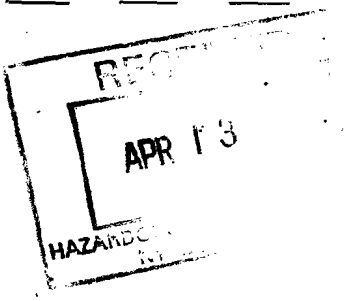
INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME: LAT CITY/STATE: Tetorboro, NJ
CASE NO. 9102 SDG NO. 0[illegible] SDG NOS. TO FOLLOW ____ ____ ____ SAS NO. ____
CONTRACT NO. ____ ASP DATE 12/91

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 / CASE NARRATIVE.	01	03	✓	
3.	Inorganic Analysis Data Sheet (FORM I - IN)	4	7	✓	
4.	Initial & Continuing Calibration Verification (FORM IIA - IN)	8	9	✓	
5.	CRDL Standards For AA and ICP (FORM IIB - IN)	10	10	✓	
6.	Blanks (FORM III - IN)	11	11	✓	
7.	ICP Interference Check Sample (FORM IV - IN)	12	12	✓	
8.	Spike Sample Recovery (FORM VA - IN)	13	13	✓	
9.	Post Digest Spike Sample Recovery (FORM VB - IN)	14	14	✓	
10.	Duplicates (FORM VI - IN)	15	15	✓	
11.	Laboratory Control Sample (FORM VII - IN)	16	16	✓	
12.	Standard Addition Results (FORM VIII - IN)			NA	
13.	ICP Serial Dilutions (FORM IX - IN)	17	17	✓	
14.	Instrument Detection Limits (FORM X - IN)	18	19	✓	
15.	ICP Interelement Correction Factors (FORM XIA - IN)	20	20	✓	
16.	ICP Interference Correction Factors (FORM XIB - IN)	21	22	✓	
17.	ICP Linear Ranges (FORM XII - IN)	23	23	✓	
18.	Preparation Log (FORM XIII - IN)	26	26	✓	
19.	Analysis Run Log (FORM XIV - IN)	27	29	✓	
✓20.	ICP Raw Data	30	92	✓	
21.	Furnace AA Raw Data				
✓22.	Mercury Raw Data	93	102	✓	

FORM DC-2-IN-1



AGFA T6-9/98

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

CASE NO. 9778A SDG NO. 9778A SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____

	PAGE NOS: FROM	TO	CHECK LAB	NYSDEC
23. Cyanide Raw Data	103	104	✓	
24. Preparation Logs Raw Data	105	134	✓	
25. Percent Solids Determination Log				
26. Contract Lab Sample Information Sheet (CLSIS)				
27. NYSDEC Shipping/Receiving Documents				
Airbill (No. of Shipments ____)				
Chain-of-custody Records	135	135	✓	
Sample Tags				
Sample Log-in Sheet (Lab & DC1)	136	137	✓	
SDG Cover Sheet	138	138	✓	
28. Misc Shipping/Receiving Records (list all individual records)				
Telephone Logs				
_____				
_____				
29. Internal Lab Sample Transfer Records & Transfer Sheets (describe or list)				
I-C-P-C	139	140	✓	
metals Dep Batch sheet	141	141	✓	
30. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records _____				
Analysis Records _____				
Description _____				
31. Other Records (describe or list)				
Telephone Communications Log				
ED-Study	142	152	✓	
_____				

32. Comments:

_____

_____

Completed by (CLP Lab)

M. Amin (Signature)

Mae Ann Bolesman, QA Officer (Print Name & Title) 9/27/96 (Date)

Audited by (NYSDEC)

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

FORM DC-2-IN-2

To be included with all lab data and with each workplan

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals TAL metals + cyanide ASP 12/91	*Other
MW-8S	T609198-01						
MW-9S	-02						
E-BLK	-03						
R-BLK	-04						

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Analyzed
T609198-01	water	TAL-Metals + CYANIDE	9/13/96	(*)
-02	↓	↓	↓	↓
-03	↓	↓	↓	↓
-04	↓	↓	↓	↓

(*) ICP = analyzed 9/23/96

Hg = " 9/20/96

CN = " 9/24/96

Laboratory Resources INC.
'erboro Division
) 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: AGFA

Project: Peerless Photo Site Job No.: T609080

CASE No. : 9080A SDG No. : 908001

The following samples are included in this Sample Delivery Group:

LAB ID #	Matrix	CLIENT ID #	ID to be used on forms
T609198-01	water	MW-8S	MW-8S
T609198-02	water	MW-9S	MW-9S
T609198-03	water	Field Blank	F-BLK
T609198-04	water	Rinsate Blank	R-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 water samples for TAL-Metals and Cyanide analysis as per Chain-of-Custody were performed at LRI NJ- Div. for the above work order in one data package with CASE # 9198A and SDG # 919801.

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, Mercury raw data, Cyanide raw data and the last part is General such as sample preparation log and Chain-of-Custody, Sample Log-in-sheet, Internal Chain-of-Custody followed by metals department batch sheet and IDL study.

2. Sample T609198-01 (MW-8S) was analyzed for QC (duplicate and digestion spike) for ICP 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 order.

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.

09-27-96

Moe Amirsoleymani
CLP/ASP, QA/QC Manager

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No.: _____ SDG No.: 919801

SOW No.: 3/90_

NYSDEC Sample No.	Lab Sample ID.
F-BLK	0919803
MW-8S	0919801
MW-8SD	0919801D
MW-8SS	0919801S
MW-9S	0919802
R-BLK	0919804

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: Karen Sandberg

Date: 9/26/96

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-8S

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Lab Sample ID: 0919801

Level (low/med): LOW Date Received: 09/13/96

% 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	121	B		P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	30.5	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	13200			P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	5.6	B		P
7439-89-6	Iron	321			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	3790	B		P
7439-96-5	Manganese	500			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	8.9	B		P
7440-09-7	Potassium	1150	B		P
7782-49-2	Selenium	3.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	12900		E	P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	46.5			P
5955-70-0	Cyanide	4.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-9S

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Lab Sample ID: 0919802

Level (low/med): LOW Date Received: 09/13/96

% 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	420			P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	41.3	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	13800			P
7440-47-3	Chromium	5.2	B		P
7440-48-4	Cobalt	2.2	B		P
7440-50-8	Copper	10.3	B		P
7439-89-6	Iron	1630			P
7439-92-1	Lead	4.0			P
7439-95-4	Magnesium	4030	B		P
7439-96-5	Manganese	513			P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	10.9	B		P
7440-09-7	Potassium	1230	B		P
7782-49-2	Selenium	3.0	U	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	13500		E	P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	52.3			P
5955-70-0	Cyanide	4.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

F-BLK

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Lab Sample ID: 0919803

Level (low/med): LOW Date Received: 09/13/96

% 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	94.6	B		P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	1.7	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	486	B		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.6	B		P
7439-89-6	Iron	26.8	B		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	89.2	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	82.0	U		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	401	B		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	23.8			P
5955-70-0	Cyanide	4.0	U		C

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

R-BLK

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Lab Sample ID: 0919804

Level (low/med): LOW Date Received: 09/13/96

% 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	99.0	B		P
7440-36-0	Antimony	6.0	U		P
7440-38-2	Arsenic	5.0	U		P
7440-39-3	Barium	2.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	576	B		P
7440-47-3	Chromium	4.0	U		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.3	B		P
7439-89-6	Iron	48.9	B		P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	85.7	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.05	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	82.0	U		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	396	B		P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	29.2			P
5955-70-0	Cyanide	4.0	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

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No.: _____ SDG No.: 919801

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	50000.0	49115.76	98.2	50000.0	49226.63	98.5	47325.09	94.7	P
Antimony	500.0	496.95	99.4	500.0	503.48	100.7	482.07	96.4	P
Arsenic	500.0	491.70	98.3	500.0	495.87	99.2	479.05	95.8	P
Barium	500.0	491.61	98.3	500.0	493.61	98.7	477.46	95.5	P
Beryllium	500.0	500.90	100.2	500.0	503.19	100.6	483.43	96.7	P
Cadmium	500.0	485.97	97.2	500.0	489.85	98.0	472.04	94.4	P
Calcium	50000.0	50561.54	101.1	50000.0	50831.06	101.7	48492.94	97.0	P
Chromium	500.0	504.44	100.9	500.0	507.61	101.5	486.14	97.2	P
Cobalt	500.0	487.55	97.5	500.0	490.19	98.0	468.28	93.7	P
Copper	500.0	507.74	101.5	500.0	509.43	101.9	491.76	98.4	P
Iron	50000.0	49598.04	99.2	50000.0	49854.04	99.7	47703.47	95.4	P
Lead	500.0	496.61	99.3	500.0	498.43	99.7	478.50	95.7	P
Magnesium	50000.0	49050.54	98.1	50000.0	49367.68	98.7	47439.64	94.9	P
Manganese	500.0	497.78	99.6	500.0	499.89	100.0	477.57	95.5	P
Mercury	4.0	3.84	96.0	4.0	3.94	98.5	3.93	98.2	CV
Nickel	500.0	499.48	99.9	500.0	504.45	100.9	485.53	97.1	P
Potassium	50000.0	48850.31	97.7	50000.0	48897.23	97.8	46980.75	94.0	P
Selenium	500.0	502.61	100.5	500.0	507.10	101.4	485.67	97.1	P
Silver	500.0	498.22	99.6	500.0	499.14	99.8	479.79	96.0	P
Sodium	50000.0	49184.10	98.4	50000.0	49337.36	98.7	47897.44	95.8	P
Thallium	500.0	482.66	96.5	500.0	489.68	97.9	468.16	93.6	P
Vanadium	500.0	502.54	100.5	500.0	503.68	100.7	477.62	95.5	P
Zinc	500.0	490.38	98.1	500.0	494.21	98.8	471.13	94.2	P
Cyanide	200.0	195.00	97.5	200.0	196.00	98.0			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.: 9198A SAS No.: _____ SDG No.: 919801

Initial Calibration Source: INORGANIC VE

Continuing Calibration Source: INORGANIC VE

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				50000.0	46316.86	92.6			P
Antimony				500.0	489.76	98.0			P
Arsenic				500.0	482.65	96.5			P
Barium				500.0	477.31	95.5			P
Beryllium				500.0	478.36	95.7			P
Cadmium				500.0	475.40	95.1			P
Calcium				50000.0	47844.39	95.7			P
Chromium				500.0	482.36	96.5			P
Cobalt				500.0	463.26	92.7			P
Copper				500.0	485.65	97.1			P
Iron				50000.0	47097.97	94.2			P
Lead				500.0	477.31	95.5			P
Magnesium				50000.0	46833.84	93.7			P
Manganese				500.0	470.35	94.1			P
Mercury				4.0	3.90	97.5			CV
Nickel				500.0	489.12	97.8			P
Potassium				50000.0	46261.53	92.5			P
Selenium				500.0	487.19	97.4			P
Silver				500.0	470.47	94.1			P
Sodium				50000.0	47219.04	94.4			P
Thallium				500.0	472.00	94.4			P
Vanadium				500.0	463.84	92.8			P
Zinc				500.0	467.38	93.5			P
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.: 9198A SAS No.: _____ SDG No.: 919801

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				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony				120.0	113.12	94.3	111.40	92.8
Arsenic				20.0	14.33	71.6	14.50	72.5
Barium								
Beryllium				10.0	9.39	93.9	9.25	92.5
Cadmium				10.0	9.18	91.8	8.95	89.5
Calcium								
Chromium				20.0	18.43	92.2	17.61	88.0
Cobalt				100.0	92.75	92.8	89.19	89.2
Copper				50.0	45.60	91.2	42.50	85.0
Iron								
Lead				6.0	5.51	91.8	5.53	92.2
Magnesium								
Manganese				30.0	27.86	92.9	26.72	89.1
Mercury	0.2	0.16	80.0					
Nickel				80.0	75.53	94.4	73.51	91.9
Potassium								
Selenium				10.0	8.12	81.2	7.15	71.5
Silver				20.0	24.82	124.1	23.90	119.5
Sodium								
Thallium				20.0	21.36	106.8	20.33	101.6
Vanadium				100.0	95.02	95.0	90.02	90.0
Zinc				40.0	37.71	94.3	36.10	90.2

NYSDEC ASP

3
BLANKS

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No.: _____ SDG No.: 919801

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	25.0	U	31.4	B	54.9	B	104.1	B	79.595	B	P
Antimony	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Arsenic	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
[illegible]ium	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	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Calcium	8.0	U	8.0	U	8.0	U	8.0	U	183.946	B	P
Chromium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	-1.8	B	-3.1	B	1.000	U	P
Iron	24.0	U	24.0	U	24.0	U	24.0	U	24.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	6.0	U	6.0	U	6.0	U	6.0	U	35.369	B	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.048	U	CV
Nickel	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Potassium	82.0	U	82.0	U	82.0	U	82.0	U	82.000	U	P
Selenium	3.0	U	-3.2	B	3.0	U	3.0	U	3.000	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	173.0	U	173.0	U	173.0	U	173.0	U	173.000	U	P
Thallium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	1.0	U	1.0	U	1.0	U	1.0	U	9.084	B	P
Cyanide	4.0	U	4.0	U					4.000	U	C

NYSDEC ASP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No: _____ SDG No.: 919801

ICP ID Number: TRACE_____ 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	500000	500000	484912	485552.5	97.1	462630	456493.3	91.3
Antimony		600		611.6	101.9		599.2	99.9
Arsenic		100		96.5	96.5		95.1	95.1
Barium		500		509.3	101.9		489.2	97.8
Beryllium		500		489.0	97.8		464.1	92.8
Cadmium		1000		941.5	94.2		911.8	91.2
Calcium	500000	500000	458191	457338.2	91.5	441540	434484.6	86.9
Chromium		500		488.0	97.6		462.6	92.5
Cobalt		500		471.1	94.2		445.7	89.1
Copper		500		528.4	105.7		500.9	100.2
Iron	200000	200000	191830	192864.5	96.4	183614	182130.9	91.1
Lead		50		46.8	93.6		44.0	88.0
Magnesium	500000	500000	516448	515342.4	103.1	499233	490838.8	98.2
Manganese		500		488.7	97.7		460.3	92.1
Mercury								
Nickel		1000		950.5	95.0		921.0	92.1
Potassium								
Selenium		50		45.2	90.4		46.0	92.0
Silver		200		182.6	91.3		171.6	85.8
Sodium								
Thallium		100		98.6	98.6		95.3	95.3
Vanadium		500		502.0	100.4		466.0	93.2
Zinc		1000		912.6	91.3		866.0	86.6

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-8S

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1912.1660		120.6940	B	2000.00	89.6		P
Antimony	75-125	456.0610		6.0000	U	500.00	91.2		P
Arsenic	75-125	33.7150		5.0000	U	40.00	84.3		P
Barium	75-125	1823.5090		30.4780	B	2000.00	89.7		P
Beryllium	75-125	45.9320		1.0000	U	50.00	91.9		P
Cadmium	75-125	45.9430		1.0000	U	50.00	91.9		P
Calcium									NR
Chromium	75-125	195.0510		4.0000	U	200.00	97.5		P
balt	75-125	431.7800		1.6310	B	500.00	86.0		P
opper	75-125	221.2600		5.6240	B	250.00	86.3		P
Iron	75-125	1338.2830		321.3340		1000.00	101.7		P
Lead	75-125	17.5570		2.0000	U	20.00	87.8		P
Magnesium									NR
Manganese	75-125	943.5140		499.5070		500.00	88.8		P
Mercury	75-125	0.9770		0.1000	U	1.00	97.7		CV
Nickel	75-125	480.4650		8.9330	B	500.00	94.3		P
Potassium									NR
Selenium	75-125	6.6380		3.0000	U	10.00	66.4	N	P
Silver	75-125	47.2150		1.0000	U	50.00	94.4		P
Sodium									NR
Thallium	75-125	42.1110		6.0000	U	50.00	84.2		P
Vanadium	75-125	462.0500		1.0000	U	500.00	92.4		P
Zinc	75-125	494.9110		46.5090		500.00	89.7		P
Cyanide	75-125	100.0000		4.0000	U	100.00	100.0		C

Comments:

NYSDEC ASP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

NYSDEC SAMPLE NO.

MW-8SA

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		9.46		3.00	U	10.0	94.6		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									

Comments:

NYSDEC ASP

6
DUPLICATES

NYSDEC SAMPLE NO.

MW-8SD

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		120.6940	B	119.7890	B	0.8		P
Antimony		6.0000	U	6.0000	U			P
Arsenic		5.0000	U	5.0000	U			P
Barium		30.4780	B	32.1330	B	5.3		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		1.0000	U	1.0000	U			P
Calcium	5000.0	13193.6580		13661.0430		3.5		P
Chromium		4.0000	U	4.0000	U			P
Cobalt		1.6310	B	2.2780	B	33.1		P
Copper		5.6240	B	6.5780	B	15.6		P
Iron	100.0	321.3340		322.3750		0.3		P
Lead		2.0000	U	2.0000	U			P
Magnesium		3788.1350	B	3936.9060	B	3.9		P
Manganese		499.5070		520.2870		4.1		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		8.9330	B	9.5170	B	6.3		P
Potassium		1154.8780	B	1160.4910	B	0.5		P
Selenium		3.0000	U	3.0000	U			P
Silver		1.0000	U	1.0000	U			P
Sodium	5000.0	12858.0000		13382.4780		4.0		P
Thallium		6.0000	U	6.0000	U			P
Vanadium		1.0000	U	1.0000	U			P
Zinc	20.0	46.5090		48.7710		4.7		P
Cyanide		4.0000	U	4.0000	U			C

7

LABORATORY CONTROL SAMPLE

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No.: _____ SDG No.: 919801

Solid LCS Source: _____

Aqueous LCS Source: SPEX_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	2000.0	1955.42	97.8						
Antimony	500.0	488.76	97.8						
Arsenic	40.0	35.83	89.6						
Barium	2000.0	1923.05	96.2						
Beryllium	50.0	49.18	98.4						
Cadmium	50.0	49.36	98.7						
lcium	20000.0	20211.16	101.1						
romium	200.0	208.58	104.3						
Cobalt	500.0	464.28	92.9						
Copper	250.0	228.24	91.3						
Iron	1000.0	1001.60	100.2						
Lead	20.0	16.90	84.5						
Magnesium	20000.0	18985.51	94.9						
Manganese	500.0	498.63	99.7						
Mercury	1.0	0.96	96.3						
Nickel	500.0	507.38	101.5						
Potassium	20000.0	19455.36	97.3						
Selenium	10.0	8.43	84.3						
Silver	50.0	50.56	101.1						
Sodium	20000.0	19978.28	99.9						
Thallium	50.0	46.62	93.2						
Vanadium	500.0	498.00	99.6						
Zinc	500.0	501.72	100.3						
Cyanide	200.0	190.00	95.0						

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NYSDEC ASP

9

ICP SERIAL DILUTION

NYSDEC SAMPLE NO.

MW-8S L

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	120.69	B	327.52	B	171.4		P
Antimony	6.00	U	30.00	U			P
Arsenic	5.00	U	25.00	U			P
Barium	30.48	B	31.86	B	4.5		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	13193.66		13656.76	B	3.5		P
Chromium	4.00	U	20.00	U			P
Cobalt	1.63	B	5.00	U	100.0		P
Copper	5.62	B	5.00	U	100.0		P
Iron	321.33		331.74	B	3.2		P
Lead	2.00	U	10.00	U			P
Magnesium	3788.14	B	3861.92	B	1.9		P
Manganese	499.51		491.86		1.5		P
Mercury							
Nickel	8.93	B	15.00	U	100.0		P
Potassium	1154.88	B	959.64	B	16.9		P
Selenium	3.00	U	15.00	U			P
Silver	1.00	U	5.00	U			P
Sodium	12858.00		14769.85	B	14.9	E	P
Thallium	6.00	U	30.00	U			P
Vanadium	1.00	U	5.00	U			P
Zinc	46.51		51.42	B	10.6		P

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No.: _____ SDG No.: 919801

ICP ID Number: TRACE_____ Date: 07/13/96

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	25.0	P
Antimony	206.80		60	6.0	P
Arsenic	189.00		10	5.0	P
Barium	234.60		200	1.0	P
Beryllium	313.00		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.90		5000	8.0	P
Chromium	267.70		10	4.0	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	1.0	P
Iron	271.40		100	24.0	P
Lead	220.30		3	2.0	P
Magnesium	279.00		5000	6.0	P
Manganese	257.60		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	3.0	P
Potassium	766.40		5000	82.0	P
Selenium	196.00		5	3.0	P
Silver	328.00		10	1.0	P
Sodium	330.20		5000	173.0	P
Thallium	190.80		10	6.0	P
Vanadium	292.40		50	1.0	P
Zinc	206.20		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.: 9198A SAS No.: _____ SDG No.: 919801

ICP ID Number: _____ Date: 08/14/96

Flame AA ID Number : PEAS90_____

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	0.048	CV	DDB 9/24/96
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:

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NYSDEC ASP

11A
ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No.: _____ SDG No.: 919801

ICP ID Number: TRACE_____ Date: 03/27/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	CA
Aluminum	308.20		-0.0002100	-0.0005800	-0.0002000	
Antimony	206.80					
Arsenic	189.00					
Barium	234.60					
Beryllium	313.00					
Cadmium	226.50			0.0000770		
Calcium	317.90	0.0000180		-0.0001100	0.0001000	
Chromium	267.70				0.0000050	
›balt	228.60					
‹opper	324.70	0.0000040	0.0000090	0.0000220	0.0000090	
Iron	271.40	0.0000180	0.0000370		-0.0009600	
Lead	220.30	0.0002320		0.0000910		0.0000100
Magnesium	279.00		0.0000160	0.0001970		
Manganese	257.60				0.0000190	
Mercury						
Nickel	231.60				0.0000040	
Potassium	766.40		-0.0000100		-0.0000200	
Selenium	196.00			-0.0000300		
Silver	328.00					
Sodium	330.20	0.0000190		0.0001430	0.0000320	
Thallium	190.80	-0.0000100		-0.0001300		
Vanadium	292.40			0.0000360		
Zinc	206.20			0.0000160		

Comments:

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NYSDEC ASP

11B
ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

ICP ID Number: TRACE Date: 03/27/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : CR	FE	LL	MG	MN
Aluminum	308.20	-0.0127400				
Antimony	206.80	0.0045400				
Arsenic	189.00	0.0002700				
Barium	234.60					
Beryllium	313.00					
Cadmium	226.50					
Calcium	317.90	0.0042920				
Chromium	267.70					
Cobalt	228.60	-0.0002500				
Copper	324.70	0.0007720				
Iron	271.40	0.0015190				
Lead	220.30		0.0000560	-0.0001700	0.0000110	
Magnesium	279.00					
Manganese	257.60					
Mercury						
Nickel	231.60					
Potassium	766.40	-0.0006000				
Selenium	196.00	-0.0004200	-0.0003000			0.0004590
Silver	328.00					
Sodium	330.20	0.0039040				
Thallium	190.80	0.0003840				
Vanadium	292.40					
Zinc	206.20	0.0014800				

Comments:

NYSDEC ASP

11B

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: LRI Contract:

Lab Code: LRI Case No.: 9198A SAS No.: SDG No.: 919801

ICP ID Number: TRACE Date: 03/27/96

Analyte	Wave-length (nm)	Interelement Correction Factors for : MN	V_	V_	__	__
Aluminum	308.20	-0.0128800	0.0142170			
Antimony	206.80					
Arsenic	189.00					
Barium	234.60					
Beryllium	313.00		0.0003030			
Cadmium	226.50					
Calcium	317.90	0.0044100	0.0060550			
Chromium	267.70					
Cobalt	228.60					
Copper	324.70	0.0009360	0.0006910			
Iron	271.40		0.0113220			
Lead	220.30	-0.0002400	-0.0003000			
Magnesium	279.00	-0.0033400	0.0003910			
Manganese	257.60					
Mercury						
Nickel	231.60					
Potassium	766.40	-0.0003600	-0.0004400			
Selenium	196.00	0.0003010	-0.0003500	0.0002140		
Silver	328.00					
Sodium	330.20	0.0045920	0.0064700			
Thallium	190.80	0.0005310	0.0017990			
Vanadium	292.40					
Zinc	206.20					

Comments:

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A SAS No.: _____ SDG No.: 919801

ICP ID Number: TRACE_____ Date: 09/13/96

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	500000.0	P
Antimony	15.00	50000.0	P
Arsenic	15.00	10000.0	P
Barium	15.00	100000.0	P
Beryllium	15.00	10000.0	P
Cadmium	15.00	20000.0	P
Calcium	15.00	500000.0	P
Chromium	15.00	50000.0	P
Cobalt	15.00	50000.0	P
Copper	15.00	50000.0	P
Iron	15.00	500000.0	P
Lead	15.00	10000.0	P
Magnesium	15.00	500000.0	P
Manganese	15.00	20000.0	P
Mercury			NR
Nickel	15.00	50000.0	P
Potassium	15.00	200000.0	P
Selenium	15.00	10000.0	P
Silver	15.00	5000.0	P
Sodium	15.00	400000.0	P
Thallium	15.00	20000.0	P
Vanadium	15.00	20000.0	P
Zinc	15.00	20000.0	P

Comments:

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NYSDEC ASP

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.:_9198A_ SAS No.: _____ SDG No.:919801

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F-BLK	09/20/96		100
LCSW	09/20/96		100
MW-8S	09/20/96		100
MW-8SD	09/20/96		100
MW-8SS	09/20/96		100
MW-9S	09/20/96		100
PBW	09/20/96		100
R-BLK	09/20/96		100

NYSDEC ASP

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A_ SAS No.: _____ SDG No.:919801

