/93	9/31/94	Standard Confirm [illegible]
A-50-13	Sb	Spex	0-[illegible]	10,000	9/23/93	[illegible]	9/31/94	
A-50-14	Ag	I.V.	I-[illegible]	1,000	9/23/93	10/11/93	10/1/94	
A-50-15	Al	I.V.	I-[illegible]	10,000	9/23/93	10/11/93	10/1/94	
A-50-16	As	I.V.	I-[illegible]	999	9/23/93	10/11/93	10/1/94	
A-50-17	B	I.V.	I-[illegible]	1,000	9/23/93		10/1/94	

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DATE 10/19/93

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LOT # LRI	STD	Manufacturer	Lot No.	Conc. ppm	Date Rec.	Date Opened	Exp. Date
A-51-01	Bi	IV	I-BA0152	1,004	9/23/93		10/1/94
A-51-02	Be	IV	I-BE0133	1,002	9/23/93	11/11/93	10/1/94
A-51-03	Ga	IV	I-GA0103	999	9/23/93	10/1/93	10/1/94
A-51-04	Gf	IV	I-GA01095	1,00[illegible]	9/23/93	10/12/93	10/1/94
A-51-05	K	IV	I-K01095	9,959	9/23/93	11/10/93	10/1/94
A-51-06	Mg	IV	I-MG0173	1,002	9/23/93	10/1/93	10/1/94
A-51-07	Se	IV	I-SE0102	1,00[illegible]	9/23/93	[illegible]	10/1/94
A-51-08	Si	Spex	3-11-81	1000	10/28/93	11/10/93	11/12/93
A-51-09	Blank Sand	ERA	58007	—	4/1/93	1/10/94	
A-51-10	Blank Sand	ERA	58001	—	4/21/94		
A-51-11	Blank Sand	ERA	58007	—	4/21/94		
A-51-12	Al	IV	I-AL0[illegible]	1,000	2/22/94	3-1-94	3/1/95
A-51-13	Cu	IV	I-CU0[illegible]	999	2/22/94	3-1-94	3/1/95
A-51-14	Ni	IV	I-NI0[illegible]	1004	2/22/94	3-1-94	3/1/95
A-51-15	Ag	Spex	3-111Ag	1,000	2/28/94	2/28/94	2/25/95
A-51-16	Ca	Spex	3-150Ca	1000	2/28/94		2/28/95
A-51-17	Cd	Spex	3-[illegible]	1000	2/28/94	2/28/94	2/28/95

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BOOK NO.

Lot # LRI	STD	Manufacturer	Lot No.	Conc PPM	Date Recd	Date Opened	Exp Date	Notes
A-52-01	Co	Spex	3-100Co	1000	2/28/94	2/28/94	2/28/95	
A-52-02	Ti	Spex	3-38Ti	1000	2/28/94	2/28/94	2/28/95	
A-52-03	Cu	Spex	3-78Cu	1000	2/28/94	2/28/94	2/28/95	
A-52-04	Sb	Spex	3-86Sb	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Mn	Spex	3-112Mn	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Blank Sand	ERA	58001	—	1/27/94	3/2/94	NA	
A-52-06	Tl	Spex	4-3Tl	1,000	3/22/94	3/22/94	3/31/98	
A-52-07	Al	I.V.	I-ALO2/3	10,047	4/20/94	6/20/94	5/1/95	
A-52-08	Ca	I.V.	I-CAO1114	10,002	4/20/94	6/20/94	5/1/95	
A-52-09	Mg	I.V.	I-MgO1114	10,055	4/20/94	6/13/94	5/1/95	
A-52-10	Si	Spex	6-37Si	10,000	5/6/94		4/30/95	
A-52-11	Ca	Spex	11-12Ca	10,000	5/6/94	6/1/94	4/30/95	
A-52-12	Mg	Spex	11-51Mg	10,000	5/6/94		4/30/95	
A-52-13	BLANK SAND	ERA	58001	—	4/94	6/9/94	—	
A-52-14	K	Spex	1-06K	10,000	6/23/94	6/23/94	6/30/95	
A-52-15	Al	Spex	2-17Al	1,000	6/23/94		6/30/95	
A-52-16	Si	Spex	4-52Si	1,000	6/23/94		6/30/95	

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

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Lot # LRI	STD	Mfg. Factor	Lot No.	Conc. PPM	Date Rec'd	Date Open.	Exp. Date	Note
A-53-01	Zn	Spex	4-34ZN	1,000	6/23/94	7/14/94	6/30/95	
A-53-02	Mg	Spex	3-17OMG	1,000	6/23/94		6/30/95	
A-053-03	V	Spex	4-10V	1,000	6/23/94	7/14/94	6/30/95	
A-053-04	Se	Spex	4-43SE	1,000	6/23/94	7/12/94	6/30/95	
A-053-05	Fe	Spex	4-25FE	1,000	6/23/94	7/14/94	6/30/95	
A-053-06	Sn	Spex	3-50SN	1,000	6/23/94	7/14/94	6/30/95	
A-053-07	Cr	Spex	3-24CR	1,000	6/23/94	7/14/94	6/30/95	
A-053-08	Be	Spex	4-4BE	1,000	6/23/94	7/14/94	6/30/95	
A-053-09	Ti	Spex	4-22TI	1,000	6/23/94	7/14/94	6/30/95	
A-053-10	B	Spex	3-13B	1,000	6/23/94	7/14/94	6/30/95	
A-053-11	Mo	Spex	3-42MO	1,000	6/23/94	7/14/94	6/30/95	
A-53-12	Ni	Spex	4-28NI	1,000	6/23/94	7/14/94	6/30/95	
A-53-13	Pb	Spex	4-9PB	1,000	6/23/94	7/14/94	6/30/95	
A-53-14	Ba	Spex	3-16BA	1,000	6/23/94	7/17/94	6/30/95	
A-53-15	Blank Sand	ERA	58001	—	5/94	6/28/94		
A-53-16	Ca	Spex	I-20CA	10,000	6/26/94	7/14/94	6/30/95	

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

ELEMENT Pb
WAVE LENGTH 283.3
INSTR.NO. PE 5100 # 3
LAMP NO. EDL 10806
LAMP ENERGY 63
ID/WT FILE CUPTdW
DATA FILE PB0816Z
~~MDL~~, ppb IDL (0.4 ppb)

DATE 08/16/94
TIME 14:34
SHIFT Day
ANALYST RS
SUPERVISOR
BATCH NO. 895
RAW DATA w/: 895

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
ICV-1	01	1D		1D	42.29			105.7%
ICB-1	02				-0.02			
CCV-1-1	03				39.87			99.7%
CCB-1-1	04				-0.27			
CRA-1	05				3.16			
PBW-895	06				1.05			
PBWA-895	07				6.63	93.0%		
LCSW-895	08				42.32			105.8%
LCSWA-895	09				46.11	63.2%		
0810307	10				3.89			
0810307A	11				9.62	45.5%		
PBS-895	12				0.89			
PBSA-895	13				6.56	94.5%		
CCV-1-2	14				40.64			101.6%
CCB-1-2	15				-0.07			
LCSS-895	16				20.21			101.0%
LCSSA-895	17				25.30	84.8%		
0810301	18				7.37			
0810301A	19				12.86	91.5%		
0810301D	20				10.19			
0810301DA	21				15.71	110.4%		
0810301S	22				27.09			98.6%
0810302	23				50.03		} Needs MSA	
0810302A	24				53.96	65.5%	}	
CCV-1-3	25				41.14			102.8%

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

ELEMENT Pb

DATE 08/16/94

ANALYST RS

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
CCB-1-3	26	1D		1D	-0.51			
0810303	27	1D	5D	5D	101.25	} Rerun with dilution		
0810303A	28	↓	↓	↓	107.54	}		
0810304	29	1D		1D	15.84			
0810304A	30				21.14	88.3%		
0810305	31				68.03		} Needs	MSA
0810305A	32				71.30	54.5%	}	
0810306	33				7.03			
0810306A	34				13.25	103.7%		
CCV-1-4	35				39.94			99.8%
CCB-1-4	36				0.09			
END RUN	37	↓		↓	52.84			
CRA/STD① 3 ppb	35	FU-A-	0413-03					
STD② 25 "	36	FU-A-	0414-01					
STD③ 50 "	37	FU-A-	0414-01					
STD④ 75 "	38	FU-A-	0414-01					
High Std 100 "	39	FU-A-	0138-03					
Modifier	40							

Standard Name	Cup	Conc.	Lot No.
ICV/CCV	1st run	40 ppb	FU-A-0128-03
ICB/CCB	↓	0 "	FU-A-0227-02
Spiking soln	—	600 "	FU-A-0414-02

ANALYST SIGNATURE: Rani Swamy

SUPERVISOR SIGNATURE:

Element File: PBCLP.GEL Element: Pb Wavelength: 283.3
Date: 08/16/94 Time: 14:35 Slit: 0.7 L
ata File: PB0816Z.DAT ID/Wt File: CLP.IDW Lamp Current: 0
echnique: HGA Calib. Type: Linear Energy: 63
Remark 1: ANALYST:RS
emark 2: BATCH#895
emark 3: PB ANALYSIS
Remark 4: PE5100#3
Remark 5: STD PREP DATE:08-16-94

Pb ID: BLANK Seq. No.: 00104 A/S Pos.: 0 Date: 08/16/94

dispensed: 5 from 40, 20 from 0
Replicate 1 Time: 14:37
eak Area (A-s): -0.001 Peak Height (A): 0.010
ackground Pk Area (A-s): 0.057 Background Pk Height (A): 0.069
lank Corrected Pk Area (A-s): -0.001

dispensed: 5 from 40, 20 from 0
plicate 2 Time: 14:40
Peak Area (A-s): 0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.057 Background Pk Height (A): 0.069
lank Corrected Pk Area (A-s): 0.003

ean Pk Area (A-s): 0.001 SD: 0.0023 RSD(%): 249.46

uto-zero performed.

Pb ID: STANDARD1 Seq. No.: 00105 A/S Pos.: 35 Date: 08/16/94

L dispensed: 5 from 40, 20 from 35
Replicate 1 Time: 14:43
Peak Area (A-s): 0.024 Peak Height (A): 0.023
ackground Pk Area (A-s): 0.067 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.023

L dispensed: 5 from 40, 20 from 35
Replicate 2 Time: 14:45
Peak Area (A-s): 0.025 Peak Height (A): 0.023
ackground Pk Area (A-s): 0.069 Background Pk Height (A): 0.068

lank Corrected Pk Area (A-s): 0.024

ean Pk Area (A-s): 0.024 SD: 0.0005 RSD(%): 2.25

Standard number 1 applied. [3.00]
Correlation coefficient: 1.00000 Slope: 0.0079

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Pb ID: STANDARD2 Seq. No.: 00106 A/S Pos.: 36 Date: 08/16/94

. dispensed: 5 from 40, 20 from 36
Replicate 1 Time: 14:48
Peak Area (A-s): 0.198 Peak Height (A): 0.166
ackground Pk Area (A-s): 0.103 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.197
Concentration (ug/L): 25.02

. dispensed: 5 from 40, 20 from 36
Replicate 2 Time: 14:51
eak Area (A-s): 0.204 Peak Height (A): 0.171
ackground Pk Area (A-s): 0.110 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.203
Concentration (ug/L): 25.78

Mean Conc (ug/L): 25.40 SD: 0.535 RSD(%): 2.11

tandard number 2 applied. [25.00]
orrelation coefficient: 1.00000 Slope: 0.0080

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b ID: STANDARD3 Seq. No.: 00107 A/S Pos.: 37 Date: 08/16/94

L dispensed: 5 from 40, 20 from 37
eplicate 1 Time: 14:53
Peak Area (A-s): 0.381 Peak Height (A): 0.307
Background Pk Area (A-s): 0.151 Background Pk Height (A): 0.076
ank Corrected Pk Area (A-s): 0.380
oncentration (ug/L): 47.53

