80385

MEMORANDUM

TO: Dave Hendren

FROM: Gary Hahn Gary Hahn

DATE: August 8, 1995

SUBJECT: TAT -Chicago
Project No. EIL0614AAA
Circle Smelting

RE: 9501.648, SDG # 30026

CC: Lab File

Attached is the laboratory report of the analyses conducted on samples received at the Analytical Services Center on July 22, 1995. Analyses was performed according to the procedures set forth in the USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis, ILMO3.0.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/fal
Enclosure

Case Narrative
TAT-Chicago
Project No. EIL0614AAA
9501.648
SDG # 30026

Results were submitted by facsimile on August 7, 1995.

Samples could not be passed through the requested 250 mesh sieve. After discussing the problem with Dave Hendren, the samples were dried and passed through a 100 mesh sieve prior to digestion.

Sample RH1D was digested using only 0.44 g due to limited sample volume. Quantitation limits have been adjusted accordingly.

Samples BCDC2SB, BCDC3SB, RH10ASP, and RH2D were analyzed for selenium by the method of standard addition.

Due to the levels of lead detected in the original analyses, all samples were analyzed by ICP methodology. The preparation blank and several of the continuing calibration blanks (CCB) exceeded the absolute IDL for lead on the JY. Samples which contained greater than five times the IDL concentration were not reanalyzed. Remaining samples were reanalyzed on the Optima which has a lower detection limit.

The last two continuing calibration blanks (CCB) analyzed on 8/3/95 at 2106 and 2126 hours exceeded the quality control criteria for cadmium. Affected samples were reanalyzed on 8/4/95.

The spike analysis of sample RH2D did not meet the recovery criteria for mercury. Reported sample results have been flagged accordingly. No further action is required.

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 the Manager's designee, as verified by the following signature.

Gary Hahn

Gary Hahn - Manager
Analytical Services Center
August 8, 1995

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Case Narrative
TAT-Chicago
Project No. EIL0614AAA
9501.648
SDG # 30006

Results were submitted by facsimile on August 7, 1995.

Samples could not be passed through the requested 250 mesh sieve. After discussing the problem with Dave Hendren, the samples were dried and passed through a 100 mesh sieve prior to digestion.

Due to the levels of lead detected in the original analyses, all samples were analyzed by ICP methodology.

The spike analysis of sample RH7ASB had a slightly low spike recovery for selenium. Reported sample results have been flagged accordingly. No further action is required.

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 the Manager's designee, as verified by the following signature.

Gary Hahn

Gary Hahn - Manager
Analytical Services Center
August 8, 1995

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: CIRCLE SMELTING

SAMPLERS: (Signature) Mike Manigan

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metals	Screen & Total RCRA Metals *					REMARKS
RH1SB	7/18	1130	X		RH1 ·	1	X	X					
RH1SG	7/18	1130	X		RH1 ·	1	X	X					Verbal Results Required 8/8
RH2SG	7/18	1345	X		RH2 ·	1	X	X					FAX RESULTS to
RH2SB	7/18	1355	X		RH2 ·	1	X	X					DAVE HENDRIN
BES1SP	7/18	1250	X		BES	1	X	X					(312) 663-1090
BES1SB	7/18	1317	X		BES	1	X	X					
BES1SG	7/18	1300	X		BES	1	X	X					
BP5P	7/18	0925	X		BP	1	X	X					
BP5G	7/18	0930	X		BP	1	X	X					* screen solids and analyze
BP5B	7/18	0955	X		BP	1	X	X					per DAVE HENDRINS Instructions
RH3SB	7/19	0915	X		RH3	1	X	X					
RH3SG	7/19	0930	X		RH3	1	X	X					
RH4SB	7/19	1050	X		RH4	1	X	X					
RH5SG	7/19	1112	X		RH5	1	X	X					
RH5SB	7/19	1114	X		RH5	1	X	X					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mike CMang	7/21/95 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
Fedex	7/22/95 0945				SHIPPED VIA FED EX custody labels # 45805 45806

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.:

PROJECT NAME:

SAMPLERS: *(Signature)* [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metals	Screen + Total RCRA* Metals					REMARKS
RH6SB	7/19	1327	X		RH6	1	X	X					* See PAGE 1
RH6ASB	7/19	1327	X		RH6	1	X	X					
RH6SG	7/19	1335	X		RH6	1	X	X					
RH7SB	7/19	1455	X		RH7	1	X	X					
RH7ASB	7/19	1455	X		RH7	1	X	X					
RH7SF	7/19	1302	X		RH7	1	X	X					
RH7SG	7/19	1447	X		RH7	1	X	X					
RH8SG	7/20	0912	X		RH8	1	X	X					
RH8SB	7/20	0905	X		RH8	1	X	X					
RH9SB	7/20	1127	X		RH9	1	X	X					
RH9SG	7/20	1122	X		RH9	1	X	X					
RH10SP	7/20	1020	X		RH10	1	X	X					
RH10SG	7/20	1020	X		RH10	1	X	X					
RH10ASP	7/20	1020	X		RH10	1	X	X					
RH10SB	7/20	1020	X		RH10	1	X	X					

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	7/21/95 1400				

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
Fed Ex	7/21/95 1445	[signature]		See PAGE 1

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
	CIRCLE SMELTING

SAMPLERS: *(Signature)*
Mike Murgo

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metals	Total RCRA Metals + Total Area Metals	REMARKS
RH11SG	7/20	1000	X		RH11	1	X	X	
RH11SB	7/20	0955	X		RH11	1	X	X	
RH12SG	7/20	1035	X		RH12	1	X	X	
BCDC25B	7/19	0955	X		BCDC	1	X	X	
BCDC85B	7/19	0955	X		BCDC	1	X	X	
BCDC15B	7/19	1020	X		BCDC	1	X	X	
BCDC15G	7/19	1020	X		BCDC	1	X	X	* See page 1
BCDC35G	7/19	1020	X		BCDC	1	X	X	
RH1D	7/18	1120	X		RH1	1	X	X	
RH2D	7/18	1355	X		RH2	1	X	X	
RH3L	7/19	0920	X		RH3	1	X	X	
RH5D	7/19	1110	X		RH5	1	X	X	
RH6D	7/19	1330	X		RH6	1	X	X	
RH7D	7/19	1455	X		RH7	1	X	X	
RH9D	7/20	0910	X		RH9	1	X	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Mike Murgo	7/21/95 1400				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)* FedEx	Date / Time 7.22.95 1045	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
	CIRCLE SMELTING

SAMPLERS: *(Signature)* [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	total RCRA metals	SGBP + total RCRA metals *					REMARKS
RH9D	7/20	1125	X		RH9	1	X	X					
BESID	7/19	1245	X		BES	1	X	X					
													* See page one.

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	7/21/95 1400				

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*

Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks
[signature]	7-22-8 0845	[signature]		

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

Ecology and Environment, Inc.
Analytical Services Center
Cooler Receipt Form

PACKAGE RECEIPT #: 1415 NUMBER OF COOLERS: 2 DATE RECEIVED: 7.22.95

E&E Project #: _____ Project or Site Name: Circle Smelting (TAT-Chicago)

A: Preliminary Examination Phase (CIRCLE ONE)

1 Did coolers come with airbill or packing slip? YES NO

if YES, enter carrier here and print airbill # below: FedEx

2 Did cooler(s) have custody seals? YES NO

if YES, how many and where: 2 on front

3 Were custody seals unbroken and intact on receipt? YES NO

4 Where custody seals dated and signed? YES NO

if YES, enter Date: 7.21.95 Name: _____

5 Initial here to acknowledge receipt of cooler(s): JH

B Unpacking Phase:

Date Cooler(s) Opened: 7.24.95 C-O-C Numbers: 2

Coolers Opened By(print): J. Hendricks (sign): [signature]

6 Where C-O-C forms received and sealed in plastic bag? YES NO

7 Was the project identifiable from the C-O-C form? YES NO

if YES, enter the project number and name in the heading above.

8 Was enough packing material used in cooler(s)? YES NO

Circle type of material: Vermiculite Bubble Wrap Other _____

9 If required, was enough ice used? YES NO

if YES, circle type of ice: WET DRY BLUE Other _____

10 Was a temperature blank included inside cooler(s)? YES NO

If Yes, indicate temperature in table below.

If No, indicate Cooler temperature in table below.

11 Were all containers sealed in separate plastic bags? YES NO

12 Did all containers arrive unbroken and in good condition? YES NO

C Login Phase:

Date Samples Logged in: 7.24.95

Samples logged in By(print): J. Hendricks (sign): [signature]

13 Were all container labels complete(eg.date,time,preserv.)? YES NO

14 Were all C-O-C forms filled out properly in ink and signed? YES NO

15 Did the C-O-C form agree with containers received? YES NO

16 Were the correct containers used for the tests requested? YES NO

17 Were the correct preservatives listed on the sample labels? YES NO

18 Was a sufficient sample volume sent for the tests requested? YES NO

19 Were all volatile samples received without head space? N/A YES NO

Please record Temp. Blank or Cooler Temp. for each cooler, range (2 - 5 C°)*

	AIRBILL #	TEMP.C°	AIRBILL #	TEMP.C°	AIRBILL #	TEMP.C°
	5766550673	3.5				
*	Cooler 2	-no ice	22°C			

* If NO or Temp. outside of acceptable range a Discrepancy form must be filed.

TAT - CHICAGO

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30026_

SOW No.: ILM03.0

TAT Sample No.	Lab Sample ID
BCDC1SB	30041
BCDC1SG	30043
BCDC1SGD	30043D
BCDC1SGS	30043S
BCDC1SP	30042
BCDC2SB	30039
BCDC3SB	30040
RH1D	30044
RH10ASP	30034
RH10SB	30035
RH10SG	30033
RH10SP	30032
RH11SB	30037
RH11SG	30036
RH12SG	30038
RH2D	30045
RH2DD	30045D
RH2DS	30045S
RH7SG	30027
RH7SP	30026

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:

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 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.

Signature: Gary Hahn Name: Gary Hahn

Date: 8-8-95 Title: Laboratory Manager

TAT - CHICAGO

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30026_

SOW No.: ILM03.0

TAT Sample No.	Lab Sample ID
_RH8SB_____	_30029_____
_RH8SG_____	_30028_____
_RH9SB_____	_30030_____
_RH9SG_____	_30031_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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:

_____
_____
_____
_____

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 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.

Signature: Gary Hahn Name: Gary Hahn_____

Date: 8-5-95 Title: Laboratory Manager_____

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

BCDC1SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30041

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	127			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	63.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

BCDC1SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30043

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.4			P
7440-39-3	Barium	87.0			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.96	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	132			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.61	B		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

BCDC1SP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30042

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.8			P
7440-39-3	Barium	132			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	12.1			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
_____	Cyanide				NR
_____	_____				

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

BCDC2SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30039

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	128			P
7440-39-3	Barium	408			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	13.0			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	27.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10200			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.24		N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U	S	F
7440-22-4	Silver	7.8			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

BCDC3SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30040

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	128			P
7440-39-3	Barium	401			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	12.5			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	27.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10100			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.27		N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.87	B	S	F
7440-22-4	Silver	7.6			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH1D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30044

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.2			P
7440-39-3	Barium	344			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	27.0			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	33.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	465			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.60		N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	1.4	B	W	F
7440-22-4	Silver	3.8	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH10ASP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30034

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	22.1			P
7440-39-3	Barium	156			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	4.0			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	13.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2420			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.21		N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.89	B	S	F
7440-22-4	Silver	2.7			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH10SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30035

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	10.3			P
7440-39-3	Barium	166			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.8			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	10.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1090			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.61	B		F
7440-22-4	Silver	1.8	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH10SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30033

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	114			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.97	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	13.2			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH10SP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30032

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	22.1			P
7440-39-3	Barium	153			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.9			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	13.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2380			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.19		N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.61	B	W	P
7440-22-4	Silver	2.7			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH11SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30037

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.6			P
7440-39-3	Barium	129			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	83.9			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH11SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30036

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.6			P
7440-39-3	Barium	165			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	59.8			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH12SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30038

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	105			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	189			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH2D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30045

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.8			P
7440-39-3	Barium	145			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	9.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	16.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	268			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.21		N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U	S	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH7SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30027

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.2			P
7440-39-3	Barium	150			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	227			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.85	B		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH7SP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30026

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	187			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.5			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	519			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U	W	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH8SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30029

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.92	U		P
7440-39-3	Barium	228			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.5			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	903			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.63	B		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH8SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30028

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	87.4			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.9			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	185			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.46	B		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH9SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30030

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.9			P
7440-39-3	Barium	130			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	153			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U	W	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH9SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Lab Sample ID: 30031

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	145			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.1			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	32.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U		F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
_____	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