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F-BLK	09/20/96		100
LCSW	09/20/96		100
MW-8S	09/20/96		100
MW-8SD	09/20/96		100
MW-8SS	09/20/96		100
MW-9S	09/20/96		100
PBW	09/20/96		100
R-BLK	09/20/96		100

NYSDEC ASP

13
PREPARATION LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A_ SAS No.: _____ SDG No.:919801

Method: C_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
F-BLK	09/23/96		250
LCSW	09/23/96		250
MW-8S	09/23/96		250
MW-8SD	09/23/96		250
MW-8SS	09/23/96		250
MW-9S	09/23/96		250
PBW	09/23/96		250
R-BLK	09/23/96		250

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NYSDEC ASP

14
ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A_ SAS No.: _____ SDG No.:919801

Instrument ID Number: TRACE_____ Method: P_

Start Date: 09/23/96 End Date: 09/23/96

ASP 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	0932		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
STD2	1.00	0937			X	X	X	X	X		X	X	X		X		X	_	X		X	X		X	X	X	_			
STD3	1.00	0941		X						X				X		X		_		X			X				_			
ICV	1.00	0949		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
ICB	1.00	0953		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
CCV	1.00	0958		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
CCB	1.00	1002		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
ZZZZZZ	1.00	1007		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			
CRI	1.00	1012		_	X	X	_	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_			
SA	1.00	1018		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
ICSAB	1.00	1023		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
PBW	1.00	1027		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
LCSW	1.00	1032		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
MW-8S	1.00	1037		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
MW-8SD	1.00	1041		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
MW-8SS	1.00	1046		X	X	X	X	X	X		X	X	X	X	X		X	_	X		X	X		X	X	X	_			
MW-8SL	5.00	1050		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
CCV	1.00	1055		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
CCB	1.00	1059		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
MW-9S	1.00	1104		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
F-BLK	1.00	1109		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
R-BLK	1.00	1113		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
MW-8SA	1.00	1118		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	X	_	_	_	_	_	_			
ZZZZZZ	1.00	1123		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			
CRI	1.00	1127		_	X	_	_	X	X	_	X	X	X	_	X	_	X	_	X	_	X	X	_	X	X	X	_			
CRI	1.00	1132				X																								
ICSA	1.00	1137		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
ICSAB	1.00	1141		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
CCV	1.00	1146		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
CCB	1.00	1151		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	X	X	X	X	X	X	X	_			
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			

NYSDEC ASP

14
ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A_ SAS No.: _____ SDG No.:919801

Instrument ID Number: PEAS90_____ Method: CV

Start Date: 09/20/96 End Date: 09/20/96

ASP 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	0544																X									
S0	1.00	0546																X									
S1	1.00	0548																X									
S2	1.00	0551																X									
S4	1.00	0553																X									
S8	1.00	0555																X									
ICV	1.00	0557																X									
ICB	1.00	0600																X									
CCV	1.00	0602																X									
CB	1.00	0604																X									
RA	1.00	0607																X									
PBW	1.00	0609																X									
LCSW	1.00	0611																X									
MW-8S	1.00	0613																X									
MW-8SD	1.00	0616																X									
MW-8SS	1.00	0618																X									
MW-9S	1.00	0620																X									
F-BLK	1.00	0622																X									
R-BLK	1.00	0625																X									
ZZZZZZ	1.00	0627																									
CCV	1.00	0629																X									
CCB	1.00	0631																X									
ZZZZZZ	1.00	0634																									
ZZZZZZ	1.00	0636																									
ZZZZZZ	1.00	0638																									
ZZZZZZ	1.00	0640																									
ZZZZZZ	1.00	0643																									
ZZZZZZ	1.00	0645																									
CCV	1.00	0647																X									
CCB	1.00	0649																X									

NYSDEC ASP

14
ANALYSIS RUN LOG

Lab Name: LRI_____ Contract: _____

Lab Code: LRI___ Case No.: 9198A_ SAS No.: _____ SDG No.:919801

Instrument ID Number: TRAACS_____ Method: C_

Start Date: 09/24/96 End Date: 09/24/96

ASP 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	0900																								X
S10	1.00	0905																								X
S50	1.00	0910																								X
S100	1.00	0915																								X
S300	1.00	0920																								X
S500	1.00	0925																								X
ICV	1.00	0930																								X
ICB	1.00	0935																								X
PBW	1.00	0940																								X
SW	1.00	0945																								X
ZZZZZZ	2.00	0950																								
ZZZZZZ	1.00	0955																								
MW-8S	1.00	1000																								X
MW-8SD	1.00	1005																								X
MW-8SS	1.00	1010																								X
MW-9S	1.00	1015																								X
F-BLK	1.00	1020																								X
R-BLK	1.00	1025																								X
CCV	1.00	1030																								X
CCB	1.00	1035																								X

Laboratory Resources Inc.
Division: Teterboro
Department: Metals

ANALYSIS RUN LOG
= TRACE ICP =

Date: 9/23/96
Shift: Pny
Instr: TJA 61E Trace
Table: 091996A
Data File: 0923A
Analyst: Mike Polidori
Batch No.: 2119
Raw Data w/: 2119
Reviewed By:

Standard Id.	LRI Lot No.
STD1-BLANK	STD1 Blank 091996
STD2	STD2-091796
STD3	STD3-090996
STD4	
STD5	
ICV/CCV	ICV/CCV-091996
ICB/CCB	ICB/CCB-091996
HIGH STD	
ICSA	ICSA-091696
ICSAB CLP	ICSABCLP-091696
ICSAB SW846	
CRI CLP	CRI CLP-091696
CRI SW846	
10XPQL	
100XPQL	
IDL SOLN	
AUTOIECAl	
AUTOIECCa	
AUTOIECMg	
AUTOIECFe	

LRI Sample Id.	Batch No.	Cup No.	Matrix	Factors Prep	Instr	Final	Elements
ICV-1-1		2-1			10		
ICB-1-1		2-2			↓		
CCV-1-1		2-3			↓		
CCB-1-1		2-4			↓		
~~1 AUTOIECAl~~							
~~2 AUTOIECCa~~							
~~3 AUTOIECMg~~							
CRIA-1-1 ~~4 AUTOIECFe~~		2-5			10		
5 CRI-1-1		2-6			↓		
6 ICSA-1-1		2-7			↓		
7 ICSAB-1-1		2-8			↓		
~~ccv~~ PBW-2119	2119	2-9	Liquid	10		10	TALMETALS
~~ccb~~ LCSW-2119	↓	2-10	↓	↓		↓	↓
0919901	↓	2-11	↓	↓		↓	↓
0919901D	↓	2-12	↓	↓		↓	↓
0919901S	↓	2-13	↓	↓		↓	↓
0919901L	↓	2-14	↓	↓	5X	50	↓
CCV-1-2		2-15			10		
CCB-1-2		2-16			↓		
0919902	2119	2-17	Liquid	10		10	TALMETALS

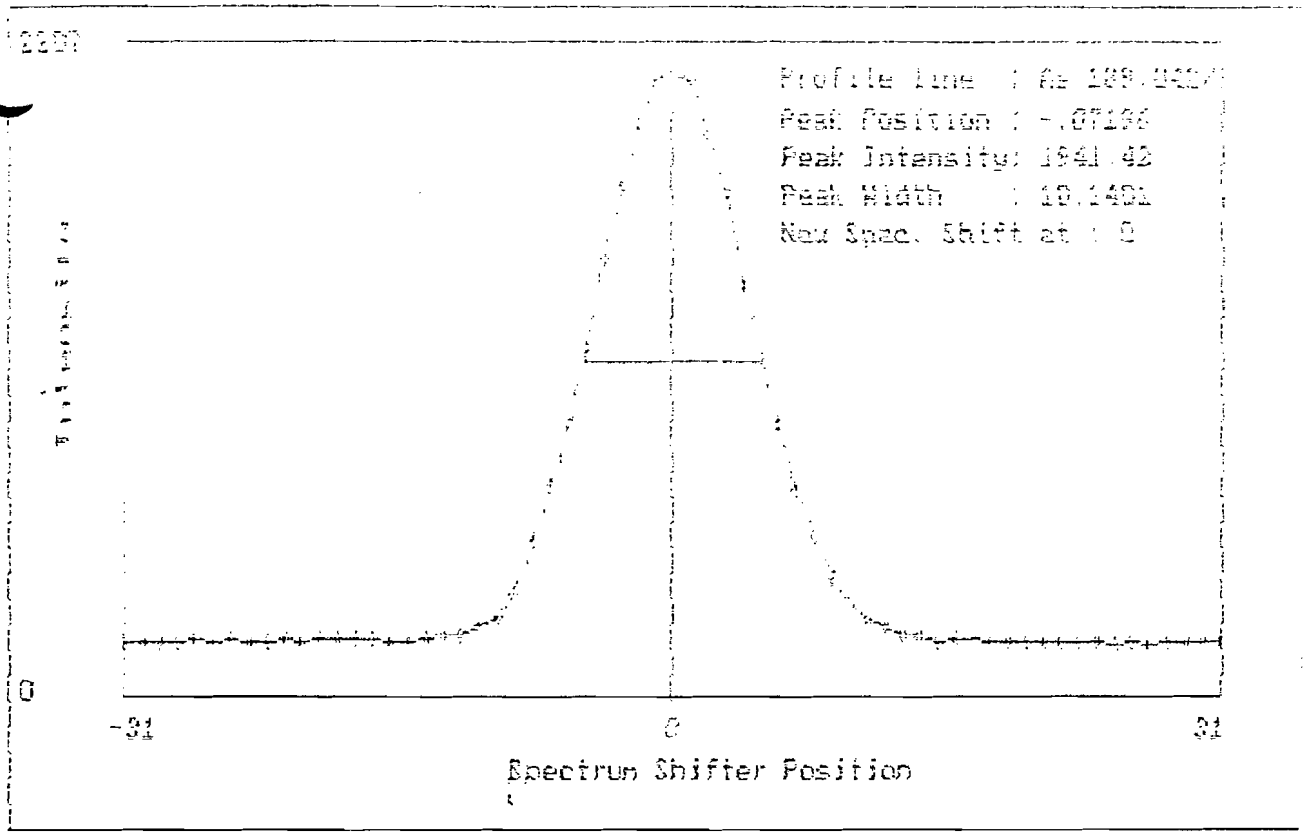
Laboratory Resources Inc.
Division: Peterboro
Department: Metals

ANALYSIS RUN LOG
= TRACE ICP =

Date: 9/23/96
Analyst: M. KeRoldy

Batch No.: 2110

LRI Sample Id.	Batch No.	Cup No.	Matrix	Factors Prep	Factors Instr	Factors Final	Elements
0919903	2110	2-19	Liquid	ID		ID	TAL METALS
0919904		2-14	↓	↓		↓	↓
0919901A		2-20	↓	↓		↓	Se Spiked with 10ml of 10 ppm Se to 100ml sample conc = 10 ppb
CRI A-1-2		2-21			ID		
CRI-1-2		2-22			↓		As is low see RE
CRI-1-2		2-23					
ICSA-1-2		2-24					
ICSAB-1-2		2-25					
CCV-1-3		2-26					
CCB-1-3		2-27			↓		


Profile Line : As 189.042
Peak Position : -.07196
Peak Intensity: 1941.42
Peak Width : 10.1401
New Spec. Shift at : 0
0
-31
0
31
Spectrum Shifter Position

Method: LR1 Standard: STD1-Blank

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Avge	-.0046	-.0073	.0011	.0030	.0006	-.0195	.0081
SDev	.0001	.0004	.0028	.0001	.0004	.0003	.0002
%RSD	1.884	5.119	265.0	5.065	79.85	1.579	2.616
#1	-.0046	-.0069	.0034	.0031	.0001	-.0199	.0083
#2	-.0045	-.0072	.0019	.0028	.0010	-.0195	.0081
#3	-.0046	-.0077	-.0021	.0030	.0006	-.0192	.0078

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Avge	.0001	-.0004	-.0001	.0075	-.0009	.5772	-.0003
SDev	.0000	.0004	.0001	.0002	.0005	.0082	.0000
%RSD	1.617	118.5	86.60	3.090	51.60	1.416	9.691
#1	.0001	-.0002	.0000	.0077	-.0015	.5865	-.0003
#2	.0001	-.0001	-.0002	.0076	-.0006	.5742	-.0003
#3	.0001	-.0008	-.0002	.0073	-.0008	.5710	-.0003

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Avge	.0001	.0001	-.0010	.0003	.0197	-.0036	.0006
SDev	.0000	.0001	.0035	.0004	.0039	.0011	.0001
%RSD	33.51	89.07	347.2	128.6	19.85	30.12	19.49
#1	.0001	.0000	.0028	.0008	.0152	-.0036	.0006
#2	.0001	.0002	-.0017	.0001	.0226	-.0047	.0005
#3	.0001	.0002	-.0041	.0001	.0213	-.0025	.0007

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Avge	.0005	.0004	-.0110	.0101	-.0004	.0009	-.0085
SDev	.0000	.0008	.0019	.0033	.0004	.0002	.0011
%RSD	1.617	241.8	17.37	32.80	122.4	18.91	13.47
#1	.0005	-.0005	-.0114	.0139	.0000	.0010	-.0077
#2	.0005	.0012	-.0126	.0089	-.0002	.0009	-.0080
#3	.0004	.0003	-.0089	.0076	-.0008	.0007	-.0098

Elem	V_2924	Zn2062
Avge	.0000	.0002
SDev	.0000	.0001
%RSD	173.2	45.06
#1	.0000	.0002
#2	.0001	.0001
#3	.0000	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17643	--	--	--	--	--	--
SDev	283.3837	--	--	--	--	--	--
%RSD	1.606180	--	--	--	--	--	--
#1	17327	--	--	--	--	--	--
#2	17729	--	--	--	--	--	--
#3	17874	--	--	--	--	--	--

Method: [illegible] Standard: STD2

Elem	Ag3280	As1890	B_2496	Ba4934	Be3130	Ca22[illegible]	Co22[illegible]
Avge	1.000	1.538	.5849	12.10	2.319	.5739	.6907
SDev	.001	.004	.0001	.01	.003	.0007	.0012
%RSD	.0905	.2404	.0096	.0837	.1459	.1259	.1770
#1	1.000	1.534	.5848	12.11	2.318	.5738	.6906
#2	1.002	1.540	.5849	12.11	2.323	.5747	.6920
#3	.9998	1.540	.5848	12.09	2.316	.5731	.6896

Elem	Cr2677	Cu3247	Mn2576	Mo2020	Ni2316	2203-1	2203-2
Avge	.6273	.7004	.7201	.3181	.5484	4.795	4.460
SDev	.0009	.0011	.0010	.0006	.0006	.027	.076
%RSD	.1511	.1581	.1436	.2039	.1148	.5641	1.697
#1	.6270	.6997	.7201	.3174	.5484	4.827	4.374
#2	.6283	.7017	.7212	.3187	.5490	4.780	4.515
#3	.6265	.6998	.7191	.3182	.5477	4.779	4.491

Elem	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908	V_2924
Avge	.3825	1.485	1.400	.2520	.6646	.9739	.3134
SDev	.0010	.007	.023	.0009	.0008	.0012	.0007
%RSD	.2668	.4555	1.644	.3469	.1130	.1236	.2096
#1	.3814	1.489	1.374	.2518	.6648	.9736	.3135
#2	.3830	1.488	1.415	.2530	.6653	.9729	.3141
#3	.3832	1.477	1.413	.2513	.6638	.9753	.3128

Elem	Zn2062
Avge	.3844
SDev	.0008
%RSD	.1953
#1	.3842
#2	.3853
#3	.3839

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17951	--	--	--	--	--	--
SDev	88.01704	--	--	--	--	--	--
%RSD	.4903183	--	--	--	--	--	--
#1	17862	--	--	--	--	--	--
#2	17953	--	--	--	--	--	--
#3	18038	--	--	--	--	--	--

Method: LR1 Standard: STD3

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na3302
Avge	16.04	25.51	11.36	37.98	14.28	3.542
SDev	.08	.12	.07	.17	.07	.016
%RSD	.4843	.4733	.5911	.4511	.4920	.5272
#1	15.95	25.38	11.29	37.79	14.21	3.525
#2	16.11	25.62	11.42	38.12	14.35	3.563
#3	16.04	25.51	11.38	38.01	14.29	3.534

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17967	--	--	--	--	--	--
SDev	88.08140	--	--	--	--	--	--
%RSD	.4902490	--	--	--	--	--	--
#1	18065	--	--	--	--	--	--
#2	17895	--	--	--	--	--	--
#3	17940	--	--	--	--	--	--

Standardization Report [illegible]

Method: Lin [illegible] Slope = Corr Sig/Lin

Element	Wavelen	High std	Low std	Slope	Y-Intercept	Date Standardized
Ag3280	328.068	STD2	STD1-Blank	994.980	4.53075	09/23/96 09:41:52
Al3082	308.215	STD3	STD1-Blank	6237.16	45.3445	09/23/96 09:41:52
As1890	189.042	STD2	STD1-Blank	650.713	-.693313	09/23/96 09:41:52
B_2496	249.678	STD2	STD1-Blank	1719.22	-5.13353	09/23/96 09:41:52
Ba4934	493.409	STD2	STD1-Blank	82.6353	-.046557	09/23/96 09:41:52
Be3130	313.042	STD2	STD1-Blank	427.793	8.35036	09/23/96 09:41:52
Ca3179	317.933	STD3	STD1-Blank	3921.72	-31.5718	09/23/96 09:41:52
Cd2265	226.502	STD2	STD1-Blank	1742.82	-.197595	09/23/96 09:41:52
Co2286	228.616	STD2	STD1-Blank	1446.99	.515491	09/23/96 09:41:52
Cr2677	267.716	STD2	STD1-Blank	1593.94	.179082	09/23/96 09:41:52
Cu3247	324.753	STD2	STD1-Blank	1443.83	-10.8600	09/23/96 09:41:52
Fe2714	271.441	STD3	STD1-Blank	8797.16	8.35102	09/23/96 09:41:52
K_7664	766.491	STD3	STD1-Blank	.851091	.024288	09/23/96 09:41:52
Mg2790	279.078	STD3	STD1-Blank	6999.83	2.11459	09/23/96 09:41:52
Mn2576	257.610	STD2	STD1-Blank	1388.82	-.130742	09/23/96 09:41:52
Mo2020	202.030	STD2	STD1-Blank	3144.72	-.411962	09/23/96 09:41:52
Na3302	330.232	STD3	STD1-Blank	.820812	.001084	09/23/96 09:41:52
Ni2316	231.604	STD2	STD1-Blank	1824.63	-.594065	09/23/96 09:41:52
2203-1	220.351	STD2	STD1-Blank	209.398	-4.12222	09/23/96 09:41:52
2203-2	220.352	STD2	STD1-Blank	223.935	.804484	09/23/96 09:41:52
Pb2203	220.353	none	STD1-Blank	1.00000	.000000	*NOT STANDARDIZED
Se1960	196.026	none	STD1-Blank	1.00000	.000000	*NOT STANDARDIZED
Sb2068	206.838	STD2	STD1-Blank	2648.52	-.934869	09/23/96 09:41:52
1960-1	196.021	STD2	STD1-Blank	668.644	7.34561	09/23/96 09:41:52
960-2	196.022	STD2	STD1-Blank	719.255	-7.26832	09/23/96 09:41:52
Sn1899	189.989	STD2	STD1-Blank	3908.19	1.38718	09/23/96 09:41:52
Ti3372	337.280	STD2	STD1-Blank	1506.49	-1.28302	09/23/96 09:41:52
Tl1908	190.864	STD2	STD1-Blank	1020.95	8.70859	09/23/96 09:41:52
V_2924	292.402	STD2	STD1-Blank	3190.52	-.059987	09/23/96 09:41:52
Zn2062	206.200	STD2	STD1-Blank	2603.10	-.395288	09/23/96 09:41:52

Method: LAL Sample Name: ICV-1 Operator:
Run Time: 09/23/96 09:49:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	498.2	49120.	491.7	511.9	491.6	500.5	50560.
SDev	3.4	318.	6.0	3.6	3.2	3.2	376.
%RSD	.6858	.6481	1.211	.7122	.6494	.6311	.7440
#1	502.2	49480.	498.5	516.1	495.3	504.5	50990.
#2	496.1	48910.	488.8	510.2	489.6	498.6	50280.
#3	496.4	48950.	487.8	509.4	489.9	499.6	50410.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	55000.	550.0	550.0	550.0	550.0	55000.
Low	450.0	45000.	450.0	450.0	450.0	450.0	45000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	486.0	487.5	504.4	507.7	49600.	48850.	49050.
SDev	2.8	3.6	3.1	3.2	330.	351.	353.
%RSD	.5698	.7346	.6119	.6226	.6647	.7185	.7188
#1	489.1	491.5	508.0	511.4	49970.	49250.	49450.
#2	483.8	484.6	502.3	505.7	49350.	48630.	48790.
#3	485.0	486.5	503.1	506.1	49480.	48670.	48900.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	550.0	550.0	550.0	55000.	55000.	55000.
Low	450.0	450.0	450.0	450.0	45000.	45000.	45000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	497.8	501.5	49180.	499.5	496.0	496.9	496.6
SDev	3.3	4.2	441.	4.2	5.2	1.9	1.6
%RSD	.6589	.8282	.8962	.8444	1.046	.3787	.3281
#1	501.6	506.1	49690.	504.3	501.2	495.1	497.1
#2	495.6	498.0	48930.	496.6	490.8	496.8	494.8
#3	496.1	500.5	48930.	497.5	496.1	498.8	497.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	550.0	550.0	55000.	550.0			550.0
Low	450.0	450.0	45000.	450.0			450.0

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	502.6	496.9	498.4	504.7	502.9	504.7	482.7
SDev	.7	2.3	3.8	1.5	4.3	3.6	3.2
%RSD	.1356	.4727	.7623	.2970	.8532	.7070	.6619
#1	503.3	499.1	502.4	503.7	507.8	508.8	485.0
#2	502.6	494.5	494.9	506.5	501.2	502.4	479.3
#3	501.9	497.3	497.7	504.0	499.7	502.8	485.7
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	550.0	550.0			550.0	550.0	550.0

Low	450.0	450.0			450.0	450.0	450.0
Elem	V_2924	Zn2062					
Units	ug/L	ug/L					
Avge	502.5	490.4					
SDev	3.9	3.8					
%RSD	.7688	.7751					
#1	507.0	494.7					
#2	500.2	487.5					
#3	500.4	488.9					
Errors	LC Pass	LC Pass					
High	550.0	550.0					
Low	450.0	450.0					

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18163	--	--	--	--	--	--
SDev	132.4877	--	--	--	--	--	--
%RSD	.7294375	--	--	--	--	--	--
#1	18011	--	--	--	--	--	--
#2	18254	--	--	--	--	--	--
#3	18224	--	--	--	--	--	--

Analysis Report [illegible]

Method: [illegible] Sample Name: [illegible] Operator: [illegible]
Run Time: [illegible]
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2383	21.42	-3.104	-.9983	.0701	.2880	-.4352
SDev	.2769	2.76	1.850	.4118	.0607	.0331	.9545
%RSD	116.2	12.89	59.58	41.25	86.87	11.49	219.4
#1	.0508	22.32	-2.106	-1.030	.0745	.3206	.3399
#2	-.5013	23.62	-1.968	-1.393	.1287	.2544	-1.501
#3	-.2642	18.33	-5.239	-.5717	.0071	.2891	-.1440
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.000	200.0	10.00		200.0	5.000	5000.
Low	-5.000	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0545	.0179	-.0221	-.5974	5.807	-32.70	3.634
SDev	.2183	.4470	.4258	.1354	5.481	2.93	.759
%RSD	400.8	2492.	1927.	22.67	94.39	8.954	20.89
#1	.1799	.5153	.2657	-.4431	11.21	-29.79	4.395
#2	.1811	-.3502	.1792	-.6529	5.955	-32.66	2.877
#3	-.1976	-.1113	-.5113	-.6964	.2527	-35.64	3.631
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	50.00	10.00	25.00	100.0	5000.	5000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.0197	1.294	81.68	.1322	-.1571	1.332	.8368
SDev	.0003	.615	112.6	.4465	1.1914	.907	.6442
%RSD	1.540	47.55	137.9	337.8	758.6	68.04	76.99
#1	.0196	1.976	197.2	.5937	.8118	1.890	1.532
#2	.0201	1.127	75.64	.1005	-1.487	1.820	.7192
#3	.0196	.7800	-27.78	-.2977	.2043	.2863	.2594
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	15.00		5000.	40.00			3.000
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.1398	-1.016	-.2261	-.0974	-.3136	.0520	3.640
SDev	.3783	1.790	1.8037	1.1544	1.5542	.1238	1.954
%RSD	270.7	176.1	797.9	1186.	495.6	238.1	53.68
#1	-.2564	.3504	-2.086	.6561	1.409	.1880	5.038
#2	.2831	-.3567	-.1088	.4781	-1.611	-.0542	[illegible]
#3	-.4460	-3.043	1.516	-1.426	-.7388	.0222	1.408
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	5.000	60.00					10.00

000145

Elem	V_292[illegible]	[illegible]					
Units	ug/L	ug/L					
Avge	.2294	-.2069					
SDev	.1061	.2163					
%RSD	46.25	104.5					
#1	.2857	-.3954					
#2	.2868	.0292					
#3	.1128	-.2540					
Errors	LC Pass	LC Pass					
High	50.00	20.00					
Low	-50.00	-20.00					
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18430	--	--	--	--	--	--
SDev	39.62743	--	--	--	--	--	--
%RSD	.2150120	--	--	--	--	--	--
#1	18434	--	--	--	--	--	--
#2	18389	--	--	--	--	--	--
#3	18468	--	--	--	--	--	--