. dispensed: 5 from 40, 20 from 37
eplicate 2 Time: 14:56
Peak Area (A-s): 0.385 Peak Height (A): 0.315
Background Pk Area (A-s): 0.146 Background Pk Height (A): 0.082
ank Corrected Pk Area (A-s): 0.384
oncentration (ug/L): 48.02

tandard number 3 applied. [50.00]
orrelation coefficient: 0.99951 Slope: 0.0077

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b ID: STANDARD4 Seq. No.: 00108 A/S Pos.: 38 Date: 08/16/94

L dispensed: 5 from 40, 20 from 38
eplicate 1 Time: 14:59
Peak Area (A-s): 0.556 Peak Height (A): 0.429
Background Pk Area (A-s): 0.182 Background Pk Height (A): 0.098
lank Corrected Pk Area (A-s): 0.555

oncentration (ug/L): 71.94

. dispensed: 5 from 40, 20 from 38
eplicate 2 Time: 15:02
Peak Area (A-s): 0.565 Peak Height (A): 0.415
ckground Pk Area (A-s): 0.183 Background Pk Height (A): 0.095
ank Corrected Pk Area (A-s): 0.564
oncentration (ug/L): 73.11

ean Conc (ug/L): 72.52 SD: 0.830 RSD(%): 1.14

Standard number 4 applied. [75.00]
orrelation coefficient: 0.99942 Slope: 0.0075

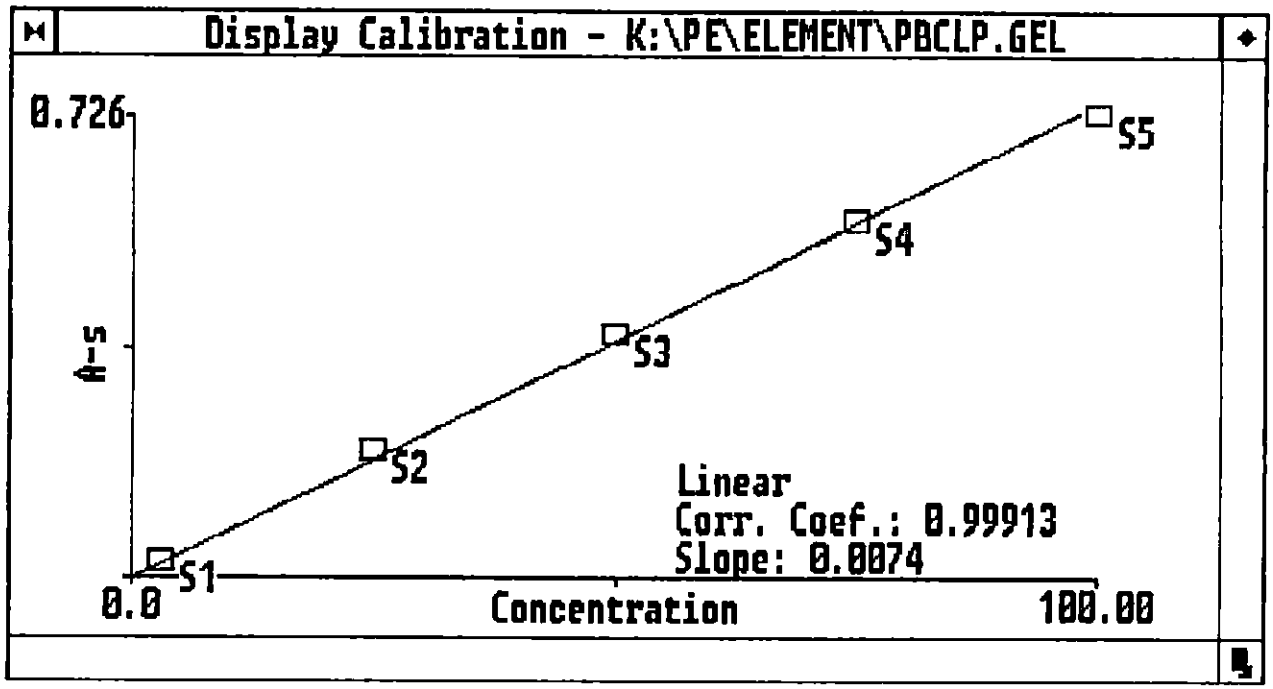
) ID: STANDARD5 Seq. No.: 00109 A/S Pos.: 39 Date: 08/16/94

L dispensed: 5 from 40, 20 from 39
Replicate 1 Time: 15:04
ak Area (A-s): 0.731 Peak Height (A): 0.553
ckground Pk Area (A-s): 0.228 Background Pk Height (A): 0.131
Blank Corrected Pk Area (A-s): 0.730
ncentration (ug/L): 96.66

L dispensed: 5 from 40, 20 from 39
plicate 2 Time: 15:07
ak Area (A-s): 0.724 Peak Height (A): 0.569
ckground Pk Area (A-s): 0.229 Background Pk Height (A): 0.134
Blank Corrected Pk Area (A-s): 0.723
ncentration (ug/L): 95.73

Mean Conc (ug/L): 96.20 SD: 0.657 RSD(%): 0.68

andard number 5 applied. [100.00]
orrelation coefficient: 0.99913 Slope: 0.0074



ID: ICV-1 Seq. No.: 00110 A/S Pos.: 1 Date: 08/16/94

dispensed: 5 from 40, 20 from 1
eplicate 1 Time: 15:12
Peak Area (A-s): 0.314 Peak Height (A): 0.241
ackground Pk Area (A-s): 0.142 Background Pk Height (A): 0.080
ank Corrected Pk Area (A-s): 0.313
Concentration (ug/L): 42.25 Corrected Conc (ug/L): 42.25

dispensed: 5 from 40, 20 from 1
eplicate 2 Time: 15:14
Peak Area (A-s): 0.314 Peak Height (A): 0.245
ckground Pk Area (A-s): 0.153 Background Pk Height (A): 0.081
ank Corrected Pk Area (A-s): 0.313
Concentration (ug/L): 42.32 Corrected Conc (ug/L): 42.32

an Conc (ug/L): 42.29 SD: 0.046 RSD(%): 0.11
Corrected Conc (ug/L): 42.29

Pb ID: ICB-1 Seq. No.: 00111 A/S Pos.: 2 Date: 08/16/94

L dispensed: 5 from 40, 20 from 2
Replicate 1 Time: 15:17
eak Area (A-s): 0.002 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.070 Background Pk Height (A): 0.076
lank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.09 Corrected Conc (ug/L): 0.09

L dispensed: 5 from 40, 20 from 2
Replicate 2 Time: 15:20
eak Area (A-s): -0.000 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.083 Background Pk Height (A): 0.083

lank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.13 Corrected Conc (ug/L): -0.13

ean Conc (ug/L): -0.02 SD: 0.155 RSD(%): 651.89
Corrected Conc (ug/L): -0.02

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b ID: CCV-1-1 Seq. No.: 00112 A/S Pos.: 3 Date: 08/16/94

L dispensed: 5 from 40, 20 from 3
eplicate 1 Time: 15:22
Peak Area (A-s): 0.293 Peak Height (A): 0.231
ackground Pk Area (A-s): 0.143 Background Pk Height (A): 0.084
lank Corrected Pk Area (A-s): 0.292
Concentration (ug/L): 39.46 Corrected Conc (ug/L): 39.46

dispensed: 5 from 40, 20 from 3
eplicate 2 Time: 15:25
Peak Area (A-s): 0.299 Peak Height (A): 0.229
ackground Pk Area (A-s): 0.158 Background Pk Height (A): 0.089
lank Corrected Pk Area (A-s): 0.298
Concentration (ug/L): 40.28 Corrected Conc (ug/L): 40.28

ean Conc (ug/L): 39.87 SD: 0.577 RSD(%): 1.45
orrected Conc (ug/L): 39.87

ID: CCB-1-1 Seq. No.: 00113 A/S Pos.: 4 Date: 08/16/94

dispensed: 5 from 40, 20 from 4
eplicate 1 Time: 15:28
eak Area (A-s): -0.000 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.084 Background Pk Height (A): 0.081
lank Corrected Pk Area (A-s): -0.001
oncentration (ug/L): -0.18 Corrected Conc (ug/L): -0.18

dispensed: 5 from 40, 20 from 4
eplicate 2 Time: 15:31
Peak Area (A-s): -0.002 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.096 Background Pk Height (A): 0.089
ank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.35 Corrected Conc (ug/L): -0.35

ean Conc (ug/L): -0.27 SD: 0.120 RSD(%): 44.88
orrected Conc (ug/L): -0.27

Pb ID: CRA-1 Seq. No.: 00114 A/S Pos.: 5 Date: 08/16/94

dispensed: 5 from 40, 20 from 5
Replicate 1 Time: 15:34
Peak Area (A-s): 0.023 Peak Height (A): 0.021
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 3.04 Corrected Conc (ug/L): 3.04

dispensed: 5 from 40, 20 from 5
Replicate 2 Time: 15:36
Peak Area (A-s): 0.025 Peak Height (A): 0.021

Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 3.29 Corrected Conc (ug/L): 3.29

Mean Conc (ug/L): 3.16 SD: 0.175 RSD(%): 5.52
Corrected Conc (ug/L): 3.16

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Pb ID: PBW-895 Seq. No.: 00115 A/S Pos.: 6 Date: 08/16/94

dispensed: 5 from 40, 20 from 6
Replicate 1 Time: 15:39
Peak Area (A-s): 0.009 Peak Height (A): 0.011
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.04 Corrected Conc (ug/L): 1.04

dispensed: 5 from 40, 20 from 6
Replicate 2 Time: 15:42
Peak Area (A-s): 0.009 Peak Height (A): 0.013
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.07 Corrected Conc (ug/L): 1.07

Mean Conc (ug/L): 1.05 SD: 0.020 RSD(%): 1.95
Corrected Conc (ug/L): 1.05

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Pb ID: PBWA-895 Seq. No.: 00116 A/S Pos.: 7 Date: 08/16/94

dispensed: 5 from 40, 20 from 7
Replicate 1 Time: 15:45
Peak Area (A-s): 0.050 Peak Height (A): 0.041
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 6.59 Corrected Conc (ug/L): 6.59

dispensed: 5 from 40, 20 from 7
Replicate 2 Time: 15:48
Peak Area (A-s): 0.050 Peak Height (A): 0.043
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 6.67 Corrected Conc (ug/L): 6.67

Mean Conc (ug/L): 6.63 SD: 0.057 RSD(%): 0.86
Corrected Conc (ug/L): 6.63

b ID: LCSW-895 Seq. No.: 00117 A/S Pos.: 8 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 8
eplicate 1 Time: 15:50
eak Area (A-s): 0.313 Peak Height (A): 0.246
ackground Pk Area (A-s): 0.149 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.312
oncentration (ug/L): 42.22 Corrected Conc (ug/L): 42.22

uL dispensed: 5 from 40, 20 from 8
eplicate 2 Time: 15:53

eak Area (A-s): 0.315 Peak Height (A): 0.249
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.082
lank Corrected Pk Area (A-s): 0.314
oncentration (ug/L): 42.41 Corrected Conc (ug/L): 42.41

ean Conc (ug/L): 42.32 SD: 0.135 RSD(%): 0.32
orrected Conc (ug/L): 42.32

ID: LCSWA-895 Seq. No.: 00118 A/S Pos.: 9 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 9
eplicate 1 Time: 15:56
eak Area (A-s): 0.340 Peak Height (A): 0.247
ackground Pk Area (A-s): 0.162 Background Pk Height (A): 0.087
lank Corrected Pk Area (A-s): 0.339
oncentration (ug/L): 45.82 Corrected Conc (ug/L): 45.82

uL dispensed: 5 from 40, 20 from 9
eplicate 2 Time: 15:59
eak Area (A-s): 0.344 Peak Height (A): 0.238
Background Pk Area (A-s): 0.168 Background Pk Height (A): 0.087
lank Corrected Pk Area (A-s): 0.343
oncentration (ug/L): 46.40 Corrected Conc (ug/L): 46.40

Mean Conc (ug/L): 46.11 SD: 0.410 RSD(%): 0.89
orrected Conc (ug/L): 46.11

ID: 0810307 Seq. No.: 00119 A/S Pos.: 10 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 10
eplicate 1 Time: 16:02
eak Area (A-s): 0.031 Peak Height (A): 0.030
ackground Pk Area (A-s): 0.118 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.030
oncentration (ug/L): 4.03 Corrected Conc (ug/L): 4.03

uL dispensed: 5 from 40, 20 from 10
eplicate 2 Time: 16:04
eak Area (A-s): 0.029 Peak Height (A): 0.030
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.028
oncentration (ug/L): 3.75 Corrected Conc (ug/L): 3.75