_____

_____

_____

_____

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	1000.0	1077.86	107.8	500.0	511.35	102.3	514.15	102.8	P
Barium	1000.0	958.70	95.9	500.0	465.90	93.2	465.80	93.2	P
Beryllium									NR
Cadmium	500.0	493.10	98.6	500.0	482.40	96.5	496.60	99.3	P
Calcium									NR
Chromium	1000.0	992.40	99.2	500.0	473.10	94.6	493.10	98.6	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	964.30	96.4	1000.0	924.40	92.4	925.50	92.5	P
Magnesium									NR
Manganese									NR
Mercury	5.0	5.03	100.6	1.0	1.09	109.0	1.14	114.0	CV
Nickel									NR
Potassium									NR
Selenium	20.0	20.82	104.1	25.0	25.84	103.4	23.86	95.4	F
Silver	200.0	188.00	94.0	500.0	483.90	96.8	502.00	100.4	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				500.0	510.63	102.1	504.47	100.9	P
Barium				500.0	464.70	92.9	459.40	91.9	P
Beryllium									NR
Cadmium				500.0	503.70	100.7	495.20	99.0	P
Calcium									NR
Chromium				500.0	481.50	96.3	472.60	94.5	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	942.60	94.3	935.50	93.5	P
Magnesium									NR
Manganese									NR
Mercury				1.0	1.14	114.0	1.14	114.0	CV
Nickel									NR
Potassium									NR
Selenium	20.0	19.65	98.2	25.0	24.78	99.1	24.50	98.0	F
Silver				500.0	507.80	101.6	505.40	101.1	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				500.0	491.63	98.3	502.98	100.6	P
Barium				500.0	466.90	93.4			P
Beryllium									NR
Cadmium				500.0	503.90	100.8			P
Calcium									NR
Chromium				500.0	485.20	97.0			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	939.10	93.9			P
Magnesium									NR
Manganese									NR
Mercury				1.0	1.20	120.0	1.20	120.0	CV
Nickel									NR
Potassium									NR
Selenium				25.0	24.16	96.6	24.28	97.1	F
Silver				500.0	514.10	102.8			P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium	500.0	484.70	96.9	500.0	478.90	95.8	475.30	95.1	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	1056.43	105.6	1000.0	1005.46	100.5	1001.42	100.1	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	24.51	98.0	24.32	97.3	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				500.0	478.60	95.7	493.90	98.8	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	1008.49	100.8			P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	20.0	21.34	106.7	25.0	24.35	97.4	24.92	99.7	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium				500.0	493.10	98.6			P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	24.69	98.8			F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	20.0	21.61	108.0	25.0	24.38	97.5	26.19	104.8	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	24.98	99.9	22.45	89.8	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium				400.0	385.80	96.4	379.70	94.9
Beryllium								
Cadmium				10.0	14.21	142.1	13.03	130.3
Calcium								
Chromium				20.0	23.00	115.0	21.16	105.8
Cobalt								
Copper								
Iron								
Lead				400.0	402.20	100.5	371.30	92.8
Magnesium								
Manganese								
Mercury	0.2	0.22	110.0					
Nickel								
Potassium								
Selenium	5.0	5.38	107.6					
Silver				20.0	20.19	100.9	19.45	97.2
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0	8.64	86.4	10.02	100.2
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	5.03	100.6					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium				10.0			9.07	90.7
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic				20.0	20.81	104.0	22.35	111.7
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	6.94	115.7	7.86	131.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	5.79	115.8					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	4.16	83.2					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Preparation Blank Matrix (soil/water): SOIL_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.6	U	4.6	U	4.6	U	4.6	U	0.920	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Beryllium											NR
Cadmium	3.1	B	3.6	B	2.8	U	4.9	B	0.778	B	P
Calcium											NR
Chromium	5.7	U	5.7	U	5.7	U	5.7	U	1.140	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	32.6	U	-44.0		-63.2		-33.5		-8.992		P
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U	2.0	U			0.400	U	F
Silver	8.3	U	8.3	U	8.3	U	8.3	U	1.660	U	P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			4.6	U	4.6	U	4.6	U			P
Barium			3.0	U	3.0	U					P
Beryllium											NR
Cadmium			5.7		6.1						P
Calcium											NR
Chromium			5.7	U	5.7	U					P
Cobalt											NR
Copper											NR
Iron											NR
Lead			-84.7		39.7						P
Magnesium											NR
Manganese											NR
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U	2.0	U	2.0	U			F
Silver			8.3	U	8.3	U					P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium	2.8	U	2.8	U	2.8	U	2.8	U			P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	32.6	U	32.6	U	32.6	U	32.6	U			P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			2.0	U	2.0	U	2.0	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium			2.8	U	2.8	U					P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U	2.0	U	2.0	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U	2.0	U	2.0	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			2.0	U							F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30026_

ICP ID Number: JY_____ ICS Source: VHG_____

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								
Antimony								
Arsenic								
Barium	0	440	1	433.6	98.5	6	422.0	95.9
Beryllium								
Cadmium	23	851	5	848.9	99.8	9	868.1	102.0
Calcium								
Chromium	0	427	-5	414.2	97.0	-29	405.1	94.9
Cobalt								
Copper								
Iron								
Lead	67	1124	58	991.5	88.2	121	981.7	87.3
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver	0	899	5	895.7	99.6	12	920.3	102.4
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30026_

ICP ID Number: OPTIMA_____ ICS Source: VHG_____

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								
Antimony								
Arsenic	0	0	11	9.0		6	7.9	
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	67	765	-11	863.0	112.8	-13	865.3	113.1
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30026_

ICP ID Number: JY_____ ICS Source: VHG_____

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								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	23	851	6	843.3	99.1	6	844.2	99.2
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30026_

ICP ID Number: JY_____ ICS Source: VHG_____

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								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	23	851				6	863.3	101.4
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

5A
SPIKE SAMPLE RECOVERY

TAT SAMPLE NO.
BCDC1SGS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: 100.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	335.7614		2.4334		400.00	83.3		P
Barium	75-125	473.6000		87.0000		400.00	96.6		P
Beryllium									NR
Cadmium	75-125	10.3300		0.9612	B	10.00	93.7		P
Calcium									NR
Chromium	75-125	46.3800		4.2380		40.00	105.4		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	235.0000		132.3200		100.00	102.7		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	75-125	2.2540		0.6080	B	2.00	82.3		F
Silver	75-125	10.3900		1.6600	U	10.00	103.9		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

TAT - CHICAGO

5A
SPIKE SAMPLE RECOVERY

TAT SAMPLE NO.

RH2DS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: 100.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									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	75-125	0.5450		0.2145		0.50	66.1	N	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

TAT - CHICAGO

6
DUPLICATES

TAT SAMPLE NO.

BCDC1SGD

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: 100.0 % Solids for Duplicate: _100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	2.0	2.4334		2.9260		18.4		P
Barium	40.0	87.0000		86.2600		0.9		P
Beryllium								NR
Cadmium		0.9612	B	0.5846	B	48.7		P
Calcium								NR
Chromium	2.0	4.2380		4.1100		3.1		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		132.3200		129.3000		2.3		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium		0.6080	B	0.7820	B	25.0		F
Silver		1.6600	U	1.6600	U			P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

TAT - CHICAGO

6
DUPLICATES

TAT SAMPLE NO.

RH2DD

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: 100.0 % Solids for Duplicate: _100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	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	0.1	0.2145		0.2145		0.0		CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

TAT - CHICAGO

7

LABORATORY CONTROL SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				65.1	65.9		31.9	97.0	101.2
Barium				319.0	273.8		213.0	415.0	85.8
Beryllium									
Cadmium				81.5	73.1		40.7	114.0	89.7
Calcium									
Chromium				57.4	45.3		33.9	80.4	78.9
Cobalt									
Copper									
Iron									
Lead				128.0	100.1		68.9	179.0	78.2
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver				85.0	80.3		34.0	125.0	94.5
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

TAT - CHICAGO

7

LABORATORY CONTROL SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury				23.7	17.2		10.0	36.7	72.6
Nickel									
Potassium									
Selenium				47.6	39.6		24.3	69.5	83.2
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

TAT - CHICAGO

8
STANDARD ADDITION RESULTS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract:_____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.:_____ SDG No.:30026_

Concentration Units: ug/L

TAT Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
BCDC2SB_	SE	0.015	5.00	0.021	10.00	0.031	15.00	0.041	7.8	0.9939	+
BCDC2SB_	SE	0.003	5.00	0.020	10.00	0.033	15.00	0.047	1.4	0.9983	
BCDC3SB_	SE	0.014	5.00	0.024	10.00	0.028	15.00	0.039	9.1	0.9863	+
BCDC3SB_	SE	0.010	5.00	0.024	10.00	0.033	15.00	0.047	4.4	0.9965	
RH10ASP_	SE	0.016	5.00	0.035	10.00	0.056	15.00	0.071	4.5	0.9979	
RH2D____	SE	0.009	5.00	0.030	10.00	0.054	15.00	0.076	1.9	0.9997	

TAT - CHICAGO

9

ICP SERIAL DILUTION

TAT SAMPLE NO.

BCDC1SGL

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium	435.00		433.45	B	0.4		P
Beryllium							NR
Cadmium	4.81	B	14.00	U	100.0		P
Calcium							NR
Chromium	21.19		28.50	U	100.0		P
Cobalt							NR
Copper							NR
Iron							NR
Lead	661.60		266.60		59.7		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver	8.30	U	41.50	U			P
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

TAT - CHICAGO

9

ICP SERIAL DILUTION

TAT SAMPLE NO.

BCDC2SBL

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	638.79		628.78		1.6		P
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							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

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Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: OPTIMA_____ Date: 07/20/95

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	188.98		10	4.6	P
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/02/95 End Date: 08/02/95

TAT 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	1515																X									
S0.5	1.00	1517																X									
S1	1.00	1520																X									
S5	1.00	1523																X									
S10	1.00	1526																X									
ICV	1.00	1530																X									
ICB	1.00	1532																X									
CCV	1.00	1534																X									
CCB	1.00	1536																X									
CRA	1.00	1538																X									
PBS	1.00	1544																X									
LCSS	2.00	1545																X									
ZZZZZZ	1.00	1546																									
ZZZZZZ	1.00	1548																									
ZZZZZZ	1.00	1550																									
ZZZZZZ	1.00	1552																									
ZZZZZZ	1.00	1554																									
ZZZZZZ	1.00	1556																									
ZZZZZZ	1.00	1558																									
CCV	1.00	1600																X									
CCB	1.00	1602																X									
ZZZZZZ	1.00	1604																									
ZZZZZZ	1.00	1606																									
ZZZZZZ	1.00	1608																									
ZZZZZZ	1.00	1610																									
ZZZZZZ	1.00	1612																									
ZZZZZZ	1.00	1614																									
ZZZZZZ	1.00	1616																									
ZZZZZZ	1.00	1618																									
ZZZZZZ	1.00	1620																									
ZZZZZZ	1.00	1622																									
CCV	1.00	1624																X									

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/02/95 End Date: 08/02/95

TAT Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1626		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1628		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1630		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1632		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1634		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1636		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH7SP	1.00	1638		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH7SG	1.00	1640		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH8SG	1.00	1642		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH8SB	1.00	1644		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH9SB	1.00	1646		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1648		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1650		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH9SG	1.00	1652		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH10SP	1.00	1654		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH10SG	1.00	1656		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH10ASP	1.00	1658		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH10SB	1.00	1700		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH11SG	1.00	1702		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH11SB	1.00	1704		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH12SG	1.00	1706		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BCDC2SB	1.00	1708		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BCDC3SB	1.00	1710		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1712		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1714		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BCDC1SB	1.00	1716		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BCDC1SP	1.00	1718		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BCDC1SG	1.00	1720		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH1D	1.00	1722		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH2D	1.00	1724		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH2DD	1.00	1726		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH2DS	1.00	1728		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/02/95 End Date: 08/02/95

TAT 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
ZZZZZZ	1.00	1730																									
ZZZZZZ	1.00	1732																									
ZZZZZZ	1.00	1733																									
CCV	1.00	1734																X									
CCB	1.00	1736																X									

Instrument ID: JY
ICS Source: VHG
Date: 6/27/95
Units: ug/L

ICP Interference Check Sample Values

ELEMENT	MEAN	STANDARD DEVIATION	LOWER VALUE	UPPER VALUE
Al	438980	1987	351184	526776
Ba	440	2.7	352	528
Be	456	2.1	365	547
Cd	851	4.4	681	1021
Cr	427	3.0	342	513
Co	444	2.7	355	533
Cu	448	3.8	358	537
Fe	154100	704	123280	184920
Pb	1124	18.8	900	1349
Mg	483360	2403	386688	580032
Mn	505	2.6	404	606
Ni	862	9.5	689	1034
Ag	899	4.7	719	1079
V	421	3.1	337	505
Zn	901	4.4	721	1081
Ca	448360	2084	358688	538032

Instrument ID: Optima
ICS Source: VHG
Date: 1/3/95
Units: ug/L

ICP Interference Check Sample Values

ELEMENT	MEAN	STANDARD DEVIATION	LOWER VALUE	UPPER VALUE
Al	526284	10613	421028	631541
Ba	405	4.7	324	486
Be	423	5.3	339	508
Cd	793	9.6	634	951
Cr	388	4.5	310	466
Co	390	4.7	312	468
Cu	451	9.3	361	542
Fe	201749	3909	161100	241650
Pb	765	10.2	612	918
Mg	478104	5865	382483	573724
Mn	447	6.2	357	536
Ni	745	8.2	596	894
Ag	873	13.3	698	1047
V	399	5.6	320	479
Zn	869	11.1	695	1043
Ca	456998	4616	365598	548397

#215

Raw Data
8/3/95
RLH

Run #1

9501.648 9/4/95 Ag, Cd, Cr, Ba, Pb
300246-30045 SDG#4
Samples 30041-30045 reran 8/3
on another sequence for Cd

PBS 1068
LCSS #3 8/1

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PN 9/4/95

Measurements for STDLOW- - 1

Elements of SIMULTANEOUS

$As	188.979	2.3170	0.00000	2.9020	-0.58500
		2.2840	0.00000	2.9250	-0.64100
$Se	196.026	4.6990	0.00000	5.5100	-0.81100
		4.7060	0.00000	5.5360	-0.83000
$Cr	205.559	5.1910	0.00000	4.1490	1.0420
		5.0900	0.00000	4.2400	0.85000
$Pb	220.353	15.315	14.562	0.00000	0.75300
		15.205	14.790	0.00000	0.41500
$Cd	226.502	9.7210	0.00000	11.151	-1.4300
		9.6610	0.00000	11.094	-1.4330
$Ba	233.527	4.6580	0.00000	9.2630	-4.6050
		4.6970	0.00000	9.1860	-4.4890
$Fe	259.940	0.54700	0.00000	0.54800	-0.00100
		0.54500	0.00000	0.54700	-0.00200
$Ag	328.068	22.495	0.00000	23.465	-0.97000
		22.535	0.00000	23.406	-0.87100
$Al	396.152	5.7900	5.6330	0.00000	0.15700
		5.8160	5.6480	0.00000	0.16800