Method: [illegible] Sample ID: [illegible] Operator:
Run Time: [illegible]
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3092	As1890	[illegible]2496	[illegible]4924	Be31[illegible]	[illegible]21 9
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	499.[illegible]	49220.	495.1	513.0	491.6	503.[illegible]	50[illegible]0.
SDev	1.0	110.	2.9	2.1	.9	.6	72.
%RSD	.1995	.2232	.5570	.4188	.1876	.1192	.1412
#1	499.3	49330.	492.9	513.3	494.3	503.5	50080.
#2	499.7	49250.	498.4	514.9	494.0	503.5	50860.
#3	498.0	49110.	496.3	510.7	492.6	502.5	50750.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	55000.	550.0	550.0	550.0	550.0	55000.
Low	450.0	45000.	450.0	450.0	450.0	450.0	45000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	489.8	490.2	507.6	509.4	49850.	48900.	49370.
SDev	.7	.3	.8	1.1	66.	82.	72.
%RSD	.1355	.0632	.1564	.2147	.1321	.1679	.1456
#1	490.3	490.5	506.9	510.2	49860.	48960.	49420.
#2	490.1	490.2	508.5	509.9	49920.	48930.	49400.
#3	489.1	489.9	507.4	508.2	49790.	48800.	49290.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	550.0	550.0	550.0	55000.	55000.	55000.
Low	450.0	450.0	450.0	450.0	45000.	45000.	45000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	499.9	503.9	49340.	504.5	497.4	498.9	498.4
SDev	.7	.6	91.	.9	1.0	6.4	4.5
%RSD	.1386	.1274	.1851	.1852	.1993	1.279	.9038
#1	500.4	503.7	49370.	504.1	496.6	491.6	493.3
#2	500.2	503.4	49400.	505.5	498.5	503.2	501.6
#3	499.1	504.6	49230.	503.7	497.0	502.0	500.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	550.0	550.0	55000.	550.0			550.0
Low	450.0	450.0	45000.	450.0			450.0

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	T13372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	507.1	503.5	501.5	509.9	503.6	506.5	489.7
SDev	6.4	3.9	1.7	9.3	1.4	.8	2.4
%RSD	1.257	.7686	.3317	1.824	.2869	.1507	.4972
#1	500.0	507.7	501.3	499.3	501.9	506.8	487.5
#2	509.0	502.5	500.0	513.6	504.6	507.0	489.2
#3	512.3	500.2	503.3	516.8	504.2	505.6	492.3
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	550.0	550.0			550.0	550.0	550.0

Low	450.0	450.0			450.0	450.0	450.0
Elem	Y_2924	Mn2062					
Units	ug/L	ug/L					
Avge	503.7	494.2					
SDev	1.0	.3					
%RSD	.1923	.0506					
#1	504.2	494.0					
#2	504.3	494.5					
#3	502.6	494.1					
Errors	LC Pass	LC Pass					
High	550.0	550.0					
Low	450.0	450.0					

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18216	--	--	--	--	--	--
SDev	43.82161	--	--	--	--	--	--
%RSD	.2405710	--	--	--	--	--	--
#1	18167	--	--	--	--	--	--
#2	18228	--	--	--	--	--	--
#3	18252	--	--	--	--	--	--

Method: [illegible] Sample Name: [illegible] Operator:
Run Time: [illegible]
Comment:
Mode: CONC Corr. factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Be3130	Be3130	Ca31
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.3216	31.35	-4.297	.2071	.1148	.3392	.2939
SDev	.1800	6.83	2.392	.1089	.0385	.0766	2.876
%RSD	55.96	21.79	55.66	52.60	33.65	23.21	978.6
#1	-.5015	24.30	-3.100	.2892	.0703	.2540	-2.353
#2	-.3218	31.81	-2.740	.0835	.1326	.3293	-.1198
#3	-.1416	37.94	-7.051	.2485	.1408	.4072	3.355
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.000	200.0	10.00		200.0	5.000	5000.
Low	-5.000	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1164	.3323	-.0512	-.8201	8.354	-25.41	5.143
SDev	.1082	.0459	.1007	.2212	4.686	1.34	3.090
%RSD	92.89	13.82	196.6	26.97	56.09	4.722	60.08
#1	-.0085	.2793	-.1675	-.5739	6.913	-29.88	2.497
#2	.1793	.3584	.0066	-1.002	13.59	-27.25	4.393
#3	.1784	.3592	.0073	-.8845	4.558	-28.09	8.538
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	50.00	10.00	25.00	100.0	5000.	5000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.0444	1.234	140.2	-.0336	-2.466	.6614	-.3797
SDev	.0428	.349	63.0	.1521	.552	.3420	.3686
%RSD	96.33	28.30	44.96	452.9	22.40	51.71	97.10
#1	.0201	1.127	68.25	.0013	-1.829	.8821	-.0203
#2	.0193	.9513	185.6	.0981	-2.759	.8346	-.3617
#3	.0938	1.625	166.8	-.2001	-2.810	.2674	-.7569
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	15.00		5000.	40.00			3.000
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-3.242	-.5446	-3.908	-2.910	.6926	.0772	2.780
SDev	2.223	1.3977	1.977	2.393	.7526	.1218	.976
%RSD	68.58	256.6	50.59	82.26	108.7	157.7	35.11
#1	-.8782	-1.206	-2.109	-.2643	1.406	-.0541	2.451
#2	L-5.291	1.061	-6.025	-4.925	-.0941	.1864	2.285
#3	-3.556	-1.489	-3.590	-3.540	.7662	.0993	3.904
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	5.000	60.00					10.00

LCV	-5 [illegible]	-50.00
Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	.1132	.5910
SDev	.2993	.2414
%RSD	264.3	40.85
#1	.2868	.3123
#2	.2953	.7326
#3	-.2323	.7282
Errors	LC Pass	LC Pass
High	50.00	20.00
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18456	--	--	--	--	--	--
SDev	69.52937	--	--	--	--	--	--
%RSD	.3767237	--	--	--	--	--	--
#1	18388	--	--	--	--	--	--
#2	18454	--	--	--	--	--	--
#3	18527	--	--	--	--	--	--

Method: BKI Sample Name: CM1A-1-1 Operator:
Run Time: 06/23/96 10:07:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.3904	435.3	8.686	1015.	10.13	.2532	441.0
SDev	.2812	4.7	2.276	3.	.06	.0255	.2
%RSD	72.03	1.083	26.21	.3335	.5528	10.08	.0535
#1	-.0684	435.2	10.40	1016.	10.17	.2776	440.8
#2	-.5153	432.2	L6.103	1011.	10.16	.2552	440.8
#3	-.5877	441.5	9.548	1018.	10.07	.2267	441.2
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High		520.0	15.60	1300.	13.00		520.0
Low		280.0	8.400	700.0	7.000		280.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	6.190	.2226	-.1368	-.3167	212.2	1815.	409.8
SDev	.134	.1644	.2798	.1071	10.0	4.	1.3
%RSD	2.164	73.87	204.6	33.82	4.734	.2430	.3246
#1	6.329	.3546	-.2513	-.2701	213.7	1810.	409.5
#2	6.061	.0384	.1821	-.2408	221.5	1815.	408.7
#3	6.180	.2746	-.3412	-.4392	201.5	1819.	411.3
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	7.800				260.0	2600.	520.0
Low	4.200				140.0	1400.	280.0

Elem	Mn2576	Mo2020	Na3302	Ni2316	Z203-1	Z203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.1581	50.65	2360.	.4688	-2.030	1.434	.2814
SDev	.0011	.62	18.	.6110	1.550	.650	.4502
%RSD	.7046	1.216	.7591	130.3	76.39	45.34	160.0
#1	.1572	51.23	2373.	-.1972	-.9619	.6841	.1364
#2	.1579	50.01	2340.	.5999	-3.808	1.782	-.0786
#3	.1594	50.70	2368.	1.004	-1.319	1.837	.7862
Errors	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		65.00	2600.				
Low		35.00	1400.				

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Ti1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.952	.2175	-3.735	-1.063	101.5	101.7	3.242
SDev	.553	1.032	3.554	1.234	.5	.2	.825
%RSD	28.35	474.4	95.17	116.2	.5195	.2246	25.46
#1	-2.191	-.9250	-2.588	-1.994	101.7	101.4	3.388
#2	-2.345	.4964	-7.721	.3376	100.9	101.9	3.984
#3	-1.319	1.081	-.8951	-1.532	101.9	101.6	2.353
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	NOCHECK
High					130.0	130.0	

Low		70.00 70.0

Elem	V_2924	Zn3052
Units	ug/L	ug/L
Avge	.2234	.7278
SDev	.4013	.2850
%RSD	179.6	39.15
#1	.4546	.4411
#2	.4557	1.011
#3	-.2400	.7314
Errors	NOCHECK	NOCHECK
High		
Low		

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18333	--	--	--	--	--	--
SDev	58.14063	--	--	--	--	--	--
%RSD	.3171307	--	--	--	--	--	--
#1	18389	--	--	--	--	--	--
#2	18338	--	--	--	--	--	--
#3	18273	--	--	--	--	--	--

Analysis Report

Method: LK1 Sample Name: CK1-1-1 Operator:
Run Time: 09/23/96 10:12:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Be4934	Ca317	Cas1??
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	24.82	31.44	14.33	-.2963	.0757	9.389	3.07?
SDev	.40	1.22	1.44	.1497	.0283	.043	.310
%RSD	1.601	3.875	10.05	50.53	37.33	.4614	10.08
#1	24.88	31.24	15.17	-.2481	.0954	9.341	2.966
#2	25.18	30.33	L12.67	-.1765	.0885	9.426	2.632
#3	24.39	32.74	15.16	-.4641	.0433	9.401	3.423
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	26.00		26.00			13.00	
Low	14.00		14.00			7.000	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	9.183	92.75	18.43	45.60	7.807	-29.39	.8490
SDev	.209	.98	.21	.29	4.376	7.87	1.228
%RSD	2.280	1.052	1.121	.6469	56.06	26.76	144.6
#1	8.971	91.64	18.23	45.28	2.754	-38.37	1.364
#2	9.390	93.13	18.41	45.87	10.33	-23.72	-.5524
#3	9.187	93.47	18.65	45.63	10.34	-26.10	1.736
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	13.00	130.0	26.00	65.00			
Low	7.000	70.00	14.00	35.00			

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	27.86	.2691	-42.69	75.53	4.015	6.257	5.511
SDev	.29	.6159	82.51	.56	1.449	1.496	.562
%RSD	1.054	228.9	193.3	.7412	36.09	23.91	10.21
#1	27.53	.4322	52.37	74.93	4.638	5.135	4.970
#2	28.09	.7871	-84.67	76.04	2.359	7.956	6.093
#3	27.97	-.4120	-95.78	75.63	5.048	5.680	5.470
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	39.00			104.0			7.800
Low	21.00			56.00			4.200

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8.120	113.1	8.431	7.964	1.187	-.0586	21.36
SDev	1.415	2.7	2.232	1.008	.742	.0835	1.44
%RSD	17.42	2.412	26.48	12.65	62.50	142.5	6.752
#1	L6.708	111.4	6.160	6.981	2.044	-.0699	20.35
#2	9.537	111.7	10.62	8.995	.7593	.0300	23.01
#3	8.113	116.3	8.509	7.915	.7580	-.1358	20.72
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	13.00	156.0					26.00

600149

Low	7.000	84.00	14.00

Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	95.02	37.71
SDev	.98	.35
%RSD	1.015	.9200
#1	93.98	37.32
#2	95.87	37.87
#3	95.22	37.96
Errors	LC Pass	LC Pass
High	130.0	52.00
Low	70.00	28.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18456	--	--	--	--	--	--
SDev	148.3723	--	--	--	--	--	--
%RSD	.8039098	--	--	--	--	--	--
#1	18627	--	--	--	--	--	--
#2	18358	--	--	--	--	--	--
#3	18384	--	--	--	--	--	--

Method: [illegible] Sample Id: [illegible] Operator:
Run Time: [illegible]
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be313	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.3883	484900.	-1.704	-2.833	7.089	-.1125	460200.
SDev	.4158	2831.	4.388	.721	.693	.0516	2103.
%RSD	108.2	.5838	257.5	25.42	1.317	45.71	.5463
#1	.6706	482000.	1.279	-3.442	6.988	-.0709	459700.
#2	.5793	487600.	.3516	-3.025	7.157	-.1700	460700.
#3	-.0931	485100.	-6.742	-2.033	6.986	-.0973	458100.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.00	600000.	10.00		200.0	5.000	600000.
Low	-10.00	400000.	-10.00		-200.0	-5.000	400000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	4.042	-.4987	5.211	-7.646	191800.	-125.4	516400.
SDev	.137	.3783	.153	.258	1072.	2.9	3064.
%RSD	3.394	75.85	2.928	3.373	.5586	2.289	.5932
#1	4.013	-.5176	5.214	-7.393	190700.	-128.0	513300.
#2	3.922	-.1113	5.362	-7.636	192800.	-122.3	519400.
#3	4.191	-.8672	5.057	-7.909	191900.	-126.0	516700.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	50.00	10.00	25.00	240000.	5000.	600000.
Low	-5.000	-50.00	-10.00	-25.00	160000.	-5000.	400000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	-1.775	-.1084	-285.3	3.189	58.34	-30.30	-.7807
SDev	.115	1.1863	55.8	.293	7.20	7.43	2.6147
%RSD	6.475	1095.	19.57	9.178	12.34	24.53	334.9
#1	-1.681	1.045	-264.6	3.526	66.03	-38.65	L-3.788
#2	-1.740	-.0445	-348.5	3.030	57.22	-27.83	.4897
#3	-1.903	-1.325	-242.8	3.010	51.76	-24.41	.9561
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	15.00		5000.	40.00			3.000
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	L-5.553	1.812	-12.87	-1.898	4.171	.2935	3.310
SDev	2.005	7.907	8.02	4.006	2.325	.0071	3.134
%RSD	36.10	436.3	62.31	211.1	55.75	2.406	94.68
#1	-4.533	10.92	-3.636	-4.982	6.687	.2872	3.678
#2	L-7.862	-2.135	-16.92	-3.341	3.725	.3011	6.245
#3	-4.262	-3.344	-18.07	2.630	2.101	.2922	0.0086
Errors	LC Low	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	5.000	60.00					10.00

Low	-5.000	-50.00
Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	-2.372	.1991
SDev	.601	.3035
%RSD	25.34	152.5
#1	-1.925	-.0238
#2	-2.136	.5448
#3	-3.056	.0763
Errors	LC Pass	LC Pass
High	50.00	20.00
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17201	--	--	--	--	--	--
SDev	76.96103	--	--	--	--	--	--
%RSD	.4474218	--	--	--	--	--	--
#1	17270	--	--	--	--	--	--
#2	17118	--	--	--	--	--	--
#3	17215	--	--	--	--	--	--

Method: LA1 Sample Name: ICSAB-1-1 Operator:
Run Time: 09/23/96 10:23:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	182.6	485600.	96.52	-2.194	509.3	489.0	457300.
SDev	1.1	1212.	6.11	2.070	1.3	1.5	1490.
%RSD	.6029	.2497	6.332	94.31	.2608	.3061	.3258
#1	181.3	484600.	102.5	-3.899	508.4	488.0	456800.
#2	183.4	486900.	90.30	-2.793	510.8	490.7	459000.
#3	183.0	485100.	96.75	.1085	508.7	488.2	456200.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	240.0	600000.	120.0		600.0	600.0	600000.
Low	160.0	400000.	80.00		400.0	400.0	400000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	941.5	471.1	488.0	528.4	192900.	-126.8	515300.
SDev	3.8	1.7	1.8	1.4	650.	4.0	1731.
%RSD	.4003	.3552	.3622	.2735	.3371	3.127	.3359
#1	940.0	470.5	487.3	526.9	192400.	-125.7	514200.
#2	945.8	473.0	490.0	529.8	193600.	-123.4	517300.
#3	938.7	469.8	486.6	528.5	192600.	-131.1	514500.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.	600.0	600.0	600.0	240000.	5000.	600000.
Low	800.0	400.0	400.0	400.0	160000.	-5000.	400000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	488.7	1.118	-220.8	950.5	104.2	18.20	46.84
SDev	1.6	1.378	112.0	3.1	10.5	6.78	1.03
%RSD	.3247	123.3	50.71	.3252	10.10	37.25	2.192
#1	487.7	2.526	-100.7	950.3	116.3	10.38	45.66
#2	490.5	-.2281	-239.5	953.7	99.05	21.77	47.50
#3	487.9	1.055	-322.3	947.6	97.27	22.45	47.37
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	600.0		5000.	1200.			60.00
Low	400.0		-5000.	800.0			40.00

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	45.16	611.6	33.43	51.01	2.806	.7696	98.62
SDev	.71	5.6	13.39	6.02	4.114	.1353	3.11
%RSD	1.562	.9147	40.07	11.80	146.6	17.59	3.153
#1	45.57	617.8	48.54	44.08	7.435	.9164	96.76
#2	45.56	607.0	28.70	53.98	1.417	.7426	96.88
#3	44.34	610.1	23.04	54.98	-.4333	.6497	102.2
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	60.00	720.0					120.0

Low	40.00	480.0

Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	502.0	912.6
SDev	1.6	4.0
%RSD	.3162	.4399
#1	500.9	910.9
#2	503.8	917.1
#3	501.3	909.6

Errors	LC Pass	LC Pass
High	600.0	1200.
Low	400.0	800.0

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17126	--	--	--	--	--	--
SDev	21.07131	--	--	--	--	--	--
%RSD	.1230369	--	--	--	--	--	--
#1	17124	--	--	--	--	--	--
#2	17106	--	--	--	--	--	--
#3	17148	--	--	--	--	--	--

Method: LRL Sample Name: FBW-L118 Operator:
Run Time: 6/23/96 10:27:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2188	79.59	-4.828	2.851	.4396	.2612	193.9
SDev	.5018	9.58	.534	1.068	.0341	.0264	5.0
%RSD	229.3	12.04	11.06	37.47	7.770	10.12	2.732
#1	-.5645	89.49	-4.485	1.984	.4441	.2867	187.8
#2	-.4486	70.35	-4.556	2.524	.4033	.2539	178.3
#3	.3567	78.94	-5.444	4.044	.4712	.2629	185.7
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.000	200.0	10.00		200.0	5.000	5000.
Low	-5.000	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1190	.0670	-.0820	-.5515	17.79	5.504	35.37
SDev	.0573	.1988	.2304	.2119	9.63	6.122	8.50
%RSD	48.16	296.7	281.1	38.43	54.16	111.2	24.02
#1	.0863	.2788	-.2545	-.7938	15.07	-.9815	39.49
#2	.1852	.0379	-.1710	-.4603	9.806	11.18	25.60
#3	.0855	-.1156	.1796	-.4004	28.49	6.311	41.02
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	50.00	10.00	25.00	100.0	5000.	5000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.3487	-.0106	123.3	-.1627	.2436	.0834	.1372
SDev	.0422	.5239	31.5	.2493	1.319	1.151	.4663
%RSD	12.10	4951.	25.51	153.2	541.4	1380.	339.9
#1	.3220	-.5833	121.5	-.1965	1.751	-.9125	-.0253
#2	.3267	.1069	155.6	-.3934	-.3184	-.1807	-.2261
#3	.3973	.4447	92.79	.1018	-.7012	1.343	.6630
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	15.00		5000.	40.00			3.000
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.9747	-1.126	.8409	-1.882	-.1834	-.1028	4.417
SDev	.7877	3.422	.7814	1.455	.6611	.0541	1.303
%RSD	80.82	304.0	92.92	77.30	360.4	52.63	29.49
#1	-.7690	1.645	1.407	-1.856	-.7540	-.1340	4.361
#2	-1.845	-4.951	1.167	-3.349	-.3374	-.0403	3.143
#3	-.3101	-.0711	-.0507	-.4403	.5411	-.1340	5.746
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	5.000	60.00					10.00

Low	-5.000	-20.00
Elem	V_2924	Mn2605
Units	ug/L	ug/L
Avge	-.1194	9.094
SDev	.1402	.285
%RSD	84.65	3.141
#1	-.2341	8.818
#2	-.0602	9.049
#3	-.0609	9.386
Errors	LC Pass	LC Pass
High	50.00	20.00
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18298	--	--	--	--	--	--
SDev	99.01683	--	--	--	--	--	--
%RSD	.5411249	--	--	--	--	--	--
#1	18356	--	--	--	--	--	--
#2	18184	--	--	--	--	--	--
#3	18355	--	--	--	--	--	--

Analyst: [illegible] Sample ID: [illegible] Type: [illegible]
Run Time: [illegible]
Comment:
Mode: CONC Conc. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130	Bi2230
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	51.56	1958.	35.83	1880.	1923.	48.18	20211.
SDev	.41	11.	3.09	8.	12.	.28	125.
%RSD	.8064	.5715	8.630	.4255	.6472	.5841	.6161
#1	51.02	1968.	39.32	1885.	1934.	48.31	20324.
#2	50.43	1953.	33.42	1884.	1926.	48.35	20243.
#3	50.24	1946.	34.76	1871.	1910.	48.87	20071.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	49.36	464.3	208.6	228.2	1002.	19460.	18990.
SDev	.29	2.5	1.1	1.2	8.	108.	122.
%RSD	.5776	.5386	.5279	.5404	.7758	.5555	.6444
#1	49.54	466.1	209.4	229.5	1009.	19550.	19090.
#2	49.51	465.2	208.9	228.1	1002.	19480.	19020.
#3	49.03	461.4	207.3	227.1	993.6	19340.	18850.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	498.6	1875.	19980.	507.4	17.40	16.65	16.90
SDev	3.0	6.	162.	2.6	1.34	.63	.81
%RSD	.6065	.3169	.8126	.5173	7.724	3.763	4.772
#1	501.1	1877.	20130.	509.6	18.16	17.34	17.61
#2	499.5	1880.	20000.	508.1	18.19	16.50	17.06
#3	495.3	1869.	19810.	504.5	15.84	16.11	16.02
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8.430	488.8	7.628	8.830	1868.	1918.	46.62
SDev	.429	4.4	.827	.656	9.	13.	1.86
%RSD	5.090	.8939	10.83	7.434	.4911	.6638	3.984
#1	8.443	490.2	6.722	9.302	1876.	1929.	45.02
#2	8.853	492.2	8.340	9.108	1871.	1921.	48.65
#3	7.995	483.8	7.823	8.080	1858.	1904.	46.18
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

Elem	Y_2924	Zn2:62
Units	ug/L	ug/L
Avge	498.0	501.7
SDev	5.3	3.4
%RSD	.6697	.6726
#1	501.1	504.2
#2	498.5	503.1
#3	494.5	497.8
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18231	--	--	--	--	--	--
SDev	112.7933	--	--	--	--	--	--
%RSD	.6187010	--	--	--	--	--	--
#1	18129	--	--	--	--	--	--
#2	18211	--	--	--	--	--	--
#3	18352	--	--	--	--	--	--

Analysis [illegible]

Method: [illegible] Sample Name: Detroit Operator:
Run Time: [illegible] 10:27:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2673	120.7	-4.148	34.47	31.48	.3357	13130.
SDev	.0754	1.1	1.966	1.60	.63	.1134	259.
%RSD	28.22	.9396	47.42	4.639	2.062	33.80	2.039
#1	-.2307	122.0	-1.917	36.27	31.11	.2319	13480.
#2	-.3540	120.2	-4.878	33.90	30.47	.3184	13150.
#3	-.2171	119.9	-5.634	33.23	29.86	.4568	12940.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.3468	1.631	1.185	5.624	321.3	1155.	3788.
SDev	.0889	.281	.267	.178	5.1	47.	78.
%RSD	25.63	17.20	22.53	3.169	1.579	4.064	2.063
#1	.3576	1.624	1.144	5.830	327.1	1203.	3870.
#2	.2530	1.915	1.470	5.510	319.5	1152.	3780.
#3	.4299	1.354	.9405	5.534	317.4	1109.	3715.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	499.5	5.342	12860.	8.933	-1.054	1.447	.6149
SDev	9.8	3.251	381.	.529	1.667	.515	.4835
%RSD	1.959	60.86	2.963	5.925	158.1	35.55	78.63
#1	509.7	8.929	13290.	9.543	.6138	.9319	.8264
#2	498.6	4.508	12730.	8.659	-2.719	1.449	.0617
#3	490.2	2.589	12560.	8.596	-1.057	1.961	.9565
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.4720	-1.353	.5593	-.9875	3.424	2.433	4.561
SDev	1.9203	1.344	2.846	1.4636	1.688	.237	.428
%RSD	406.8	99.29	508.8	148.2	49.32	9.745	9.392
#1	.0769	-.3687	1.569	-.6688	3.187	2.695	4.611
#2	1.114	-.8071	2.762	.2905	1.866	2.374	4.963
#3	-2.607	-2.884	-2.654	-2.584	5.218	2.231	4.110
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

Low	-5.000	-50.00
Elem	V_2924	Sn2069
Units	ug/L	ug/L
Avge	.6407	46.51
SDev	.1672	1.01
%RSD	26.10	2.172
#1	.4796	47.58
#2	.8134	46.38
#3	.6291	45.57
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18526	--	--	--	--	--	--
SDev	340.6176	--	--	--	--	--	--
%RSD	1.838625	--	--	--	--	--	--
#1	18180	--	--	--	--	--	--
#2	18536	--	--	--	--	--	--
#3	18861	--	--	--	--	--	--

Analyst Name:

Method: EM1 Sample Name: [illegible] Operator:
Run Time: [illegible]
Comment:
Mode: CONC Corr. Factor:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be313_	Ca317_
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0567	119.8	-2.356	31.17	32.13	.4881	13667.
SDev	.2829	2.0	1.019	.80	.08	.0132	84.
%RSD	499._	1.699	35.57	2.554	.2437	2.671	.2515
#1	.2438	118.1	-1.694	32.07	32.15	.4993	13700.
#2	.1951	122.1	-3.595	30.85	32.20	.5070	13650.
#3	-.2688	119.2	-3.277	30.58	32.05	.4812	13630.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.3382	2.278	1.478	6.578	322.4	1160.	3937.
SDev	.0930	.280	.420	.070	.4	8.	12.
%RSD	27.49	12.29	28.39	1.060	.1289	.6486	.2976
#1	.4317	2.588	1.960	6.654	322.2	1169.	3950.
#2	.2458	2.202	1.281	6.561	322.8	1159.	3929.
#3	.3371	2.044	1.194	6.518	322.1	1154.	3931.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	520.3	1.648	13380.	9.517	.1862	2.213	1.538
SDev	1.1	.389	132.	.361	.5832	.182	.307
%RSD	.2162	23.58	.9874	3.789	313.2	8.241	19.93
#1	521.5	2.097	13530.	9.694	-.2784	2.012	1.250
#2	520.2	1.426	13350.	9.102	.8406	2.369	1.860
#3	519.2	1.422	13270.	9.755	-.0036	2.258	1.505
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2908	-.5279	.9130	-.8924	2.064	1.918	3.004
SDev	.2267	3.0618	2.226	.9987	.419	.294	1.683
%RSD	77.97	580.0	243.8	111.9	20.29	15.31	56.05
#1	-.1627	2.386	-.4809	-.0045	2.069	2.243	4.852
#2	-.5526	-.2508	-.2603	-.6991	1.642	1.839	1.558
#3	-.1571	-3.719	3.480	-1.974	2.479	1.672	0.201
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

2007.1

Low	-5.000	-10.00
Elem	V_2p24	Zn2p32
Units	ug/L	ug/L
Avge	.5028	48.77
SDev	.2947	.228
%RSD	46.64	.4720
#1	.9721	49.03
#2	.4623	48.70
#3	.4611	48.58
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18828	--	--	--	--	--	--
SDev	33.56089	--	--	--	--	--	--
%RSD	.1782530	--	--	--	--	--	--
#1	18800	--	--	--	--	--	--
#2	18818	--	--	--	--	--	--
#3	18865	--	--	--	--	--	--

Analysis Report [illegible] Page

Method: LR1 Sample Name: [illegible] Operator:
Run Time: [illegible] 10:46:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	47.22	1912.	33.72	1799.	1824.	45.93	31040.
SDev	.21	6.	2.19	5.	6.	.21	127.
%RSD	.4537	.3110	6.509	.3463	.3305	.4587	.4080
#1	47.00	1905.	35.55	1791.	1817.	45.69	30900.
#2	47.43	1917.	31.28	1802.	1829.	46.05	31140.
#3	47.21	1914.	34.31	1802.	1825.	46.05	31070.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	45.94	431.8	195.1	221.3	1338.	19570.	21360.
SDev	.35	2.6	.9	.6	2.	50.	85.
%RSD	.7611	.6020	.4757	.2732	.1498	.2566	.3969
#1	45.58	429.5	194.0	220.6	1336.	19520.	21270.
#2	46.28	434.6	195.6	221.7	1339.	19620.	21430.
#3	45.97	431.2	195.6	221.6	1340.	19560.	21390.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	943.5	1757.	30310.	480.5	18.44	17.11	17.56
SDev	3.7	15.	100.	2.2	1.68	.93	.40
%RSD	.3914	.8561	.3314	.4487	9.125	5.450	2.301
#1	939.5	1739.	30260.	478.1	18.07	17.94	17.99
#2	946.8	1766.	30420.	481.0	20.28	16.11	17.50
#3	944.2	1765.	30240.	482.3	16.97	17.29	17.19
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	6.638	456.1	5.816	7.047	1756.	1810.	42.11
SDev	1.520	3.1	1.297	1.731	10.	7.	2.26
%RSD	22.90	.6703	22.30	24.56	.5455	.3926	5.366
#1	6.619	458.1	5.109	7.371	1746.	1803.	39.50
#2	5.127	457.6	5.027	5.177	1764.	1817.	43.30
#3	8.167	452.5	7.313	8.593	1758.	1812.	43.53
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

Low	-5.000	-50.00

Elem	Y_2924	Zn2062
Units	ug/L	ug/L
Avge	462.1	494.9
SDev	2.2	2.5
%RSD	.4947	.4954
#1	459.5	492.1
#2	463.7	496.5
#3	462.9	496.1
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18765	--	--	--	--	--	--
SDev	47.57100	--	--	--	--	--	--
%RSD	.2535092	--	--	--	--	--	--
#1	18811	--	--	--	--	--	--
#2	18716	--	--	--	--	--	--
#3	18768	--	--	--	--	--	--

Method: [illegible] Sample Name: [illegible] Operator:

Run Time: 09/23/96 10:50:33

Comment:

Mode: CONC Corr. Factor: 1

5D

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be31[illegible]	Ca[illegible]
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.0038	65.50	-2.093	6.014	6.373	.4431	2[illegible].
SDev	.2683	3.30	1.223	1.279	.095	.0385	25.
%RSD	3143.	5.040	58.90	21.27	1.501	8.683	.90[illegible]
#1	.2920	62.65	-3.015	7.040	6.484	.4223	2759.
#2	-.0937	69.12	-.6927	4.580	6.321	.4195	2724.
#3	-.2240	64.74	-2.572	6.420	6.315	.4875	2711.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.0476	.3358	.2371	.7376	66.35	191.9	772.4
SDev	.1074	.1168	.3204	.3493	6.02	12.7	10.4
%RSD	225.5	34.79	135.1	47.35	9.068	6.602	1.352
#1	.0764	.3602	.6039	1.104	72.68	205.4	783.4
#2	-.1096	.2087	.0954	.7012	65.65	190.0	771.1
#3	-.1098	.4385	.0121	.4079	60.71	180.3	762.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	98.37	4.304	2954.	1.721	-2.801	2.099	.4679
SDev	.77	1.282	87.	.016	1.299	.381	.4203
%RSD	.7840	29.78	2.945	.9445	46.38	18.17	89.82
#1	99.25	5.617	2894.	1.738	-4.126	2.425	.2441
#2	98.07	4.239	3054.	1.719	-2.745	1.680	.2068
#3	97.80	3.056	2914.	1.706	-1.530	2.192	.9527
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.5525	-1.534	1.326	.1658	1.057	.2565	4.446
SDev	.4418	1.531	.287	.7128	.738	.0461	2.351
%RSD	79.96	99.81	21.68	429.9	69.75	17.96	52.89
#1	.5459	-3.022	1.648	-.0047	.3547	.2412	7.004
#2	.1140	-1.617	1.235	-.4462	.9921	.3082	4.955
#3	.9975	.0368	1.095	.9484	1.826	.2201	2.379
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

LCV	-5....	-10.00
Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	.4581	10.28
SDev	.3408	.42
%RSD	75.72	4.058
#1	.7919	10.50
#2	.4481	10.55
#3	.1103	9.803
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18919	--	--	--	--	--	--
SDev	132.6662	--	--	--	--	--	--
%RSD	.7012453	--	--	--	--	--	--
#1	18779	--	--	--	--	--	--
#2	18934	--	--	--	--	--	--
#3	19043	--	--	--	--	--	--

Analysis Report

Method: LR1 Sample Name: [illegible] Operator:
Run Time: 09/13/96 10:55:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be31[illegible]	Ca[illegible]
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	479.8	47380.	479.1	496.9	477.5	488.[illegible]	48490.
SDev	.8	50.	5.8	.6	.7	.4	60.
%RSD	.1661	.1050	1.218	.1134	.1416	.0890	.1366
#1	480.4	47360.	485.5	497.0	477.7	488.5	48500.
#2	478.9	47270.	474.2	496.3	476.7	488.[illegible]	48420.
#3	480.1	47350.	477.4	497.4	477.9	488.8	48560.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	55000.	550.0	550.0	550.0	550.0	55000.
Low	450.0	45000.	450.0	450.0	450.0	450.0	45000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	472.0	468.3	486.1	491.8	47700.	46980.	47440.
SDev	1.5	.9	.7	.6	51.	43.	58.
%RSD	.3238	.1934	.1456	.1277	.1060	.0925	.1228
#1	471.9	469.2	485.6	492.2	47700.	47020.	47450.
#2	470.6	467.4	485.8	491.0	47660.	46940.	47380.
#3	473.6	468.2	486.9	492.0	47760.	46980.	47490.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	550.0	550.0	550.0	55000.	55000.	55000.
Low	450.0	450.0	450.0	450.0	45000.	45000.	45000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	477.6	483.5	47900.	485.5	474.2	480.6	478.5
SDev	.6	.7	101.	1.4	2.8	8.8	5.1
%RSD	.1152	.1453	.2100	.2804	.5971	1.829	1.065
#1	477.6	482.7	47970.	485.1	476.8	470.5	472.6
#2	477.0	483.7	47780.	484.5	471.2	486.4	481.4
#3	478.1	484.0	47940.	487.1	474.6	485.0	481.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	550.0	550.0	55000.	550.0			550.0
Low	450.0	450.0	45000.	450.0			450.0

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	485.7	482.1	475.7	490.7	475.3	485.7	468.2
SDev	5.7	4.3	3.3	7.4	2.1	.8	5.1
%RSD	1.164	.8928	.7029	1.506	.4343	.1615	1.089
#1	479.2	487.0	472.5	482.6	477.3	485.2	462.3
#2	489.8	479.8	475.3	497.0	473.2	485.3	470.4
#3	488.0	479.3	479.2	492.4	475.4	486.6	471.8
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	550.0	550.0			550.0	550.0	550.0

Low	[illegible]	450.0			450.0	450.0	450.0

Elem	V_3624	Zn2062
Units	ug/L	ug/L
Avge	477.5	471.1
SDev	.5	.3
%RSD	.1019	.0690
#1	477.9	470.9
#2	477.1	471.0
#3	477.9	471.5
Errors	LC Pass	LC Pass
High	550.0	550.0
Low	450.0	450.0

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18738	--	--	--	--	--	--
SDev	38.17503	--	--	--	--	--	--
%RSD	.2037269	--	--	--	--	--	--
#1	18695	--	--	--	--	--	--
#2	18767	--	--	--	--	--	--
#3	18753	--	--	--	--	--	--

Analysis Report [illegible] Page 1

Method: LR1 Sample Name: CCL-1-1 Operator: .
Run Time: 09-13/96 10:59:35
Comment:
Mode: CONC Corr. Factor: 1.

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be313	Ca317
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2492	54.91	-2.543	-1.602	.1173	.3970	.0858
SDev	.1719	1.66	1.853	.427	.0234	.0198	.5598
%RSD	68.97	3.030	72.89	26.66	19.98	4.978	652.6
#1	-.3356	55.71	-3.807	-1.345	.1089	.3946	.4662
#2	-.3607	53.00	-3.406	-1.366	.0992	.4178	-.5570
#3	-.0513	56.03	-.4151	-2.095	.1437	.3785	.3481
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.000	200.0	10.00		200.0	5.000	5000.
Low	-5.000	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0820	.2312	-.0767	-1.783	6.000	-41.47	2.993
SDev	.0929	.1946	.3075	.111	4.314	3.07	1.420
%RSD	113.3	84.16	401.1	6.224	71.90	7.403	47.45
#1	-.0109	.2042	-.1632	-1.703	10.71	-39.18	3.622
#2	.1748	.0515	-.3316	-1.910	2.236	-44.95	1.367
#3	.0821	.4379	.2648	-1.736	5.056	-40.27	3.990
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	50.00	10.00	25.00	100.0	5000.	5000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.0427	2.172	-47.16	-.1383	-.4793	.1950	-.0291
SDev	.0429	.550	48.11	.3948	.2232	.4770	.3674
%RSD	100.5	25.30	102.0	285.5	46.56	244.6	1263.
#1	.0182	2.799	-31.28	-.4960	-.2327	.3811	.1771
#2	.0176	1.773	-8.997	-.2041	-.6674	-.3470	-.4533
#3	.0922	1.946	-101.2	.2853	-.5380	.5510	.1889
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	15.00		5000.	40.00			3.000
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.247	1.044	-.2018	-3.269	.3453	.0088	4.883
SDev	2.023	3.293	6.3544	1.668	1.324	.2175	.311
%RSD	90.03	315.3	3148.	51.02	383.4	2472.	6.377
#1	-2.965	2.594	-5.736	-1.582	-.0808	.2554	4.525
#2	.0369	-2.737	6.737	-3.309	-.7130	-.1560	5.039
#3	-3.814	3.276	-1.606	-4.917	1.830	-.0730	4.987
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	5.000	60.00					10.00

0000163

Elem	Y 371	Unused
Units	ug/L	ug/L
Avge	.2821	.3946
SDev	.3421	.0821
%RSD	121.3	20.80
#1	.6255	.4438
#2	.2809	.3000
#3	-.0602	.4407
Errors	LC Pass	LC Pass
High	50.00	20.00
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18665	--	--	--	--	--	--
SDev	54.69004	--	--	--	--	--	--
%RSD	.2930085	--	--	--	--	--	--
#1	18606	--	--	--	--	--	--
#2	18714	--	--	--	--	--	--
#3	18675	--	--	--	--	--	--

Method: LR1 Sample Name: [illegible] Operator:
Run Time: 09/12/96 11:04:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.1654	419.8	-1.508	33.88	41.33	.4679	13750.
SDev	.1453	2.8	2.006	.25	.17	.0127	44.
%RSD	87.29	.6778	110.9	.7452	.4169	2.709	.3212
#1	-.1693	416.5	-2.483	33.63	41.36	.4711	13760.
#2	-.3103	421.0	.4478	34.13	41.48	.4540	13790.
#3	-.0197	421.7	-3.389	33.80	41.14	.4787	13700.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.4398	2.171	5.207	10.29	1627.	1234.	4030.
SDev	.0907	.068	.250	.11	11.	10.	13.
%RSD	20.62	3.153	4.806	1.038	.6700	.8505	.3342
#1	.3507	2.102	4.920	10.41	1627.	1244.	4036.
#2	.5320	2.172	5.324	10.26	1638.	1237.	4039.
#3	.4367	2.238	5.377	10.21	1616.	1223.	4014.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	512.7	1.361	13490.	10.91	3.340	4.362	4.022
SDev	1.9	.262	64.	.66	.214	1.096	.784
%RSD	.3612	19.25	.4760	6.048	6.400	25.12	19.50
#1	513.0	1.591	13540.	10.93	3.249	3.217	3.228
#2	514.4	1.417	13510.	11.56	3.584	5.401	4.796
#3	510.7	1.076	13420.	10.24	3.186	4.468	4.041
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.383	-1.800	-.5086	-3.320	3.439	15.89	2.121
SDev	1.455	1.765	3.0350	1.038	.330	.13	2.251
%RSD	61.04	98.04	596.8	31.27	9.593	.7997	106.1
#1	-2.478	.2320	.8086	-4.119	3.728	15.99	4.766
#2	-.8837	-2.684	1.645	-2.147	3.510	15.93	3.485
#3	-3.789	-2.949	-3.980	-3.694	3.080	15.74	3.355
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

Elem	V_1924	Zn2062
Units	ug/L	ug/L
Avge	1.137	52.30
SDev	.345	.12
%RSD	30.44	.2373
#1	.7480	52.35
#2	1.251	52.16
#3	1.411	52.39
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18924	--	--	--	--	--	--
SDev	91.96376	--	--	--	--	--	--
%RSD	.4859551	--	--	--	--	--	--
#1	18841	--	--	--	--	--	--
#2	18909	--	--	--	--	--	--
#3	19023	--	--	--	--	--	--

Method: [illegible] Sample Name: [illegible] Operator:
Run Time: [illegible]
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	[illegible]	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0089	94.57	-3.919	4.223	1.661	.4222	486.8
SDev	.2359	2.21	2.122	.338	.028	.0326	1.7
%RSD	2654.	2.333	54.13	7.995	1.687	5.314	.3427
#1	-.2501	94.64	-6.152	4.306	1.690	.4442	485.3
#2	.0652	92.33	-3.678	3.852	1.659	.3991	484.4
#3	.2116	96.74	-1.929	4.512	1.716	.4237	487.7
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1078	.4897	-.1290	1.622	26.80	7.020	89.18
SDev	.1065	.2456	.1283	.345	1.00	1.566	2.02
%RSD	98.76	50.17	99.49	21.29	3.716	23.73	2.271
#1	-.0151	.6679	-.1569	1.255	26.01	6.149	87.50
#2	.1689	.2094	-.2411	1.941	26.47	5.970	88.61
#3	.1697	.5916	.0110	1.669	27.92	8.941	91.42
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.7474	.3638	400.5	.5957	-1.501	1.499	.5008
SDev	.0013	.1932	69.9	.5672	1.968	.846	.2483
%RSD	.1675	53.12	17.46	95.21	131.2	56.40	49.57
#1	.7467	.2522	437.2	.1767	-.6452	1.496	.7831
#2	.7467	.2522	319.9	.3694	-3.752	2.347	.3165
#3	.7488	.5869	444.5	1.241	-.1049	.6557	.4029
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.112	-.1391	1.347	-3.839	1.479	.1766	2.589
SDev	1.605	1.7983	1.843	1.489	.319	.0482	3.775
%RSD	76.00	1293.	136.8	38.79	21.61	27.29	145.8
#1	-2.555	-1.889	.7066	-4.183	1.199	.1488	5.890
#2	-.3319	1.704	3.425	-2.208	1.827	.1488	1.527
#3	-3.449	-.2317	-.0893	-5.127	1.410	.2323	3.484
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

Elem	V_2114	LA_261
Units	ug/L	ug/L
Avge	.4454	23.81
SDev	.0017	.04
%RSD	.3841	.1519
#1	.4449	23.78
#2	.4449	23.78
#3	.4462	23.85
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18923	--	--	--	--	--	--
SDev	28.29016	--	--	--	--	--	--
%RSD	.1495041	--	--	--	--	--	--
#1	18939	--	--	--	--	--	--
#2	18939	--	--	--	--	--	--
#3	18890	--	--	--	--	--	--

Method: [illegible] Sample Name: [illegible] Operator:
Run Time: [illegible]/96 11:12:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0321	99.00	-3.497	4.138	2.087	.4792	576.4
SDev	.0754	1.93	1.751	.550	.044	.0180	2.4
%RSD	234.7	1.949	50.07	13.29	2.090	3.746	.4105
#1	.1190	100.9	-1.945	4.551	2.061	.4948	573.8
#2	-.0173	97.00	-3.152	4.349	2.137	.4834	577.1
#3	-.0052	99.15	-5.395	3.514	2.062	.4596	578.3
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0428	.2368	-.0702	1.306	48.91	36.12	85.70
SDev	.1053	.3159	.1660	.314	7.71	4.91	1.40
%RSD	245.9	133.4	236.3	24.03	15.77	13.59	1.636
#1	-.0182	.1374	-.2359	1.033	40.02	30.53	86.11
#2	-.0177	-.0176	.0960	1.649	53.65	39.76	84.14
#3	.1645	.5904	-.0708	1.237	53.07	38.05	86.85
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.8360	-.2472	395.9	.3926	-1.099	-.0216	-.3800
SDev	.0448	.7184	43.5	.3032	2.032	.6999	.2107
%RSD	5.358	290.6	10.98	77.22	184.9	3233.	55.44
#1	.8082	-.5760	418.0	.7385	.2155	-.4517	-.2290
#2	.8877	-.7424	345.8	.1729	-3.440	.7860	-.6207
#3	.8121	.5767	423.8	.2664	-.0735	-.3992	-.2903
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.002	-1.879	-2.129	-1.939	2.388	.9257	1.953
SDev	.626	2.667	3.292	1.556	.633	.1527	1.553
%RSD	31.26	142.0	154.6	80.25	26.50	16.50	79.52
#1	-1.328	-4.470	.4726	-2.227	1.834	1.075	2.473
#2	-2.114	-2.026	-5.830	-.2589	2.252	.9332	3.178
#3	-2.564	.8586	-1.030	-3.331	3.078	.7694	.2065
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

003473

Low	-5.0 %	-50.0 %
Elem	V_2924	Br2061
Units	ug/L	ug/L
Avge	.2721	29.22
SDev	.2881	.35
%RSD	105.8	1.186
#1	.6047	28.92
#2	.1060	29.13
#3	.1056	29.60
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19096	--	--	--	--	--	--
SDev	69.24113	--	--	--	--	--	--
%RSD	.3626012	--	--	--	--	--	--
#1	19170	--	--	--	--	--	--
#2	19033	--	--	--	--	--	--
#3	19084	--	--	--	--	--	--

Method: LM1 Sample Name: [illegible] Operator:
Run Time: 09/23/96 11:18:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.0511	149.5	-.2624	35.10	30.21	.4489	13000.
SDev	.1731	1.1	.8913	1.05	.29	.0565	112.
%RSD	339.0	.7523	339.6	2.980	.9551	12.59	.8599
#1	-.1359	149.1	-1.105	35.53	29.94	.5027	12910.
#2	.2056	148.6	-.3535	35.87	30.52	.3900	13130.
#3	.0835	150.8	.6709	33.91	30.18	.4541	12970.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5000.	400000.	10000.		100000.	10000.	500000.
Low	-10.00	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.2712	2.234	1.242	5.090	317.4	1107.	3728.
SDev	.1032	.033	.137	.288	8.1	16.	28.
%RSD	38.05	1.462	11.01	5.654	2.554	1.404	.7517
#1	.3281	2.245	1.094	4.800	315.8	1091.	3706.
#2	.1521	2.198	1.363	5.376	326.2	1122.	3760.
#3	.3334	2.260	1.270	5.094	310.3	1109.	3719.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	20000.	50000.	50000.	50000.	500000.	200000.	500000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	486.4	.3581	12690.	8.455	-1.480	1.392	.4361
SDev	4.5	.2465	60.	.261	1.077	.202	.4237
%RSD	.9163	68.84	.4726	3.088	72.73	14.52	97.16
#1	482.7	.5713	12680.	8.154	-1.282	1.188	.3662
#2	491.4	.0882	12640.	8.595	-2.642	1.396	.0517
#3	485.1	.4149	12760.	8.617	-.5169	1.592	.8904
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	20000.		400000.	50000.			10000.
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	9.457	.0101	10.14	9.116	4.422	2.281	2.764
SDev	2.414	1.552	5.26	.992	.724	.068	1.654
%RSD	25.53	15340.	51.91	10.89	16.37	2.986	59.86
#1	6.986	.8290	4.765	8.095	4.329	2.328	1.167
#2	11.81	-1.779	15.28	10.08	3.749	2.311	2.675
#3	9.573	.9806	10.37	9.176	5.187	2.203	4.470
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	10000.	50000.					20000.

Elem	Y_2914	Zn2062
Units	ug/L	ug/L
Avge	.5130	52.52
SDev	.2611	.52
%RSD	50.92	.9954
#1	.2850	51.97
#2	.7981	53.01
#3	.4561	52.58
Errors	LC Pass	LC Pass
High	20000.	20000.
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19023	--	--	--	--	--	--
SDev	162.5925	--	--	--	--	--	--
%RSD	.8547006	--	--	--	--	--	--
#1	19189	--	--	--	--	--	--
#2	18864	--	--	--	--	--	--
#3	19017	--	--	--	--	--	--

Method: LR1 Sample Name: CK1A-1-2 Operator:
Run Time: 09/13/96 11:23:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca317
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.2220	463.8	9.570	986.3	9.811	.4686	469.7
SDev	.2842	4.3	1.344	4.7	.019	.0425	2.2
%RSD	128.0	.9280	14.05	.4733	.1959	9.055	.4722
#1	-.5479	460.6	9.702	986.1	9.807	.4253	471.3
#2	-.0923	461.9	10.84	981.7	9.794	.5112	467.4
#3	-.0257	468.7	L8.164	991.0	9.832	.4689	471.1
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High		520.0	15.60	1300.	13.00		520.0
Low		280.0	8.400	700.0	7.000		280.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	5.858	.4109	.0432	-2.003	201.3	1695.	400.9
SDev	.173	.1917	.1273	.118	.6	12.	.9
%RSD	2.951	46.65	294.7	5.915	.3049	.7099	.2145
#1	5.659	.2076	.1823	-2.132	201.0	1703.	401.8
#2	5.977	.4367	-.0673	-1.899	200.9	1681.	400.8
#3	5.936	.5883	.0146	-1.977	202.0	1701.	400.1
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	7.800				260.0	2600.	520.0
Low	4.200				140.0	1400.	280.0

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.1472	48.83	2317.	.2364	-.3891	.3640	.1137
SDev	.0014	.55	62.	.1497	.5137	1.031	.6599
%RSD	.9159	1.131	2.687	63.32	132.0	283.1	580.4
#1	.1479	48.24	2251.	.2701	-.6768	-.4717	-.5395
#2	.1456	49.33	2326.	.0727	-.6945	1.516	.7802
#3	.1480	48.92	2375.	.3664	.2040	.0481	.1005
Errors	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High		65.00	2600.				
Low		35.00	1400.				