Mean Conc (ug/L): 3.89 SD: 0.200 RSD(%): 5.15

b ID: 0810307A Seq. No.: 00120 A/S Pos.: 11 Date: 08/16/94

L dispensed: 5 from 40, 20 from 11
eplicate 1 Time: 16:07
eak Area (A-s): 0.073 Peak Height (A): 0.059
ackground Pk Area (A-s): 0.119 Background Pk Height (A): 0.088
lank Corrected Pk Area (A-s): 0.072
oncentration (ug/L): 9.76 Corrected Conc (ug/L): 9.76

dispensed: 5 from 40, 20 from 11

eplicate 2 Time: 16:10
Peak Area (A-s): 0.071 Peak Height (A): 0.060
ackground Pk Area (A-s): 0.131 Background Pk Height (A): 0.091
lank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 9.48 Corrected Conc (ug/L): 9.48

ean Conc (ug/L): 9.62 SD: 0.196 RSD(%): 2.04
orrected Conc (ug/L): 9.62

ID: PBS-895 Seq. No.: 00121 A/S Pos.: 12 Date: 08/16/94

dispensed: 5 from 40, 20 from 12
eplicate 1 Time: 16:12
Peak Area (A-s): 0.008 Peak Height (A): 0.011
ckground Pk Area (A-s): 0.099 Background Pk Height (A): 0.083
ank Corrected Pk Area (A-s): 0.007
oncentration (ug/L): 0.94 Corrected Conc (ug/L): 0.94

dispensed: 5 from 40, 20 from 12
plicate 2 Time: 16:15
Peak Area (A-s): 0.007 Peak Height (A): 0.011
ckground Pk Area (A-s): 0.097 Background Pk Height (A): 0.080
ank Corrected Pk Area (A-s): 0.006
oncentration (ug/L): 0.84 Corrected Conc (ug/L): 0.84

an Conc (ug/L): 0.89 SD: 0.075 RSD(%): 8.45
orrected Conc (ug/L): 0.89

ID: PBSA-895 Seq. No.: 00122 A/S Pos.: 13 Date: 08/16/94

dispensed: 5 from 40, 20 from 13
plicate 1 Time: 16:18
eak Area (A-s): 0.051 Peak Height (A): 0.041
Background Pk Area (A-s): 0.110 Background Pk Height (A): 0.083
ank Corrected Pk Area (A-s): 0.050
ncentration (ug/L): 6.71 Corrected Conc (ug/L): 6.71

dispensed: 5 from 40, 20 from 13
plicate 2 Time: 16:21
Peak Area (A-s): 0.048 Peak Height (A): 0.041
ckground Pk Area (A-s): 0.114 Background Pk Height (A): 0.084
ank Corrected Pk Area (A-s): 0.047
oncentration (ug/L): 6.40 Corrected Conc (ug/L): 6.40

Corrected Conc (ug/L): 6.56

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Pb ID: CCV-1-2 Seq. No.: 00123 A/S Pos.: 14 Date: 08/16/94

L dispensed: 5 from 40, 20 from 14
Replicate 1 Time: 16:23
Peak Area (A-s): 0.303 Peak Height (A): 0.241
Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.302
Concentration (ug/L): 40.86 Corrected Conc (ug/L): 40.86

L dispensed: 5 from 40, 20 from 14
Replicate 2 Time: 16:26
Peak Area (A-s): 0.300 Peak Height (A): 0.235
Background Pk Area (A-s): 0.182 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.299
Concentration (ug/L): 40.43 Corrected Conc (ug/L): 40.43

Mean Conc (ug/L): 40.64 SD: 0.300 RSD(%): 0.74
Corrected Conc (ug/L): 40.64

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Pb ID: CCB-1-2 Seq. No.: 00124 A/S Pos.: 15 Date: 08/16/94

dispensed: 5 from 40, 20 from 15
Replicate 1 Time: 16:29
Peak Area (A-s): 0.000 Peak Height (A): 0.006
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.08 Corrected Conc (ug/L): -0.08

dispensed: 5 from 40, 20 from 15
Replicate 2 Time: 16:31
Peak Area (A-s): 0.000 Peak Height (A): 0.006
Background Pk Area (A-s): 0.128 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.07 Corrected Conc (ug/L): -0.07

Mean Conc (ug/L): -0.07 SD: 0.009 RSD(%): 11.57
Corrected Conc (ug/L): -0.07

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Pb ID: LCSS-895 Seq. No.: 00125 A/S Pos.: 16 Date: 08/16/94

dispensed: 5 from 40, 20 from 16
Replicate 1 Time: 16:34
Peak Area (A-s): 0.150 Peak Height (A): 0.122
Background Pk Area (A-s): 0.126 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.149
Concentration (ug/L): 20.17 Corrected Conc (ug/L): 20.17

dispensed: 5 from 40, 20 from 16
Replicate 2 Time: 16:37
Peak Area (A-s): 0.151 Peak Height (A): 0.120
Background Pk Area (A-s): 0.128 Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.150
Concentration (ug/L): 20.24 Corrected Conc (ug/L): 20.24
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Mean Conc (ug/L): 20.21 SD: 0.049 RSD(%): 0.24
Corrected Conc (ug/L): 20.21

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b ID: LCSSA-895 Seq. No.: 00126 A/S Pos.: 17 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 17
eplicate 1 Time: 16:39
eak Area (A-s): 0.187 Peak Height (A): 0.137
ackground Pk Area (A-s): 0.122 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.187
oncentration (ug/L): 25.22 Corrected Conc (ug/L): 25.22

uL dispensed: 5 from 40, 20 from 17
Replicate 2 Time: 16:42
eak Area (A-s): 0.189 Peak Height (A): 0.136
ackground Pk Area (A-s): 0.137 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.188
oncentration (ug/L): 25.37 Corrected Conc (ug/L): 25.37

Mean Conc (ug/L): 25.30 SD: 0.112 RSD(%): 0.44
Corrected Conc (ug/L): 25.30

Pb ID: 0810301 Seq. No.: 00127 A/S Pos.: 18 Date: 08/16/94

L dispensed: 5 from 40, 20 from 18
Replicate 1 Time: 16:44
eak Area (A-s): 0.054 Peak Height (A): 0.050
ackground Pk Area (A-s): 0.166 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 7.23 Corrected Conc (ug/L): 7.23

. dispensed: 5 from 40, 20 from 18
Replicate 2 Time: 16:47
eak Area (A-s): 0.056 Peak Height (A): 0.050
ackground Pk Area (A-s): 0.156 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.056
oncentration (ug/L): 7.50 Corrected Conc (ug/L): 7.50

ean Conc (ug/L): 7.37 SD: 0.194 RSD(%): 2.64
Corrected Conc (ug/L): 7.37

Pb ID: 0810301A Seq. No.: 00128 A/S Pos.: 19 Date: 08/16/94

L dispensed: 5 from 40, 20 from 19
Replicate 1 Time: 16:50
Peak Area (A-s): 0.096 Peak Height (A): 0.073
ackground Pk Area (A-s): 0.174 Background Pk Height (A): 0.084
lank Corrected Pk Area (A-s): 0.095
Concentration (ug/L): 12.82 Corrected Conc (ug/L): 12.82

L dispensed: 5 from 40, 20 from 19
Replicate 2 Time: 16:52
eak Area (A-s): 0.096 Peak Height (A): 0.073
ackground Pk Area (A-s): 0.168 Background Pk Height (A): 0.086
lank Corrected Pk Area (A-s): 0.095

Mean Conc (ug/L): 12.86 SD: 0.055 RSD(%): 0.43
Corrected Conc (ug/L): 12.86

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b ID: 0810301D Seq. No.: 00129 A/S Pos.: 20 Date: 08/16/94

µL dispensed: 5 from 40, 20 from 20
Replicate 1 Time: 16:55
Peak Area (A-s): 0.077 Peak Height (A): 0.066
Background Pk Area (A-s): 0.184 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.076
Concentration (ug/L): 10.30 Corrected Conc (ug/L): 10.30

µL dispensed: 5 from 40, 20 from 20
Replicate 2 Time: 16:58
Peak Area (A-s): 0.076 Peak Height (A): 0.063
Background Pk Area (A-s): 0.187 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 10.08 Corrected Conc (ug/L): 10.08

Mean Conc (ug/L): 10.19 SD: 0.151 RSD(%): 1.48
Corrected Conc (ug/L): 10.19

Pb ID: 0810301DA Seq. No.: 00130 A/S Pos.: 21 Date: 08/16/94

µL dispensed: 5 from 40, 20 from 21
Replicate 1 Time: 17:01
Peak Area (A-s): 0.116 Peak Height (A): 0.089
Background Pk Area (A-s): 0.205 Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 15.55 Corrected Conc (ug/L): 15.55

µL dispensed: 5 from 40, 20 from 21
Replicate 2 Time: 17:03
Peak Area (A-s): 0.118 Peak Height (A): 0.087
Background Pk Area (A-s): 0.199 Background Pk Height (A): 0.098
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L): 15.87 Corrected Conc (ug/L): 15.87

Mean Conc (ug/L): 15.71 SD: 0.227 RSD(%): 1.44
Corrected Conc (ug/L): 15.71

Pb ID: 0810301S Seq. No.: 00131 A/S Pos.: 22 Date: 08/16/94

µL dispensed: 5 from 40, 20 from 22
Replicate 1 Time: 17:06
Peak Area (A-s): 0.201 Peak Height (A): 0.164
Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 27.06 Corrected Conc (ug/L): 27.06

µL dispensed: 5 from 40, 20 from 22
Replicate 2 Time: 17:09
Peak Area (A-s): 0.202 Peak Height (A): 0.158
Background Pk Area (A-s): 0.201 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.201

Mean Conc (ug/L): 27.09 SD: 0.042 RSD(%): 0.15
Corrected Conc (ug/L): 27.09

Pb ID: 0810302 Seq. No.: 00132 A/S Pos.: 23 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 23
Replicate 1 Time: 17:11
Peak Area (A-s): 0.373 Peak Height (A): 0.292
Background Pk Area (A-s): 0.574 Background Pk Height (A): 0.151
Blank Corrected Pk Area (A-s): 0.372
Concentration (ug/L): 50.30 Corrected Conc (ug/L): 50.30

uL dispensed: 5 from 40, 20 from 23
Replicate 2 Time: 17:14
Peak Area (A-s): 0.369 Peak Height (A): 0.287
Background Pk Area (A-s): 0.600 Background Pk Height (A): 0.158
Blank Corrected Pk Area (A-s): 0.368
Concentration (ug/L): 49.77 Corrected Conc (ug/L): 49.77

Mean Conc (ug/L): 50.03 SD: 0.371 RSD(%): 0.74
Corrected Conc (ug/L): 50.03

Pb ID: 0810302A Seq. No.: 00133 A/S Pos.: 24 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 24
Replicate 1 Time: 17:17
Peak Area (A-s): 0.400 Peak Height (A): 0.284
Background Pk Area (A-s): 0.604 Background Pk Height (A): 0.164
Blank Corrected Pk Area (A-s): 0.399
Concentration (ug/L): 53.88 Corrected Conc (ug/L): 53.88

uL dispensed: 5 from 40, 20 from 24
Replicate 2 Time: 17:20
Peak Area (A-s): 0.401 Peak Height (A): 0.286
Background Pk Area (A-s): 0.604 Background Pk Height (A): 0.162
Blank Corrected Pk Area (A-s): 0.400
Concentration (ug/L): 54.05 Corrected Conc (ug/L): 54.05

Mean Conc (ug/L): 53.96 SD: 0.114 RSD(%): 0.21
Corrected Conc (ug/L): 53.96

Pb ID: CCV-1-3 Seq. No.: 00134 A/S Pos.: 25 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 25
Replicate 1 Time: 17:23
Peak Area (A-s): 0.303 Peak Height (A): 0.230
Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.097
Blank Corrected Pk Area (A-s): 0.302
Concentration (ug/L): 40.87 Corrected Conc (ug/L): 40.87

uL dispensed: 5 from 40, 20 from 25
Replicate 2 Time: 17:25
Peak Area (A-s): 0.307 Peak Height (A): 0.232
Background Pk Area (A-s): 0.166 Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.306
Concentration (ug/L): 41.41 Corrected Conc (ug/L): 41.41