EL		Alpha	Beta	Offset
As	188.979	0.9859	0.0204	0.000000
Se	196.026	0.9969	0.0055	0.000000
Cr	205.559	0.9948	0.1134	0.000000
Pb	220.353	1.0157	-0.2227	0.000000
Cd	226.502	0.9985	0.0859	0.000000
Ba	233.527	1.0005	-0.0336	0.000000
Fe	259.940	0.9947	0.0615	0.000000
Ag	328.068	0.9996	0.0217	0.000000
Al	396.152	0.9737	0.0953	0.000000

----- 17:33:26 8/ 3/95 ----- Method: ILMO202

Sample STDLOW- - 1 #MEAS.= 2 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	-0.6130/	6.5%	$Se	-0.8205/	1.6%	$Cr	0.9460/	14%	$Pb	0.5840/	41%
$Cd	-1.431/	0.15%	$Ba	-4.547/	1.8%	$Fe	-0.0015/	47%	$Ag	-0.9205/	7.6%
$Al	0.1625/	4.8%									

Measurements for STDHIGH- - 1

Elements of SIMULTANEOUS

$As	188.979	4.3680	0.00000	2.9170	1.4510
		4.3640	0.00000	2.9660	1.3980
$Se	196.026	7.2970	0.00000	5.6770	1.6200
		7.3140	0.00000	5.5490	1.7650
$Cr	205.559	25.900	0.00000	4.4400	21.460
		25.797	0.00000	4.4820	21.315
$Pb	220.353	28.950	15.103	0.00000	13.847
		29.118	15.020	0.00000	14.098
$Cd	226.502	67.146	0.00000	11.295	55.851
		66.921	0.00000	11.259	55.662
$Ba	233.527	73.660	0.00000	9.5460	64.114
		73.649	0.00000	9.5900	64.059
$Ag	328.068	84.265	0.00000	23.749	60.516
		84.276	0.00000	23.775	60.501
$Al	396.152	9.3540	5.7010	0.00000	3.6530
		9.3610	5.7090	0.00000	3.6520

EL		Alpha	Beta	Offset
As	188.979	0.9968	0.0270	0.000000
Se	196.026	1.0281	0.0310	0.000000
Cr	205.559	1.0155	0.0939	0.000000
Pb	220.353	1.0290	-0.2304	0.000000
Cd	226.502	1.0269	0.1265	0.000000
Ba	233.527	1.0109	0.0135	0.000000
Ag	328.068	1.0112	0.0323	0.000000
Al	396.152	0.9659	0.0965	0.000000

----- 17:38:32 8/ 3/95 ----- Method: ILMO202

Sample STDHIGH- - 1 #MEAS.= 2 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	1.424/	2.6%	$Se	1.692/	6.1%	$Cr	21.39/	0.48%	$Pb	13.97/	1.3%
$Cd	55.76/	0.24%	$Ba	64.09/	0.06%	$Ag	60.51/	0.02%	$Al	3.652/	0.02%

Measurements for STD2- - 1

Elements of SIMULTANEOUS

```
$Fe  259.940  12.063 0.00000 0.57000  11.493
              12.092 0.00000 0.56700  11.525

  EL              Alpha         Beta         Offset
 Fe  259.940      1.0063       0.0615     0.000000


----- 17:43:36  8/ 3/95 -----   Method: ILMO202

Sample STD2-          -                    1 #MEAS.=  2 for Seq., #MEAS.= 2 for
 Simul.

EL     CONC/ sigma

$Fe   11.51/ 0.20%


Measurements for ICV-          -                   1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  4.3350 0.00000  2.9370  1.4206  986.99 ppb
              4.3850 0.00000  2.9440  1.4634  1008.1 ppb

$Se  196.026  7.3530 0.00000  5.5920  1.8414  1027.3 ppb
              7.3850 0.00000  5.5600  1.9072  1052.7 ppb

$Cr  205.559  25.428 0.00000  4.2680  21.581  988.87 ppb
              25.613 0.00000  4.3020  21.735  996.26 ppb

$Pb  220.353  22.185  14.989 0.00000  7.1744  987.71 ppb
              22.056  15.165 0.00000  6.8605  942.15 ppb

$Cd  226.502  38.165 0.00000  11.295  27.719  494.89 ppb
              37.887 0.00000  11.207  27.524  491.56 ppb

$Ba  233.527  70.429 0.00000  9.4960  61.610  954.05 ppb
              71.065 0.00000  9.5000  62.249  963.26 ppb

$Fe  259.940  1.7060 0.00000 0.55300  1.2218  1003.0 ppb
              1.7110 0.00000 0.55300  1.2268  1007.3 ppb

$Ag  328.068  34.304 0.00000  23.685  10.770  187.85 ppb
              34.343 0.00000  23.744  10.750  187.53 ppb

$Al  396.152  9.5240  5.9470 0.00000  3.5516  978.37 ppb
              9.5350  5.9490 0.00000  3.5603  980.95 ppb

----- 17:47:27  8/ 3/95 -----   Method: ILMO202

Sample ICV-           -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma
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$As 997.5/ 1.5% $Se 1040/ 1.7% $Cr 992.4/ 0.53% $Pb 964.3/ 3.3%

$Cd 493.1/ 0.48% $Ba 958.7/ 0.68% $Fe 1005/ 0.31% $Ag 188.0/ 0.12%

$Al 979.7/ 0.19%

Measurements for ICB- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2730	0.00000	2.8790	-0.57702	3.4356	ppb
		2.2810	0.00000	2.8460	-0.53615	23.558	ppb
$Se	196.026	4.6760	0.00000	5.5080	-0.82432	-4.5762	ppb
		4.7500	0.00000	5.5200	-0.76058	20.095	ppb
$Cr	205.559	5.1390	0.00000	4.0910	1.1581	4.9898	ppb
		5.1580	0.00000	4.0900	1.1784	5.9682	ppb
$Pb	220.353	15.219	14.692	0.00000	0.31185	-8.5148	ppb
		15.232	14.689	0.00000	0.32831	-6.1247	ppb
$Cd	226.502	9.7100	0.00000	10.954	-1.1510	3.2787	ppb
		9.7000	0.00000	10.965	-1.1725	2.9114	ppb
$Ba	233.527	4.6490	0.00000	9.1120	-4.4981	1.2239	ppb
		4.6550	0.00000	9.1940	-4.5749	0.11656	ppb
$Fe	259.940	0.57100	0.00000	0.54900	0.08365	20.416	ppb
		0.57300	0.00000	0.54900	0.08566	22.154	ppb
$Ag	328.068	22.528	0.00000	23.488	-0.93844	-0.64302	ppb
		22.533	0.00000	23.414	-0.85856	0.64302	ppb
$Al	396.152	5.8630	5.6530	0.00000	0.29938	13.610	ppb
		5.8690	5.6450	0.00000	0.31290	17.622	ppb

----- 17:52:30 8/ 3/95 ----- Method: ILMO202

Sample ICB- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL CONC/ sigma EL CONC/ sigma EL CONC/ sigma EL CONC/ sigma

$As 13.50/ 110% $Se 7.760/ 230% $Cr 5.475/ 13% $Pb -7.329/ 23%

$Cd 3.091/ 8.4% $Ba 0.6702/ 120% $Fe 21.28/ 5.8% $Ag 0.0064/+o***%

$Al 15.62/ 18%

Measurements for CCV1- - 1

Elements of SIMULTANEOUS

Measurements for CCV1- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3830	0.00000	3.0060	0.40284	485.89	ppb
		3.3830	0.00000	3.0430	0.36596	467.73	ppb
$Se	196.026	6.0840	0.00000	5.5760	0.55327	528.65	ppb
		6.0430	0.00000	5.5400	0.54813	526.66	ppb
$Cr	205.559	14.866	0.00000	4.3480	10.775	468.26	ppb
		15.063	0.00000	4.3070	11.016	479.91	ppb
$Pb	220.353	21.945	15.011	0.00000	6.9048	948.58	ppb
		21.663	15.048	0.00000	6.5765	900.92	ppb
$Cd	226.502	37.185	0.00000	10.993	27.023	483.03	ppb
		37.377	0.00000	11.162	27.046	483.43	ppb
$Ba	233.527	36.723	0.00000	9.4490	27.585	463.64	ppb
		36.953	0.00000	9.3680	27.899	468.17	ppb
$Fe	259.940	6.2100	0.00000	0.55200	5.7554	4916.8	ppb
		6.2440	0.00000	0.55400	5.7876	4944.6	ppb
$Ag	328.068	52.013	0.00000	23.389	28.977	480.95	ppb
		52.177	0.00000	23.369	29.163	483.95	ppb
$Al	396.152	8.9090	6.7930	0.00000	2.1404	559.74	ppb
		8.9160	6.8030	0.00000	2.1375	558.88	ppb

----- 18:03:38 8/ 3/95 ----- Method: ILMO202

Sample CCV1- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	476.8/	2.7%	$Se	527.7/	0.27%	$Cr	473.1/	1.7%	$Pb	924.4/	3.6%
$Cd	482.4/	0.06%	$Ba	465.9/	0.69%	$Fe	4931/	0.40%	$Ag	483.9/	0.44%
$Al	559.3/	0.11%									

Measurements for CCB1- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2500	0.00000	2.8440	-0.56506	9.3251	ppb
		2.2360	0.00000	2.8100	-0.54512	19.141	ppb
$Se	196.026	4.7130	0.00000	5.4120	-0.68759	48.349	ppb
		4.6630	0.00000	5.4110	-0.73797	28.850	ppb
$Cr	205.559	5.0670	0.00000	4.0810	1.0951	1.9568	ppb

Al + Fe Run for Interelement correction only RLH 8/3/95

		5.0380	0.00000	4.0660	1.0809	1.2719 ppb
$Pb	220.353	15.086	14.724	0.00000	0.14206	-33.163 ppb
		14.919	14.702	0.00000	-0.00715	-54.823 ppb
$Cd	226.502	9.6500	0.00000	10.920	-1.1777	2.8240 ppb
		9.6550	0.00000	10.831	-1.0811	4.4677 ppb
$Ba	233.527	4.6230	0.00000	9.1160	-4.5284	0.78679 ppb
		4.5560	0.00000	9.0670	-4.5466	0.52453 ppb
$Fe	259.940	0.54700	0.00000	0.54800	0.06050	0.43439 ppb
		0.54700	0.00000	0.54800	0.06050	0.43439 ppb
$Ag	328.068	22.264	0.00000	23.293	-1.0082	-1.7663 ppb
		22.271	0.00000	23.205	-0.91215	-0.21977 ppb
$Al	396.152	5.7520	5.5950	0.00000	0.24819	-1.5759 ppb
		5.7290	5.5830	0.00000	0.23756	-4.7278 ppb

----- 18:08:42 8/ 3/95 ----- Method: ILMO202

Sample CCB1- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	14.23/	49%	$Se	38.60/	36%	$Cr	1.614/	30%	$Pb	-43.99/	35%
$Cd	3.646/	32%	$Ba	0.6557/	28%	$Fe	0.4344/	0.00%	$Ag	-0.9929/	110%
$Al	-3.152/	71%									

Measurements for ICSAI- - 1

Elements of SIMULTANEOUS

$As	188.979	2.9570	0.00000	3.5450	-0.55908	12.270 ppb
		2.9950	0.00000	3.5560	-0.53217	25.521 ppb
$Se	196.026	5.8500	0.00000	6.4660	-0.60226	81.377 ppb
		5.8030	0.00000	6.5510	-0.73797	28.850 ppb
$Cr	205.559	6.5030	0.00000	5.4970	1.1154	2.9352 ppb
		6.5210	0.00000	5.4170	1.2149	7.7294 ppb
$Pb	220.353	16.925	15.237	0.00000	1.5065	164.92 ppb
		16.815	15.473	0.00000	1.1505	113.23 ppb

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$Cd	226.502	10.650	0.00000	11.244	-0.48348	14.645	ppb
		10.707	0.00000	11.390	-0.57488	13.088	ppb
$Ba	233.527	4.8080	0.00000	9.2400	-4.4667	1.6756	ppb
		4.8440	0.00000	9.3020	-4.4930	1.2967	ppb
$Fe	259.940	59.924	0.00000	0.59200	59.770	51547	ppb
		60.340	0.00000	0.59200	60.188	51909	ppb
$Ag	328.068	21.546	0.00000	23.072	-1.5108	-9.8569	ppb
		21.459	0.00000	23.081	-1.6079	-11.420	ppb
$Al	396.152	479.45	11.370	0.00000	452.22	134070	ppb
		483.33	11.394	0.00000	455.95	135180	ppb

----- 18:15:42 8/ 3/95 ----- Method: ILMO202

Sample ~~ICSAI~~ ICSAB Rec'd 8/3/95 - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul. Rec'd 8/3/95

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	18.90/	50%	$Se	55.11/	67%	$Cr	-5.013/	67%	$Pb	58.30/	63%
$Cd	5.073/	23%	$Ba	1.486/	18%	$Fe	51730/	0.49%	$Ag	4.880/	21%
$Al	134600/	0.58%									

Measurements for ~~ICSAI~~ ICSAB Rec'd 8/3/95 - 1

Elements of SIMULTANEOUS

$As	188.979	4.3410	0.00000	4.9200	-0.55011	16.687	ppb
		4.3570	0.00000	5.0020	-0.61590	-15.706	ppb
$Se	196.026	8.4640	0.00000	9.0610	-0.58273	88.938	ppb
		8.4370	0.00000	9.1160	-0.66703	56.307	ppb
$Cr	205.559	18.871	0.00000	8.7760	10.345	447.57	ppb
		18.841	0.00000	8.7070	10.385	449.48	ppb
$Pb	220.353	26.643	17.495	0.00000	9.1830	1279.3	ppb
		26.588	17.490	0.00000	9.1315	1271.8	ppb
$Cd	226.502	61.333	0.00000	12.615	50.154	876.92	ppb
		61.528	0.00000	12.670	50.298	879.37	ppb
$Ba	233.527	34.935	0.00000	9.7800	25.442	432.76	ppb
		35.000	0.00000	9.7290	25.560	434.45	ppb
$Fe	259.940	198.15	0.00000	0.71100	198.75	171530	ppb
		198.77	0.00000	0.71400	199.38	172070	ppb
$Ag	328.068	75.254	0.00000	24.421	51.435	842.49	ppb
		75.504	0.00000	24.469	51.640	845.78	ppb