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.577	-1.520	-.5831	-3.574	95.98	97.37	.9855
SDev	.361	1.317	1.7152	1.082	1.95	.33	3.124
%RSD	14.00	86.60	294.1	30.27	2.036	.3375	317.0
#1	-2.396	-1.756	-2.479	-2.355	98.23	97.41	-2.546
#2	-2.993	-2.703	-.1323	-4.421	94.99	97.03	.0389
#3	-2.343	-.1016	.8617	-3.944	94.72	97.68	2.113
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	NOCHECK
High					130.0	130.0	

Low 70.00 70.11

Elem	V_1924	Sn2062
Units	ug/L	ug/L
Avge	.1025	.6395
SDev	.1679	.0768
%RSD	163.9	12.01
#1	.2703	.5509
#2	-.0654	.6792
#3	.1025	.6882
Errors	NOCHECK	NOCHECK
High		
Low		

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19052	--	--	--	--	--	--
SDev	88.96254	--	--	--	--	--	--
%RSD	.4669377	--	--	--	--	--	--
#1	19004	--	--	--	--	--	--
#2	19155	--	--	--	--	--	--
#3	18998	--	--	--	--	--	--

Analyte Report

Method: LM1 Sample Name: [illegible] Operator:
Run Time: 09/23/98 11:17:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	23.90	77.98	L13.91	-1.344	.1059	9.254	4.834
SDev	.23	1.38	2.19	.772	.0378	.045	.579
%RSD	.9574	1.769	15.83	57.42	35.76	.4870	12.67
#1	24.00	76.49	15.45	-1.202	.0739	9.289	3.952
#2	23.64	79.22	L11.33	-.6525	.1475	9.270	4.670
#3	24.07	78.24	14.63	-2.176	.0959	9.203	5.099
Errors	LC Pass	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	26.00		26.00			13.00	
Low	14.00		14.00			7.000	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	8.952	89.19	17.61	42.50	8.591	-53.02	2.118
SDev	.069	.21	.26	.16	.704	2.35	1.460
%RSD	.7732	.2389	1.484	.3679	8.198	4.436	68.93
#1	8.872	89.38	17.43	42.59	7.973	-55.71	.6590
#2	8.990	88.96	17.49	42.60	8.443	-52.02	2.116
#3	8.995	89.23	17.91	42.32	9.358	-51.34	3.579
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	13.00	130.0	26.00	65.00			
Low	7.000	70.00	14.00	35.00			

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	26.72	-.3031	-31.83	73.51	1.821	7.381	5.530
SDev	.05	.6632	142.17	.21	1.367	1.031	.938
%RSD	.1935	218.8	446.6	.2794	75.09	13.96	16.96
#1	26.69	.0790	-30.63	73.29	.2818	6.760	4.603
#2	26.69	.0805	109.7	73.69	2.895	6.813	5.509
#3	26.78	-1.069	-174.6	73.54	2.287	8.571	6.479
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	39.00			104.0			7.800
Low	21.00			56.00			4.200

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	7.146	111.4	7.031	7.203	.2320	-.1828	20.33
SDev	.979	1.1	.645	1.283	.6637	.1587	3.54
%RSD	13.69	1.011	9.168	17.81	286.0	86.77	17.42
#1	L6.266	110.9	6.300	6.248	.9893	-.3421	16.29
#2	L6.974	112.6	7.519	6.701	-.2485	-.0249	22.90
#3	8.200	110.5	7.274	8.662	-.0446	-.1815	21.79
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	13.00	156.0					26.00

Low	7.000	84.00

Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	90.02	36.10
SDev	.29	.20
%RSD	.3218	.5561
#1	90.27	36.16
#2	89.70	36.27
#3	90.08	35.88
Errors	LC Pass	LC Pass
High	130.0	52.00
Low	70.00	28.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19173	--	--	--	--	--	--
SDev	35.57153	--	--	--	--	--	--
%RSD	.1855260	--	--	--	--	--	--
#1	19214	--	--	--	--	--	--
#2	19158	--	--	--	--	--	--
#3	19148	--	--	--	--	--	--

Analysis Report

Method: LR1 Sample Name: CR1-1-L Operator:
Run Time: 09/23/96 11:32:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be313	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	23.89	156.1	14.51	-1.993	.3350	9.257	225.8
SDev	.09	33.0	1.22	.765	.1434	.014	34.1
%RSD	.3791	21.11	8.431	38.41	42.80	.1561	15.09
#1	23.82	192.7	L13.93	-1.897	.1699	9.273	186.6
#2	23.99	147.0	15.91	-2.802	.4071	9.249	243.0
#3	23.85	128.7	L13.68	-1.280	.4280	9.248	247.9
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	26.00		26.00			13.00	
Low	14.00		14.00			7.000	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	9.066	89.30	17.74	42.59	36.54	-42.44	96.34
SDev	.149	.18	.15	.36	11.34	2.46	19.01
%RSD	1.639	.2035	.8217	.8396	31.02	5.802	19.73
#1	9.112	89.27	17.63	42.18	47.65	-45.25	117.6
#2	9.186	89.49	17.68	42.76	36.98	-40.67	90.33
#3	8.900	89.13	17.91	42.83	24.99	-41.40	81.06
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High	13.00	130.0	26.00	65.00			
Low	7.000	70.00	14.00	35.00			

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	26.74	-.0281	296.0	74.56	3.321	5.275	4.625
SDev	.04	.1903	103.5	.56	2.595	.406	.927
%RSD	.1660	677.8	34.95	.7474	78.14	7.702	20.04
#1	26.78	.0822	181.8	74.05	6.275	5.235	5.582
#2	26.74	.0813	383.6	75.16	1.408	4.891	L3.731
#3	26.69	-.2478	322.6	74.47	2.280	5.700	4.562
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High	39.00			104.0			7.800
Low	21.00			56.00			4.200

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	L6.846	111.4	10.81	4.868	1.336	-.1276	20.02
SDev	1.260	1.1	2.96	.476	.838	.1643	1.76
%RSD	18.41	.9460	27.40	9.776	62.72	128.8	8.782
#1	7.600	112.2	12.14	5.332	1.819	-.1782	21.94
#2	7.548	110.2	12.87	4.892	1.822	.0561	23.63
#3	L5.391	111.8	7.414	4.381	.3685	-.2605	18.49
Errors	LC Low	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	13.00	156.0					26.00

Low	7.000	84.00
Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	89.98	37.38
SDev	.34	.34
%RSD	.3823	.9225
#1	89.69	37.76
#2	90.36	37.28
#3	89.89	37.09
Errors	LC Pass	LC Pass
High	130.0	52.00
Low	70.00	28.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19123	--	--	--	--	--	--
SDev	32.04684	--	--	--	--	--	--
%RSD	.1675827	--	--	--	--	--	--
#1	19090	--	--	--	--	--	--
#2	19125	--	--	--	--	--	--
#3	19154	--	--	--	--	--	--

Method: LR1 Sample Name: ICSA-1-2 Operator:
Run Time: 05/23/96 11:37:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.4180	462600.	.5393	-3.348	6.716	.1075	441500.
SDev	.5721	2798.	5.069	.841	.027	.0500	2565.
%RSD	136.9	.6048	939.9	25.13	.4074	46.54	.5810
#1	.3953	461100.	5.919	-3.134	6.685	.1248	440600.
#2	-.1424	465900.	-.1531	-2.635	6.736	.0511	444400.
#3	1.001	461000.	-4.148	-4.276	6.728	.1465	439600.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	10.00	600000.	10.00		200.0	5.000	600000.
Low	-10.00	400000.	-10.00		-200.0	-5.000	400000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	3.488	-.8342	5.395	-9.646	183600.	-147.7	499200.
SDev	.370	.2133	.244	.286	1168.	4.2	3061.
%RSD	10.61	25.57	4.514	2.962	.6362	2.817	.6132
#1	3.911	-.6384	5.615	-9.674	182800.	-151.4	498100.
#2	3.332	-1.062	5.133	-9.916	185000.	-143.2	502700.
#3	3.222	-.8027	5.438	-9.347	183100.	-148.6	496900.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	50.00	10.00	25.00	240000.	5000.	600000.
Low	-5.000	-50.00	-10.00	-25.00	160000.	-5000.	400000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	-2.161	-.4702	-330.6	3.058	61.38	-30.79	-.0953
SDev	.029	2.0050	235.5	.379	11.42	7.65	1.3793
%RSD	1.324	426.4	71.25	12.40	18.60	24.86	1447.
#1	-2.158	1.505	-68.14	3.147	74.53	-39.62	-1.612
#2	-2.191	-.4120	-523.6	3.385	55.68	-26.17	1.085
#3	-2.134	-2.504	-399.9	2.642	53.93	-26.57	.2411
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	15.00		5000.	40.00			3.000
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-2.120	5.718	-10.84	2.235	5.803	.1682	.6329
SDev	.984	4.515	9.83	4.943	4.536	.0896	1.563
%RSD	46.42	78.95	90.61	221.2	78.17	53.28	247.0
#1	-2.377	10.83	-.2005	-3.465	10.85	.2197	1.645
#2	-2.950	4.054	-19.57	5.347	2.072	.0647	-1.168
#3	-1.033	2.272	-12.76	4.823	4.484	.2201	1.421
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	5.000	60.00					10.00

000085

Low	-5.000	-60.00					-10.00
Elem	V_2924	Zn2062					
Units	ug/L	ug/L					
Avge	-1.769	-.3916					
SDev	.189	.0912					
%RSD	10.69	23.28					
#1	-1.987	-.4945					
#2	-1.667	-.3594					
#3	-1.652	-.3209					
Errors	LC Pass	LC Pass					
High	50.00	20.00					
Low	-50.00	-20.00					
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17990	--	--	--	--	--	--
SDev	91.24326	--	--	--	--	--	--
%RSD	.5071794	--	--	--	--	--	--
#1	18045	--	--	--	--	--	--
#2	17885	--	--	--	--	--	--
#3	18041	--	--	--	--	--	--

Analysis [illegible] [illegible]

Method: LM1 Sample Name: 1CWA6-1-2 Operator:
Run Time: 09/13/96 11:41:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba=934	Be313(	Ca3179
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	171.6	456500.	95.00	-2.518	489.2	464.1	434500.
SDev	1.4	4082.	1.31	1.279	4.6	4.3	3844.
%RSD	.8270	.8941	1.381	50.79	.9325	.9357	.8846
#1	170.0	451800.	96.39	-1.147	484.0	459.1	430200.
#2	171.9	458200.	93.76	-3.679	490.9	465.8	435600.
#3	172.8	459400.	95.10	-2.726	492.6	467.3	437700.
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	240.0	600000.	120.0		600.0	600.0	600000.
Low	160.0	400000.	80.00		400.0	400.0	400000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	911.8	445.7	462.6	500.9	182100.	-154.4	490800.
SDev	8.2	3.8	4.4	5.0	1764.	3.9	5064.
%RSD	.9042	.8550	.9521	.9933	.9687	2.529	1.032
#1	902.4	441.4	457.7	495.2	180100.	-158.9	485100.
#2	915.2	447.1	464.1	503.2	182800.	-152.4	492800.
#3	917.8	448.7	466.1	504.4	183500.	-151.9	494600.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1200.	600.0	600.0	600.0	240000.	5000.	600000.
Low	800.0	400.0	400.0	400.0	160000.	-5000.	400000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	460.3	.1084	-197.8	921.0	104.4	13.81	43.99
SDev	4.1	.9688	108.0	8.1	8.0	9.64	3.77
%RSD	.8843	893.8	54.58	.8833	7.667	69.79	8.572
#1	455.7	.2777	-74.83	912.0	113.7	2.681	L39.64
#2	461.8	-.9339	-241.6	923.2	100.2	19.55	46.41
#3	463.4	.9814	-277.0	927.8	99.44	19.19	45.91
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	600.0		5000.	1200.			80.00
Low	400.0		-5000.	800.0			40.00

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	46.02	599.2	37.49	50.27	4.467	.6281	95.27
SDev	.79	6.8	11.53	6.91	2.501	.2091	1.14
%RSD	1.725	1.137	30.76	13.74	55.98	33.29	1.194
#1	45.12	603.6	50.76	42.30	7.284	.8645	95.88
#2	46.31	591.3	29.92	54.49	2.509	.4673	98.98
#3	46.62	602.6	31.78	54.03	3.608	.5525	93.96
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	60.00	720.0					120.0

Low	40[illegible]	480.0 [illegible]
Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	466.0	866.0
SDev	4.6	8.3
%RSD	.9840	.9613
#1	461.0	856.5
#2	466.8	869.7
#3	470.1	871.8
Errors	LC Pass	LC Pass
High	600.0	1200.
Low	400.0	800.0

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18123	--	--	--	--	--	--
SDev	100.6197	--	--	--	--	--	--
%RSD	.5551945	--	--	--	--	--	--
#1	18239	--	--	--	--	--	--
#2	18075	--	--	--	--	--	--
#3	18056	--	--	--	--	--	--

Analysis [illegible]

Method: LAL Sample Name: [illegible] Operator:
Run Time: [illegible] 11:48:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3130	Ca[illegible]
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	470.5	46320.	482.6	498.9	477.3	478.4	47840.
SDev	.2	40.	1.5	1.3	.3	.2	4.
%RSD	.0359	.0873	.3199	.2517	.0550	.0347	.0087
#1	470.3	46270.	482.1	498.9	477.0	478.5	47840.
#2	470.6	46320.	484.4	500.1	477.5	478.4	47850.
#3	470.6	46350.	481.5	497.6	477.5	478.2	47840.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	55000.	550.0	550.0	550.0	550.0	55000.
Low	450.0	45000.	450.0	450.0	450.0	450.0	45000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	475.4	463.3	482.4	485.6	47100.	46260.	46830.
SDev	.1	.4	.4	.1	7.	6.	37.
%RSD	.0193	.0843	.0788	.0131	.0144	.0132	.0799
#1	475.4	463.7	482.1	485.7	47110.	46260.	46790.
#2	475.3	463.1	482.8	485.7	47090.	46260.	46860.
#3	475.5	463.0	482.2	485.6	47100.	46270.	46850.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	550.0	550.0	550.0	550.0	55000.	55000.	55000.
Low	450.0	450.0	450.0	450.0	45000.	45000.	45000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	470.4	479.4	47220.	489.1	463.6	484.1	477.3
SDev	.2	1.7	100.	1.0	2.5	4.3	2.7
%RSD	.0482	.3475	.2115	.1957	.5347	.8971	.5559
#1	470.5	477.8	47330.	488.1	465.5	479.3	474.7
#2	470.5	481.1	47160.	489.4	464.5	487.8	480.0
#3	470.1	479.5	47160.	489.9	460.8	485.3	477.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	550.0	550.0	55000.	550.0			550.0
Low	450.0	450.0	45000.	450.0			450.0

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	Tl1908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	487.2	489.8	468.7	496.4	458.8	480.3	472.0
SDev	6.1	1.9	.5	8.9	1.8	.4	2.7
%RSD	1.251	.3797	.1121	1.794	.4021	.0764	.5761
#1	480.8	491.7	468.3	487.0	457.9	479.9	469.6
#2	487.9	488.1	468.5	497.6	460.9	480.6	474.9
#3	492.9	489.5	469.3	504.7	457.6	480.4	471.5
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	550.0	550.0			550.0	550.0	550.0

Low	...	450.0			450.0	...	450.0

Elem	V_2924	Ln2062
Units	ug/L	ug/L
Avge	460.0	467.4
SDev	.5	.5
%RSD	.1167	.1029
#1	463.3	466.8
#2	464.4	467.6
#3	453.9	467.7
Errors	LC Pass	LC Pass
High	550.0	550.0
Low	450.0	450.0

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19136	--	--	--	--	--	--
SDev	16.25833	--	--	--	--	--	--
%RSD	.0849605	--	--	--	--	--	--
#1	19118	--	--	--	--	--	--
#2	19149	--	--	--	--	--	--
#3	19142	--	--	--	--	--	--

Analysis Log [illegible]

Method: LM1 Sample Name: CCL-1-3 Operator:
Run Time: 6/ 13/96 11:51:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Ca31 9
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	.1166	104.1	-2.506	-3.322	.0690	.5807	-1.174
SDev	.2832	2.1	1.977	.539	.0110	.0420	.571
%RSD	200.0	1.970	78.89	16.21	12.33	7.239	48.63
#1	-.1471	105.9	-.2282	-3.267	.0773	.6145	-.5724
#2	.2957	104.6	-3.667	-2.812	.0907	.5336	-1.240
#3	.2011	101.9	-3.627	-3.885	.0990	.5938	-1.708
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.000	200.0	10.00		200.0	5.000	5000.
Low	-5.000	-200.0	-10.00		-200.0	-5.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-.0777	.3151	.0973	-3.132	8.507	-59.65	5.979
SDev	.0523	.3030	.0826	.257	2.927	.34	3.236
%RSD	67.31	96.16	84.86	8.206	34.40	.5701	54.13
#1	-.1079	.6649	.0975	-3.325	5.169	-60.04	9.710
#2	-.0173	.1398	.1798	-2.840	10.63	-59.53	4.297
#3	-.1079	.1405	.0147	-3.230	9.720	-59.39	3.930
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	50.00	10.00	25.00	100.0	5000.	5000.
Low	-5.000	-50.00	-10.00	-25.00	-100.0	-5000.	-5000.

Elem	Mn2576	Mo2020	Na3302	Ni2316	2203-1	2203-2	Pb2203
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Avge	.0847	.6729	-67.26	-.5004	-2.283	.3560	-.5224
SDev	.0005	.7666	151.82	.5740	1.525	1.183	.7667
%RSD	.5947	113.9	225.7	114.7	66.79	332.3	146.8
#1	.0842	1.538	97.59	.1601	-.7422	.5345	.1098
#2	.0852	.4042	-98.07	-.8782	-3.792	1.440	-.3018
#3	.0848	.0768	-201.3	-.7831	-2.316	-.9062	-1.375
Errors	LC Pass	NOCHECK	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	15.00		5000.	40.00			3.000
Low	-15.00		-5000.	-40.00			-3.000

Elem	Se1960	Sb2068	1960-1	1960-2	Sn1899	Ti3372	T11908
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Avge	-1.017	1.198	.4309	-1.741	1.199	-.1127	5.626
SDev	.315	.563	1.101	1.021	.942	.0764	3.207
%RSD	30.93	46.98	255.6	58.66	78.55	67.77	57.00
#1	-.6675	1.373	-.7739	-.6151	1.406	-.0377	7.738
#2	-1.107	.5680	.6802	-2.000	.1708	-.1106	7.205
#3	-1.277	1.651	1.386	-2.608	2.020	-.1904	1.936
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High	5.000	50.00					10.00

Low	[illegible]	[illegible]	[illegible]

Elem	V_2924	Zn2062
Units	ug/L	ug/L
Avge	.1600	.2333
SDev	.1908	.1541
%RSD	119.3	66.04
#1	.2695	.4112
#2	.2708	.1449
#3	-.0604	.1438
Errors	LC Pass	LC Pass
High	50.00	20.00
Low	-50.00	-20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19308	--	--	--	--	--	--
SDev	45.65450	--	--	--	--	--	--
%RSD	.2364497	--	--	--	--	--	--
#1	19356	--	--	--	--	--	--
#2	19265	--	--	--	--	--	--
#3	19304	--	--	--	--	--	--

Laboratory Resources, Inc

Division: Teterboro

Department: Metals

Date: 9/20/96

Shift: _____

Instrument No.: TJA 1000

Batch No.: 2118, 2114, 2117

Raw Data W/: 2118

Analyst: VD

Supervisor: _____

Prep Date: 9/20/96

Prep Time

Start: 2:00 P.M.

End: 4:00 P.M.

Water Bath: 95°C T, OC

RUN LOG

Parameter: Mercury

Matrix: Liquids/Solids - Others

	Sample ID	Batch No.	Prep Factor	Dilution Factor	Conc in Extract ppb	Result in Extract ppb	Notes
	ICV - 1				3.844		TV=4.0 ppb %R= 96.10
	ICB - 1				-0.031		
	CCV-1-1				3.937		TV=4.0 ppb %R= 98.43
	CCB-1-1				0.003		
1	CRA- 1				0.164		TV=0.2 ppb %R= 82.0
2	PB W	2118	1D		-0.028		
3	LCS W	11	1D		0.963		TV=1.0 ppb %R= 96.3
4	T6C9198-1	11	1D		-0.021		
5	T6C9198-1D	11	1D		-0.021		
6	T6C9198-1MS	11	1D		0.977		TV=1.0 ppb %R= 97.7
7	T6C9198-2	11	1D		-0.023		
8	T6C9198-3	11	1D		-0.027		
9	T6C9198-4	11	1D		-0.025		
10	PBW	2114	1D		0.006		
	CCV-1-2				3.926		TV=4.0 ppb %R= 98.15
	CCB-1-2				0.005		

Laboratory Resources, Inc

Division: Teterboro

Department: Metals

Date: 9/20/96 Analyst: VD

RUN LOG

Parameter: Mercury

Matrix: Liquids / Solids - Others

	Sample ID	Batch No.	Prep Factor	Dilution Factor	Conc in Extract ppb	Result in Extract ppb	Notes
1	LCSW	2114	1D		3.917		TV=4.0 PPb %R=97.93
2	LCSWD	"	1D		3.893		TV=4.0 PPb %R=97.33
3	T6C9273-1	"	10D		-0.021		
4	T6C9280-1	"	10D		-0.027		
5	T6C9290-1	"	10D		-0.027		
6	T6C9302-12	2117	1D		-0.019		
7							
8							
9							
10							
	CCV-1-3				3.904		TV= 4.0 ppb %R= 97.60
	CCB-1-3				0.036		
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
	CCV						TV= 4.0 ppb %R=
	CCB						0.0094

ple Information File C:\BETA1\AAUSER\SAMPINFO\092096VD.SIF

Description :
Batch ID : 092096VD
Volume Units :
Weight Units :
Analyst : VD
Sample Volume : 0.00

AS Loc	Sample ID	Sample Weight	Sample Units	User Dilution	Remarks
11	CRA-1				
12	PBW-2118				
13	LCSW-2118				
14	T609198-1				
15	T609198-1D				
16	T609198-1MS				
17	T609198-2				
18	T609198-3				
19	T609198-4				
20	PBW-2114				
21	LCSW-2114				
22	LCSWD-2114				
23	T609273-1				
24	T609280-1				
25	T609290-1				
26	T609302-12---2117				

ANALYST SIGNATURE: Mercia Remedi

SUPERVISOR SIGNATURE: _____

090695

Method Name: HG196
Method Description:
Element: Hg

Date: 09/20/1996
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 092096VD.SIF Results Data Set Name: 092096VD

Element: Hg Seq. No.: 2 AS Loc.: 1 Date: 09/20/1996
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0005	0.0030	0.0005	05:44:18	No
2			0.0005	0.0031	0.0005	05:44:49	No
3			0.0005	0.0032	0.0005	05:45:19	No
Mean:			0.0005				
SD :			0.0000				
%RSD:			2.3017				

Auto-zero performed.

Element: Hg Seq. No.: 3 AS Loc.: 2 Date: 09/20/1996
Sample ID: STD 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0027	0.0188	0.0032	05:46:32	No
2			0.0027	0.0188	0.0032	05:47:02	No
3			0.0026	0.0181	0.0031	05:47:32	No
Mean:			0.0027				
SD :			0.0000				
%RSD:			1.6946				

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.01332
Intercept : 0.00000

Element: Hg Seq. No.: 4 AS Loc.: 3 Date: 09/20/1996
Sample ID: STD 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0077	0.0483	0.0082	05:48:46	No
2			0.0077	0.0480	0.0082	05:49:17	No
3			0.0074	0.0466	0.0080	05:49:47	No
Mean:			0.0076				
SD :			0.0001				
%RSD:			1.5998				

[Hg] Standard number 2 applied. [0.500]
Correlation Coefficient: 0.99847 Slope: 0.01527
Intercept : -0.00015

Element: Hg Seq. No.: 5 AS Loc.: 4 Date: 09/20/1996
Sample ID: STD 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.0310	0.1873	0.0316	05:51:04	No
2	0.0301	0.1801	0.0306	05:51:34	No
3	0.0300	0.1777	0.0306	05:52:04	No
Mean:	0.0304				
SD :	0.0006				
%RSD:	1.8416				

[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99992 Slope: 0.01526
Intercept : -0.00014

Element: Hg Seq. No.: 6 AS Loc.: 5 Date: 09/20/1996
Sample ID: STD 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0621	0.3678	0.0627	05:53:19	No
2			0.0605	0.3568	0.0610	05:53:49	No
3			0.0621	0.3673	0.0627	05:54:19	No
Mean:			0.0616				
SD :			0.0009				
%RSD:			1.5215				

[Hg] Standard number 4 applied. [4.000]
Correlation Coefficient: 0.99997 Slope: 0.01542
Intercept : -0.00022

Element: Hg Seq. No.: 7 AS Loc.: 6 Date: 09/20/1996
Sample ID: STD 5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1198	0.7188	0.1204	05:55:36	No
2			0.1203	0.7073	0.1208	05:56:06	No
3			0.1184	0.6987	0.1189	05:56:36	No
Mean:			0.1195				
SD :			0.0010				
%RSD:			0.8462				

[Hg] Standard number 5 applied. [8.000]
Correlation Coefficient: 0.99987 Slope: 0.01500
Intercept : 0.00020

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0005	---	----	----	----
STD 1	0.0027	0.200	0.164	0.0000	1.7
STD 2	0.0076	0.500	0.493	0.0001	1.6
STD 3	0.0304	2.000	2.012	0.0006	1.8
STD 4	0.0616	4.000	4.092	0.0009	1.5
STD 5	0.1195	8.000	7.952	0.0010	0.8
Calib Blank	0.0005	---	----	----	----

Correlation Coefficient: 0.99987 Slope: 0.01500 Intercept: 0.0002

Element: Hg Seq. No.: 8 AS Loc.: 9 Date: 09/20/1996
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.833	3.833	0.0577	0.3454	0.0582	05:57:52	No

2	3.818	3.818	0.0575	0.3433	0.0580	05:58:22	No
3	3.882	3.882	0.0584	0.3459	0.0590	05:58:52	No
Mean:	3.844	3.844	0.0579				
SD :	0.0336	0.0336	0.0005				
%RSD:	0.9	0.9	0.8701				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 10 Date: 09/20/1996
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	-0.0003	0.0010	0.0002	06:00:06	No
2	-0.030	-0.030	-0.0003	0.0014	0.0003	06:00:37	No
3	-0.030	-0.030	-0.0003	0.0012	0.0003	06:01:07	No
Mean:	-0.031	-0.031	-0.0003				
SD :	0.0012	0.0012	0.0000				
%RSD:	3.8	3.8	6.6231				

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 09/20/1996
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.953	3.953	0.0595	0.3567	0.0600	06:02:28	No
2	3.927	3.927	0.0591	0.3537	0.0596	06:02:58	No
3	3.932	3.932	0.0592	0.3508	0.0597	06:03:27	No
Mean:	3.937	3.937	0.0593				
SD :	0.0139	0.0139	0.0002				
%RSD:	0.4	0.4	0.3524				

QC value within specified limits.