Mean Conc (ug/L): 41.14 SD: 0.385 RSD(%): 0.94
Corrected Conc (ug/L): 41.14

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b ID: CCB-1-3 Seq. No.: 00135 A/S Pos.: 26 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 26
eplicate 1 Time: 17:28
eak Area (A-s): -0.003 Peak Height (A): 0.005
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): -0.004
oncentration (ug/L): -0.51 Corrected Conc (ug/L): -0.51

uL dispensed: 5 from 40, 20 from 26
Replicate 2 Time: 17:31
eak Area (A-s): -0.003 Peak Height (A): 0.007
ackground Pk Area (A-s): 0.107 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): -0.004
oncentration (ug/L): -0.51 Corrected Conc (ug/L): -0.51

Mean Conc (ug/L): -0.51 SD: 0.006 RSD(%): 1.13
Corrected Conc (ug/L): -0.51

Pb ID: 0810303 Seq. No.: 00136 A/S Pos.: 27 Date: 08/16/94

L dispensed: 5 from 40, 20 from 27
Replicate 1 Time: 17:34
eak Area (A-s): 0.747 Peak Height (A): 0.510
ackground Pk Area (A-s): 0.310 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.746
Concentration (ug/L): 100.87 Corrected Conc (ug/L): 100.87

dispensed: 5 from 40, 20 from 27
Replicate 2 Time: 17:37
eak Area (A-s): 0.753 Peak Height (A): 0.505
ackground Pk Area (A-s): 0.318 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.752
oncentration (ug/L): 101.63 Corrected Conc (ug/L): 101.63

ean Conc (ug/L): 101.25 SD: 0.540 RSD(%): 0.53
Corrected Conc (ug/L): 101.25

Pb ID: 0810303A Seq. No.: 00137 A/S Pos.: 28 Date: 08/16/94

L dispensed: 5 from 40, 20 from 28
Replicate 1 Time: 17:39
Peak Area (A-s): 0.794 Peak Height (A): 0.525
ackground Pk Area (A-s): 0.318 Background Pk Height (A): 0.129
lank Corrected Pk Area (A-s): 0.793
Concentration (ug/L): 107.21 Corrected Conc (ug/L): 107.21

L dispensed: 5 from 40, 20 from 28
Replicate 2 Time: 17:42
eak Area (A-s): 0.799 Peak Height (A): 0.523
ckground Pk Area (A-s): 0.320 Background Pk Height (A): 0.130
Blank Corrected Pk Area (A-s): 0.798

Mean Conc (ug/L): 107.54 SD: 0.465 RSD(%): 0.43
Corrected Conc (ug/L): 107.54

Pb ID: 0810304 Seq. No.: 00138 A/S Pos.: 29 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 29
Replicate 1 Time: 17:45
Peak Area (A-s): 0.119 Peak Height (A): 0.092
Background Pk Area (A-s): 0.200 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 15.98 Corrected Conc (ug/L): 15.98

dispensed: 5 from 40, 20 from 29
Replicate 2 Time: 17:48
Peak Area (A-s): 0.117 Peak Height (A): 0.092
Background Pk Area (A-s): 0.220 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 15.69 Corrected Conc (ug/L): 15.69

Mean Conc (ug/L): 15.84 SD: 0.202 RSD(%): 1.28
Corrected Conc (ug/L): 15.84

Pb ID: 0810304A Seq. No.: 00139 A/S Pos.: 30 Date: 08/16/94

dispensed: 5 from 40, 20 from 30
Replicate 1 Time: 17:50
Peak Area (A-s): 0.157 Peak Height (A): 0.109
Background Pk Area (A-s): 0.223 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 21.09 Corrected Conc (ug/L): 21.09

dispensed: 5 from 40, 20 from 30
Replicate 2 Time: 17:53
Peak Area (A-s): 0.158 Peak Height (A): 0.112
Background Pk Area (A-s): 0.207 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 21.19 Corrected Conc (ug/L): 21.19

Mean Conc (ug/L): 21.14 SD: 0.073 RSD(%): 0.35
Corrected Conc (ug/L): 21.14

Pb ID: 0810305 Seq. No.: 00140 A/S Pos.: 31 Date: 08/16/94

dispensed: 5 from 40, 20 from 31
Replicate 1 Time: 17:56
Peak Area (A-s): 0.504 Peak Height (A): 0.364
Background Pk Area (A-s): 0.626 Background Pk Height (A): 0.166
Blank Corrected Pk Area (A-s): 0.503
Concentration (ug/L): 68.03 Corrected Conc (ug/L): 68.03

dispensed: 5 from 40, 20 from 31
Replicate 2 Time: 17:58
Peak Area (A-s): 0.504 Peak Height (A): 0.367
Background Pk Area (A-s): 0.618 Background Pk Height (A): 0.161
Blank Corrected Pk Area (A-s): 0.503
Concentration (ug/L): 68.04 Corrected Conc (ug/L): 68.04

Mean Conc (ug/L): 68.03 SD: 0.004 RSD(%): 0.01
Corrected Conc (ug/L): 68.03

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b ID: 0810305A Seq. No.: 00141 A/S Pos.: 32 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 32
Replicate 1 Time: 18:01
eak Area (A-s): 0.530 Peak Height (A): 0.362
background Pk Area (A-s): 0.595 Background Pk Height (A): 0.156
Blank Corrected Pk Area (A-s): 0.529
oncentration (ug/L): 71.56 Corrected Conc (ug/L): 71.56

L dispensed: 5 from 40, 20 from 32
Replicate 2 Time: 18:04
eak Area (A-s): 0.526 Peak Height (A): 0.366
ackground Pk Area (A-s): 0.595 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.526
oncentration (ug/L): 71.03 Corrected Conc (ug/L): 71.03

ean Conc (ug/L): 71.30 SD: 0.374 RSD(%): 0.52
Corrected Conc (ug/L): 71.30

Pb ID: 0810306 Seq. No.: 00142 A/S Pos.: 33 Date: 08/16/94

. dispensed: 5 from 40, 20 from 33
Replicate 1 Time: 18:06
eak Area (A-s): 0.052 Peak Height (A): 0.046
ackground Pk Area (A-s): 0.134 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 6.94 Corrected Conc (ug/L): 6.94

. dispensed: 5 from 40, 20 from 33
Replicate 2 Time: 18:09
eak Area (A-s): 0.054 Peak Height (A): 0.046
ackground Pk Area (A-s): 0.144 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.053
oncentration (ug/L): 7.11 Corrected Conc (ug/L): 7.11

ean Conc (ug/L): 7.03 SD: 0.116 RSD(%): 1.65
Corrected Conc (ug/L): 7.03

Pb ID: 0810306A Seq. No.: 00143 A/S Pos.: 34 Date: 08/16/94

. dispensed: 5 from 40, 20 from 34
Replicate 1 Time: 18:12
Peak Area (A-s): 0.099 Peak Height (A): 0.071
ackground Pk Area (A-s): 0.141 Background Pk Height (A): 0.079
lank Corrected Pk Area (A-s): 0.098
Concentration (ug/L): 13.24 Corrected Conc (ug/L): 13.24

. dispensed: 5 from 40, 20 from 34
Replicate 2 Time: 18:14
eak Area (A-s): 0.099 Peak Height (A): 0.075
ckground Pk Area (A-s): 0.146 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.098

Mean Conc (ug/L): 13.25 SD: 0.012 RSD(%): 0.09
Corrected Conc (ug/L): 13.25

Pb ID: CCV-1-4 Seq. No.: 00144 A/S Pos.: 35 Date: 08/16/94

uL dispensed: 5 from 40, 20 from 35
Replicate 1 Time: 18:17
Peak Area (A-s): 0.299 Peak Height (A): 0.201
Background Pk Area (A-s): 0.158 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.298
Concentration (ug/L): 40.26 Corrected Conc (ug/L): 40.26

L dispensed: 5 from 40, 20 from 35
Replicate 2 Time: 18:20
Peak Area (A-s): 0.294 Peak Height (A): 0.198
Background Pk Area (A-s): 0.168 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): 0.293
Concentration (ug/L): 39.63 Corrected Conc (ug/L): 39.63

Mean Conc (ug/L): 39.94 SD: 0.445 RSD(%): 1.11
Corrected Conc (ug/L): 39.94

Pb ID: CCB-1-4 Seq. No.: 00145 A/S Pos.: 36 Date: 08/16/94

dispensed: 5 from 40, 20 from 36
Replicate 1 Time: 18:22
Peak Area (A-s): 0.002 Peak Height (A): 0.007
Background Pk Area (A-s): 0.126 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.12 Corrected Conc (ug/L): 0.12

dispensed: 5 from 40, 20 from 36
Replicate 2 Time: 18:25
Peak Area (A-s): 0.001 Peak Height (A): 0.007
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.05 Corrected Conc (ug/L): 0.05

Mean Conc (ug/L): 0.09 SD: 0.045 RSD(%): 52.47
Corrected Conc (ug/L): 0.09

Pb ID: END RUN Seq. No.: 00146 A/S Pos.: 37 Date: 08/16/94

dispensed: 5 from 40, 20 from 37
Replicate 1 Time: 18:28
Peak Area (A-s): 0.391 Peak Height (A): 0.290
Background Pk Area (A-s): 0.226 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.390
Concentration (ug/L): 52.78 Corrected Conc (ug/L): 52.78

dispensed: 5 from 40, 20 from 37
Replicate 2 Time: 18:31
Peak Area (A-s): 0.392 Peak Height (A): 0.295
Background Pk Area (A-s): 0.204 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.391
Concentration (ug/L): 52.91 Corrected Conc (ug/L): 52.91

Mean Conc (ug/L): 52.84 SD: 0.089 RSD(%): 0.17
orrected Conc (ug/L): 52.84

STANDARD PREPARATION LOG METALS DEPT.

FU3 -FURNACE-

STD LOT NO.: FU-A- 0138-01
STD NAME: FURNACE HIGH STD
DATE PREP: 08/13/94
ANALYST INIT: AM 8Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A- 0138-02
STD NAME: FURNACE HIGH STD
DATE PREP: 08/15/94
ANALYST INIT: AM 9Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A- 0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A- 0138-03
STD NAME: FURNACE HIGH STD
DATE PREP: 08-16-94
ANALYST INIT: RS 9Am
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A- 0111-03

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: FURNACE HIGH STD
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ____ML CONC HNO3
____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: FURNACE HIGH STD
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ____ML CONC HNO3
____ML H2O2

STOCK STD NAME	ML	STOCK CONC,ppb	STOCK INTECH NO.
FURNACE STOCK STD	1.0	10,000	FU-A-

TV,ppb:
As,Cd,Pb,Sb,Se,Tl____100 ppb.
Prep fresh for each run.

STANDARD PREPARATION LOG METALS DEPT.

A2 -FURNACE-

STD LOT NO.: FU-A- 0028-01
STD NAME: ICV/CCV
DATE PREP: 08/13/94
ANALYST INIT: AM 9A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC, ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV, ppb:
Cd, As, Se, Sb, Pb, TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A- 0028-02
STD NAME: ICV/CCV
DATE PREP: 08/15/94
ANALYST INIT: AM 9A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC, ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV, ppb:
Cd, As, Se, Sb, Pb, TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A- 0028-03
STD NAME: ICV/CCV
DATE PREP: 08-16-94 9 AM
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ML H2O2

STOCK STD NAME	ML	STOCK CONC, ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-001-03

TV, ppb:
Cd, As, Se, Sb, Pb, TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ML CONC HNO3
ML H2O2

STOCK STD NAME	ML	STOCK CONC, ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV, ppb:
Cd, As, Se, Sb, Pb, TL 40;
Prep fresh for each run.