```
$Al  396.152  1669.4  19.373 0.00000  1593.9  472740 ppb
              1673.8  19.388 0.00000  1598.1  474010 ppb

----- 18:20:45  8/ 3/95 -----    Method: ILMO202

Sample ~~ICSAI~~-ICSAB      -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul. RLH 8/3/95

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As  0.4908/+o***% $Se   72.62/   32% $Cr   414.2/ 0.31% $Pb   991.5/ 0.59%

$Cd   848.9/ 0.20% $Ba   433.6/ 0.28% $Fe  171800/ 0.22% $Ag   895.7/ 0.27%

$Al  473400/ 0.19%


Measurements for CRII-          -                    1

------------------------------------------------
  Elements of SIMULTANEOUS


$As  188.979  2.3320 0.00000  2.8510-0.49030  46.135 ppb
              2.3050 0.00000  2.8760-0.54213  20.613 ppb

$Se  196.026  4.6830 0.00000  5.3780-0.68348  49.940 ppb
              4.7310 0.00000  5.4320-0.68965  47.553 ppb

$Cr  205.559  5.4680 0.00000  4.0710  1.5125  22.063 ppb
              5.5790 0.00000  4.1410  1.5541  24.069 ppb

$Pb  220.353  17.939  14.692 0.00000  3.1108  397.80 ppb
              17.853  14.543 0.00000  3.1756  407.22 ppb

$Cd  226.502  10.275 0.00000  10.822-0.43522  15.467 ppb
              10.225 0.00000  10.909-0.57590  13.071 ppb

$Ba  233.527  30.973 0.00000  9.1670  22.057  383.97 ppb
              31.131 0.00000  9.0780  22.307  387.57 ppb

$Fe  259.940 0.93200 0.00000 0.54700 0.44895  335.78 ppb
             0.93100 0.00000 0.54500 0.44996  336.65 ppb

$Ag  328.068  23.486 0.00000  23.151 0.37108  20.438 ppb
              23.456 0.00000  23.164 0.32760  19.738 ppb

$Al  396.152  7.8390  5.8590 0.00000  2.0090  520.77 ppb
              7.8290  5.8630 0.00000  1.9955  516.76 ppb
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----- 18:25:50  8/ 3/95 -----    Method: ILMO202

Sample CRII-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As   33.37/   54% $Se   48.75/  3.5% $Cr   23.00/  6.2% $Pb   402.2/  1.6%