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 09/20/1996
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0002	0.0043	0.0008	06:04:45	No
2	0.005	0.005	0.0003	0.0045	0.0008	06:05:15	No
3	0.002	0.002	0.0002	0.0043	0.0008	06:05:46	No
Mean:	0.003	0.003	0.0002				
SD :	0.0016	0.0016	0.0000				
%RSD:	50.7	50.7	9.6602				

QC value within specified limits.

Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 09/20/1996
Sample ID: CRA-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.166	0.166	0.0027	0.0195	0.0032	06:07:03	No
2	0.164	0.164	0.0027	0.0187	0.0032	06:07:32	No
3	0.164	0.164	0.0027	0.0187	0.0032	06:08:02	No
Mean:	0.164	0.164	0.0027				
SD :	0.0011	0.0011	0.0000				
%RSD:	0.6	0.6	0.5913				

Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 09/20/1996

Sample ID: PBW-2118

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.031	-0.031	-0.0003	0.0013	0.0003	06:09:18	No
2	-0.025	-0.025	-0.0002	0.0021	0.0004	06:09:48	No
3	-0.027	-0.027	-0.0002	0.0017	0.0003	06:10:18	No
Mean:	-0.028	-0.028	-0.0002				
SD :	0.0031	0.0031	0.0000				
%RSD:	11.1	11.1	21.4865				

Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 09/20/1996
Sample ID: LCSW-2118

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.967	0.967	0.0147	0.0902	0.0152	06:11:34	No
2	0.965	0.965	0.0147	0.0908	0.0152	06:12:03	No
3	0.958	0.958	0.0146	0.0907	0.0151	06:12:32	No
Mean:	0.963	0.963	0.0147				
SD :	0.0044	0.0044	0.0001				
%RSD:	0.5	0.5	0.4537				

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 09/20/1996
Sample ID: T609198-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.021	-0.021	-0.0001	0.0025	0.0004	06:13:48	No
2	-0.019	-0.019	-0.0001	0.0027	0.0004	06:14:18	No
3	-0.024	-0.024	-0.0002	0.0020	0.0004	06:14:48	No
Mean:	-0.021	-0.021	-0.0001				
SD :	0.0027	0.0027	0.0000				
%RSD:	12.7	12.7	33.2865				

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 09/20/1996
Sample ID: T609198-1D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.022	-0.022	-0.0001	0.0021	0.0004	06:16:05	No
2	-0.022	-0.022	-0.0001	0.0021	0.0004	06:16:34	No
3	-0.020	-0.020	-0.0001	0.0027	0.0004	06:17:04	No
Mean:	-0.021	-0.021	-0.0001				
SD :	0.0014	0.0014	0.0000				
%RSD:	6.4	6.4	16.9132				

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 09/20/1996
Sample ID: T609198-1MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.969	0.969	0.0147	0.0909	0.0153	06:18:23	No
2	0.980	0.980	0.0149	0.0919	0.0154	06:18:53	No
3	0.981	0.981	0.0149	0.0912	0.0154	06:19:22	No
Mean:	0.977	0.977	0.0148				
SD :	0.0065	0.0065	0.0001				
%RSD:	0.7	0.7	0.6550				

C00199

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 09/20/1996
Sample ID: T609198-2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.025	-0.025	-0.0002	0.0017	0.0004	06:20:38	No
2	-0.022	-0.022	-0.0001	0.0023	0.0004	06:21:08	No
3	-0.023	-0.023	-0.0001	0.0021	0.0004	06:21:38	No
Mean:	-0.023	-0.023	-0.0001				
SD :	0.0015	0.0015	0.0000				
%RSD:	6.4	6.4	14.8175				

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 09/20/1996
Sample ID: T609198-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.028	-0.028	-0.0002	0.0016	0.0003	06:22:49	No
2	-0.028	-0.028	-0.0002	0.0014	0.0003	06:23:19	No
3	-0.024	-0.024	-0.0002	0.0019	0.0004	06:23:48	No
Mean:	-0.027	-0.027	-0.0002				
SD :	0.0023	0.0023	0.0000				
%RSD:	8.5	8.5	16.6609				

Element: Hg Seq. No.: 20 AS Loc.: 19 Date: 09/20/1996
Sample ID: T609198-4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.026	-0.026	-0.0002	0.0019	0.0003	06:25:01	No
2	-0.023	-0.023	-0.0001	0.0021	0.0004	06:25:31	No
3	-0.025	-0.025	-0.0002	0.0021	0.0004	06:26:01	No
Mean:	-0.025	-0.025	-0.0002				
SD :	0.0014	0.0014	0.0000				
%RSD:	5.6	5.6	12.0198				

Element: Hg Seq. No.: 21 AS Loc.: 20 Date: 09/20/1996
Sample ID: PBW-2114

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0003	0.0048	0.0008	06:27:14	No
2	0.005	0.005	0.0003	0.0044	0.0008	06:27:44	No
3	0.006	0.006	0.0003	0.0047	0.0008	06:28:14	No
Mean:	0.006	0.006	0.0003				
SD :	0.0009	0.0009	0.0000				
%RSD:	16.4	16.4	4.8624				

Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 09/20/1996
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.942	3.942	0.0593	0.3563	0.0599	06:29:30	No
2	3.910	3.910	0.0589	0.3516	0.0594	06:29:59	No
3	3.928	3.928	0.0591	0.3489	0.0597	06:30:28	No
Mean:	3.926	3.926	0.0591				
SD :	0.0157	0.0157	0.0002				
%RSD:	0.4	0.4	0.3986				

QC value within specified limits.

000100

Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 09/20/1996
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	0.0003	0.0050	0.0009	06:31:47	No
2	0.004	0.004	0.0003	0.0043	0.0008	06:32:17	No
3	0.000	0.000	0.0002	0.0038	0.0007	06:32:47	No
Mean:	0.005	0.005	0.0003				
SD :	0.0049	0.0049	0.0001				
%RSD:	103.6	103.6	27.3687				

QC value within specified limits.

Element: Hg Seq. No.: 24 AS Loc.: 21 Date: 09/20/1996
Sample ID: LCSW-2114

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.898	3.898	0.0587	0.3544	0.0592	06:34:03	No
2	3.893	3.893	0.0586	0.3541	0.0591	06:34:33	No
3	3.960	3.960	0.0596	0.3595	0.0601	06:35:03	No
Mean:	3.917	3.917	0.0590				
SD :	0.0374	0.0374	0.0006				
%RSD:	1.0	1.0	0.9507				

Element: Hg Seq. No.: 25 AS Loc.: 22 Date: 09/20/1996
Sample ID: LCSWD-2114

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.875	3.875	0.0583	0.3548	0.0589	06:36:17	No
2	3.875	3.875	0.0583	0.3522	0.0589	06:36:47	No
3	3.928	3.928	0.0591	0.3517	0.0597	06:37:17	No
Mean:	3.893	3.893	0.0586				
SD :	0.0304	0.0304	0.0005				
%RSD:	0.8	0.8	0.7792				

Element: Hg Seq. No.: 26 AS Loc.: 23 Date: 09/20/1996
Sample ID: T609273-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.018	-0.018	-0.0001	0.0028	0.0005	06:38:32	No
2	-0.022	-0.022	-0.0001	0.0022	0.0004	06:39:03	No
3	-0.023	-0.023	-0.0002	0.0020	0.0004	06:39:33	No
Mean:	-0.021	-0.021	-0.0001				
SD :	0.0027	0.0027	0.0000				
%RSD:	12.6	12.6	33.3168				

Element: Hg Seq. No.: 27 AS Loc.: 24 Date: 09/20/1996
Sample ID: T609280-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.024	-0.024	-0.0002	0.0025	0.0004	06:40:47	No
2	-0.030	-0.030	-0.0002	0.0013	0.0003	06:41:16	No
3	-0.027	-0.027	-0.0002	0.0021	0.0003	06:41:45	No
Mean:	-0.027	-0.027	-0.0002				
SD :	0.0028	0.0028	0.0000				
%RSD:	10.4	10.4	20.6160				

000101

Element: Hg Seq. No.: 28 AS Loc.: 25 Date: 09/20/1996
Sample ID: T609290-1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.025	-0.025	-0.0002	0.0023	0.0004	06:43:02	No
2	-0.027	-0.027	-0.0002	0.0019	0.0003	06:43:33	No
3	-0.029	-0.029	-0.0002	0.0014	0.0003	06:44:03	No
Mean:	-0.027	-0.027	-0.0002				
SD :	0.0022	0.0022	0.0000				
%RSD:	8.2	8.2	16.2821				

Element: Hg Seq. No.: 29 AS Loc.: 26 Date: 09/20/1996
Sample ID: T609302-12---2117

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.018	-0.018	-0.0001	0.0025	0.0005	06:45:18	No
2	-0.020	-0.020	-0.0001	0.0023	0.0004	06:45:48	No
3	-0.019	-0.019	-0.0001	0.0025	0.0004	06:46:18	No
Mean:	-0.019	-0.019	-0.0001				
SD :	0.0010	0.0010	0.0000				
%RSD:	5.4	5.4	18.0684				

Element: Hg Seq. No.: 30 AS Loc.: 7 Date: 09/20/1996
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.946	3.946	0.0594	0.3392	0.0599	06:47:36	No
2	3.905	3.905	0.0588	0.3229	0.0593	06:48:06	No
3	3.861	3.861	0.0581	0.3165	0.0587	06:48:36	No
Mean:	3.904	3.904	0.0588				
SD :	0.0424	0.0424	0.0006				
%RSD:	1.1	1.1	1.0833				

QC value within specified limits.

Element: Hg Seq. No.: 31 AS Loc.: 8 Date: 09/20/1996
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.072	0.072	0.0013	0.0105	0.0018	06:49:54	No
2	0.018	0.018	0.0005	0.0054	0.0010	06:50:25	No
3	0.016	0.016	0.0004	0.0056	0.0010	06:50:55	No
Mean:	0.036	0.036	0.0007				
SD :	0.0319	0.0319	0.0005				
%RSD:	89.6	89.6	65.2502				

QC value within specified limits.

000102

PROJECT Cyanide (Total) Notebook No. _____ Continued From Page _____

Date TC / Analyst	Sample ID	Dil	Initial Vol	Signal 1:1	Abs	Conc (mg/L)	Result (mg/L)	Final Result mg/L (mg/kg)	Comments
9/23/96 AP	9299-2		250	250	0.109	0.034	0.034		
	9302-12		250	250	0.00	<0.01	<0.01		
	CCV				0.162	0.195	0.195		TV=0.2 ppm 97%
	CCB				0.00	<0.01	<0.01		

Calibration

Conc (mg/L)	Abs
0.00	0.00
0.01	0.030
0.05	0.148
0.10	0.309
0.30	1.078
0.50	1.714

9/24/96 AP 9:00

Correlation Coefficient = 0.99929

Continued on Page

Read and Understood By

Ajay — Signed — 9/24/96 — Date

R S — Signed — 09/24/96 — Date

PROJECT Cyanide (Total) Notebook No. _____

Continued From Page _____

HTB / ST	Sample ID	Initial Vol	Final Vol	Dil	Abs	Conc (mg/L)	Conc (mg/L)		Comments
9/24/96 MP	ICV				0.669	0.195	0.195		T.V = 0.2 ppm 97% Rec
	ICB				0.00	<0.01	<0.01		
	Blank (PBW)				0.00	<0.01	<0.01		
	Blank spike (LCSW)				0.652	0.190	0.190		T.V = 0.2 ppm 95%
	High std.			2x	0.845	0.245	0.49		T.V = 0.5 ppm 98%
	Low std.				0.025	0.010	0.010		
	9198-1	250	250		0.00	<0.01	<0.01		
	-1 Dup	250	250		0.00	<0.01	<0.01		
	-1 MS	250	250		0.340	0.100	0.100		T.V = 0.1 ppm. 100%
	-2	250	250		0.00	<0.01	<0.01		
	-3	250	250		0.00	<0.01	<0.01		
	-4	250	250		0.00	<0.01	<0.01		
09/24/96	CCV				0.672	0.196	0.196		T.V = 0.2 ppm 98% Rec
	CCB				0.00	<0.01	<0.01		

Continued on Page

Read and Understood By

Signed: Ajing 9/24/96 Date

Signed: R S 09/24/96 Date

SAMPLE PREPARATION LOG BATCH NO. 2118 198

LRI Sample No.	ICP				Furnace				PH S.U	Comments
	Initial Vol/Wt	Final Vol/Wt	Factor	Acid Added	Initial Vol/Wt	Final Vol/Wt	Factor	Acid Added		
PBW	100 ml	100 ml	1	1 ml HNO_3						
LCSW	100 ml	100 ml		5 ml HCL						1 ml each of SS Trace #
LCSWD	100 ml	100 ml								
609198-1	100 ml	100 ml							<2	1, 2, 3, 4, 5
609198-1D	100 ml	100 ml							<2	
1MS	100 ml	100 ml							<2	1 ml each of SS Trace #
1MSD	100 ml	100 ml							<2	
609198-2	100 ml	100 ml							<2	1, 2, 3, 4, 5
609198-3	100 ml	100 ml							<2	
609198-4	100 ml	100 ml							<2	

Analyst/Date 9-20-96 SS
Sample Spiked 609198-1
Sample Duped 609198-1
Spiked Added 1 ml each of SS Trace # 1, 2, 3, 4, 5

CLP

SAMPLE PREPARATION LOG BATCH NO. 2118 2114 016

LRI Sample No.	Mercury				PH S.U	Comments
	Initial Vol/Wt	Final Vol/Wt	Factor	Reagent Added		
PBW	100 ml	100 ml	1D	5 ml H_2SO_4	-	
LCSW	100 ml	100 ml	1D	2.5 HNO_3	-	1 ml of Hg worku.
T6C9198-1	100 ml	100 ml	1D	"	<2	Std 100 ug/L
-1D	100 ml	100 ml	1D	"	-	
-1MS	100 ml	100 ml	1D	"	-	1 ml of Hg worku
-2	100 ml	100 ml	1D	"	<2	Std 100 ug/L
-3	100 ml	100 ml	1D	"	<2	
-4	100 ml	100 ml	1D	"	<2	
PBW	100 ml	100 ml	1D	"	-	
LCSW	100 ml	100 ml	1D	"	-	1 ml of Hg worku
LCSWD	100 ml	100 ml	1D	"	-	Std 100 ug/L
T609273-1	10 ml	100 ml	10D	"		Batch 2114
T609280-1	10 ml	100 ml	10D	"		" "
T609290-1	10 ml	100 ml	10D	"		" "
T609302-12	100 ml	100 ml	1D	"		Batch 2117

Analyst/Date 9/20/96

Sample Spiked T609198-1

Sample Duped T609198-1

Spiked Added 1 ml of Hg working Std 100 ug/L (SPEX-62-11) and 4 ml of Hg working Std 100 ug/L (SPEX-62-11)

Laboratory Resources Inc

SAMPLE PREPARATION SHEET — METALS DEPT.

DESCRIPTION

-CLP-

CLP 2118

SAMPLE NO.	COLOR BEFORE	COLOR AFTER	CLARITY BEFORE	CLARITY AFTER	TEXTURE	ARTIFACTS	COMMENTS
609195-1	colorless	colorless	clear	clear			
609198-2	↓	↓	↓	↓			
609198-3							
609198-4							

CLP DESCRIPTIVE TERMS

1.COLOR: Red,BLUE,YELLOW,Green,Orange,Violet,White,Colorless,Brown,Gray,Blac

2.CLARITY: Clear,Cloudy,Opaque;

3.TEXTURE: Fine(powdery),Medium(sand),Coarse(large crystals or rocks);

If artifacts are present, enter YES in the artifacts field.Describe the arti.

Record any significant changes that occur during sample preparation in the comments field.

0091179

Laboratory Resources

TITLE

PROJECT NO.

BOOK NO.

LRI No.	STD	Manufacturer	Lot No.	Conc. MG/L	Date Recieved	Expiration Date Opened	Expiration Date	Notes
A-59-01	Ca	I.V.	J-CA0211	10,000	8/07/95	9/07/95	8/07/96	
A-59-02	K	SPEX	K4-61K	10,000	8/29/95	9/05/95	8/31/96	
A-59-03	Mg	SPEX	4-137MG	1,000	8/29/95	9/02/95	8/31/96	
A-59-04	Cd	I.V.	J-CD01075	1,002	8/30/95	9/04/95	8/30/96	
A-59-05	Co	I.V.	K-CO01079	1,003	8/30/95	9/04/95	8/30/96	
A-59-06	Fe	I.V.	J-FE0204	1,005	8/30/95	9/02/95	8/30/96	
A-59-07	Mn	I.V.	J-MN01109	1,004	8/30/95	9/04/95	8/30/96	
A-59-08	Mo	I.V.	J-MO01095	1,009	8/30/95	9/04/95	8/30/96	
A-59-09	Ni	I.V.	J-NI02002	1,009	8/30/95	9/02/95	8/30/96	
A-59-10	Ni	I.V.	K-NI02011	9974	8/30/95	9/04/95	8/30/96	
A-59-11	Pb	I.V.	K-PB02054	996	8/30/95	9/04/95	8/30/96	
A-59-12	Sb	I.V.	K-SB02021	1004	8/30/95	9/04/95	8/30/96	
A-59-13	Si	I.V.	J-SI01107	1005	8/30/95	9/04/95	8/30/96	
A-59-14	Sn	I.V.	J-SN01061	1003	8/30/95	9/04/95	8/30/96	
A-59-15	Ti	I.V.	J-TI01106	1007	8/30/95	9/04/95	8/30/96	
A-59-16	Tl	I.V.	J-TL01106	1004	8/30/95	9/04/95	8/30/96	
A-59-17	V	I.V.	J-V01117	1002	8/30/95	9/04/95	8/30/96	

SCIENTIFIC & INDUSTRIAL PRODUCTIONS CHICAGO 60605

SIGNATURE [signature]

DATE 10/10/95

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE

60 TITLE

PROJECT NO.

BOOK NO.

LRI IT No.	SID	Manufacturer	Lot No.	Con. Mg/l	Date Received	Date Opened	Expiration Date	Notes
A-60-01	Zn	I.U.	J-ZN01094	999	9/30/95	9/01/95	9/30/96	
A-60-02	Li	I.U.	K-L10407	9957	9/07/95	9/07/95	9/07/96	
A-60-03	Li	I.U.	K-L10407	9957	9/07/95		9/07/96	
A-60-04	Li	I.U.	K-L10407	9957	9/07/95		9/07/96	
A-60-05	Al	Spex	114-95AL	10,000	9/12/95		9/30/96	
A-60-06	Na	Spex	4-154NA	1,000	9/12/95		9/30/96	
A-60-07	Na	Spex	[illegible]	10,000	9/12/95		9/30/96	
A-60-08	As	I.U.	K-AS0104	1007	9/12/95	9/13/95	9/12/96	
A-60-09	As	I.U.	J-AS0102	999	9/12/95	9/13/95	9/12/96	
A-60-10	B	I.U.	K-B01105	1007	9/12/95	9/13/95	9/12/96	
A-60-11	Ba	I.U.	K-BA0102	999	9/12/95	9/13/95	9/12/96	
A-60-12	Be	I.U.	K-BE0103	1002	9/12/95	9/13/95	9/12/96	
A-60-13	Ca	I.U.	K-CA0214	10,030	9/12/95		9/12/96	
A-60-14	Cr	I.U.	K-CR0211	1005	9/12/95	9/13/95	9/12/96	
A-60-15	Cu	I.U.	K-CU0205	1001	9/12/95	2/20/96	9/12/96	
A-60-16	Fe	I.U.	K-FE0209	9941	9/12/95		9/12/96	
A-60-17	K	I.U.	J-K0203	10,009	9/12/95	9/13/95	9/12/96	

SCIENTIFIC SURGERY PRODUCTIONS CHICAGO 60605

SIGNATURE [signature] DATE 10/10/95

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000169

I	STD	Manufacturer	Lot No.	Conc. Mg/L	Date Received	Date Opened	Expiring Date	Notes
61-01	Mg	I.V.	I-MG-0012	1011	9/20/95	9/20/95	9/20/96	
61-02	Mg	I.V.	K-MG0263	10,076	9/20/95		9/20/96	
61-03	Se	I.V.	I-SE01063	1002	9/20/95	9/30/95	9/20/96	
61-04	Hydrazine sulfate Hydrazine	J.T. Baker	24764 27011-1	—	10/13/95		—	500 gms x 4
61-05	Stannous chloride dihydrate	J.T. Baker	T1708	$SnCl_2 \cdot 2H_2O$	10/13/95			500 gms x 4
61-06	Potassium persulfate	J.T. Baker	J0378	K2508	10/16/95			500g x 4
61-07	B	Spex	I-237B	1000	10/30/95		10/31/96	
61-08	Se	Spex	I-140SE	1000	10/30/95		10/31/96	
61-09	Sn	Spex	I-3SN	10,000	10/30/95	10/30/95	10/31/96	
61-08	Se	Spex	I-140SE	1.000	10/30/95 10/27/95	11/01/95	10/31/96	
61-10	Fe	Spex	I-9FE	10,000	11/01/95	11/01/95	11/15/96	
61-11	Al	I.V.	K-AL0363	10,051	10/31/95		10/31/96	
61-12	Cu	I.V.	K-CU0215	1004	10/31/95		10/31/96	
61-13	Mg	I.V.	K-MG0263	10,011	12/1/95		12/1/96	
61-14	Na	I.V.	K-NA0264	9974	12/1/95		12/1/96	
61-15	Cu	I.V.	K-CU0255	10,008	12/1/95		12/1/96	
61-16	Li	I.V.	K-LI0107	9957	12/1/95		12/1/96	

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 50605

SIGNATURE DATE

CLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

TITLE

PROJECT NO.

BOOK NO.

LOT NO.	STD	Manufacturer	Lot No.	Conc. mg/L	Date Received	Date Opened	Expiration Date	Acc
~~A-6-01~~	~~Sb~~	~~Spex~~	~~4-2425B~~	~~1,000~~	~~12/15/95~~	~~2/13/96~~	~~12/15/96~~	
~~A-6-02~~	~~Tl~~	~~Spex~~	~~4-1131L~~	~~1,000~~	~~12/15/95~~	~~5/17/96~~	~~12/15/96~~	
~~A-6-03~~	~~Al~~	~~Inorganic Ventures~~	~~K-AL0334~~	~~1,004~~	~~1/05/96~~		~~1/05/97~~	
~~A-6-04~~	~~Hg~~	~~Inorganic Ventures~~	~~K-HG0105~~	~~1,005~~	~~1/05/96~~		~~1/05/97~~	
~~A-6-05~~	~~Ni~~	~~Inorganic ventures~~	~~K-NI0111~~	~~1004~~	~~1/05/96~~	~~2/12/96~~	~~1/05/97~~	
~~A-6-06~~	~~Ag~~	~~Spex~~	~~4-157AG~~	~~1000~~	~~1/19/96~~		~~1/15/97~~	
~~A-6-07~~	~~Cd~~	~~Spex~~	~~4-2425CA~~	~~1000~~	~~1/19/96~~	~~7/09/96~~	~~1/15/97~~	
~~A-6-08~~	~~Cr~~	~~Spex~~	~~4-1630~~	~~1000~~	~~1/19/96~~	~~2/12/96~~	~~1/15/97~~	
~~A-6-09~~	~~Co~~	~~Spex~~	~~4-2300~~	~~1000~~	~~1/19/96~~	~~2/12/96~~	~~1/15/97~~	
~~A-6-10~~	~~Cu~~	~~Spex~~	~~4-2342CU~~	~~1000~~	~~1/19/96~~	~~2/12/96~~	~~1/15/97~~	
~~A-6-11~~	~~Hg~~	~~Spex~~	~~4-196HG~~	~~1000~~	~~1/19/96~~		~~1/15/97~~	
~~A-6-12~~	~~Mg~~	~~Spex~~	~~4-174MG~~	~~10,000~~	~~1/19/96~~	~~2/12/96~~	~~1/15/97~~	
~~A-6-13~~	~~Mn~~	~~Spex~~	~~4-2300MN~~	~~1,000~~	~~1/19/96~~	~~2/12/96~~	~~1/15/97~~	
~~A-6-14~~	~~Si~~	~~Spex~~	~~4-1455I~~	~~1,000~~	~~1/19/96~~	~~2/12/96~~	~~1/15/97~~	
~~A-6-15~~	~~Fe~~	~~Inorganic Ventures~~	~~K-FE0100~~	~~10,000~~	~~2/01/96~~	~~6/14/96~~	~~2/01/97~~	
~~A-6-16~~	~~Li~~	~~Inorganic Venture~~	~~K-LI0107~~	~~10,000~~	~~2/01/96~~	~~2/08/96~~	~~2/01/97~~	
~~A-6-17~~	~~Li~~	~~Inorganic Ventures~~	~~K-LI0107~~	~~10,000~~	~~2/01/96~~		~~2/01/97~~	

SCIENTIFIC INSTRUMENTS CO

SIGNATURE | DATE

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TITLE

PROJECT NO.