STD LOT NO.: FU-A-
STD NAME: ICV/CCV
DATE PREP:
ANALYST INIT:
FINAL VOL(ML): 100.0
PRESERVATIVES: ML CONC HNO3
ML H2O2

STOCK STD NAME	ML	STOCK CONC, ppb	STOCK INTECH NO.
ICV/CCV INTERM.	0.40	10,000 MULTI	FU-A-

TV, ppb:
Cd, As, Se, Sb, Pb, TL 40;
Prep fresh for each run.

FU1

STANDARD PREPARATION LOG -FURNACE- METALS DEPT.

STD LOT NO.: FU-A- 0227-01 STD NAME: ICB/CCB/CAL BLK DATE PREP: 08/15/94 ANALYST INIT: Am 9Am FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A-0227-02 STD NAME: ICB/CCB/CAL BLK DATE PREP: 08-16-94 9Am ANALYST INIT: RS FINAL VOL(ML): 100.0 PRESERVATIVES: 2.0 ML CONC HNO3 0.5 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2
STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2	STD LOT NO.: FU-A- STD NAME: ICB/CCB/CAL BLK DATE PREP: ANALYST INIT: FINAL VOL(ML): 100.0 PRESERVATIVES: ML CONC HNO3 ML H2O2

STANDARD PREPARATION LOG METALS DEPT.

FU2 -FURNACE-

STD LOT NO.: FU-A-0413-01
STD NAME: spiking soln
DATE PREP: 08/15/94 9AM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 M H2O2
Notes: _____

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1,000	~~FU~~-A-52-16
Se	0.10	↓	~~FU~~-A-53-04
Pb	0.060	↓	~~FU~~-A-53-13
Tl	0.20	↓	~~FU~~-A-52-06
			FU-A-
			FU-A-

STD LOT NO.: FU-A-0413-02
STD NAME: spiking for MSA
DATE PREP: 08/15/94
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 M H2O2
Notes: 0.02 ml of each soln to 2 ml of Sample

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.10	1,000	~~FU~~-A-52-16
↓	0.15	↓	FU-A-
↓	0.20	↓	FU-A-
↓	0.30	↓	FU-A-
↓	0.45	↓	FU-A- ↓
			FU-A-

STD LOT NO.: FU-A-0413-03
STD NAME: CRA/Std ①
DATE PREP: 08-16-94 9AM
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
3 5 10 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High Std	3.0	100 ppb	FU-A-0138-03
↓	5.0	↓	FU-A- ↓
↓	10.0	↓	FU-A- ↓
			FU-A-
			FU-A-
			FU-A-

0413

FU2

STANDARD PREPARATION LOG METALS DEPT.
-FURNACE-

STD LOT NO.: FU-A-0414-01
STD NAME: Std ② ③ ④
DATE PREP: 08-16-94 gam
ANALYST INIT: RS
FINAL VOL(ML): ~~100.0~~ 10.0 ml
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
25 50 75 ppb

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
High Std	2.5	100 ppb	FU-A-0138-03
Cal. Blk	7.5	0 "	FU-A-0227-02
High Std	5.0	100 "	FU-A-0138-03
Cal Blk	5.0	0 "	FU-A-0227-02
High Std	7.5	100 "	FU-A-0138-03
Cal Blk	2.5	0 "	FU-A-0227-02

STD LOT NO.: FU-A-0414-02
STD NAME: spiking soln
DATE PREP: 08-16-94 gam
ANALYST INIT: RS
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes: As Se Pb Tl Cd Sb
or
~~25 50 75~~
0.02 ml of each to 2.0 ml of sample

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As	0.20	1000	FU-A-52-16
Se	0.10	↓	FU-A-53-04
Pb	0.060	↓	FU-A-53-13
Tl	0.20	↓	FU-A-52-06
		↓	FU-A-
		↓	FU-A-

STD LOT NO.: FU-A-0414-02
STD NAME: spiking for MSA
DATE PREP: 08/16/94
ANALYST INIT: A
FINAL VOL(ML): 100.0
PRESERVATIVES: 2.0 ML CONC HNO3
0.5 ml H_2O_2
Notes:

STOCK STD NAME	ML	STOCK CONC, ppm	STOCK INTECH NO
As, Pb	0.10	1,000	FU-A-52-16
↓	0.15	↓	FU-A-53-13
↓	0.20	↓	FU-A-
↓	0.30	↓	FU-A-
↓	0.45	↓	FU-A-
			FU-A-

0424

FU2

STANDARD PREPARATION LOG -FURNACE-

METALS DEPT.

STD LOT NO.: FU-A-0111-01
STD NAME: FURNACE STOCK STD
DATE PREP: 04-21-94
ANALYST INIT: AM 10AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 50-16
Cd	1.0	1,000	A- 49-02
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- 48-14

STD LOT NO.: FU-A-0111-02
STD NAME: FURNACE STOCK STD
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
Ag (Ag)	~~1.0~~ 0.10	1,000	A- 50-14
Cd	~~1.0~~ 0.10	1,000	A- 49-02
~~Pb~~ Ba	1.0	1,000	A- 49-13
~~Sb~~ Be	0.10	1,000	A- 51-02
~~Se~~ Cr	0.10	1,000	A- 51-04
Tl	1.0	1,000	A-

STD LOT NO.: FU-A-0111-03
STD NAME: FURNACE STOCK STD
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000ppb.

Use INORGANIC VENTURES stds.
Prep fresh weekly.

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO
As	1.0	1,000	A- 52-16
~~Cd~~	~~1.0~~	~~1,000~~	~~A-~~
Pb	1.0	1,000	A- 53-13
Sb	1.0	1,000	A- 53-04
Se	1.0	1,000	A- 53-04
● Tl	1.0	1,000	A- ~~52-06~~ 48-14

0111

A1

STANDARD PREPARATION LOG METALS DEPT.
-FURNACE-

STD LOT NO.: FU-A- 001-01
STD NAME: ICV/CCV INTERM,
DATE PREP: 03/07/94 9AM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 49-16
Cd	1.0	1,000	A- 51-17
Pb	1.0	1,000	A- 48-04
Sb	1.0	1,000	A- 52-04
Se	1.0	1,000	A- 50-05
Tl	1.0	1,000	A- 48-03

STD LOT NO.: FU-A- 001-02
STD NAME: ICV/CCV INTERM
DATE PREP: 07/05/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
~~As~~ Ag	~~1.0~~ 0-10	1,000	A- 51-15
Cd	~~1.0~~ 0-10	1,000	A- 51-17
~~Pb~~ Ba	1.0	1,000	A- 49-17
~~Sb~~ Be	~~1.0~~ 0-10	1,000	A- 48-10
~~Se~~ Cr	~~1.0~~ 0-10	1,000	A- 47-16
~~Tl~~	1.0	1,000	A-

STD LOT NO.: FU-A-001-03
STD NAME: ICV/CCV INTERM
DATE PREP: 07/19/94 2PM
ANALYST INIT: AM
FINAL VOL(ML): 100.0
PRESERVATIVES: 1.0 ML CONC HNO3

TV,ppb:
As,Cd,Pb,Sb,Se,Tl___10,000;
Use SPEX standards;
Prep fresh weekly;

STOCK STD NAME	ML	STOCK CONC,ppm	STOCK INTECH NO.
As	1.0	1,000	A- 50-16
~~Cd~~	~~1.0~~	~~1,000~~	A-
Pb	1.0	1,000	A- 49-08
Sb	1.0	1,000	A- 49-09
Se	1.0	1,000	A- 51-07
Tl	1.0	1,000	A- ~~48-14~~ 52-06

RL

T 001

Lot # LRI	STD	Manufacturer	Lot No.	Conc ppm	Date Rec	Date Open	Exp Date
A 48-01	Ca	Spex	G-228CA	10,000	7/8/93	7/15/93	7/15/94
A 48-02	Mg	Spex	G 215MG	10,000	7/8/93	7/15/93	7/15/94
A 48-03	Tl	Spex	3 2 TL	1,000	7/8/93	7/8/93	7/15/94
A 48-04	Pb	Spex	3 40PB	1,000	7/8/93	7/15/93	7/15/94
A 48-05	V	Spex	2 233V	1,000	7/8/93	7/12/93	7/15/94
A 48-06	Zn	Spex	3-50ZN	1,000	7/8/93	7/8/93	7/15/94
A 48-07	Ni	Spex	2-266NI	1,000	7/8/93	7/8/93	7/15/94
A 48-08	Fe	Spex	3 18FE	1,000	7/8/93	7/12/93	7/15/94
A 48-09	Al	Spex	3 58AL	1,000	7/8/93	7/12/93	7/15/94
A 48-10	Be	Spex	3 56 BE	1,000	7/8/93	7/8/93	7/15/94
A 48-11	Sn	IV	11Sn0126	1002	7/8/93	10/9/93	8/1/94
A 48-12	Zn	IV	11ZN0151	1001	7/8/93	8/2/93	8/1/94
A 48-13	Na	IV	11NA0160	993	7/8/93	7/15/93	8/1/94
A 48-14	Ti	IV	11TI0132	1001	7/8/93	7/9/93	8/1/94
A 48-15	Y	IV	11V0144	1001	7/8/93	9/1/93	8/1/94
A 48-16	Mo	IV	11MO0137	1002	7/8/93	9/1/93	8/1/94
A 48-17	Si	IV	11SI01055	998	7/8/93	9/2/93	8/1/94

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Lot No. LRI	STD	Manufacturer	Lot No.	Conc. PPM	Date Rec'd	Date open	Exp. Date
A-49-01	Ti	IV	H-TI0110	997	7/8/93	8/2/93	8/1/94
A-49-02	Cd	IV	1-CD-0143	996	7/8/93	7/27/93	8/1/94
A-49-03	Fe	IV	1-FE0134	994	7/8/93	7/27/93	8/1/94
A-49-04	Mn	IV	1-MN01059	1003	7/8/93	8/4/93	8/1/94
A-49-05	Na	IV	1-NA0150	1001	7/8/93	8/2/93	8/1/94
A-49-06	B	IV	H-B0133	998	7/8/93	8/4/93	8/1/94
A-49-07	Fe	IV	1-FE0153	1003	7/8/93	9/1/93	8/1/94
A-49-08	Pb	IV	1-PB0106	1005	7/8/93	7/26/93	8/1/94
A-49-09	Sb	IV	1-SB0122	997	7/8/93	7/28/93	8/1/94
A-49-10	Ca	IV	1-CA0147	10,024	7/8/93	7/21/93	8/1/94
A-49-11	Mg	IV	1-MG0174	10,020	7/8/93	10/11/93	8/1/94
A-49-12	Co	IV	H-CO0135	997	7/8/93	8/2/93	8/1/94
A-49-13	Ba	IV	1-BA0152	1004	7/8/93	8/2/93	8/1/94
A-49-14	Blank cind	ERA	58001		7/16/93	7/31/93	
A-49-15	Hg	IV	H-HG0135	1000	8/20/93	8/20/93	9/1/94
A-49-16	As	Spex	[illegible]	1,000	[illegible]	8/?/93	[illegible]
A-49-17	[illegible]	Spex	2-135AA	1,000	[illegible]	[illegible]	[illegible]

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Lot No. LR II	Sym.	Manufacturer	Lot # No.	Conc ppm	Date Received	Date Opened	Exp. Date	Notes
A-50-1	B	Spex	[illegible]	1,000	9/23/93	10/6/93	9/30/94	
A-50-2	Mg	Spex	[illegible]	1,000	9/23/93		9/31/94	
A-50-3	Hg	Spex	[illegible]	1,000	9/23/93	[illegible]	9/31/94	
A-50-4	Mo	Spex	[illegible]	1,000	9/23/93	[illegible]	9/31/94	
A-50-5	Se	Spex	[illegible]	1,000	9/23/93	10/1/93	9/31/94	
A-50-6	Ti	Spex	[illegible]	1,000	9/23/93	10/13/93	9/31/94	
A-50-7	V	Spex	[illegible]	1,000	9/23/93		9/31/94	
A-50-8	Al	Spex	[illegible]	10,000	9/23/93	[illegible]	9/30/94	
A-50-9	Fe	Spex	[illegible]	10,000	9/23/93	[illegible]	9/30/94	
A-50-10	Na	Spex	[illegible]	1,000	9/23/93	[illegible]	9/30/94	
A-50-11	Ni	Spex	[illegible]	10,000	9/23/93	[illegible]	9/30/94	
A-50-12	Si	Spex	[illegible]	1,000	9/23/93	[illegible]	9/31/94	Standard [illegible]
A-50-13	Sb	Spex	[illegible]	10,000	9/23/93	[illegible]	9/31/94	
A-50-14	Ag	I.V.	[illegible]	1,000	9/23/93	10/11/93	10/1/94	
A-50-15	Al	I.V.	[illegible]	10,000	9/23/93	10/11/93	10/1/94	
A-50-16	As	I.V.	[illegible]	1,000	9/23/93	[illegible]	10/1/94	
A-50-17	B	I.V.	[illegible]	1,000	9/23/93		10/1/94	