$Cd   14.21/   12% $Ba   385.8/ 0.66% $Fe   336.2/ 0.18% $Ag   20.19/  2.4%
```

$Al 518.8/ 0.55%

Measurements for PBS 1068- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2490	0.00000	2.8840	-0.60593	-10.798	ppb
		2.2330	0.00000	2.8300	-0.56805	7.8528	ppb
$Se	196.026	4.7010	0.00000	5.4810	-0.77086	16.116	ppb
		4.6540	0.00000	5.4080	-0.74413	26.462	ppb
$Cr	205.559	5.0420	0.00000	4.1270	1.0230	-1.5165	ppb
		5.1000	0.00000	4.0970	1.1124	2.7884	ppb
$Pb	220.353	15.066	14.732	0.00000	0.11325	-37.345	ppb
		14.936	14.704	0.00000	0.00829	-52.582	ppb
$Cd	226.502	9.6230	0.00000	10.839	-1.1222	3.7683	ppb
		9.5370	0.00000	10.739	-1.1078	4.0131	ppb
$Ba	233.527	4.5220	0.00000	9.0050	-4.5183	0.93249	ppb
		4.4880	0.00000	9.1020	-4.6507	-0.97620	ppb
$Fe	259.940	0.55400	0.00000	0.54800	0.06755	6.5158	ppb
		0.55200	0.00000	0.54700	0.06654	5.6470	ppb
$Ag	328.068	22.229	0.00000	23.203	-0.95260	-0.87092	ppb
		22.285	0.00000	23.150	-0.84238	0.90348	ppb
$Al	396.152	5.7440	5.5720	0.00000	0.26268	2.7221	ppb
		5.7420	5.5880	0.00000	0.24529	-2.4355	ppb

----- 18:30:54 8/ 3/95 ----- Method: ILMO202

Sample PBS 1068- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	-1.472/	900%	$Se	21.29/	34%	$Cr	0.6347/	480%	$Pb	-44.96/	24%
$Cd	3.890/	4.4%	$Ba	-0.0219/	+o***%	$Fe	6.081/	10%	$Ag	0.0181/	+o***%
$Al	0.1433/	+o***%									

Measurements for LCSS 8/01- - 1

Elements of SIMULTANEOUS

$As	188.979	2.9760	0.00000	2.9330	0.06991	321.96	ppb
		2.9490	0.00000	2.9600	0.01608	295.46	ppb

$Se	196.026	5.2460	0.00000	5.5420	-0.27329	208.71 ppb
		5.3150	0.00000	5.5740	-0.23525	223.44 ppb
$Cr	205.559	10.156	0.00000	4.4300	5.9085	233.84 ppb
		10.067	0.00000	4.4620	5.7856	227.92 ppb
$Pb	220.353	18.956	14.843	0.00000	4.0019	527.17 ppb
		19.016	15.153	0.00000	3.7446	489.82 ppb
$Cd	226.502	30.622	0.00000	10.941	20.337	369.18 ppb
		30.669	0.00000	10.983	20.342	369.26 ppb
$Ba	233.527	98.270	0.00000	9.3490	89.903	1361.8 ppb
		99.150	0.00000	9.2350	90.908	1376.3 ppb
$Fe	259.940	26.067	0.00000	0.57100	25.719	22152 ppb
		26.234	0.00000	0.56700	25.891	22300 ppb
$Ag	328.068	46.770	0.00000	23.488	23.575	393.99 ppb
		46.826	0.00000	23.420	23.701	396.01 ppb
$Al	396.152	52.247	6.0470	0.00000	44.721	13191 ppb
		52.455	6.0450	0.00000	44.924	13251 ppb

----- 18:35:58 8/ 3/95 ----- Method: ILMO202

Sample LCSS 8/01- mg/kg - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	308.7/ 73.68	6.1%	$Se	216.1/ 273.8	4.8%	$Cr	226.4/ 45.28	1.9%	$Pb	500.6/ 100.12	5.3%
$Cd	365.4/	0.01%	$Ba	1369/	0.75%	$Fe	22230/ 4446	0.47%	$Ag	401.7/ 80.34	0.36%
$Al	13220/	0.32%									

Measurements for 30026- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5010	0.00000	3.0720	-0.54213	20.613 ppb
		2.5140	0.00000	3.0800	-0.53715	23.067 ppb
$Se	196.026	4.9180	0.00000	5.6580	-0.72974	32.033 ppb
		4.9920	0.00000	5.6660	-0.66189	58.297 ppb
$Cr	205.559	6.2910	0.00000	4.4490	1.9644	43.832 ppb
		6.2190	0.00000	4.3920	1.9491	43.099 ppb
$Pb	220.353	32.668	14.592	0.00000	18.370	2613.0 ppb
		32.652	14.684	0.00000	18.259	2596.9 ppb
$Cd	226.502	10.491	0.00000	10.857	-0.24935	18.632 ppb
		10.373	0.00000	10.829	-0.34177	17.058 ppb
$Ba	233.527	68.672	0.00000	9.0960	60.238	934.28 ppb

		68.585	0.00000	9.1050	60.141	932.88 ppb
$Fe	259.940	36.593	0.00000	0.57300	36.310	31294 ppb
		36.506	0.00000	0.57400	36.221	31218 ppb
$Ag	328.068	22.053	0.00000	23.260	-1.1882	-4.6639 ppb
		22.067	0.00000	23.187	-1.1002	-3.2476 ppb
$Al	396.152	73.097	8.1930	0.00000	62.787	18551 ppb
		73.079	8.2140	0.00000	62.750	18539 ppb

----- 18:41:01 8/ 3/95 ----- Method: ILMO202

9501.648

Sample 30026- RH 7SP 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	21.84/	7.9%	$Se	45.17/	41%	$Cr	37.21/	1.4%	$Pb	2594/	0.44%
$Cd	12.53/	8.8%	$Ba	933.6/	0.11%	$Fe	31260/	0.17%	$Ag	5.421/	18%
$Al	18550/	0.04%									

Measurements for 30027- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4000	0.00000	2.9420	-0.51323	34.847 ppb
		2.3610	0.00000	2.9230	-0.53316	25.031 ppb
$Se	196.026	4.8370	0.00000	5.4940	-0.64441	65.062 ppb
		4.8730	0.00000	5.5670	-0.68245	50.338 ppb
$Cr	205.559	5.9510	0.00000	4.3390	1.7308	32.581 ppb
		5.9440	0.00000	4.3060	1.7572	33.853 ppb
$Pb	220.353	22.795	14.639	0.00000	8.1622	1131.1 ppb
		23.074	14.754	0.00000	8.3310	1155.6 ppb
$Cd	226.502	10.231	0.00000	10.868	-0.52764	13.893 ppb
		10.137	0.00000	10.849	-0.60466	12.581 ppb
$Ba	233.527	55.802	0.00000	9.1040	47.220	746.65 ppb
		56.371	0.00000	9.1310	47.768	754.54 ppb
$Fe	259.940	26.429	0.00000	0.56900	26.086	22468 ppb
		26.523	0.00000	0.56700	26.182	22551 ppb
$Ag	328.068	22.140	0.00000	23.299	-1.1397	-3.8825 ppb
		22.154	0.00000	23.366	-1.1933	-4.7453 ppb
$Al	396.152	60.666	6.0330	0.00000	52.867	15608 ppb
		60.849	6.0450	0.00000	53.032	15657 ppb

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----- 18:46:05 8/ 3/95 ----- Method: ILMO202

Sample 30027- RH7-SG 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	29.94/	23%	$Se	57.70/	18%	$Cr	28.71/	3.1%	$Pb	1134/	1.5%
$Cd	9.410/	10.0%	$Ba	750.6/	0.74%	$Fe	22510/	0.26%	$Ag	2.439/	24%
$Al	15630/	0.22%									

Measurements for 30028- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4270	0.00000	2.9170	-0.46139	60.368 ppb
		2.3950	0.00000	2.9530	-0.52918	26.994 ppb
$Se	196.026	4.8180	0.00000	5.5570	-0.72871	32.431 ppb
		4.8320	0.00000	5.5470	-0.70404	41.982 ppb
$Cr	205.559	5.8350	0.00000	4.3440	1.6079	26.661 ppb
		5.9030	0.00000	4.3130	1.7085	31.505 ppb
$Pb	220.353	21.668	14.917	0.00000	6.7164	921.24 ppb
		21.780	14.871	0.00000	6.8790	944.84 ppb
$Cd	226.502	10.207	0.00000	10.821	-0.50402	14.295 ppb
		10.098	0.00000	10.863	-0.65908	11.655 ppb
$Ba	233.527	34.559	0.00000	9.0980	25.752	437.22 ppb
		34.552	0.00000	9.1000	25.743	437.09 ppb
$Fe	259.940	24.275	0.00000	0.56700	23.920	20598 ppb
		24.355	0.00000	0.56800	23.999	20667 ppb
$Ag	328.068	22.196	0.00000	23.347	-1.1316	-3.7523 ppb
		22.192	0.00000	23.280	-1.0679	-2.7267 ppb
$Al	396.152	63.242	6.0610	0.00000	55.328	16338 ppb
		63.422	6.0840	0.00000	55.479	16383 ppb

----- 18:51:07 8/ 3/95 ----- Method: ILMO202

Sample 30028- RH8SG 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	43.68/	54%	$Se	37.21/	18%	$Cr	24.96/	14%	$Pb	923.2/	1.8%
$Cd	9.467/	20%	$Ba	437.2/	0.02%	$Fe	20630/	0.24%	$Ag	2.950/	25%
$Al	16360/	0.19%									

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Measurements for 30029- - 1

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  Elements of SIMULTANEOUS

$As  188.979  2.5950 0.00000  3.0600-0.43647  72.638 ppb
              2.5510 0.00000  3.0390-0.45940  61.350 ppb

$Se  196.026  4.9770 0.00000  5.7040-0.71638  37.207 ppb
              4.9620 0.00000  5.7660-0.79554  6.5659 ppb

$Cr  205.559  6.5390 0.00000  4.5120  2.1522  52.883 ppb
              6.5020 0.00000  4.5620  2.0639  48.627 ppb

$Pb  220.353  45.596  14.729 0.00000  31.532  4523.7 ppb
              45.682  14.692 0.00000  31.659  4542.1 ppb

$Cd  226.502  10.911 0.00000  10.906 0.13162  25.119 ppb
              10.984 0.00000  10.888 0.22507  26.710 ppb

$Ba  233.527  82.715 0.00000  9.1720  74.357  1137.8 ppb
              82.915 0.00000  9.1370  74.595  1141.2 ppb

$Fe  259.940  57.051 0.00000 0.59400  56.877   49050 ppb
              57.113 0.00000 0.59600  56.937   49102 ppb

$Ag  328.068  22.134 0.00000  23.619 -1.4693 -9.1895 ppb
              22.252 0.00000  23.633 -1.3642 -7.4965 ppb

$Al  396.152  102.40  6.6520 0.00000  92.584   27390 ppb
              102.54  6.6300 0.00000  92.734   27434 ppb

----- 18:56:09  8/ 3/95 -----   Method: ILMO202

Sample 30029-                                  1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.
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RH8 SB

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EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As    66.99/   12% $Se   21.89/   99% $Cr   40.94/  7.4% $Pb    4516/ 0.29%

$Cd    17.57/  6.4% $Ba    1139/ 0.21% $Fe   49080/ 0.08% $Ag   6.380/   19%

$Al    27410/ 0.12%

Measurements for 30030-                        1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  2.4790 0.00000  2.9800-0.47236  54.969 ppb
              2.4910 0.00000  3.0050-0.48532  48.589 ppb

$Se  196.026  4.8910 0.00000  5.7170-0.81815 -2.1886 ppb
              4.8860 0.00000  5.6750-0.78012  12.535 ppb

$Cr  205.559  6.3610 0.00000  4.4260  2.0588  48.382 ppb
              6.3690 0.00000  4.4650  2.0273  46.865 ppb
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TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: _____ Date: 04/28/95

Flame AA ID Number : 2380_____

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		0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: _____ Date: 07/13/95

Flame AA ID Number : _____

Furnace AA ID Number : 5100A_____

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

Comments:

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: JY_____ Date: 07/24/95

Flame AA ID Number : _____

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	233.53		200	3.0	P
Beryllium			5		NR
Cadmium	226.50		5	2.8	P
Calcium			5000		NR
Chromium	205.56		10	5.7	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	32.6	P
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver	328.07		10	8.3	P
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: OPTIMA_____ Date: 08/25/94

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	___
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	315.88	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	205.55	0.0000000	0.0000000	0.0000000	0.0000000	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	
Iron	302.11	0.0000000	0.0000000	0.0000000	0.0000000	
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.48	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium						
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.84	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

TAT - CHICAGO

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: JY_____ Date: 01/03/94

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	V
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	217.58	0.0000000	0.0000000	0.0017000	0.0000000	0.0000000
Arsenic	197.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006000
Cadmium	226.50	0.0000000	0.0000000	0.0001700	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	205.56	0.0000000	0.0000000	0.0002000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0013000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Potassium	766.47	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0002000	0.0000000	-0.0002000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0001700	0.0000000	0.0000000

Comments:

TAT - CHICAGO

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: OPTIMA_____ Date: 06/22/95

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	50000.0	P
Antimony	10.00	2000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	5000.0	P
Beryllium	10.00	1000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	100000.0	P
Chromium	10.00	10000.0	P
Cobalt	10.00	10000.0	P
Copper	10.00	100000.0	P
Iron	10.00	250000.0	P
Lead	10.00	10000.0	P
Magnesium	10.00	100000.0	P
Manganese	10.00	10000.0	P
Mercury			NR
Nickel	10.00	10000.0	P
Potassium	10.00	50000.0	P
Selenium			NR
Silver	10.00	10000.0	P
Sodium	10.00	50000.0	P
Thallium	10.00	10000.0	P
Vanadium	10.00	10000.0	P
Zinc	10.00	5000.0	P

Comments:

TAT - CHICAGO

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30026_

ICP ID Number: JY_____ Date: 05/08/95

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	500000.0	P
Antimony	10.00	2000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	10000.0	P
Calcium	10.00	500000.0	P
Chromium	10.00	10000.0	P
Cobalt	10.00	10000.0	P
Copper	10.00	10000.0	P
Iron	10.00	500000.0	P
Lead	10.00	50000.0	P
Magnesium	10.00	700000.0	P
Manganese	10.00	10000.0	P
Mercury			NR
Nickel	10.00	10000.0	P
Potassium	10.00	700000.0	P
Selenium	10.00	10000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	500000.0	P
Thallium			NR
Vanadium	10.00	10000.0	P
Zinc	10.00	50000.0	P

Comments:

TAT - CHICAGO

13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30026_

Method: P_

TAT Sample No.	Preparation Date	Weight (gram)	Volume (mL)
BCDC1SB	08/01/95	1.00	200
BCDC1SG	08/01/95	1.00	200
BCDC1SGD	08/01/95	1.00	200
BCDC1SGS	08/01/95	1.00	200
BCDC1SP	08/01/95	1.00	200
BCDC2SB	08/01/95	1.00	200
BCDC3SB	08/01/95	1.00	200
LCSS	08/01/95	1.00	200
PBS	08/01/95	1.00	200
RH10ASP	08/01/95	1.00	200
RH10SB	08/01/95	1.00	200
RH10SG	08/01/95	1.00	200
RH10SP	08/01/95	1.00	200
RH11SB	08/01/95	1.00	200
RH11SG	08/01/95	1.00	200
RH12SG	08/01/95	1.00	200
RH1D	08/01/95	0.44	200
RH2D	08/01/95	1.00	200
RH7SG	08/01/95	1.00	200
RH7SP	08/01/95	1.00	200
RH8SB	08/01/95	1.00	200
RH8SG	08/01/95	1.00	200
RH9SB	08/01/95	1.00	200
RH9SG	08/01/95	1.00	200

TAT - CHICAGO

13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30026_

Method: F_

TAT Sample No.	Preparation Date	Weight (gram)	Volume (mL)
BCDC1SB	08/01/95	1.00	200
BCDC1SG	08/01/95	1.00	200
BCDC1SGD	08/01/95	1.00	200
BCDC1SGS	08/01/95	1.00	200
BCDC1SP	08/01/95	1.00	200
BCDC2SB	08/01/95	1.00	200
BCDC3SB	08/01/95	1.00	200
LCSS	08/01/95	1.00	200
PBS	08/01/95	1.00	200
RH10ASP	08/01/95	1.00	200
RH10SB	08/01/95	1.00	200
RH10SG	08/01/95	1.00	200
RH10SP	08/01/95	1.00	200
RH11SB	08/01/95	1.00	200
RH11SG	08/01/95	1.00	200
RH12SG	08/01/95	1.00	200
RH1D	08/01/95	0.44	200
RH2D	08/01/95	1.00	200
RH7SG	08/01/95	1.00	200
RH7SP	08/01/95	1.00	200
RH8SB	08/01/95	1.00	200
RH8SG	08/01/95	1.00	200
RH9SB	08/01/95	1.00	200
RH9SG	08/01/95	1.00	200

TAT - CHICAGO

13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30026_

Method: CV

TAT Sample No.	Preparation Date	Weight (gram)	Volume (mL)
BCDC1SB	08/02/95	0.20	100
BCDC1SG	08/02/95	0.20	100
BCDC1SP	08/02/95	0.20	100
BCDC2SB	08/02/95	0.20	100
BCDC3SB	08/02/95	0.20	100
LCSS	08/02/95	0.04	100
PBS	08/02/95	0.20	100
RH10ASP	08/02/95	0.20	100
RH10SB	08/02/95	0.20	100
RH10SG	08/02/95	0.20	100
RH10SP	08/02/95	0.20	100
RH11SB	08/02/95	0.20	100
RH11SG	08/02/95	0.20	100
RH12SG	08/02/95	0.20	100
RH1D	08/02/95	0.20	100
RH2D	08/02/95	0.20	100
RH2DD	08/02/95	0.20	100
RH2DS	08/02/95	0.20	100
RH7SG	08/02/95	0.20	100
RH7SP	08/02/95	0.20	100
RH8SB	08/02/95	0.20	100
RH8SG	08/02/95	0.20	100
RH9SB	08/02/95	0.20	100
RH9SG	08/02/95	0.20	100

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: JY_____ Method: P_

Start Date: 08/03/95 End Date: 08/03/95

TAT 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	1733		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S	1.00	1738		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ZZZZZZ	1.00	1743		-	-	-		-		-		-	-	-		-	-	-	-	-	-		-	-	-	-	-
ICV	1.00	1747		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICB	1.00	1752		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	1803		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1808		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSA	1.00	1815		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSAB	1.00	1820		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CRI	1.00	1825		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
PBS	1.00	1830		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
LCSS	1.00	1835		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH7SP	1.00	1841		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH7SG	1.00	1846		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH8SG	1.00	1851		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH8SB	1.00	1856		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH9SB	1.00	1901		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	1906		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	1911		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH9SG	1.00	1916		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH10SP	1.00	1921		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH10SG	1.00	1926		-	-	-	X	-	X	-	X	-	-	-		-	-	-	-	-	-	X	-	-	-	-	-
RH10ASP	1.00	1931		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH10SB	1.00	1936		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH11SG	1.00	1941		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH11SB	1.00	1946		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH12SG	1.00	1951		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BCDC2SB	1.00	1956		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BCDC3SB	1.00	2001		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	2006		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	2011		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BCDC1SB	1.00	2016		-	-	-	X	-	-	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
				-	-	-		-	-	-		-	-	-		-	-	-	-	-	-		-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: __________

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: ______ SDG No.:30026_

Instrument ID Number: JY__________ Method: P_

Start Date: 08/03/95 End Date: 08/03/95

TAT 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
BCDC1SP	1.00	2021					X				X											X					
BCDC1SG	1.00	2026					X				X				X							X					
BCDC1SGD	1.00	2031					X				X				X							X					
BCDC1SGS	1.00	2036					X				X				X							X					
BCDC1SGL	5.00	2041					X				X				X							X					
RH1D	1.00	2046					X				X				X							X					
RH2D	1.00	2051					X				X				X							X					
CCV	1.00	2056					X		X		X				X							X					
CCB	1.00	2101					X		X		X				X							X					
ICSA	1.00	2106					X		X		X				X							X					
ICSAB	1.00	2111					X		X		X				X							X					
CRI	1.00	2116					X		X		X				X							X					
CCV	1.00	2121					X		X		X				X							X					
CCB	1.00	2126					X		X		X				X							X					

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: JY_____ Method: P_

Start Date: 08/03/95 End Date: 08/04/95

TAT 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	2136		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	1.00	2141		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2146		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	2149		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	2155		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	2200		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	2205		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	2217		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	2222		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	2227		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2232		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2237		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2242		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2247		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2252		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2257		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2302		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	2307		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	2312		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2317		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2322		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	2327		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	2332		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	2338		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	2343		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	2348		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	2353		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCDC1SB	1.00	2358		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCDC1SP	1.00	2359		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCDC1SP	1.00	0017		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCDC1SG	1.00	0022		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCDC1SGD	1.00	0026		-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: __________

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: ______ SDG No.:30026_

Instrument ID Number: JY__________ Method: P_

Start Date: 08/03/95 End Date: 08/04/95

EPA 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
BCDC1SGS	1.00	0030							X																		
BCDC1SGL	5.00	0034							X																		
RH1D	1.00	0039							X																		
RH2D	1.00	0043							X																		
CCV	1.00	0047							X																		
CCB	1.00	0051							X																		
ICSA	1.00	0055							X																		
ICSAB	1.00	0100							X																		
CRI	1.00	0104							X																		
CCV	1.00	0108							X																		
CCB	1.00	0112							X																		

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: OPTIMA_____ Method: P_

Start Date: 08/07/95 End Date: 08/07/95

TAT 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	1104		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S	1.00	1108		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1111		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	1118		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1121		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1124		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1126		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1129		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1132		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	10.00	1135		-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	10.00	1138		-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
RH10SG	1.00	1141		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
BCDC1SP	1.00	1144		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1147		-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
PBS	1.00	1150		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	1.00	1153		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1158		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1202		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1207		-	-		-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICSAB	1.00	1210		-	-		-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1212		-	-		-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1215		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1219		-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
RH7SP	1.00	1228		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH7SG	1.00	1235		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH8SG	1.00	1240		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH8SB	1.00	1242		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH9SB	1.00	1245		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH9SG	1.00	1250		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH10SP	1.00	1253		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH10ASP	1.00	1255		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH10SB	1.00	1258		-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: OPTIMA_____ Method: P_

Start Date: 08/07/95 End Date: 08/07/95

TAT 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
RH11SG	1.00	1300				X																				
CCV	1.00	1304				X																				
CCB	1.00	1307				X																				
RH11SB	1.00	1310				X																				
RH12SG	1.00	1312				X																				
BCDC2SB	1.00	1315				X																				
BCDC3SB	1.00	1318				X																				
BCDC1SB	1.00	1321				X																				
BCDC1SG	1.00	1324				X																				
BCDC1SGD	1.00	1327				X																				
BCDC1SGS	1.00	1329				X																				
RH1D	1.00	1335				X																				
RH2D	1.00	1338				X																				
CCV	1.00	1342				X																				
CCB	1.00	1345				X																				
BCDC2SBL	5.00	1348				X																				
ICSA	1.00	1353				X																				
ICSAB	1.00	1355				X																				
CRI	1.00	1358				X																				
CCV	1.00	1401				X																				
CCB	1.00	1405				X																				

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14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: OPTIMA_____ Method: P_

Start Date: 08/07/95 End Date: 08/07/95

TAT 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
RH11SG	1.00	1300				X																				
CCV	1.00	1304				X																				
CCB	1.00	1307				X																				
RH11SB	1.00	1310				X																				
RH12SG	1.00	1312				X																				
BCDC2SB	1.00	1315				X																				
BCDC3SB	1.00	1318				X																				
BCDC1SB	1.00	1321				X																				
BCDC1SG	1.00	1324				X																				
BCDC1SGD	1.00	1327				X																				
BCDC1SGS	1.00	1329				X																				
RH1D	1.00	1335				X																				
RH2D	1.00	1338				X																				
CCV	1.00	1342				X																				
CCB	1.00	1345				X																				
BCDC2SBL	5.00	1348				X																				
ICSA	1.00	1353				X																				
ICSAB	1.00	1355				X																				
CRI	1.00	1358				X																				
CCV	1.00	1401				X																				
CCB	1.00	1405				X																				

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14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/03/95 End Date: 08/03/95

TAT 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	1318																			X						
S5	1.00	1321																			X						
S10	1.00	1324																			X						
S25	1.00	1326																			X						
S50	1.00	1329																			X						
ICV	1.00	1334																			X						
ICB	1.00	1339																			X						
CCV	1.00	1344																			X						
CCB	1.00	1350																			X						
CRA	1.00	1355																			X						
PBS	1.00	1400																			X						
PBSA	1.00	1406	105.5																		X						
LCSS	20.00	1411																			X						
LCSSA	20.00	1417	100.5																		X						
RH7SP	1.00	1422																			X						
RH7SPA	1.00	1427	126.5																		X						
CCV	1.00	1432																			X						
CCB	1.00	1438																			X						

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TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/03/95 End Date: 08/03/95

TAT 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	1610		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	1613		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S10	1.00	1616		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S25	1.00	1618		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	1621		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	1631		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	1636		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1642		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1647		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	1652		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1657		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1703		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH7SG	1.00	1708		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH7SGA	1.00	1713	95.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH8SG	1.00	1719		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH8SGA	1.00	1724	100.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH8SB	1.00	1729		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH8SBA	1.00	1735	91.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH9SB	1.00	1740		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH9SBA	1.00	1745	119.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1750		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1756		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH9SG	1.00	1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH9SGA	1.00	1806	109.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10SP	1.00	1811		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10SPA	1.00	1817	80.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10SG	1.00	1822		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10SGA	1.00	1827	105.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10ASP	1.00	1832		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RH10ASPA	1.00	1838	68.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1843		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1848		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/03/95 End Date: 08/03/95

TAT 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
RH10SB	1.00	1853																		X						
RH10SBA	1.00	1859	89.7																	X						
RH11SG	1.00	1904																		X						
RH11SGA	1.00	1910	100.3																	X						
RH11SB	1.00	1915																		X						
RH11SBA	1.00	1920	104.8																	X						
RH12SG	1.00	1925																		X						
RH12SGA	1.00	1931	110.2																	X						
CCV	1.00	1936																		X						
CCB	1.00	1941																		X						
BCDC2SB	1.00	1946																								
BCDC2SBA	1.00	1952	45.9																							
BCDC3SB	1.00	1957																								
BCDC3SBA	1.00	2003	42.2																							
BCDC1SB	1.00	2008																		X						
BCDC1SBA	1.00	2014	105.2																	X						
BCDC1SP	1.00	2019																		X						
BCDC1SPA	1.00	2024	92.8																	X						
CCV	1.00	2030																		X						
CCB	1.00	2035																		X						

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/04/95 End Date: 08/04/95

TAT 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	0931		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	0934		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S10	1.00	0936		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S25	1.00	0939		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	0942		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	0944		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	0947		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	0949		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	0952		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	0955		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	0957		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1000		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10ASP0	1.00	1003		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10ASP1	1.00	1005		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10ASP2	1.00	1008		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH10ASP3	1.00	1011		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC2SB0	1.00	1013		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC2SB1	1.00	1016		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC2SB2	1.00	1019		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC2SB3	1.00	1021		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC3SB0	1.00	1024		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC3SB1	1.00	1026		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC3SB2	1.00	1029		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BCDC3SB3	1.00	1032		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2D0	1.00	1034		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2D1	1.00	1037		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2D2	1.00	1039		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2D3	1.00	1042		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	1044		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1047		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1050		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1052		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/04/95 End Date: 08/04/95

TAT 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
CCV	1.00	1055																		X						
CCB	1.00	1057																		X						
BCDC2SB0	1.00	1120																		X						
BCDC2SB1	1.00	1122																		X						
BCDC2SB2	1.00	1125																		X						
BCDC2SB3	1.00	1127																		X						
BCDC3SB0	1.00	1130																		X						
BCDC3SB1	1.00	1133																		X						
BCDC3SB2	1.00	1135																		X						
BCDC3SB3	1.00	1138																		X						
ZZZZZZ	1.00	1140																								
ZZZZZZ	1.00	1143																								
ZZZZZZ	1.00	1146																								
ZZZZZZ	1.00	1148																								
CCV	1.00	1151																		X						
CCB	1.00	1153																		X						

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14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30026_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/03/95 End Date: 08/04/95

TAT 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	2225																			X					
S5	1.00	2227																			X					
S10	1.00	2230																			X					
S25	1.00	2233																			X					
S50	1.00	2235																			X					
ICV	1.00	2241																			X					
ICB	1.00	2248																			X					
CCV	1.00	2253																			X					
CCB	1.00	2258																			X					
CRA	1.00	2303																			X					
CCV	1.00	2308																			X					
CCB	1.00	2314																			X					
BCDC1SG	1.00	2319																			X					
BCDC1SGA	1.00	2325	98.9																		X					
BCDC1SGD	1.00	2330																			X					
BCDC1SGDA	1.00	2335	82.9																		X					
BCDC1SGS	1.00	2341																			X					
BCDC1SGSA	1.00	2346	95.3																		X					
RH1D	1.00	2351																			X					
RH1DA	1.00	2357	76.3																		X					
CCV	1.00	0002																			X					
CCB	1.00	0007																			X					

FORM XIV - IN ILM03.0

$Pb	220.353	20.637	14.795	0.00000	5.7811	785.45	ppb
		20.471	14.732	0.00000	5.6751	770.06	ppb
$Cd	226.502	10.315	0.00000	10.926	-0.50094	14.347	ppb
		10.287	0.00000	10.979	-0.58412	12.931	ppb
$Ba	233.527	49.193	0.00000	9.0540	40.590	651.08	ppb
		49.220	0.00000	9.1500	40.520	650.08	ppb
$Fe	259.940	53.546	0.00000	0.59200	53.351	46006	ppb
		53.560	0.00000	0.59400	53.363	46017	ppb
$Ag	328.068	22.152	0.00000	23.472	-1.3025	-6.5034	ppb
		22.145	0.00000	23.597	-1.4360	-8.6523	ppb
$Al	396.152	94.600	6.2930	0.00000	85.392	25256	ppb
		94.579	6.2920	0.00000	85.373	25251	ppb

----- 19:01:10 8/ 3/95 ----- Method: ILMO202

Sample 30030- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

RH950

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	51.78/	8.7%	$Se	5.173/	200%	$Cr	38.42/	2.8%	$Pb	762.6/	1.4%
$Cd	5.817/	17%	$Ba	650.6/	0.11%	$Fe	46010/	0.02%	$Ag	6.226/	24%
$Al	25250/	0.02%									

Measurements for CCV3- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3800	0.00000	2.8960	0.50950	538.40	ppb
		3.3630	0.00000	2.9450	0.44371	506.01	ppb
$Se	196.026	5.9030	0.00000	5.4170	0.53065	519.90	ppb
		5.9970	0.00000	5.4460	0.59748	545.76	ppb
$Cr	205.559	15.274	0.00000	4.2080	11.331	495.07	ppb
		15.290	0.00000	4.2640	11.291	493.11	ppb
$Pb	220.353	21.743	14.909	0.00000	6.8019	933.64	ppb
		21.765	15.036	0.00000	6.6938	917.95	ppb
$Cd	226.502	37.799	0.00000	10.971	27.676	494.15	ppb
		38.060	0.00000	10.849	28.069	500.85	ppb
$Ba	233.527	36.511	0.00000	9.1510	27.671	464.89	ppb
		36.621	0.00000	9.1350	27.799	466.73	ppb
$Fe	259.940	6.3910	0.00000	0.55000	5.9395	5075.8	ppb
		6.4240	0.00000	0.55100	5.9718	5103.6	ppb