BOOK NO.

LRI No.	STD	Manufacturer	Lot No.	Conc. Mg/L	Date Recieved	Date Opened	Expiration Date	Notes
A-63-01	K	Inorganic Ventures	K-QK01011	10,099	2/01/96		2/01/97	
A-63-02	Mg	Inorganic Ventures	K-MG03083	10,011	2/01/96		2/01/97	
A-63-03	Ti	Inorganic Ventures	K-TI01117	1000	2/01/96		2/01/97	
A-63-04	AL	Inorganic Ventures	K-AL03037	995	3/05/96	3/06/96	3/05/97	
A-63-05	Ba	Inorganic Ventures	K-QBAC1012	1002	3/05/96		3/05/97	
A-63-06	Ca	Inorganic Ventures	K-CA01006	10,069	3/05/96	3/05/96	3/05/97	
A-63-07	Int-61	Spex	3-93AS	100 ppm Ag, Ca, Li, Pb, Zn 50 ppm Ba, Be, Fe, Li, Cu, Mn, V	3/12/96	3/22/96	3/15/97	
A-63-08	Spike	Spex	3-113AS	200 Al, K, Mg 50 IL 100 Fe 50 Sb, As, Ba, Mn, Ni, V, Co, 25 Cu	3/13/96		3/15/97	
A-63-09	Li	Inorganic Ventures	K-LI01107	995.7				
A-63-10	STD2 Cont. 100ppm Al, As, Ag, Ba,	Spex	10-09MM	100PPM	4/05/96	4/17/96	4/01/97	Cont. 100 ppm of Al, As, Ag, Ba, Be, Ca, Cr, Cu, Mn, Mo, Ni, Sb, Tl, V, Zn, Pb, Se
A-63-11	Int-Check A	Spex	10-34AS	5,000 ppm Al, Ca, Mg, 2,000 ppm Fe	4/05/96	4/05/96	4/01/97	
A-63-12	B	Inorganic Ventures	K-B01120	1000	4/22/96		4/22/97	
A-63-13	AL	Inorganic Ventures	K-AL03039	10041	4/22/96		4/22/97	
A-63-14	Ca	Inorganic Ventures	K-CA01006	10069	4/22/96	5/10/96	4/22/97	
A-63-15	Mg	Inorganic Ventures	K-MA01006	9900	4/22/96		4/22/97	
A-63-16	Ti	Inorganic Ventures	K-TI01117	1000	4/22/96		4/22/97	

SCIENTIFIC SPECIALTY PRODUCTS CHICAGO 60605

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DATE

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WITNESS

DATE

TITLE

PROJECT NO.

BOOK NO.

LRL LOT No.	STD	Manufacturer	Lot No.	Conc. Mg/L	Date Received	Date Opened	Expiration Date	A
A-64-01	Mg	Inorganic Ventures	K-MG0003	10,052	4/12/96	5/10/96	4/12/97	
A-64-02	Y	Inorganic Ventures	L-Y01061	1004	4/12/96	5/01/96	4/12/97	
A-64-03	Li	Inorganic Ventures	L-LI0002	10,070	4/09/96	4/29/96	5/01/97	
A-64-04	Be	Spex	4-146BA	1,000	5/09/96	7/09/96	5/15/97	
A-64-05	Ca	Spex	K4-05CA	10,000	5/09/96	5/17/96	5/15/97	
A-64-06	Ni	Spex	4-269NI	1,000	5/09/96	5/17/96	5/15/97	
A-64-07	Pb	Spex	4-105PB	1,000	5/09/96	5/17/96	5/15/97	
A-64-08	Ti	Spex	5-24TI	1,000	5/09/96		5/15/97	
A-64-09	Zn	Spex	4-247ZN	1,000	5/09/96	5/17/96	5/15/97	
A-64-10	As	Spex	4-263AS	1,000	5/16/96	05/01/96	5/15/97	
A-64-11	Fe	Spex	I4-92FE	10,000	5/16/96		5/15/97	
A-64-12	K	Spex	K4-61K	10,000	5/16/96		5/15/97	
A-64-13	Inter Only A	Spex	10-34AS	5000 ppm Al(+) Mg 2000 ppm Fe	5/16/96	5/20/96	5/15/97	
A-64-14	Sn	Spex	5-45SN	1,000	5/15/96	5/23/96	5/13/97	
A-64-15	Li	Inorganic Ventures	L-LI0200	10,070	6/07/96	6/07/96	7/01/97	
A-64-16	Al	Inorganic Ventures	K-AL0301	10025	6/07/96		7/01/97	
A-64-17	As	Inorganic Ventures	K-AS0109	1003	6/07/96		7/01/97	

SCIENTIFIC SUNDRY PRODUCTS CO.

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LRI LOT No.	STD	Manufacturer	Lot No.	Conc. MG/L	Date Received	Date Opened	Expiration Date	Notes
A-65-01	Cu	Inorganic Ventures	K-CAO208	10,064	6/07/96		7/01/97	
A-65-02	Fe	Inorganic Ventures	K-FEO1053	999	6/07/96		7/01/97	
A-65-03	K	Inorganic Ventures	K-KO105	9950	6/07/96	6/13/96	7/01/97	
A-65-04	Mg	Inorganic Ventures	L-MG0105	10,08	6/07/96	6/19/96	7/01/97	
A-65-05	Mo	Inorganic Ventures	K-MO0110L	1005	6/07/96		7/01/97	
A-65-06	Na	Inorganic Ventures	L-NA0206	9985	6/07/96		7/01/97	
A-65-07	Sn	Inorganic Ventures	K-SNO107	998	6/07/96		7/01/97	
A-65-08	Be	Spex	4-21BE	1000	6/20/96	7/09/96	7/30/97	
A-65-09	Cr	Spex	4-226CR	1000	6/20/96	7/09/96	7/30/97	
A-65-10	AL	Spex	5-17AL	1000	6/20/96	7/09/96	7/30/97	
A-65-11	Fe	Spex	5-30FE	1000	6/20/96	7/09/96	7/30/97	
A-65-12	Mg	Spex	4-26MG	1,000	6/20/96	7/09/96	7/30/97	
A-65-13	AL	High Purity	690018	1000	7.5.96	7.17.96	8.1.97	
A-65-14	AL		690508	10,000				
A-65-15	SB		690501	1000		7.17.96		
A-65-16	AS		690592	1000				
A-65-17	BA		690004	1000				

SCIENTIFIC SUCCESS PRODUCTIONS CHICAGO 30605

SIGNATURE DATE

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TITLE

PROJECT NO.

BOOK NO.

LRI lot #	STD	manufactur	lot #	conc mg/l	Date recieved	Date opened	Expire. Date	note
A.ww.01	Be	High Purity	690609	1000	7.5.96	7.17.96	8.1.97	
A.ww.02	B		690417	1000				
A.ww.03	Cd		690509	1000		↓		
A.ww.04	Ca		690425	1000				
A.ww.05	Ca		690612	10,000		7.17.96		
A.ww.06	Cr		690625	1000				
A.ww.07	Co		690416	1000				
A.ww.08	Cu		690513 x5	1000		↓		
A.ww.09	Fe		690619	1000				
A.ww.10	Fe		690624	10,000		7.17.96		
A.ww.11	Pb		690701	1000		↓		
A.ww.12	Li		690614	1000				
A.ww.13	Mg		690429	1000		7.17.96		
A.ww.14	Mg		690424	10,000				
A.ww.15	Mn		690627			7.17.96		
A.ww.16	Hg		690619					
A.ww.17	Mo	✓	690506		↓	7.17.96		

SCIENTIFIC SUPPLY RECOLLECTIONS CHICAGO

SIGNATURE			DATE
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TLE

PROJECT NO.

BOOK NO.

ID #	STD	manufacturer	lot #	conc mg/l	Date received	Date opened	Expire. Date	notes
7.67.01	Al	~~[illegible]~~ High Purity	690610	1000	7.5.96	7.17.96	8.1.97	
7.67.02	K	High Purity	690501	1000				
7.67.03	K		690522	10000		7.17.96		
7.67.04	Se		690523	1000				
7.67.05	Si		690508	1000				
7.67.06	Ag		690415	1000		↓		
7.67.07	Na		690530	1000				
7.67.08	Na		690410	10000		7.17.96		
7.67.09	Tl		690402	1000				
7.67.10	Sn		690528	1000				
7.67.11	Ti		690410	1000				
7.67.12	Va		690315	1000		↓		
7.67.13	Y		690319	1000				
7.67.14	Zn		690522	1000		7.17.96		
7.67.15	CLP analyte		690520	various				
7.67.16	CLP inf.		690318	various				
7.67.17		↓			↓			

SCIENTIFIC BATCH PRODUCTIONS CHICAGO 60603

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DATE

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WITNESS

DATE

8 TITLE

PROJECT NO.

BOOK NO.

LRL #	STD	manufacturer	lot #	conc mg/l	Date received	Date opened	Expire Date	notes
~~16001~~	~~CA~~	~~High Purity~~	~~690427~~	~~10000~~	~~8.22.96~~	~~8.22.96~~	~~8.1.97~~	
~~16002~~	~~Fe~~		~~690624~~	~~10000~~				
~~16003~~	~~Mg~~		~~690731~~	~~10000~~				
~~16004~~	~~K~~		~~690528~~	~~10000~~				
~~16005~~	~~Na~~		~~690410~~	~~10000~~				
~~16006~~	~~B~~		~~690729~~	~~1000~~				
~~16007~~	~~Si~~		~~690508~~	~~1000~~				
~~16008~~	~~Ti~~	✓	~~690701~~	~~1000~~	✓	✓	✓	
309	Ba	ULTRA SCIENTIFIC	IC-0035	1000	9/03/96		10/97	
~~16010~~	Ca	ULTRA SCIENTIFIC	IC-0499	10,000	9/03/96		10/97	
~~16011~~	Cd	ULTRA SCIENTIFIC	IC-0259	1000	9/03/96		10/97	
~~16012~~	Co	ULTRA SCIENTIFIC	IC-0261	1000	9/03/96		10/97	
~~16013~~	Be	ULTRA SCIENTIFIC	IC-0282	1000	9/03/96		10/97	
~~16014~~	Ag	ULTRA SCIENTIFIC	IC-0197	1000	9/03/96		10/97	
~~16015~~	Cr	ULTRA SCIENTIFIC	IC-0420	1000	9/03/96		10/97	
~~16016~~	Cu	ULTRA SCIENTIFIC	IC-0364	1000	9/03/96		10/97	
~~16017~~	Mg	✓	IC-0353	1000	9/03/96		10/97	

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY | DATE | WITNESS | DATE

LRI #7 #	STD.	Manufacturer	lot #	Conc. mg/L	Date Received	Date Opened	Expire Date	NOTES
A-69-01	ULTRA SCIENTIFIC	Na	IC-0294	1000	9/03/96		10/97	
A-69-02	ULTRA SCIENTIFIC	Fe	IB0300	10,000	9/03/96		10/97	
A-69-03	ULTRA SCIENTIFIC	K	IC0104	10,000	9/03/96		10/97	
A-69-04	ULTRA SCIENTIFIC	Pb	IC0460	1,000	9/03/96		10/97	
A-69-05	ULTRA SCIENTIFIC	Mg	IC0370	1000	9/03/96		10/97	
A-69-06	ULTRA SCIENTIFI	TL	IC0264	1000	9/03/96		10/97	
A-6907	TI	ULTRA SCIENTIFI	IC0265	1000	9/03/96		10/97	
A-69-08	Mn	ULTRA SCIENTIFI	IC0129	1000	9/03/96		10/97	
69-09	V	ULTRA SCIENTIFI	IB0070	1000	9/03/96		10/97	
A-69-10	Zn	ULTRA SCIENTIFI	IC0131	1000	9/03/96		10/97	
A-69-11	Sb	ULTRA SCIENTIFI	IC0123	1000	9/03/96		10/97	
A-69-12	CLP Interference Check STD	High Purity	CLP-INF-1	Al 500 Ca, Mg 200 Fe 200	9/06/96	9/10/96	10/97	
A-69-13	Ca	High Purity	10M9-1	10,000	9/06/96		10/97	
A-69-14	Mg	High Purity	10M31-1	10,000	9/09/96		10/97	
A-69-15	Al	Spex	PLAL2-3X 14-110AL	10,000	9/09/96		9/15/97	
A-69-16	Mg	Spex	PLMG2-3X 14-113MG	10,000	9/09/96		9/15/97	
A-6917	Na	Spex	PLNA2-2L 5-20NA	1,000	9/09/96		9/15/97	

SIGNATURE DATE

DISCLOSED TO AND UNDERSTOOD BY DATE WITNESS DATE

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: ICV/CCV 091996
Std. Name: ICV/CCV
Date Prep.: 9/19/96 Time:
Analyst: Mike Polidori
Final Vol.: ~~200.0 mL~~ 100ml
Preservatives: ~~2.0~~ 10 mL conc.HNO3
~~10.0~~ 500 mL conc.HCl

True Values, ppm:

	Element	TV
1	Ag	0.500
2	As	0.500
3	Ba	0.500
4	Be	0.500
5	Cd	0.500
6	Co	0.500
7	Cr	0.500
8	Cu	0.500
9	Mn	0.500
10	Mo	0.500
11	Ni	0.500
12	Sb	0.500
13	Sn	0.500
14	Tl	0.500
15	V	0.500
16	Zn	0.500
17	Pb	0.500
18	Se	0.500
19	Al	~~100~~ 50
20	Ca	~~100~~ 50
21	Mg	~~100~~ 50
22	Na	~~100~~ 50
23	Fe	~~100~~ 50
24	K	~~100~~ 50
~~25~~	~~Si~~	~~10.0~~
26	Ti	~~10.0~~ 0.500
27	B	~~5.00~~ 0.500

	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Ag	~~0.100~~ 0.500	1000	A- 60-09
2	As	~~0.100~~	1000	A- 64-17
3	Ba	0.100	1000	A- 63-09
4	Be	~~0.100~~	1000	A- 60-12
5	Cd	~~0.100~~	1000	A- 60-11
6	Co	~~0.100~~	1000	A- 60-12
7	Cr	~~0.100~~	1000	A- 60-14
8	Cu	~~0.100~~	1000	A- 60-15
9	Mn	~~0.100~~	1000	A- 69-05
10	Mo	0.100	1000	A- 65-05
11	Ni	~~0.100~~	1000	A- 62-05
12	Sb	~~0.100~~	1000	A- 69-11
13	Sn	~~0.100~~	1000	A- 65-07
14	Tl	~~0.100~~	1000	A- 69-06
15	V	~~0.100~~	1000	A- 69-09
16	Zn	~~0.100~~	1000	A- 69-10
17	Pb	~~0.100~~	1000	A- 69-04
18	Se	~~0.100~~	1000	A- 61-03
19	Al	~~2.00~~ 5.00	10000	A- 61-06
20	Ca	~~2.00~~ 5.00	10000	A- 60-10
21	Mg	~~2.00~~ 5.00	10000	A- 60-17
22	Na	~~2.00~~ 5.00	10000	A- 65-06
23	K	~~2.00~~ 5.00	10000	A- 65-03
24	Fe	~~2.00~~ 5.00	10000	A- 69-02
~~25~~	~~Si~~	2.00	1000	A-
26	Ti	~~2.00~~ 0.500	1000	A- 63-03
27	B	1.00	1000	A- 63-12

Notes: SOURCE: INORGANICS VENTURES

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: STD1BLANK090496
Std. Name: STD1-BLANK
Date Prep.: 9.10.96 Time:
Analyst: SJL
Final Vol.: 1000 ~~500.0~~
Preservatives: ~~5.0~~ 10.0 mL conc.HNO3
~~25.0~~ 50.0 mL conc.HCl

True Values, ppm:

	Element	TV
1	ALL	0
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
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Notes:

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: STD2090396
Std. Name: STD2
Date Prep.: 9.3.96 Time
Analyst: SJL
Final Vol.: 1000 100.0 ML
Preservatives: 1.0 10.0 mL conc.HNO3
5.0 50.0 mL conc.HCl

True Values, ppm:

	Element	TV
1	All	1.00
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Ag	0.100 1.0	1000	A- 6700
2	As	0.100	1000	A- 6516
3	Ba	0.100	1000	A- 6517
4	Be	0.100	1000	A- 6601
5	Cd	0.100	1000	A- 6603
6	Co	0.100	1000	A- 6607
7	Cr	0.100	1000	A- 6606
8	Cu	0.100	1000	A- 6608
9	Mn	0.100	1000	A- 6615
10	Mo	0.100	1000	A- 6617
11	Ni	0.100	1000	A- 6701
12	Sb	0.100	1000	A- 6515
13	Sn	0.100	1000	A- 6710
14	Tl	0.100	1000	A- 6709
15	V	0.100	1000	A- 6717
16	Zn	0.100	1000	A- 6714
17	Pb	0.100	1000	A- 6611
18	Se	0.100	1000	A- 6704
19	B	1.0		6602
20	Ti			6711
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Notes: SOURCE: SPEX

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: STD3090996
Std. Name: STD3
Date Prep.: 9.9.96 Time:
Analyst: MD
Final Vol.: 1000 100.0 mL
Preservatives: 1.0 10 mL conc.HNO3
5.0 50 mL conc.HCl

True Values, ppm:

	Element	TV
1	All	200
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Al	D 2.00	10000	A-6203
2	Ca	2.00	10000	A-6310
3	Mg	2.00	10000	A-6504
4	Na	2.00	10000	A-6315
5	Fe	2.00	10000	A-6903
6	K	2.00	10000	A-6902
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Notes: SOURCE: ~~SPEX~~ High Purity

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: CRI-A-CLP04057
Std. Name: CRI-A-CLP
Date Prep.: 04/05/96 Time:
Analyst: Mike Bijur
Final Vol.: 100.0 mL
Preservatives: 1.0 mL conc.HNO3
5.0 mL conc.HCl

True Values, ppm:

	Element	TV
1	Sb	120
2	Co	100
3	V	100
4	Ni	80.0
5	Cu	50.0
6	Zn	40.0
7	Mn	30.0
8	As	20.0
9	Cr	20.0
10	Ag	20.0
11	Tl	20.0
12	Be	10.0
13	Cd	10.0
14	Se	10.0
15	Pb	6.00
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Sb	12.0	1000	A- 59-12
2	Co	10.0	1000	A- 59-05
3	V	10.0	1000	A- 59-17
4	Ni	8.00	1000	A- 62-05
5	Cu	5.00	1000	A- 60-15
6	Zn	4.00	1000	A- 60-01
7	Mn	3.00	1000	A- 59-07
8	As	2.00	1000	A- 60-09
9	Cr	2.00	1000	A- 60-14
10	Ag	2.00	1000	A- 60-08
11	Tl	2.00	1000	A- 59-16
12	Be	1.00	1000	A- 60-12
13	Cd	1.00	1000	A- 59-04
14	Se	1.00	1000	A- 61-03
15	Pb	0.600	1000	A- 59-11
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Notes: SOURCE: INORGANICS VENTURES

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: CRI-CLP091696
Std. Name: CRI-CLP
Date Prep.: 9/16/96 Time:
Analyst: Mike Polidor.
Final Vol.: 500.0 mL
Preservatives: 5.0 mL conc.HNO3
15.0 mL conc.HCl

True Values, ppm:

	Element	TV
1	Sb	0.120
2	Co	0.100
3	V	0.100
4	Ni	0.080
5	Cu	0.050
6	Zn	0.040
7	Mn	0.030
8	As	0.020
9	Cr	0.020
10	Ag	0.020
11	Tl	0.020
12	Be	0.010
13	Cd	0.010
14	Se	0.010
15	Pb	0.006
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	Stock Std. Name	mL	Stock Conc. ppm	CRI Lot No.
1	CRI-A-CLP	0.100	MULTI	CRI-A-CLP094696
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Notes: SOURCE: INORGANICS VENTURES

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: ICSA091696
Std. Name: ICSA
Date Prep.: 9/16/96 Time:
Analyst: Mike Baldwin
Final Vol.: ~~200.0 mL~~ 500.0ml
Preservatives: ~~2.0~~ 5.0 mL conc.HNO3
~~10.0~~ 25.0 mL conc.HCl

True Values, ppm:

	Element	TV
1	Al	500
2	Ca	500
3	Mg	500
4	Fe	200
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Al	~~10.0~~	10000	A- 69-12
2	Ca	~~10.0~~ 50.0ml	10000	A-
3	Mg	~~10.0~~	10000	A-
4	Fe	~~4.00~~	10000	A-
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Notes: SOURCE: ~~inorganic ventures~~ High Purity
Used 50ml of CLP Interference Check STD which consist of 5,000ppm Al, Ca, Mg, 2000ppm Fe

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: ICSAB-A-CLP
Std. Name: ICSAB-A-CLP
Date Prep.: 3/22/96 Time:
Analyst: Mike Pulidori
Final Vol.: 100.0 mL
Preservatives: 1.0 mL conc.HNO3
5.0 mL conc.HCl

True Values, ppm:

	Element	TV
1	Ag	20.0
2	As	10.0
3	Tl	10.0
4	Ba	50.0
5	Be	50.0
6	Co	50.0
7	Cr	50.0
8	Cu	50.0
9	Mn	50.0
10	V	50.0
11	Cd	100
12	Ni	100
13	Zn	100
14	Pb	5.00
15	Se	5.00
16	Sb	60.0
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Ag	2.00	1000	A- 60-05
2	As	1.00	1000	A- 60-09
3	Tl	1.00	1000	A- 59-16
4	Ba	5.00	1000	A- 60-11
5	Be	5.00	1000	A- 60-12
6	Co	5.00	1000	A- 59-05
7	Cr	5.00	1000	A- 60-14
8	Cu	5.00	1000	A- 60-15
9	Mn	5.00	1000	A- 59-07
10	V	5.00	1000	A- 59-17
11	Cd	10.0	1000	A- 59-04
12	Ni	10.0	1000	A- 61-05
13	Zn	10.0	1000	A- 60-01
14	Pb	0.500	1000	A- 59-11
15	Se	0.500	1000	A- 61-03
16	Sb	6.00	1000	A- 59-12
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Notes: SOURCE: INORGANICS VENTURES

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: ICSAB-CLP09/1696
Std. Name: ICSAB-CLP
Date Prep.: 9/16/96 Time:
Analyst: Mike Polidori
Final Vol.: 500.0 mL
Preservatives: ~~20~~ 5.0 mL conc.HNO3
~~10.0~~ 25.0 mL conc.HCl

True Values, ppm:

	Element	TV
1	Al	500
2	Ca	500
3	Mg	500
4	Fe	200
5	Ag	0.200
6	As	0.100
7	Tl	0.100
8	Ba	0.500
9	Be	0.500
10	Co	0.500
11	Cr	0.500
12	Cu	0.500
13	Mn	0.500
14	V	0.500
15	Cd	1.00
16	Ni	1.00
17	Zn	1.00
18	Pb	0.050
19	Se	0.050
20	Sb	0.600
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Al	~~10.0~~	10000	A- 69-12
2	Ca	~~10.0~~ 50ml	10000	A- ↓
3	Mg	~~10.0~~	10000	A- ✓
4	Fe	~~4.00~~	10000	A-
5	ICSAB-A-CLP	2.00	MULTI	ICSAB-A-CLP(2)246
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Notes: SOURCE: ~~INORGANICS VENTURES~~ High Purity
Used 50ml of CLP Interference check STD with consist of 5,000ppm Al, (a, Mg, 2000ppm Fe

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: SSTrace# 1
Std. Name: SSTRACE-1-CLP
Date Prep.: 8/28/96 Time:
Analyst: Suguna
Final Vol.: 200.0 Ml
Preservatives: 2.0 mL conc.HNO3
0 mL conc.HCl

True Values, ppm:

	Element	TV
1	Ag	5.00
2	Ba	200
3	Be	5.00
4	Co	50.0
5	Cr	20.0
6	Cu	25.0
7	Mn	50.0
8	Ni	50.0
9	Sb	50.0
10	Zn	50.0
11	V	50.0
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	Stock Std. Name	mL	Stock Conc. ppm	LRL Lot No.
~~1~~	~~Ag~~	~~1.00~~	~~1000~~	A
2	Ba	40.0	1000	A- 63-05
3	Be	1.00	1000	A- 60-12
4	Co	10.0	1000	A- 59-05
5	Cr	4.00	1000	A- 60-14
6	Cu	5.00	1000	A- 60-15
7	Mn	10.0	1000	A- 59-07
8	Ni	10.0	1000	A- 62-05
9	Sb	10.0	1000	A- 59-12
10	Zn	10.0	1000	A- 60-01
11	V	10.0	1000	A- 59-17
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Notes: SOURCE: INORGANICS VENTURES

1. LIQUIDS: USE 1.00 mL TO 100.0 mL SAMPLE
2. SOILS: USE 2.00 mL TO 200.0 mL SAMPLE

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: SSTrace-2
Std. Name: SSTRACE-2-CLP
Date Prep.: 9/4/96 Time:
Analyst: SS
Final Vol.: 200.0 Ml
Preservatives: 2.0 mL conc.HNO3
0 mL conc.HCl
True Values, ppm:

	Element	TV
1	Al	200
2	Fe	100
3	Ca	2000
4	Mg	2000
5	Na	2000
6	K	2000
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Al	4.00	10000	A- 64-16
2	Fe	20.0	1000	A- 65-02
3	Ca	40.0	10000	A -68-10
4	Mg	40.0	10000	A - 68-17
5	Na	40.0	10000	A - 65-06
6	K	40.0	10000	A - 69-03
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Notes: SOURCE: INORGANICS VENTURES