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LOT # LRI	STD	Manufacturer	Lot No.	Conc ppm	Date Rec.	Date Opened	Exp Date
A-51-01	Bi	IV	I-BA0152	1,004	9/13/93		10/1/94
A-51-02	Be	IV	I-BE0133	1,002	9/13/93	11/11/93	10/1/94
A-51-03	Co	IV	I-CO0133	998	9/13/93	10/1/93	10/1/94
A-51-04	Cr	IV	I-CR0195	1,000	9/13/93	10/12/93	10/1/94
A-51-05	K	IV	I-K0195	9,959	9/13/93	11/14/93	10/1/94
A-51-06	Mg	IV	I-MG0173	1,002	9/13/93	10/1/93	10/1/94
A-51-07	Se	IV	I-SE0109	1,000	9/13/93	10/1/93	10/1/94
A-51-08	Si	Spex	3-11-SI	1000	10/29/93	11/10/93	11/10/93
A-51-09	Blank Sand	ERA	58001	—	1/4/93	1/6/94	
A-51-10	Blank Sand	ERA	58001	—	1/21/94		
A-51-11	Blank Sand	ERA	58001	—	1/27/94		
A-51-12	Al	IV	I-AL0209	1,000	2/22/94	3-1-94	3/1/95
A-51-13	Cu	IV	I-CU0108	999	2/22/94	3-1-94	3/1/95
A-51-14	Ni	IV	I-NI0160	1004	2/22/94	3-1-94	3/1/95
A-51-15	Ag	Spex	3-111Ag	1,000	2/28/94	2/28/94	2/28/95
A-51-16	Ca	Spex	3-150Ca	1000	2/28/94		2/28/95
A-51-17	Cd	Spex	3-[illegible]	1000	2/28/94	2/28/94	2/28/95

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BOOK NO.

Lot # LRI	STD	Manufacturer	Lot No.	Conc PPM	Date Recd	Date Opened	Exp Date	Notes
A-52-01	Co	Spex	3-100Co	1000	2/28/94	2/28/94	2/28/95	
A-52-02	Ti	Spex	3-38Ti	1000	2/28/94	2/28/94	2/28/95	
A-52-03	Cu	Spex	3-78Cu	1000	2/28/94	2/28/94	2/28/95	
A-52-04	Sb	Spex	3-86Sb	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Mn	Spex	3-112Mn	1000	2/28/94	2/28/94	2/28/95	
A-52-05	Blank sand	ERA	58001	—	1/21/94	3/2/94	NA	
A-52-06	Ti	Spex	4-3Ti	1,000	3/22/94	3/23/94	3/31/98	
A-52-07	Al	I.V.	I-Al0213	10,047	4/28/94	6/20/94	5/1/95	
A-52-08	Ca	I.V.	I-Ca01114	10,002	4/28/94	6/13/94	5/1/95	
A-52-09	Mg	I.V.	I-Mg01114	10,055	4/28/94	6/13/94	5/1/95	
A-52-10	Si	Spex	6-37Si	10,000	5/6/94		4/30/95	
A-52-11	Ca	Spex	11-12Ca	10,000	5/6/94	6/1/94	4/30/95	
A-52-12	Mg	Spex	11-5Mg	10,000	5/6/94		4/30/95	
A-52-13	BLANK SAND	ERA	58001	—	4/94	6/9/94	—	
A-52-14	K	Spex	7-19K	10,000	6/23/94	6/23/94	6/30/95	
A-52-15	Al	Spex	3-13Al	1,000	6/23/94		6/30/95	
A-52-16	As	Spex	4-52As	1,000	6/23/94		6/30/95	

SIGNATURE

DATE

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DATE

WITNESS

DATE

Lot # LRI	STD	Mfg. Factors	Lot No.	Conc. PPM	Date Rec'd	Date Open.	Exp. Date	Note
A-53-01	Zn	Spex	4-34ZN	1,000	6/23/94	7/14/94	6/30/95	
A-53-02	Mg	Spex	3-17MG	1,000	6/23/94		6/30/95	
A-053-03	V	Spex	4-19V	1,000	6/23/94	7/14/94	6/30/95	
A-053-04	Se	Spex	4-43SE	1,000	6/23/94	7/14/94	6/30/95	
A-053-05	Fe	Spex	4-26FE	1,000	6/23/94	7/14/94	6/30/95	
A-053-06	Sn	Spex	3-50SN	1,000	6/23/94	7/14/94	6/30/95	
A-053-07	Cr	Spex	3-24CR	1,000	6/23/94	7/14/94	6/30/95	
A-053-08	Be	Spex	4-4BE	1,000	6/23/94	7/14/94	6/30/95	
A-053-09	Ti	Spex	4-22TI	1,000	6/23/94	7/14/94	6/30/95	
A-053-10	B	Spex	3-13B	1,000	6/23/94	7/14/94	6/30/95	
A-053-11	Mo	Spex	3-42MO	1,000	6/23/94	7/14/94	6/30/95	
A-53-12	Ni	Spex	4-28NI	1,000	6/23/94	7/14/94	6/30/95	
A-53-13	Pb	Spex	4-9PB	1,000	6/23/94	7/14/94	6/30/95	
A-53-14	Ba	Spex	3-167BA	1,000	6/23/94	7/17/94	6/30/95	
A-53-15	Blank Sand	ERA	58001	—	5/94	6/28/94	—	
A-53-16	Cd	Spex	I-91CA	10,000	6/26/94	7/14/94	6/30/95	

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LABORATORY CHRONICLE : METALS DEPARTMENT

00091

FURNACE

ELEMENT Pb
WAVE LENGTH 283.3
INSTR.NO. PE 7000 #3
LAMP NO. EDL 10306
LAMP ENERGY ~~HV 60~~ 60
ID/WT FILE CLP. IDW
DATA FILE ~~MR pb0817B.DAT~~ pb0817Y.DAT
~~MDL~~ , ppb IDL (0.4 ppb)

DATE 08/17/94
TIME 11A
SHIFT Day
ANALYST AW
SUPERVISOR [illegible]

BATCH NO. 895
RAW DATA w/: 895

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
ICV-2	01	1D		1D	41.36			103.4%
ICB-2	02	↓		↓	0.49			
CCV-2-1	03				41.49			103.7%
CCB-2-1	04				0.20			
CRA-2	05				3.45			115.0%
PBS-895	06				2.87			
PBSA-895	07	↓		↓	8.24	89.5%		
0810303	08	1D	10D	10D	52.97	~~AE~~		
0810303A	09	↓	↓	↓	58.62	94.2%		
0810302-0	10	1D	2D	2D	25.37 (0.162)		conc = 27.46 ppb	
" 1	11	↓	↓	↓	34.48 (0.220)			S_1 = 10 ppb
" 2	12				44.10 (0.282)			S_2 = 20 "
" 3	13	↓	↓	↓	52.99 (0.338)	corr coef = 0.99983		S_3 = 30 "
CCV-2-2	14	1D		1D	41.18			103.0%
CCB-2-2	15	↓		↓	0.49			
0810305-0	16	1D	2D	2D	33.89 (0.217)		conc = 38.14 ppb	
" 1	17	↓	↓	↓	47.86 (0.306)			S_1 = 15 ppb
" 2	18				61.27 (0.391)			S_2 = 30 "
" 3	19	↓	↓	↓	74.47 (0.475)	corr coef = 0.99991		S_3 = 45 "
CCV-2-3	20	1D		1D	41.31			103.3%
CCB-2-3	21	↓		↓	0.10			
End Run	22	↓		↓	-0.15			

LABORATORY CHRONICLE : METALS DEPARTMENT

FURNACE

ELEMENT Pb

DATE 08/17/94

ANALYST Ao

Sample No.	Cup	Dilution Factors			Conc.	Instr.	Seq.	Obs.
		Prep.	Instr.	Final	ppb	%SR	No.	
std ① = 3 ppb	35	FuA	0415-01					
std ② = 25 "	36	FuA	0415-02					
std ③ = 50 "	37	FuA	0415-02					
std ④ = 75 "	38	FuA	0415-02					
std ⑤ = 100 "	39	FuA	0138-04					
modifier	40							

Standard Name	Cup	Conc.	Lot No.
ICV/CCV	See Run	40 ppb	FuA 0028-04
ICB/CCB	↓	0 "	FuA 0227-03
spiking soln	–	600 "	FuA-0415-03
spiking for MS A	–	1,000 1,500 2,000 3,000 4,500	FuA-0416-01
↓		↓	↓

ANALYST SIGNATURE: _____

SUPERVISOR SIGNATURE: _____

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lement File: PBCLP.GEL Element: Pb Wavelength: 283.3
Date: 08/17/94 Time: 11:54 Slit: 0.7 L
ata File: PB0817Y.DAT ID/Wt File: CLP.IDW Lamp Current: 0
echnique: HGA Calib. Type: Linear Energy: 60
Remark 1: ANALYST:AMB
Remark 2: BATCH#895
emark 3: PB ANALYSIS
emark 4: PE5100#3
Remark 5: STD PREP DATE:08-17-94

Pb ID: BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 08/17/94

L dispensed: 5 from 40, 20 from 0
replicate 1 Time: 11:58
Peak Area (A-s): 0.003 Peak Height (A): 0.008
ackground Pk Area (A-s): 0.321 Background Pk Height (A): 0.145
lank Corrected Pk Area (A-s): 0.003

L dispensed: 5 from 40, 20 from 0
eplicate 2 Time: 12:00
eak Area (A-s): -0.002 Peak Height (A): 0.006
ackground Pk Area (A-s): 0.296 Background Pk Height (A): 0.149
lank Corrected Pk Area (A-s): -0.002

Mean Pk Area (A-s): 0.001 SD: 0.0032 RSD(%): 573.80

uto-zero performed.