```
$Ag  328.068  52.835 0.00000  23.030  30.172  500.18 ppb
              52.870 0.00000  23.035  30.202  500.67 ppb

$Al  396.152  8.8330  6.6980 0.00000  2.1587  565.19 ppb
              8.8370  6.7070 0.00000  2.1539  563.75 ppb
```

----- 19:06:12 8/ 3/95 ----- Method: ILMO202

Sample CCV3- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	522.2/	4.4%	$Se	532.8/	3.4%	$Cr	493.1/	0.28%	$Pb	925.5/	1.2%
$Cd	496.6/	0.95%	$Ba	465.8/	0.28%	$Fe	5090/	0.39%	$Ag	502.0/	0.07%
$Al	564.5/	0.18%									

Measurements for CCB3- - 1

Elements of SIMULTANEOUS

```
$As  188.979  2.2130 0.00000  2.7920-0.55011  16.687 ppb
              2.2050 0.00000  2.8120-0.57802  2.9448 ppb

$Se  196.026  4.5920 0.00000  5.3220-0.71946  36.013 ppb
              4.5800 0.00000  5.2810-0.68965  47.553 ppb

$Cr  205.559  4.9850 0.00000  4.0460  1.0474-0.34244 ppb
              5.0250 0.00000  4.0020  1.1327  3.7668 ppb

$Pb  220.353  14.708  14.645 0.00000-0.16562 -77.828 ppb
              14.801  14.542 0.00000 0.03607 -48.549 ppb

$Cd  226.502  9.4360 0.00000  10.787 -1.2608  1.4076 ppb
              9.4910 0.00000  10.698 -1.1130  3.9256 ppb

$Ba  233.527  4.4500 0.00000  8.9650 -4.5506 0.46624 ppb
              4.4240 0.00000  8.9760 -4.5880-0.07285 ppb

$Fe  259.940 0.57100 0.00000 0.54400 0.08868  24.760 ppb
             0.57000 0.00000 0.54300 0.08868  24.760 ppb

$Ag  328.068  21.917 0.00000  22.842-0.90305-0.07326 ppb
              21.845 0.00000  22.954 -1.0891 -3.0686 ppb

$Al  396.152  5.6870  5.4940 0.00000 0.28296  8.7393 ppb
              5.6820  5.4940 0.00000 0.27813  7.3066 ppb
```

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----- 19:11:14 8/ 3/95 ----- Method: ILMO202

Sample CCB3- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma

$As	9.816/	99%	$Se	41.78/	20%	$Cr	1.707/	170%	$Pb	-63.19/	33%
$Cd	2.662/	67%	$Ba	0.1967/	190%	$Fe	24.76/	0.00%	$Ag	-1.563/	140%
$Al	8.023/	13%									

Measurements for 30031- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4770	0.00000	3.0320	-0.52619	28.466 ppb
		2.5090	0.00000	3.0380	-0.50027	41.227 ppb
$Se	196.026	5.0330	0.00000	5.7780	-0.73488	30.044 ppb
		5.0230	0.00000	5.7300	-0.69582	45.165 ppb
$Cr	205.559	6.4280	0.00000	4.5050	2.0466	47.795 ppb
		6.3630	0.00000	4.5730	1.9116	41.289 ppb
$Pb	220.353	16.732	14.890	0.00000	1.6650	187.92 ppb
		16.690	14.973	0.00000	1.5364	169.25 ppb
$Cd	226.502	10.457	0.00000	11.020	-0.45165	15.187 ppb
		10.402	0.00000	10.985	-0.47219	14.837 ppb
$Ba	233.527	54.201	0.00000	9.2440	45.460	721.28 ppb
		54.599	0.00000	9.2760	45.830	726.61 ppb
$Fe	259.940	64.420	0.00000	0.60300	64.283	55444 ppb
		64.537	0.00000	0.60200	64.402	55546 ppb
$Ag	328.068	22.223	0.00000	23.920	-1.6837	-12.641 ppb
		22.176	0.00000	23.861	-1.6716	-12.445 ppb
$Al	396.152	103.34	6.2960	0.00000	93.832	27760 ppb
		103.54	6.3160	0.00000	94.008	27812 ppb

----- 19:16:18 8/ 3/95 ----- Method: ILMO202

Sample 30031- RH95G 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	34.85/	26%	$Se	37.60/	28%	$Cr	33.44/	14%	$Pb	161.9/	8.2%
$Cd	5.578/	4.6%	$Ba	723.9/	0.52%	$Fe	55500/	0.13%	$Ag	4.106/	3.9%
$Al	27790/	0.13%									

Measurements for 30032- - 1

Elements of SIMULTANEOUS

```
$As  188.979  2.7910 0.00000  3.1340-0.31486  132.52 ppb
              2.7630 0.00000  3.1140-0.32284  128.59 ppb

$Se  196.026  5.0520 0.00000  5.8520-0.79142  8.1576 ppb
              5.0010 0.00000  5.8530-0.84488 -12.535 ppb

$Cr  205.559  7.2630 0.00000  4.6540  2.7432  81.354 ppb
              7.3200 0.00000  4.6810  2.7737  82.822 ppb

$Pb  220.353  95.322  14.996 0.00000  82.426   11912 ppb
              95.407  14.786 0.00000  82.730   11956 ppb

$Cd  226.502  11.462 0.00000  11.092 0.50643  31.501 ppb
              11.360 0.00000  11.003 0.49308  31.274 ppb

$Ba  233.527  57.079 0.00000  9.1780  48.436  764.17 ppb
              57.156 0.00000  9.1210  48.572  766.13 ppb