1. LIQUIDS: USE 1.00 mL TO 100.0 mL SAMPLE
2. SOILS: USE 2.00 mL TO 200.0 mL SAMPLE

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: SSTrace# 3
Std. Name: SSTRACE -3-CLP
Date Prep.: 9-13-96 Time:
Analyst: Suguna
Final Vol.: 200.0 Ml
Preservatives: 2.0 mL conc.HNO3
0 mL conc.HCl

True Values, ppm:

	Element	TV
1	As	4.00
2	Cd	5.00
3	Pb	2.00
4	Se	1.00
5	Tl	5.00
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	As	0.800	1000	A- 64-17
2	Cd	1.00	1000	A- 68-11
3	Pb	0.400	1000	A- 69-04
4	Se	0.200	1000	A- 61-03
5	Tl	1.00	1000	A- 69-06
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Notes: SOURCE: INORGANICS VENTURES

1.LIQUIDS: USE 1.00 mL to 100.0 mL SAMPLE

2. SOILS: USE 2.00 mL TO 200.0 mL SAMPLE

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: SSTrace #4
Std. Name: SSTrace #4
Date Prep.: 09/05/96 Time:
Analyst: SUGUNA
Final Vol.: 200 ml
Preservatives: 2.0 mL conc.HNO3
_____ mL conc.HCl

True Values, ppm:

	Element	TV
1	B	200
2	MO	200
3	Sn	200
4	Ti	200
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	B	40.00	1000	A-63-12
2	MO	40.00	1000	A-65-05
3	Sn	40.00	1000	A-65-07
4	Ti	40.00	1000	A-63-03
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Notes: Source: Inorganic Ventures
1. Liquids: Use 1.0ml to 100ml Sample
Soils: Use 2.0ml to 200ml Sample

Laboratory Resources, Inc.
Division: ..... Teterboro
Department: ..... Metals

STANDARDS PREP LOG_TRACE ICP

Std. Lot No.: SSTrace # 5
Std. Name: SSTrace # 5
Date Prep.: 9/13/96 Time:
Analyst: Suguna
Final Vol.: 200ml
Preservatives: 2.0 mL conc.HNO3
_____ mL conc.HCl

True Values, ppm:

	Element	TV
1	Ag	5.0
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	Stock Std. Name	mL	Stock Conc. ppm	LRI Lot No.
1	Ag	1.0 ml	1000	A-60-08
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Notes: Source: Inorganic Ventures
1. Liquids: Use 1 ml to 100 ml Sample
2. Soils: Use 2 ml to 200 ml Sample

Laboratory Resources, Inc

Division: Teterboro

Department: Metals

Date: 9/20/96 Analyst: VD

RUN LOG

Parameter: Mercury

Matrix: Liquids / Solids - Others

CALIBRATIONS AND CHECKS

VD (9/20/96)

STD/Check Name	TV ppb (In extract)	PREP INFO ML	PREP INFO TO VOL (ML)	PREP INFO FROM STD (Check Name)	Notes Date Prep/Time Analyst
Blank	0	0	100.0	0	9/20/96 - VD
STD 0.2	0.2	0.2	100.0	Calib. Working	11 11
STD 0.5	0.5	0.5	100.0	Calib. Working	11 11
STD ~~0.2~~ 2.0	2.0	2.0	100.0	Calib. Working	11 11
STD ~~0.5~~ 5.0	5.0	5.0	100.0	Calib. Working	11 11
STD 10.0	10.0	10.0	100.0	Calib. Working	11 11
ICV/CCVs	4.0	4.0	100.0	Calib. Working	11 11
CRA	0.2/0.5	0.2/0.5	100.0	Check Working	11 11
LCSW/LCSS(CLP)	1.0	1.0	100.0	Check Working	11 11
LCSW/LCSS(REG)	4.0	4.0	100.0	Check Working	11 11
MS-CLP	1.0	1.0	100.0	Check Working	11 11
MS-REG	4.0	4.0	100.0	Check Working	11 11
Calib. Intermediate	10,000	1.0	100.0	Calib. Stock	11 11
Calib. Working	100	1.0	100.0	Calib Intermediate	11 11
Check Intermediate	10,000	1.0	100.0	Check Stock	11 11
Check Working	100	1.0	100.0	Check Intermediate	11 11
CALIB STOCK	1000 PPM; Manufacturer: Inorganic Ventures; LRI Lot No: A- 62-04				
CHECK STOCK	1000 PPM; Manufacturer: Spex ; LRI Lot No: A- 62-11				

000133

(((0118

LABORATORY RESOURCES, INC.
DIVISION: TETERBORO
DEPARTMENT: WET CHEMISTRY

DISTILLATION / RUN LOG
Parameter: Cyanide
Matrix: Liquids

CALIBRATION

STD NAME	TV, UG/L	FROM LOT No.
STD1 (BLANK)	0	WC-096-734
STD2	10	-735
STD3	50	-736
STD4	100	-737
STD5	300	-738
STD6	500	-739

CORR. COEFF. : 0.99929 DATE : 9/24/96

CALCULATION:

1. CN, UG/L = (10) x (9)
2. CN, mg/L = [(10) x (9)] : 1000
3. PQL, ug/l = 10UG/L x (9)
4. PQL, mg/L = [10ug/L x (9)] : 1000

REAGENTS

1. Phosphate Buffer :	LOT No. :	WC-096-741	DATE PREP :	9/24/96
2. Chloramine - T :	LOT No. :	WC-096-740	DATE PREP :	9/24/96
3. Color Reagent :	LOT No. :	WC-096-731	DATE PREP :	9/24/96
4. 1.25 N NaOH :	LOT No. :	WC-096-657	DATE PREP :	8/14/96
5. 0.25 N NaOH :	LOT No. :	WC-096-658	DATE PREP :	8/14/96
6. 1:1 H2SO4	LOT No. :	WC-096-657	DATE PREP :	8/14/96
7. Rodanine :	LOT No. :	WC-09-05	DATE PREP :	R.A. 9/1/93
8. 0.0192N Ag NO3	LOT No. :	WC-034-12	DATE PREP :	Fed 11/13/96
9. Stock CN (1000 PPM) :	LOT No. :	WC-096-707	DATE PREP :	7/6/96

N = [25.0 (A) - 0.0 (B)] x 0.0192 : 25 x ~~10~~
N = _____

10. Stock Check CN (1000PPM) :	LOT No. :	WC-096-708	DATE PREP :	9/6/96

N = [25.0 (A) - 0.0 (B)] x 0.0192 : 25 x ~~10~~
N = _____

NOTE: Cyanide working solutions and final solutions are being prepared fresh each day from stock solutions.

LEGENT: To determine normality of stock cyanide solutions:
(A) = mL of 0.0192 Ag NO3 used to titrate sample.
(B) = mL of 0.0192 Ag NO3 used to titrate blank.

C00134

LRI QUOTE #_____

Laboratory Resources Inc. CHAIN OF CUSTODY

T609198

PAGE 1 OF 1

LAB ID CODE	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE: COMPOSITE	SAMPLE TYPE: GRAB	SAMPLE MATRIX	# OF BOTTLES	ANALYSIS: TAL METALS	ANALYSIS: CYANIDE	PRESERVATIVES: H2SO4	PRESERVATIVES: HCL	PRESERVATIVES: HNO3	PRESERVATIVES: NAOH	PRESERVATIVES: NON-PRES
1	MW-8S	9/12/96	1215			WATER	2	X	X			2	2	
2	MW-9S	9/12/96	1230			WATER	2	X	X			2	2	
3	Field Blank	9/12/96	1215			WATER	2	X	X			2	2	
4	Rinsate Blank	9/12/96	1215			WATER	2	X	X			2	2	

TURNAROUND (INDICATE IN CALENDAR DAYS): ____ FAX ____ HARD COPY ____ DELIV. PKG.

NAME OF LAB PERSONNEL CONFIRMING:_____

DELIVERABLES / (CIRCLE ONE): DATA DATA/QC RED/DELIV NJ/CLP I NJ/CLP II NJ/REGL NY/ASP CLP OTHER ASP CATEGORY B DELIVERABLES

SAMPLER / AFFILIATION: Tom Stolowski/Foster Wheeler E&T DATE: 9/12/96

RECEIVED / AFFILIATION: [signature] 9/13/96 TIME: 1600

RELINQUISHED / AFFILIATION: [signature] DATE: 9-13-96

RECEIVED / AFFILIATION: [signature] TIME: 1602

RELINQUISHED / AFFILIATION: DATE:

RECEIVED / AFFILIATION: TIME:

☐ RETURN TO CLIENT FOR DISPOSAL ☐ LAB DISPOSAL

KNOWN HAZARD (FLAMMABLE, EXPLOSIVE, TOXIC)

☐ YES ☐ NO (IF YES EXPLAIN UNDER COMMENTS)

LAB USE CONDITIONS OF BOTTLES AND COOLER AT RECEIPT:

☐ COMPLIANT ☐ NOT COMPLIANT (IF NOT EXPLAIN UNDER COMMENTS)

COMMENTS AGFA PEERLESS PHOTOS.

Job # 01116-017

Proj. mgr: JOE BASILE

Contact: Tony Fiorentino 472-4000

regarding any information concerning

SAMPLE LOG-IN SHEET

Lab Name: Laboratory Resources Page 1 of 1

Received by (Print Name): A Patel Log-In Date: 9-13-96

Received by (Signature): [signature]

Case Number: _____
SDG Number: _____
SAS Number: _____

REMARKS:

1. Custody Seal(s) Present/Absent Intact/Broken
2. Custody Seal Numbers: _____
3. Chain-of-Custody Records Present/Absent*
4. Contract Lab Sample Inform. Sheet (CLSIS) Present/Absent*
5. Airbill Airbill/Sticker Present/Absent*
6. Airbill No.: _____
7. Sample Tags Present/Absent* Sample Tag Nos. Listed/Not Listed on Chain-of-Custody
8. Sample Condition Intact/Broken*/ Leaking
9. Does information on custody rec., CLSIS, & sample tags agree Yes/No*
10. Date received at Lab: 9-13-96
11. Time Received: 16:02

	CORRESPONDING			
	NYSDEC SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
~~REMARKS:~~	~~T6~~		~~T6~~ AP	
1. Custody Seal(s) Present/Absent	MW-85		T604198-1	Good
Intact/Broken	MW-95		-2	
2. Custody Seal Numbers:	Field Blank		-3	
	Rinsate Blank		-4	
3. Chain-of-Custody Records Present/Absent*				
4. Contract Lab Sample Inform. Sheet (CLSIS) Present/Absent*				
5. Airbill Airbill/Sticker Present/Absent*				
6. Airbill No.:				
7. Sample Tags Present/Absent*				
Sample Tag Nos. Listed/Not Listed on Chain-of-Custody				
8. Sample Condition Intact/Broken*/ Leaking				
9. Does information on custody rec., CLSIS, & sample tags agree Yes/No*				
10. Date received at Lab: 9-13-96				
11. Time Received: 16:02				

Sample Transfer

Fraction: _____ _____
Area #: _____ _____
By: _____ _____
On: _____ _____

* Contact BTSR and attach record of resolution

Reviewed By: _____ Logbook No.: _____

Date: _____ Logbook Page No.: _____

FORM DC-1

000136

SAMPLE RECEIPT LOG

BOOK Nº _____

PAGE Nº _____

LRI Job Nº TL-9198 Client Name Aerojet

Date Received 9-13-91 Project Aerolase Photo

Sample Custodian AK LRI Project Manager _____

Method of shipment: ☑ LRI Courier ☐ Client Courier ☐ FedEx ☐ Other: _____

If an airbill is included with shipment check here ☐ and attach airbill to chain of custody form

EXAMINE THE SAMPLE SHIPMENT FOR THE CONDITIONS LISTED BELOW AND CHECK THE APPROPRIATE BOXES.

YES	NO	
☐	☑	COOLER RECEIVED WITH CUSTODY SEALS INTACT
☑	☐	CHAIN OF CUSTODY (COC) FORMS ARE INCLUDED WITH SHIPMENT
☑	☐	COC FORMS ARE PROPERLY SIGNED AND DATED BY CLIENT
☑	☐	COOLER TEMPERATURE IS 6 °C OR LOWER
		SAMPLES RECEIVED WITH ☑ ICE ☐ ICE PACKS ☐ NEITHER
☑	☐	INFORMATION ON THE COC FORMS MATCHES ACTUAL SAMPLES
☑	☐	NO HOLDING TIMES WERE EXCEEDED AT TIME OF SAMPLE RECEIPT
☑	☐	SAMPLES ARE PROPERLY LABELLED WITH SAMPLE IDENTIFICATION AND PRESERVATIVE
☑	☐	SAMPLES RECEIVED INTACT (NOT BROKEN, LEAKING, ETC.)
☐	☐	VOA VIALS CONTAIN NO HEADSPACE
☑	☐	SAMPLE VOLUMES ARE SUFFICIENT FOR ANALYSES TO BE PERFORMED
☑	☐	SAMPLE CONTAINERS AND PRESERVATIVES ARE CORRECT FOR ANALYSES TO BE PERFORMED
☑	☐	THE pH FOR ACID PRESERVED SAMPLES IS LESS THAN 2
☑	☐	THE pH FOR CAUSTIC (BASE) PRESERVED SAMPLES IS GREATER THAN 12

TEMPERATURE 3.5°

IF THE RESPONSE TO ONE OR MORE OF THE ABOVE CONDITIONS IS NO, COMPLETE THE FOLLOWING SECTION AND SUBMIT A COPY OF THIS PAGE TO THE LRI PROJECT MANAGER LISTED ABOVE FOR CORRECTIVE ACTION. SAMPLES RECEIVED WITH ANY OF THE ABOVE VARIANCES CANNOT BE LOGGED IN WITHOUT CLIENT APPROVAL.

The following samples were received but not listed on the COC form: _____

The following samples listed on the COC form were not received: _____

The following information on COC form does not match samples: _____

Holding times are exceeded for the following analyses: _____

The following samples were not received intact: _____

VOA vials for the following samples have headspace: _____

Insufficient sample volume was received for the following analyses/samples: _____

The containers received are inappropriate for the following analyses: _____

The preservation is incorrect for the following analyses/samples: _____

Other comments: _____

Supervisor Review: _____ Initial/Date

Project Manager Review: E SK Initial/Date

Client notified ☐ in writing ☐ by telephone ☐ by fax ☐ other (explain) _____

by _____ Name/Date

Corrective Action: _____

Place copy with completed corrective action in work order folder.

FORM SM-SRL

CLIENT: AGFA update 09-19-96
Project: Peerless Photo (AGFA)
Job # T609198 Date received: 09-13-96

INORGANICS TAL-Metals and Cyanide FOR NYASP DATA PACKAGE

LAB ID #	Matrix	CLIENT ID #	Sample ID to be used on forms
T609198-01	water	MW-8S	MW-8S
T609198-02	water	MW-9S	MW-9S
T609198-03	water	Field Blank	F-BLK
T609198-04	water	Rinsate Blank	R-BLK

CASE #: 9198A SDG #: 919801

PLEASE SUBMIT ALL RAW DATA AND ALSO ALL OTHER LAB PAPER WORK SUCH AS RUN LOG, INTERNAL C-O-C, EXTRACTION LOG, ETC.....

MS/DUP FOR INORGANICS IN EVERY 20 SAMPLES OR WITHIN 7 DAYS FOR EACH SDG IS REQUIRED PER EACH MATRIX.

MS/DUP must be analyzed from this work order for Metals and Cyanide.

TRACE METALS ANALYSIS ACCEPTABLE.

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INTERNAL CHAIN OF CUSTODY

INSTRUCTIONS: Use 1 form for each 20 samples or aliquot.

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	Laboratory: Laboratory Resources Name: Krishna Daggumati	Location: Teterboro Title: Sample Management Supervisor
Field Sample Seal No:	Date Broken 9/13/96	Military Time Seal Broken:
CaseNo:	Analytical Parameter/Fraction	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
T604198-1			
2			
3			
4			

Date	Time	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
9/20/96	8:40	PRINTED NAME K.DAGGUMATI SIGNATURE	PRINTED NAME SUGUNA SIGNATURE	ICP
9/20/96	12:30	PRINTED NAME SUGUNA SIGNATURE	PRINTED NAME K-DAGGUMATI SIGNATURE	Ref -
9/24	10.00	PRINTED NAME K. DAGGUMATI SIGNATURE	PRINTED NAME Ajay SIGNATURE	(W)
9/24	16.00	PRINTED NAME Ajay SIGNATURE	PRINTED NAME K-DAGGUMATI SIGNATURE	Ref -
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

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INTERNAL CHAIN OF CUSTODY

CLP 2118

INSTRUCTIONS: Use [illegible] form for each 20 samples or aliquot.

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	Laboratory: Name:	Location: Title:
Field Sample Seal No:	Date Broken ___/___/___	Military Time Seal Broken:
CaseNo:	Analytical Parameter/Fraction	

SAMPLE NO.	ALIQUOT EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
609198-1			
↓ 2			
3			
↓ 4			

Date	Time	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
9/20/96	4pm	PRINTED NAME SUGUNA	PRINTED NAME Michael [illegible]	ICP Analysis
		SIGNATURE SS	SIGNATURE	
9/20/96	4:00 PM	PRINTED NAME Wenecia Hemel	PRINTED NAME Wenecia Hemel	CV ANALYSIS
		SIGNATURE VH	SIGNATURE VH	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	
		PRINTED NAME	PRINTED NAME	
		SIGNATURE	SIGNATURE	

Batch Matrix: W

Metals Batch Sheet # 18

9/20/96 10:3 AM

Order	Client	Matrix	Rec.	Due	FAX	Option	Deliv.	ICP	Furnace	CV	QC
T609198-1	AGFA	W	9/13/96	09/27	09/26		ASP	Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn		Hg	DUP MS
T609198-2	"	W	9/13/96	09/27	09/26		"	"		Hg	
T609198-3	"	W	9/13/96	09/27	09/26		"	"		Hg	
T609198-4	"	W	9/13/96	09/27	09/26		"	"		Hg	

ICP Batch: 15886 Furnace Batch: CV Batch: 15887 Prep Batch: 15888

9/20/96 BS

Laboratory Instrumentation Identification Form

#	Instrument Identification	Method	IDL Date	IEC Date	Lin. Date
	TJA61	P	10/01/91	10/01/91	10/01/91
2	PE5100#1	F	10/01/95	10/01/91	10/01/91
3	PE5100#2	F	08/06/96	10/01/91	10/01/91
4	TJA61E	P	06/24/96	04/11/95	06/25/96
5	TJA1000	CV	07/31/96	10/01/91	10/01/91
6	TRAACS	C	07/11/96		
7	PE5100#3	F	07/31/96		
8	PE5100#4	F	01/05/95		
9	TRACE	P	07/13/96	03/27/96	09/13/96
10	MEAN LCS TRACE	P	07/19/95		
11	TRACE/REG	P	09/30/95	03/27/96	03/27/96
12	PE/REG	F	07/27/95		
13	TJA1000/REG	CV	06/16/95		
14	PEAS90	CV	08/14/96		08/14/96
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Detection Limit Summary Data for Instrument : 9

Dates :	07/13/96	07/23/96	07/31/96	07/13/96
ment	1	2	3	Detection Limit
Aluminum	7.27	8.61	8.91	24.8
Antimony	2.43	1.83	2.22	6.5
Arsenic	1.73	1.95	1.45	5.1
Barium	0.09	0.15	0.11	0.4
Beryllium	0.05	0.04	0.15	0.2
Cadmium	0.22	0.25	0.29	0.8
Calcium	1.79	4.63	1.61	8.0
Chromium	0.23	2.82	0.64	3.7
Cobalt	0.34	0.54	0.15	1.0
Copper	0.19	0.22	0.58	1.0
Iron	4.47	12.90	6.85	24.2
Lead	0.50	0.66	0.58	1.7
Magnesium	1.06	3.29	1.16	5.5
Manganese	0.04	0.29	0.16	0.5
Mercury				
Nickel	0.67	1.13	1.23	3.0
Potassium	14.88	29.47	37.44	81.8
Selenium	1.18	1.15	0.74	3.1
Silver	0.16	0.30	0.21	0.7
Sodium	22.19	58.30	92.01	172.5
Thallium	2.36	2.27	1.81	6.4
Vanadium	0.25	0.41	0.27	0.9
Zinc	0.40	0.55	0.46	1.4
nide				
on	12.79	15.69	34.83	63.3
Molybdenum	0.55	0.98	0.68	2.2
Silicon	10.94	18.11	10.31	39.4
Titanium	0.08	0.23	0.31	0.6
Tin	1.18	2.12	2.52	5.8

Laboratory Instrumentation Elemental Information Form

Instrument Identification TRACE

Element	Instrument Symbol	Wavelength	Detection Limit	Integration Time	Linearity	Bkg
Aluminum	Al	308.200	24.8	15.00	500000	
Antimony	Sb	206.800	6.5	15.00	50000	
Arsenic	As	189.000	5.1	15.00	10000	
Barium	Ba	234.600	0.4	15.00	100000	
Beryllium	Be	313.000	0.2	15.00	10000	
Cadmium	Cd	226.500	0.8	15.00	20000	
Calcium	Ca	317.900	8.0	15.00	500000	
Chromium	Cr	267.700	3.7	15.00	50000	
Cobalt	Co	228.600	1.0	15.00	50000	
Copper	Cu	324.700	1.0	15.00	50000	
Iron	Fe	271.400	24.2	15.00	500000	
Lead	Pb	220.300	1.7	15.00	10000	
Magnesium	Mg	279.000	5.5	15.00	500000	
Manganese	Mn	257.600	0.5	15.00	20000	
Mercury						
Nickel	Ni	231.600	3.0	15.00	50000	
Potassium	K	766.400	81.8	15.00	200000	
Selenium	Se	196.000	3.1	15.00	10000	
Silver	Ag	328.000	0.7	15.00	5000	
Sodium	Na	330.200	172.5	15.00	400000	
Thallium	Tl	190.800	6.4	15.00	20000	
Vanadium	V	292.400	0.9	15.00	20000	
Zinc	Zn	206.200	1.4	15.00	20000	
Cyanide						
Boron	B	249.600	63.3	15.00	100000	
Molybdenum	Mo	202.000	2.2	15.00	20000	
Silicon	Si	288.100	39.4	15.00	50000	
Titanium	Ti	337.200	0.6	15.00	50000	
Tin	Sn	189.900	5.8	15.00	50000	

Laboratory Instrumentation Elemental Information Form

Instrument Identification PE5100#2

Element	Instrument Symbol	Wavelength	Detection Limit	Integration Time	Linearity	Bkg
Aluminum						
Antimony	Sb	217.600			100	2
Arsenic	As	193.700	2.2		100	2
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	Pb	283.300	1.0		100	2
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium	Se	196.000	1.4		100	2
Silver						
Sodium						
Thallium	Tl	276.800	1.4		100	2
Vanadium						
Cyanide						
Boron						
Molybdenum						
Silicon						
Titanium						
Tin						

Laboratory Instrumentation Elemental Information Form

Instrument Identification PE5100#3

Element	Instrument Symbol	Wavelength	Detection Limit	Integration Time	Linearity	Bkg
Aluminum						
Antimony	Sb	217.600			100	2
Arsenic	As	193.700	2.1		100	2
Barium						
Beryllium						
Cadmium	Cd	228.800	0.1		10	2
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead	Pb	283.300	0.6		100	2
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium	Se	196.000	1.7		100	2
Silver						
Sodium						
Thallium	Tl	276.800	1.1		100	2
Vanadium						
Zinc						
Cyanide						
Boron						
Molybdenum						
Silicon						
Titanium						
Tin						

Laboratory Instrumentation Elemental Information Form

Instrument Identification PEAS90

Element	Instrument Symbol	Wavelength	Detection Limit	Integration Time	Linearity	Bkg
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury	Hg	253.700	0.048		10	1
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc						
[illegible]nide						
Boron						
Molybdenum						
Silicon						
Titanium						
Tin						

Detection Limit Summary Data for Instrument : 14

Dates :	08/14/96	08/16/96	08/20/96	08/14/96
[illegible]ment	1	2	3	Detection Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Mercury.	0.02	0.01	0.02	0.048
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Vanadium				
Zinc				
[illegible]nide				
[illegible]on				
Molybdenum				
Silicon				
Titanium				
Tin				

Laboratory Instrumentation Elemental Information Form

Instrument Identification TJA1000

Element	Instrument Symbol	Wavelength	Detection Limit	Integration Time	Linearity	Bkg
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury	Hg	253.700	0.1		10	1
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
[illegible]c						
[illegible]anide						
Boron						
Molybdenum						
Silicon						
Titanium						
Tin						

Detection Limit Summary Data for Instrument : 5

Dates :	07/31/96	08/06/96	08/08/96	07/31/96
[illegible]ement	1	2	3	Detection Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Mercury	0.03	0.02	0.03	0.1
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Vanadium				
Zinc				
[illegible]nide				
[illegible]ron				
Molybdenum				
Silicon				
Titanium				
Tin				

Detection Limit Summary Data for Instrument : 6

Dates :	07/11/96	07/30/96	08/03/96	07/11/96
[illegible]ment	1	2	3	Detection Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Mercury				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Vanadium				
Zinc				
[illegible]ide	1.87	0.54	1.24	3.7
[illegible]on				
Molybdenum				
Silicon				
Titanium				
Tin				

Laboratory Instrumentation Elemental Information Form

Instrument Identification TRAACS

Element	Instrument Symbol	Wavelength	Detection Limit	Integration Time	Linearity	Bkg
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Vanadium						
Zinc						
Cyanide	CN	578.000	3.65		500	1
Boron						
Molybdenum						
Silicon						
Titanium						
Tin						

4.0 requested ✓

000152