) ID: STANDARD1 Seq. No.: 00002 A/S Pos.: 35 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 35
eplicate 1 Time: 12:02
eak Area (A-s): 0.022 Peak Height (A): 0.018
Background Pk Area (A-s): 0.323 Background Pk Height (A): 0.154
lank Corrected Pk Area (A-s): 0.022

uL dispensed: 5 from 40, 20 from 35
eplicate 2 Time: 12:05
eak Area (A-s): 0.026 Peak Height (A): 0.018
ackground Pk Area (A-s): 0.325 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.025

ean Pk Area (A-s): 0.023 SD: 0.0024 RSD(%): 10.28

andard number 1 applied. [3.00]
orrelation coefficient: 1.00000 Slope: 0.0078

) ID: STANDARD2 Seq. No.: 00003 A/S Pos.: 36 Date: 08/17/94

240

uL dispensed: 5 from 40, 20 from 36
plicate 1 Time: 12:07
eak Area (A-s): 0.164 Peak Height (A): 0.106
Background Pk Area (A-s): 0.354 Background Pk Height (A): 0.155

Concentration (ug/L): 20.97

L dispensed: 5 from 40, 20 from 36
eplicate 2 Time: 12:09
Peak Area (A-s): 0.169 Peak Height (A): 0.108
ackground Pk Area (A-s): 0.331 Background Pk Height (A): 0.145
lank Corrected Pk Area (A-s): 0.168
Concentration (ug/L): 21.56

ean Conc (ug/L): 21.27 SD: 0.414 RSD(%): 1.95

Standard number 2 applied. [25.00]
orrelation coefficient: 0.99944 Slope: 0.0067

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b ID: STANDARD3 Seq. No.: 00004 A/S Pos.: 37 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 37
Replicate 1 Time: 12:12
eak Area (A-s): 0.326 Peak Height (A): 0.203
ackground Pk Area (A-s): 0.396 Background Pk Height (A): 0.157
Blank Corrected Pk Area (A-s): 0.326
oncentration (ug/L): 48.83

uL dispensed: 5 from 40, 20 from 37
eplicate 2 Time: 12:14
eak Area (A-s): 0.324 Peak Height (A): 0.193
Background Pk Area (A-s): 0.420 Background Pk Height (A): 0.168
Blank Corrected Pk Area (A-s): 0.323
oncentration (ug/L): 48.50

Mean Conc (ug/L): 48.66 SD: 0.232 RSD(%): 0.48

tandard number 3 applied. [50.00]
Correlation coefficient: 0.99971 Slope: 0.0065

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o ID: STANDARD4 Seq. No.: 00005 A/S Pos.: 38 Date: 08/17/94

dispensed: 5 from 40, 20 from 38
eplicate 1 Time: 12:17
Peak Area (A-s): 0.479 Peak Height (A): 0.283
ackground Pk Area (A-s): 0.463 Background Pk Height (A): 0.166
ank Corrected Pk Area (A-s): 0.479
Concentration (ug/L): 73.34

dispensed: 5 from 40, 20 from 38
eplicate 2 Time: 12:19
Peak Area (A-s): 0.480 Peak Height (A): 0.284
ckground Pk Area (A-s): 0.455 Background Pk Height (A): 0.165
ank Corrected Pk Area (A-s): 0.479
Concentration (ug/L): 73.44

ean Conc (ug/L): 73.39 SD: 0.071 RSD(%): 0.10

Standard number 4 applied. [75.00]
orrelation coefficient: 0.99973 Slope: 0.0064

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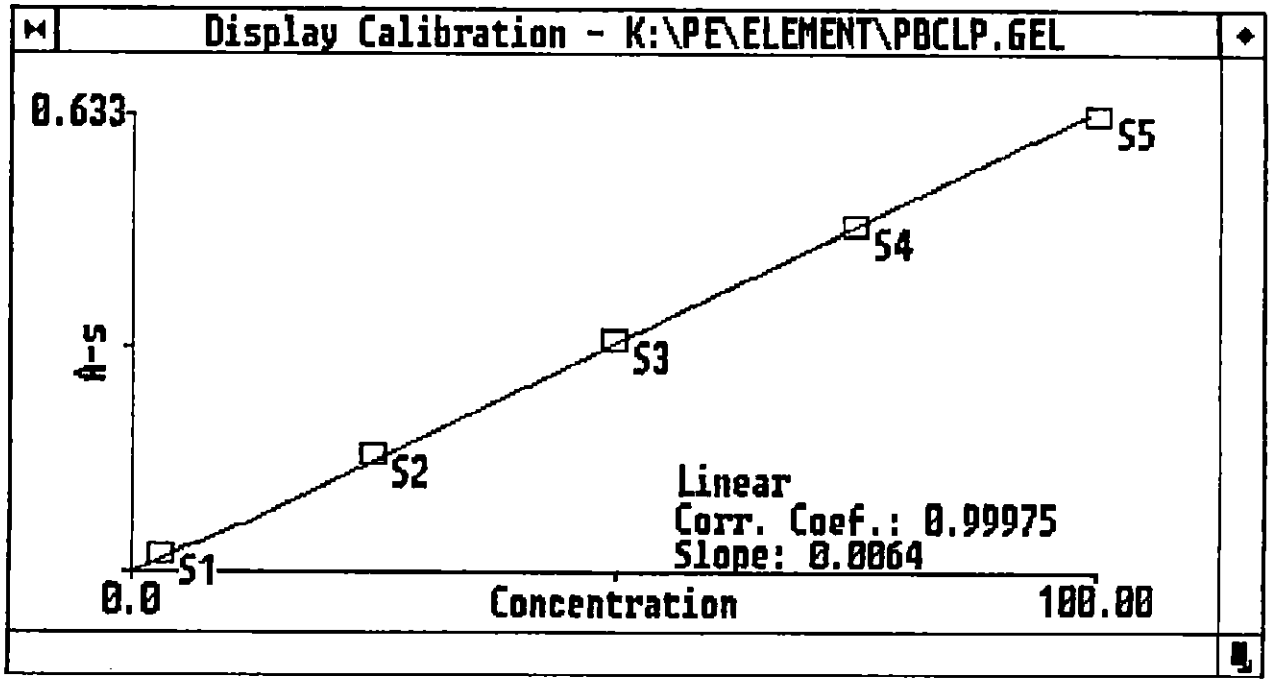
L dispensed: 5 from 40, 20 from 39
eplicate 1 Time: 12:22
Peak Area (A-s): 0.628 Peak Height (A): 0.377
ackground Pk Area (A-s): 0.481 Background Pk Height (A): 0.168
lank Corrected Pk Area (A-s): 0.628
Concentration (ug/L): 97.56

L dispensed: 5 from 40, 20 from 39
eplicate 2 Time: 12:24
Peak Area (A-s): 0.638 Peak Height (A): 0.393
ackground Pk Area (A-s): 0.457 Background Pk Height (A): 0.158
lank Corrected Pk Area (A-s): 0.637
Concentration (ug/L): 99.01

ean Conc (ug/L): 98.28 SD: 1.027 RSD(%): 1.04

tandard number 5 applied. [100.00]
orrelation coefficient: 0.99975 Slope: 0.0064



Pb ID: ICV-2 Seq. No.: 00007 A/S Pos.: 1 Date: 08/17/94

dispensed: 5 from 40, 20 from 1
Replicate 1 Time: 12:28
eak Area (A-s): 0.265 Peak Height (A): 0.155
ackground Pk Area (A-s): 0.376 Background Pk Height (A): 0.157
Blank Corrected Pk Area (A-s): 0.264
Concentration (ug/L): 41.44 Corrected Conc (ug/L): 41.44

uL dispensed: 5 from 40, 20 from 1
Replicate 2 Time: 12:31

Background Pk Area (A-s): 0.373 Background Pk Height (A): 0.153
lank Corrected Pk Area (A-s): 0.263

oncentration (ug/L): 41.28 Corrected Conc (ug/L): 41.28

Mean Conc (ug/L): 41.36 SD: 0.116 RSD(%): 0.28
orrected Conc (ug/L): 41.36

---

b ID: ICB-2 Seq. No.: 00008 A/S Pos.: 2 Date: 08/17/94

ul dispensed: 5 from 40, 20 from 2
Replicate 1 Time: 12:33
eak Area (A-s): 0.003 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.277 Background Pk Height (A): 0.139
Blank Corrected Pk Area (A-s): 0.002
oncentration (ug/L): 0.37 Corrected Conc (ug/L): 0.37

ul dispensed: 5 from 40, 20 from 2
eplicate 2 Time: 12:35
eak Area (A-s): 0.004 Peak Height (A): 0.009
ackground Pk Area (A-s): 0.282 Background Pk Height (A): 0.136
Blank Corrected Pk Area (A-s): 0.004
oncentration (ug/L): 0.61 Corrected Conc (ug/L): 0.61

Mean Conc (ug/L): 0.49 SD: 0.171 RSD(%): 35.07
orrected Conc (ug/L): 0.49

Pb ID: CCV-2-1 Seq. No.: 00009 A/S Pos.: 3 Date: 08/17/94

dispensed: 5 from 40, 20 from 3
Replicate 1 Time: 12:38
eak Area (A-s): 0.264 Peak Height (A): 0.159
ckground Pk Area (A-s): 0.372 Background Pk Height (A): 0.152
Blank Corrected Pk Area (A-s): 0.263
oncentration (ug/L): 41.29 Corrected Conc (ug/L): 41.29

ul dispensed: 5 from 40, 20 from 3
Replicate 2 Time: 12:40
eak Area (A-s): 0.267 Peak Height (A): 0.166
ckground Pk Area (A-s): 0.364 Background Pk Height (A): 0.150
Blank Corrected Pk Area (A-s): 0.266
oncentration (ug/L): 41.70 Corrected Conc (ug/L): 41.70

Mean Conc (ug/L): 41.49 SD: 0.287 RSD(%): 0.69
orrected Conc (ug/L): 41.49

Pb ID: CCB-2-1 Seq. No.: 00010 A/S Pos.: 4 Date: 08/17/94

dispensed: 5 from 40, 20 from 4
Replicate 1 Time: 12:43
ak Area (A-s): 0.003 Peak Height (A): 0.009
ckground Pk Area (A-s): 0.267 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.34 Corrected Conc (ug/L): 0.34

dispensed: 5 from 40, 20 from 4
Replicate 2 Time: 12:45

Background Pk Area (A-s): 0.280 Background Pk Height (A): 0.132

lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.07 Corrected Conc (ug/L): 0.07

ean Conc (ug/L): 0.20 SD: 0.193 RSD(%): 95.13
orrected Conc (ug/L): 0.20

---

b ID: CRA-2 Seq. No.: 00011 A/S Pos.: 5 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 5
eplicate 1 Time: 12:48
eak Area (A-s): 0.022 Peak Height (A): 0.021
Background Pk Area (A-s): 0.299 Background Pk Height (A): 0.147
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 3.42 Corrected Conc (ug/L): 3.42

uL dispensed: 5 from 40, 20 from 5
eplicate 2 Time: 12:50
eak Area (A-s): 0.023 Peak Height (A): 0.018
Background Pk Area (A-s): 0.287 Background Pk Height (A): 0.145
lank Corrected Pk Area (A-s): 0.022
oncentration (ug/L): 3.47 Corrected Conc (ug/L): 3.47

ean Conc (ug/L): 3.45 SD: 0.037 RSD(%): 1.08
orrected Conc (ug/L): 3.45

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p ID: PBS-895 Seq. No.: 00012 A/S Pos.: 6 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 6
eplicate 1 Time: 12:53
eak Area (A-s): 0.017 Peak Height (A): 0.014
Background Pk Area (A-s): 0.284 Background Pk Height (A): 0.141
lank Corrected Pk Area (A-s): 0.016
oncentration (ug/L): 2.54 Corrected Conc (ug/L): 2.54

uL dispensed: 5 from 40, 20 from 6
eplicate 2 Time: 12:55
eak Area (A-s): 0.021 Peak Height (A): 0.017
Background Pk Area (A-s): 0.261 Background Pk Height (A): 0.132
lank Corrected Pk Area (A-s): 0.020
oncentration (ug/L): 3.20 Corrected Conc (ug/L): 3.20

ean Conc (ug/L): 2.87 SD: 0.468 RSD(%): 16.32
orrected Conc (ug/L): 2.87

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p ID: PBSA-895 Seq. No.: 00013 A/S Pos.: 7 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 7
eplicate 1 Time: 12:58
eak Area (A-s): 0.053 Peak Height (A): 0.039
Background Pk Area (A-s): 0.283 Background Pk Height (A): 0.133
lank Corrected Pk Area (A-s): 0.053
oncentration (ug/L): 8.29 Corrected Conc (ug/L): 8.29

uL dispensed: 5 from 40, 20 from 7

Peak Area (A-s): 0.053 Peak Height (A): 0.035

ackground Pk Area (A-s): 0.279 Background Pk Height (A): 0.132
lank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 8.19 Corrected Conc (ug/L): 8.19

ean Conc (ug/L): 8.24 SD: 0.066 RSD(%): 0.81
orrected Conc (ug/L): 8.24

---

b ID: 0810303 Seq. No.: 00014 A/S Pos.: 8 Date: 08/17/94

L dispensed: 5 from 40, 20 from 8
eplicate 1 Time: 13:03
Peak Area (A-s): 0.339 Peak Height (A): 0.179
ackground Pk Area (A-s): 0.358 Background Pk Height (A): 0.124
lank Corrected Pk Area (A-s): 0.339
oncentration (ug/L): 53.11 Corrected Conc (ug/L): 53.11