$Fe  259.940  81.146 0.00000 0.61200  81.106   69967 ppb
              80.896 0.00000 0.60900  80.858   69752 ppb

$Ag  328.068  22.188 0.00000  23.623 -1.4188 -8.3755 ppb
              22.215 0.00000  23.567 -1.3348 -7.0244 ppb

$Al  396.152  96.236  8.4760 0.00000  84.864   25100 ppb
              96.106  8.4760 0.00000  84.739   25062 ppb

----- 19:21:19  8/ 3/95 -----   Method: ILMO202

Sample 30032-                                  1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.        RH10SP

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As   130.6/  2.1% $Se  -2.189/  670% $Cr   68.12/  1.6% $Pb   11920/ 0.26%

$Cd   19.51/ 0.69% $Ba   765.2/ 0.18% $Fe   69860/ 0.22% $Ag   13.26/  6.9%

$Al   25080/ 0.11%


Measurements for 30033-          -                    1

------------------------------------------------
  Elements of SIMULTANEOUS


$As  188.979  2.4470 0.00000  3.0100-0.53416  24.540 ppb
              2.4620 0.00000  3.0070-0.51622  33.374 ppb

$Se  196.026  4.8840 0.00000  5.6120-0.71740  36.809 ppb
              4.9620 0.00000  5.6250-0.65058  62.674 ppb

$Cr  205.559  6.1580 0.00000  4.4080  1.8709  39.332 ppb
              6.1160 0.00000  4.4170  1.8192  36.837 ppb

$Pb  220.353  15.662  14.640 0.00000 0.82121  65.429 ppb
              15.636  14.884 0.00000 0.54337  25.096 ppb

$Cd  226.502  10.058 0.00000  10.783-0.61801  12.354 ppb
```

		10.103	0.00000	10.916	-0.70837	10.815	ppb
$Ba	233.527	43.835	0.00000	9.0190	35.209	573.52	ppb
		43.527	0.00000	9.1580	34.757	567.01	ppb
$Fe	259.940	46.153	0.00000	0.58700	45.916	39588	ppb
		45.884	0.00000	0.58300	45.650	39358	ppb
$Ag	328.068	22.033	0.00000	23.478	-1.4289	-8.5383	ppb
		22.046	0.00000	23.502	-1.4400	-8.7174	ppb
$Al	396.152	98.583	6.1470	0.00000	89.381	26439	ppb
		98.251	6.1260	0.00000	89.080	26350	ppb

----- 19:26:21 8/ 3/95 ----- Method: ILMO202

Sample 30033- RH10-SG 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	28.96/	22%	$Se	49.74/	37%	$Cr	30.19/	5.7%	$Pb	29.43/	97%
$Cd	4.874/	22%	$Ba	570.3/	0.81%	$Fe	39470/	0.41%	$Ag	3.214/	5.5%
$Al	26400/	0.24%									

see optimum Ba 9/4/95

Measurements for 30034 - - 1

Elements of SIMULTANEOUS

$As	188.979	2.8180	0.00000	3.2000	-0.35374	113.37	ppb
		2.8000	0.00000	3.1830	-0.35473	112.88	ppb
$Se	196.026	5.1310	0.00000	5.8460	-0.70404	41.982	ppb
		5.1840	0.00000	5.9080	-0.71329	38.400	ppb
$Cr	205.559	7.3990	0.00000	4.7840	2.7493	81.648	ppb
		7.4260	0.00000	4.7210	2.8407	86.050	ppb
$Pb	220.353	97.119	15.036	0.00000	84.234	12174	ppb
		96.404	15.081	0.00000	83.452	12061	ppb
$Cd	226.502	11.444	0.00000	11.032	0.54956	32.236	ppb
		11.499	0.00000	11.046	0.59166	32.953	ppb
$Ba	233.527	58.282	0.00000	9.2270	49.603	780.99	ppb
		58.437	0.00000	9.3370	49.648	781.64	ppb
$Fe	259.940	87.506	0.00000	0.61800	87.501	75487	ppb
		87.475	0.00000	0.61800	87.469	75460	ppb
$Ag	328.068	22.391	0.00000	23.865	-1.4582	-9.0104	ppb
		22.355	0.00000	23.874	-1.5037	-9.7430	ppb
$Al	396.152	104.12	8.6100	0.00000	92.353	27321	ppb
		104.02	8.5980	0.00000	92.267	27296	ppb

----- 19:31:21 8/ 3/95 ----- Method: ILMO202

Sample 30034 - - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul. RH10ASP

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	113.1/	0.31%	$Se	40.19/	6.3%	$Cr	68.75/	4.5%	$Pb	12100/	0.66%
$Cd	19.76/	2.6%	$Ba	781.3/	0.06%	$Fe	75470/	0.03%	$Ag	13.27/	3.9%
$Al	27310/	0.07%									

Measurements for 30035- - 1

Elements of SIMULTANEOUS

$As	188.979	2.6290	0.00000	3.1910	-0.53316	25.031	ppb
		2.6890	0.00000	3.1780	-0.46040	60.859	ppb
$Se	196.026	5.1590	0.00000	5.8880	-0.71843	36.411	ppb
		5.1020	0.00000	5.8070	-0.69376	45.961	ppb
$Cr	205.559	6.9750	0.00000	4.7130	2.3909	64.379	ppb
		6.9340	0.00000	4.6670	2.3959	64.623	ppb
$Pb	220.353	52.248	14.992	0.00000	38.107	5478.1	ppb
		52.241	14.998	0.00000	38.093	5476.2	ppb
$Cd	226.502	11.146	0.00000	11.000	0.27641	27.584	ppb
		11.047	0.00000	11.104	0.06795	24.035	ppb
$Ba	233.527	61.388	0.00000	9.2120	52.758	828.46	ppb
		61.593	0.00000	9.2440	52.933	828.98	ppb
$Fe	259.940	79.235	0.00000	0.61400	79.181	68305	ppb
		79.132	0.00000	0.61200	79.079	68217	ppb
$Ag	328.068	22.224	0.00000	23.786	-1.5472	-10.443	ppb
		22.197	0.00000	23.914	-1.7039	-12.966	ppb
$Al	396.152	131.99	7.6070	0.00000	120.24	35593	ppb
		131.94	7.6350	0.00000	120.16	35570	ppb

----- 19:36:20 8/ 3/95 ----- Method: ILMO202

Sample 30035- 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul. RH10SB

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	42.94/	59%	$Se	41.19/	16%	$Cr	50.85/	0.36%	$Pb	5456/	0.02%
$Cd	14.21/	18%	$Ba	827.7/	0.22%	$Fe	68260/	0.09%	$Ag	8.774/	21%
$Al	35580/	0.05%									

Measurements for 30036- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5150	0.00000	3.1000	-0.55609	13.742	ppb
		2.5090	0.00000	3.0850	-0.54712	18.160	ppb
$Se	196.026	5.0320	0.00000	5.7640	-0.72152	35.217	ppb
		5.1290	0.00000	5.7720	-0.63002	70.633	ppb
$Cr	205.559	6.5900	0.00000	4.6230	2.0913	49.947	ppb
		6.6970	0.00000	4.5610	2.2629	58.215	ppb
$Pb	220.353	17.798	14.910	0.00000	2.7414	344.18	ppb
		17.637	15.080	0.00000	2.4007	294.73	ppb
$Cd	226.502	10.401	0.00000	10.952	-0.43933	15.397	ppb
		10.515	0.00000	10.978	-0.34896	16.935	ppb
$Ba	233.527	60.934	0.00000	9.1610	52.350	820.59	ppb
		61.481	0.00000	9.1940	52.870	828.08	ppb
$Fe	259.940	68.392	0.00000	0.60500	68.278	58893	ppb
		68.488	0.00000	0.60400	68.376	58977	ppb
$Ag	328.068	22.178	0.00000	23.908	-1.7171	-13.178	ppb
		22.168	0.00000	23.775	-1.5927	-11.175	ppb
$Al	396.152	126.97	6.5270	0.00000	116.44	34466	ppb
		127.08	6.4880	0.00000	116.58	34507	ppb

----- 19:41:19 8/ 3/95 ----- Method: ILMO202

Sample 30036- RH115G 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	15.95/	20%	$Se	52.92/	47%	$Cr	42.29/	14%	$Pb	298.8/	12%
$Cd	6.147/	18%	$Ba	824.3/	0.64%	$Fe	58940/	0.10%	$Ag	5.504/	26%
$Al	34490/	0.08%									

Measurements for 30037- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5480	0.00000	3.0330	-0.45641	62.822	ppb
		2.5050	0.00000	3.0250	-0.49130	45.644	ppb
$Se	196.026	5.1090	0.00000	5.7390	-0.61666	75.806	ppb
		4.9810	0.00000	5.8450	-0.85722	-17.310	ppb

$Cr	205.559	6.6430	0.00000	4.5980	2.1705	53.763	ppb
		6.7150	0.00000	4.6010	2.2406	57.139	ppb
$Pb	220.353	18.408	14.791	0.00000	3.4915	453.08	ppb
		18.168	14.717	0.00000	3.3207	428.28	ppb
$Cd	226.502	10.449	0.00000	11.046	-0.48656	14.592	ppb
		10.459	0.00000	10.887	-0.31302	17.547	ppb
$Ba	233.527	49.107	0.00000	9.2120	40.343	647.53	ppb
		49.011	0.00000	9.1360	40.323	647.23	ppb
$Fe	259.940	68.381	0.00000	0.60200	68.270	58886	ppb
		68.033	0.00000	0.60300	67.919	58583	ppb
$Ag	328.068	22.138	0.00000	23.724	-1.5715	-10.834	ppb
		22.280	0.00000	23.762	-1.4663	-9.1406	ppb
$Al	396.152	129.71	6.4740	0.00000	119.13	35266	ppb
		128.93	6.4660	0.00000	118.38	35042	ppb

----- 19:46:19 8/ 3/95 ----- Method: ILMO202

Sample 30037- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

RH11SB

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	54.23/	22%	$Se	29.25/	230%	$Cr	43.70/	5.6%	$Pb	419.6/	4.2%
$Cd	6.085/	35%	$Ba	647.4/	0.03%	$Fe	58730/	0.37%	$Ag	7.633/	15%
$Al	35150/	0.45%									

Measurements for 30038- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4630	0.00000	2.9220	-0.43049	75.583	ppb
		2.4360	0.00000	2.9970	-0.53217	25.521	ppb
$Se	196.026	4.8890	0.00000	5.5960	-0.69582	45.165	ppb
		4.8980	0.00000	5.5520	-0.64133	66.255	ppb
$Cr	205.559	6.2280	0.00000	4.4170	1.9329	42.316	ppb
		6.1100	0.00000	4.4040	1.8263	37.179	ppb
$Pb	220.353	21.948	14.849	0.00000	7.0745	973.22	ppb
		21.831	14.912	0.00000	6.8893	946.33	ppb
$Cd	226.502	10.179	0.00000	10.910	-0.62417	12.249	ppb
		10.232	0.00000	10.967	-0.62827	12.179	ppb
$Ba	233.527	40.511	0.00000	9.0920	31.775	524.03	ppb
		40.609	0.00000	9.0660	31.900	525.84	ppb

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$Fe  259.940   40.269 0.00000 0.58200   40.000    34480 ppb
               40.190 0.00000 0.58000   39.923    34413 ppb

$Ag  328.068   22.108 0.00000  23.563 -1.4390 -8.7011 ppb
               22.214 0.00000  23.516 -1.2843 -6.2104 ppb

$Al  396.152   85.806  6.1520 0.00000   77.035    22777 ppb
               85.548  6.1330 0.00000   76.804    22708 ppb

----- 19:51:21  8/ 3/95 -----   Method: ILMO202

Sample 30038-                -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.        RH12SG

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As   50.55/   70% $Se   55.71/   27% $Cr   32.86/   11% $Pb   946.1/  2.0%

$Cd   6.358/ 0.65% $Ba   524.9/ 0.24% $Fe   34450/ 0.14% $Ag   2.878/   61%

$Al   22740/ 0.21%


Measurements for 30039-          -                    1

------------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979   4.0280 0.00000  3.3750 0.67796  621.35 ppb
               3.9740 0.00000  3.3710 0.62812  596.81 ppb

$Se  196.026   5.6270 0.00000  6.4260-0.79040  8.5555 ppb
               5.5710 0.00000  6.3920-0.81301-0.19897 ppb

$Cr  205.559   10.251 0.00000  5.7000  4.7153  176.36 ppb
               10.117 0.00000  5.6520  4.6280  172.15 ppb

$Pb  220.353   357.26  15.853 0.00000  351.08   50912 ppb
               356.21  15.840 0.00000  350.02   50758 ppb

$Cd  226.502   15.882 0.00000  11.800  4.3182  96.410 ppb
               15.878 0.00000  11.631  4.4877  99.295 ppb

$Ba  233.527   145.26 0.00000  9.7370  137.02  2040.9 ppb
               144.90 0.00000  9.7030  136.69  2036.2 ppb

$Fe  259.940   223.10 0.00000 0.73300  223.83  193180 ppb
               223.02 0.00000 0.73200  223.76  193120 ppb

$Ag  328.068   23.586 0.00000  25.701 -2.1064 -19.445 ppb
               23.540 0.00000  25.587 -2.0376 -18.338 ppb

$Al  396.152   125.17  6.8470 0.00000  114.39   33857 ppb
               125.15  6.8410 0.00000  114.37   33853 ppb

----- 19:56:22  8/ 3/95 -----   Method: ILMO202

Sample 30039-                                     1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.        BCDC2SB
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EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	609.1/	2.8%	$Se	4.178/	150%	$Cr	135.6/	2.2%	$Pb	50820/	0.22%
$Cd	65.02/	3.1%	$Ba	2039/	0.16%	$Fe	193200/	0.02%	$Ag	39.05/	2.0%
$Al	33860/	0.01%									

Measurements for 30040- - 1

Elements of SIMULTANEOUS

$As	188.979	3.9930	0.00000	3.3680	0.65005	607.61 ppb
		4.0250	0.00000	3.4250	0.62513	595.34 ppb
$Se	196.026	5.5950	0.00000	6.3640	-0.75956	20.493 ppb
		5.6620	0.00000	6.3950	-0.72255	34.819 ppb
$Cr	205.559	10.186	0.00000	5.6010	4.7498	178.02 ppb
		10.193	0.00000	5.6320	4.7255	176.85 ppb
$Pb	220.353	354.56	15.780	0.00000	348.38	50521 ppb
		353.98	15.623	0.00000	347.94	50457 ppb
$Cd	226.502	15.889	0.00000	11.825	4.2997	96.095 ppb
		15.812	0.00000	11.800	4.2463	95.186 ppb
$Ba	233.527	142.43	0.00000	9.6290	134.26	2001.2 ppb
		142.67	0.00000	9.6290	134.50	2004.7 ppb
$Fe	259.940	225.65	0.00000	0.73800	226.40	195400 ppb
		226.12	0.00000	0.73400	226.88	195810 ppb
$Ag	328.068	23.480	0.00000	25.644	-2.1559	-20.243 ppb
		23.444	0.00000	25.632	-2.1802	-20.634 ppb
$Al	396.152	122.89	6.8030	0.00000	112.23	33217 ppb
		123.24	6.7890	0.00000	112.57	33320 ppb

----- 20:01:22 8/ 3/95 ----- Method: ILMO202

Sample 30040- BCDC3SB 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	601.5/	1.4%	$Se	27.66/	37%	$Cr	138.3/	0.64%	$Pb	50470/	0.09%
$Cd	62.39/	1.1%	$Ba	2003/	0.12%	$Fe	195600/	0.15%	$Ag	38.24/	0.49%
$Al	33270/	0.22%									

Measurements for CCV4- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3550	0.00000	2.8960	0.48458	526.13	ppb
		3.3750	0.00000	2.9440	0.45667	512.39	ppb
$Se	196.026	5.8720	0.00000	5.3640	0.55327	528.65	ppb
		5.9170	0.00000	5.4120	0.55019	527.46	ppb
$Cr	205.559	15.092	0.00000	4.2540	11.100	483.92	ppb
		15.044	0.00000	4.2630	11.042	481.13	ppb
$Pb	220.353	21.769	14.941	0.00000	6.7957	932.74	ppb
		21.868	14.904	0.00000	6.9356	953.06	ppb
$Cd	226.502	38.184	0.00000	10.788	28.259	504.08	ppb
		38.141	0.00000	10.687	28.319	505.10	ppb
$Ba	233.527	36.300	0.00000	9.0440	27.566	463.37	ppb
		36.501	0.00000	9.0650	27.748	466.00	ppb
$Fe	259.940	6.2750	0.00000	0.55100	5.8218	4974.2	ppb
		6.2830	0.00000	0.55100	5.8299	4981.1	ppb
$Ag	328.068	53.164	0.00000	23.019	30.515	505.71	ppb
		53.293	0.00000	23.080	30.584	506.82	ppb
$Al	396.152	8.7860	6.7430	0.00000	2.0699	538.83	ppb
		8.7830	6.7670	0.00000	2.0438	531.09	ppb

----- 20:06:21 8/ 3/95 ----- Method: ILMO202

Sample CCV4- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	519.3/	1.9%	$Se	528.1/	0.16%	$Cr	481.5/	0.41%	$Pb	942.6/	1.5%
$Cd	503.7/	0.14%	$Ba	464.7/	0.40%	$Fe	4978/	0.10%	$Ag	507.8/	0.15%
$Al	535.0/	1.0%									

Measurements for CCB4- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2210	0.00000	2.8000	-0.55011	16.687	ppb
		2.2020	0.00000	2.8090	-0.57802	2.9448	ppb
$Se	196.026	4.6010	0.00000	5.2100	-0.59507	84.162	ppb
		4.5910	0.00000	5.3110	-0.70918	39.992	ppb
$Cr	205.559	4.9870	0.00000	3.9870	1.1093	2.6417	ppb
		5.0040	0.00000	3.9840	1.1296	3.6201	ppb
$Pb	220.353	14.748	14.441	0.00000	0.08546	-41.379	ppb