L dispensed: 5 from 40, 20 from 8
eplicate 2 Time: 13:05
Peak Area (A-s): 0.337 Peak Height (A): 0.181
ackground Pk Area (A-s): 0.359 Background Pk Height (A): 0.125
lank Corrected Pk Area (A-s): 0.337
Concentration (ug/L): 52.82 Corrected Conc (ug/L): 52.82

ean Conc (ug/L): 52.97 SD: 0.208 RSD(%): 0.39
orrected Conc (ug/L): 52.97

---

b ID: 0810303A Seq. No.: 00015 A/S Pos.: 9 Date: 08/17/94

. dispensed: 5 from 40, 20 from 9
eplicate 1 Time: 13:07
reak Area (A-s): 0.376 Peak Height (A): 0.201
ackground Pk Area (A-s): 0.377 Background Pk Height (A): 0.131
lank Corrected Pk Area (A-s): 0.376
oncentration (ug/L): 58.88 Corrected Conc (ug/L): 58.88

. dispensed: 5 from 40, 20 from 9
eplicate 2 Time: 13:10
Peak Area (A-s): 0.373 Peak Height (A): 0.199
ackground Pk Area (A-s): 0.368 Background Pk Height (A): 0.123
lank Corrected Pk Area (A-s): 0.372
oncentration (ug/L): 58.35 Corrected Conc (ug/L): 58.35

ean Conc (ug/L): 58.62 SD: 0.378 RSD(%): 0.64
orrected Conc (ug/L): 58.62

---

b ID: 08103020 Seq. No.: 00016 A/S Pos.: 10 Date: 08/17/94

. dispensed: 5 from 40, 20 from 10
plicate 1 Time: 13:12
reak Area (A-s): 0.162 Peak Height (A): 0.106
Background Pk Area (A-s): 0.500 Background Pk Height (A): 0.193
ank Corrected Pk Area (A-s): 0.162
ncentration (ug/L): 25.34 Corrected Conc (ug/L): 25.34

Replicate 2 Time: 13:15

eak Area (A-s): 0.163 Peak Height (A): 0.109
ackground Pk Area (A-s): 0.493 Background Pk Height (A): 0.197
Blank Corrected Pk Area (A-s): 0.162
oncentration (ug/L): 25.40 Corrected Conc (ug/L): 25.40

Mean Conc (ug/L): 25.37 SD: 0.041 RSD(%): 0.16
orrected Conc (ug/L): 25.37

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Pb ID: 08103021 Seq. No.: 00017 A/S Pos.: 11 Date: 08/17/94

dispensed: 5 from 40, 20 from 11
Replicate 1 Time: 13:17
eak Area (A-s): 0.220 Peak Height (A): 0.148
ackground Pk Area (A-s): 0.513 Background Pk Height (A): 0.199
Blank Corrected Pk Area (A-s): 0.220
oncentration (ug/L): 34.42 Corrected Conc (ug/L): 34.42

dispensed: 5 from 40, 20 from 11
Replicate 2 Time: 13:20
eak Area (A-s): 0.221 Peak Height (A): 0.151
ackground Pk Area (A-s): 0.527 Background Pk Height (A): 0.196
Blank Corrected Pk Area (A-s): 0.220
oncentration (ug/L): 34.53 Corrected Conc (ug/L): 34.53

Mean Conc (ug/L): 34.48 SD: 0.072 RSD(%): 0.21
orrected Conc (ug/L): 34.48

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Pb ID: 08103022 Seq. No.: 00018 A/S Pos.: 12 Date: 08/17/94

dispensed: 5 from 40, 20 from 12
Replicate 1 Time: 13:22
eak Area (A-s): 0.278 Peak Height (A): 0.173
ackground Pk Area (A-s): 0.548 Background Pk Height (A): 0.202
lank Corrected Pk Area (A-s): 0.278
oncentration (ug/L): 43.56 Corrected Conc (ug/L): 43.56

dispensed: 5 from 40, 20 from 12
Replicate 2 Time: 13:24
ak Area (A-s): 0.285 Peak Height (A): 0.190
ckground Pk Area (A-s): 0.527 Background Pk Height (A): 0.198
Blank Corrected Pk Area (A-s): 0.285
oncentration (ug/L): 44.64 Corrected Conc (ug/L): 44.64

ean Conc (ug/L): 44.10 SD: 0.767 RSD(%): 1.74
Corrected Conc (ug/L): 44.10

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Pb ID: 08103023 Seq. No.: 00019 A/S Pos.: 13 Date: 08/17/94

dispensed: 5 from 40, 20 from 13
Replicate 1 Time: 13:27
eak Area (A-s): 0.338 Peak Height (A): 0.228
ckground Pk Area (A-s): 0.570 Background Pk Height (A): 0.198
lank Corrected Pk Area (A-s): 0.338
oncentration (ug/L): 52.00
~~~~~~

uL dispensed: 5 from 40, 20 from 13

eplicate 2 Time: 13:29
eak Area (A-s): 0.339 Peak Height (A): 0.228
Background Pk Area (A-s): 0.584 Background Pk Height (A): 0.202
lank Corrected Pk Area (A-s): 0.338
oncentration (ug/L): 53.00 Corrected Conc (ug/L): 53.00

Mean Conc (ug/L): 52.99 SD: 0.017 RSD(%): 0.03
orrected Conc (ug/L): 52.99

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b ID: CCV-2-2 Seq. No.: 00020 A/S Pos.: 14 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 14
eplicate 1 Time: 13:31
eak Area (A-s): 0.263 Peak Height (A): 0.168
Background Pk Area (A-s): 0.392 Background Pk Height (A): 0.162
Blank Corrected Pk Area (A-s): 0.262
oncentration (ug/L): 41.14 Corrected Conc (ug/L): 41.14

uL dispensed: 5 from 40, 20 from 14
eplicate 2 Time: 13:34
eak Area (A-s): 0.263 Peak Height (A): 0.163
Background Pk Area (A-s): 0.383 Background Pk Height (A): 0.157
lank Corrected Pk Area (A-s): 0.263
oncentration (ug/L): 41.23 Corrected Conc (ug/L): 41.23

Mean Conc (ug/L): 41.18 SD: 0.057 RSD(%): 0.14
orrected Conc (ug/L): 41.18

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b ID: CCB-2-2 Seq. No.: 00021 A/S Pos.: 15 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 15
eplicate 1 Time: 13:36
eak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.329 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 0.46 Corrected Conc (ug/L): 0.46

uL dispensed: 5 from 40, 20 from 15
eplicate 2 Time: 13:38
eak Area (A-s): 0.004 Peak Height (A): 0.009
Background Pk Area (A-s): 0.341 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.003
oncentration (ug/L): 0.52 Corrected Conc (ug/L): 0.52

Mean Conc (ug/L): 0.49 SD: 0.038 RSD(%): 7.82
orrected Conc (ug/L): 0.49

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b ID: 08103050 Seq. No.: 00022 A/S Pos.: 16 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 16
Replicate 1 Time: 13:41
eak Area (A-s): 0.218 Peak Height (A): 0.148
ackground Pk Area (A-s): 0.527 Background Pk Height (A): 0.189
Blank Corrected Pk Area (A-s): 0.218

uL dispensed: 5 from 40, 20 from 16
Replicate 2
Peak Area (A-s): 0.215
Background Pk Area (A-s): 0.548
Blank Corrected Pk Area (A-s): 0.215
Concentration (ug/L): 33.66

Time: 13:43
Peak Height (A): 0.142
Background Pk Height (A): 0.190
Corrected Conc (ug/L): 33.66

ean Conc (ug/L): 33.89
orrected Conc (ug/L): 33.89

SD: 0.321 RSD(%): 0.95

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b ID: 08103051 Seq. No.: 00023 A/S Pos.: 17 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 17
eplicate 1
eak Area (A-s): 0.306
Background Pk Area (A-s): 0.596
lank Corrected Pk Area (A-s): 0.306
oncentration (ug/L): 47.93

Time: 13:45
Peak Height (A): 0.201
Background Pk Height (A): 0.199
Corrected Conc (ug/L): 47.93

uL dispensed: 5 from 40, 20 from 17
eplicate 2
eak Area (A-s): 0.305
Background Pk Area (A-s): 0.576
lank Corrected Pk Area (A-s): 0.305
oncentration (ug/L): 47.78

Time: 13:48
Peak Height (A): 0.202
Background Pk Height (A): 0.193
Corrected Conc (ug/L): 47.78

ean Conc (ug/L): 47.86
orrected Conc (ug/L): 47.86

SD: 0.110 RSD(%): 0.23

ID: 08103052 Seq. No.: 00024 A/S Pos.: 18 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 18
eplicate 1
eak Area (A-s): 0.391
Background Pk Area (A-s): 0.584
lank Corrected Pk Area (A-s): 0.390
oncentration (ug/L): 61.16

Time: 13:50
Peak Height (A): 0.262
Background Pk Height (A): 0.191
Corrected Conc (ug/L): 61.16

uL dispensed: 5 from 40, 20 from 18
plicate 2
ak Area (A-s): 0.392
Background Pk Area (A-s): 0.586
ank Corrected Pk Area (A-s): 0.391
ncentration (ug/L): 61.38

Time: 13:52
Peak Height (A): 0.265
Background Pk Height (A): 0.196
Corrected Conc (ug/L): 61.38

an Conc (ug/L): 61.27
rrected Conc (ug/L): 61.27

SD: 0.153 RSD(%): 0.25

ID: 08103053 Seq. No.: 00025 A/S Pos.: 19 Date: 08/17/94

uL dispensed: 5 from 40, 20 from 19
plicate 1
ak Area (A-s): 0.477
Background Pk Area (A-s): 0.592

Time: 13:55
Peak Height (A): 0.319
Background Pk Height (A): 0.193

Concentration (ug/L): 74.71 Corrected Conc (ug/L): 74.71

L dispensed: 5 from 40, 20 from 19
eplicate 2 Time: 13:57
Peak Area (A-s): 0.474 Peak Height (A): 0.309
Background Pk Area (A-s): 0.625 Background Pk Height (A): 0.199
lank Corrected Pk Area (A-s): 0.473
oncentration (ug/L): 74.23 Corrected Conc (ug/L): 74.23

ean Conc (ug/L): 74.47 SD: 0.340 RSD(%): 0.46
orrected Conc (ug/L): 74.47

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b ID: CCV-2-3 Seq. No.: 00026 A/S Pos.: 20 Date: 08/17/94

L dispensed: 5 from 40, 20 from 20
eplicate 1 Time: 13:59
eak Area (A-s): 0.265 Peak Height (A): 0.171
Background Pk Area (A-s): 0.386 Background Pk Height (A): 0.167
lank Corrected Pk Area (A-s): 0.264
oncentration (ug/L): 41.44 Corrected Conc (ug/L): 41.44

L dispensed: 5 from 40, 20 from 20
eplicate 2 Time: 14:02
eak Area (A-s): 0.263 Peak Height (A): 0.170
Background Pk Area (A-s): 0.405 Background Pk Height (A): 0.168
lank Corrected Pk Area (A-s): 0.263
oncentration (ug/L): 41.18 Corrected Conc (ug/L): 41.18

ean Conc (ug/L): 41.31 SD: 0.179 RSD(%): 0.43
orrected Conc (ug/L): 41.31

ID: CCB-2-3 Seq. No.: 00027 A/S Pos.: 21 Date: 08/17/94

L dispensed: 5 from 40, 20 from 21
eplicate 1 Time: 14:04
eak Area (A-s): 0.001 Peak Height (A): 0.007
Background Pk Area (A-s): 0.372 Background Pk Height (A): 0.169
lank Corrected Pk Area (A-s): 0.000
oncentration (ug/L): 0.04 Corrected Conc (ug/L): 0.04

L dispensed: 5 from 40, 20 from 21
eplicate 2 Time: 14:06
eak Area (A-s): 0.002 Peak Height (A): 0.007
Background Pk Area (A-s): 0.355 Background Pk Height (A): 0.161
lank Corrected Pk Area (A-s): 0.001
oncentration (ug/L): 0.16 Corrected Conc (ug/L): 0.16

Mean Conc (ug/L): 0.10 SD: 0.085 RSD(%): 80.81
orrected Conc (ug/L): 0.10

ID: END RUN Seq. No.: 00028 A/S Pos.: 22 Date: 08/17/94

L dispensed: 5 from 40, 20 from 22
eplicate 1 Time: 14:09
eak Area (A-s): -0.002 Peak Height (A): 0.007
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.045