```
                14.908   14.496 0.00000 0.19351 -25.694 ppb

$Cd   226.502   9.4800 0.00000  10.638 -1.0626  4.7825 ppb
                9.5170 0.00000  10.661 -1.0483  5.0273 ppb

$Ba   233.527   4.5060 0.00000  8.9620 -4.4910  1.3259 ppb
                4.4330 0.00000  8.8970 -4.4991  1.2093 ppb

$Fe   259.940 0.55400 0.00000 0.54500 0.07057  9.1221 ppb
              0.55400 0.00000 0.54500 0.07057  9.1221 ppb

$Ag   328.068  21.933 0.00000  22.992 -1.0385 -2.2546 ppb
               21.951 0.00000  23.021 -1.0497 -2.4337 ppb

$Al   396.152  5.6690  5.5110 0.00000 0.24915 -1.2894 ppb
               5.6660  5.5180 0.00000 0.23949 -4.1547 ppb

----- 20:11:21  8/ 3/95 -----   Method: ILMO202

Sample CCB4-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As   9.816/   99% $Se   62.08/   50% $Cr   3.129/   22% $Pb  -33.53/   33%

$Cd   4.903/  3.5% $Ba   1.268/  6.5% $Fe   9.122/ 0.00% $Ag  -2.341/  5.4%

$Al  -2.722/   74%

Measurements for 30041-          -                   1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As   188.979   2.4200 0.00000  2.9510-0.50226  40.245 ppb
                2.4170 0.00000  2.9350-0.48930  46.626 ppb

$Se   196.026   4.9360 0.00000  5.5920-0.64339  65.460 ppb
                4.9320 0.00000  5.6200-0.67628  52.726 ppb

$Cr   205.559   6.1670 0.00000  4.4380  1.8496  38.304 ppb
                6.1530 0.00000  4.4100  1.8638  38.989 ppb

$Pb   220.353   17.424  14.581 0.00000  2.6950  337.45 ppb
                17.360  14.612 0.00000  2.5973  323.26 ppb

$Cd   226.502   10.055 0.00000  10.850-0.68989  11.130 ppb
                10.153 0.00000  10.904-0.64470  11.899 ppb

$Ba   233.527   47.997 0.00000  9.1450  39.289  632.33 ppb
                48.258 0.00000  9.0960  39.602  636.85 ppb

$Fe   259.940   45.684 0.00000 0.58500  45.447   39182 ppb
                45.801 0.00000 0.58500  45.564   39284 ppb

$Ag   328.068   22.137 0.00000  23.583 -1.4299 -8.5546 ppb
                22.181 0.00000  23.635 -1.4380 -8.6848 ppb
```

$Al 396.152 91.062 6.0720 0.00000 82.189 24306 ppb
91.142 6.0850 0.00000 82.253 24325 ppb

----- 20:16:20 8/ 3/95 ----- Method: ILMO202

Sample 30041- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul. BCDC1SB

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	43.44/	10%	$Se	59.09/	15%	$Cr	30.80/	1.5%	$Pb	315.8/	3.2%
$Cd	4.845/	11%	$Ba	634.6/	0.50%	$Fe	39230/	0.18%	$Ag	3.150/	2.2%
$Al	24320/	0.06%									

FLM 8/8/95

Measurements for 30042- - 1

CCBS after cont'd for Cd ferun Cd FLM 8/8/95

Elements of SIMULTANEOUS

$As 188.979 2.4480 0.00000 3.0950 -0.61789 -16.687 ppb
2.4790 0.00000 3.0430 -0.53516 24.049 ppb

$Se 196.026 5.0040 0.00000 5.7460 -0.73180 31.238 ppb
4.9760 0.00000 5.6150 -0.62591 72.224 ppb

$Cr 205.559 6.3120 0.00000 4.4880 1.9461 42.952 ppb
6.2650 0.00000 4.4880 1.8984 40.653 ppb

$Pb 220.353 15.556 14.710 0.00000 0.64010 39.138 ppb
15.597 14.902 0.00000 0.48472 16.581 ppb

$Cd 226.502 10.126 0.00000 10.859 -0.62622 12.214 ppb
10.284 0.00000 10.828 -0.43214 15.519 ppb

$Ba 233.527 49.644 0.00000 9.0210 41.079 658.13 ppb
49.892 0.00000 9.0250 41.326 661.69 ppb

$Fe 259.940 59.405 0.00000 0.59700 59.242 51092 ppb
59.431 0.00000 0.59400 59.272 51117 ppb

$Ag 328.068 21.881 0.00000 23.541 -1.6463 -12.038 ppb
21.903 0.00000 23.508 -1.5907 -11.143 ppb

$Al 396.152 104.58 7.7490 0.00000 93.623 27698 ppb
104.72 7.7510 0.00000 93.757 27738 ppb

----- 20:21:20 8/ 3/95 ----- Method: ILMO202

Sample 30042- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul. BCDC1SP

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	3.681/	780%	$Se	51.73/	56%	$Cr	31.58/	5.2%	$Pb	11.23/	140%

$Cd 5.179/ 45% $Ba 659.9/ 0.38% $Fe 51110/ 0.03% $Ag 3.741/ 17%

$Al 27720/ 0.10%

Measurements for 30043- - 1

Elements of SIMULTANEOUS

$As	188.979	2.3340	0.00000	2.9050	-0.54213	20.613	ppb
		2.3430	0.00000	2.8470	-0.47535	53.497	ppb
$Se	196.026	4.7610	0.00000	5.4090	-0.63516	68.643	ppb
		4.6920	0.00000	5.4190	-0.71638	37.207	ppb
$Cr	205.559	5.6550	0.00000	4.2420	1.5287	22.846	ppb
		5.7000	0.00000	4.1700	1.6475	28.569	ppb
$Pb	220.353	19.661	14.520	0.00000	5.0597	680.73	ppb
		19.521	14.508	0.00000	4.9280	661.61	ppb
$Cd	226.502	9.9870	0.00000	10.614	-0.51737	14.068	ppb
		9.8780	0.00000	10.686	-0.70324	10.903	ppb
$Ba	233.527	34.204	0.00000	8.9660	25.526	433.97	ppb
		34.312	0.00000	8.9320	25.670	436.04	ppb
$Fe	259.940	26.550	0.00000	0.56700	26.209	22575	ppb
		26.615	0.00000	0.56600	26.276	22632	ppb
$Ag	328.068	21.813	0.00000	23.076	-1.2448	-5.5755	ppb
		21.898	0.00000	23.050	-1.1326	-3.7686	ppb
$Al	396.152	61.325	5.8300	0.00000	53.699	15855	ppb
		61.608	5.8140	0.00000	53.988	15940	ppb

----- 20:26:19 8/ 3/95 ----- Method: ILMO202

Sample 30043- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

BCDC1SG

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	37.06/	63%	$Se	52.92/	42%	$Cr	21.19/	19%	$Pb	661.6/	2.0%
$Cd	8.643/	26%	$Ba	435.0/	0.34%	$Fe	22600/	0.18%	$Ag	2.109/	61%
$Al	15900/	0.38%									

Measurements for 30043.D- - 1

Elements of SIMULTANEOUS

$As	188.979	2.3340	0.00000	2.8680	-0.50525	38.773	ppb
		2.3120	0.00000	2.8760	-0.53516	24.049	ppb

$Se	196.026	4.8380	0.00000	5.4220	-0.56937	94.111	ppb
		4.7460	0.00000	5.4270	-0.66909	55.511	ppb
$Cr	205.559	5.7310	0.00000	4.3530	1.4932	21.133	ppb
		5.7670	0.00000	4.2360	1.6486	28.618	ppb
$Pb	220.353	19.749	14.763	0.00000	4.9002	657.58	ppb
		19.736	14.782	0.00000	4.8673	652.80	ppb
$Cd	226.502	10.127	0.00000	10.630	-0.39004	16.236	ppb
		9.9490	0.00000	10.809	-0.75664	9.9934	ppb
$Ba	233.527	34.071	0.00000	9.0530	25.304	430.77	ppb
		34.120	0.00000	9.0280	25.379	431.84	ppb
$Fe	259.940	25.470	0.00000	0.56500	25.124	21638	ppb
		25.472	0.00000	0.56600	25.125	21639	ppb
$Ag	328.068	22.076	0.00000	23.409	-1.3156	-6.7151	ppb
		22.123	0.00000	23.326	-1.1842	-4.5988	ppb
$Al	396.152	56.889	5.8960	0.00000	49.351	14565	ppb
		56.849	5.8650	0.00000	49.342	14562	ppb

----- 20:31:19 8/ 3/95 ----- Method: ILMO202

Sample 30043.D- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

BCDC1SG (DUP)

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	31.41/	33%	$Se	74.81/	36%	$Cr	20.55/	26%	$Pb	646.5/	0.52%
$Cd	9.436/	47%	$Ba	431.3/	0.18%	$Fe	21640/	0.00%	$Ag	0.8346/	180%
$Al	14560/	0.01%									

3.1% RPD

0.9% RPD

23% RPD

NC

Measurements for 30043.S- - 1

Elements of SIMULTANEOUS

$As	188.979	6.4180	0.00000	2.9910	3.4431	1982.8	ppb
		6.4860	0.00000	3.0050	3.4969	2009.3	ppb
$Se	196.026	9.7520	0.00000	5.6270	4.2717	1968.0	ppb
		9.7320	0.00000	5.6120	4.2666	1966.0	ppb
$Cr	205.559	10.169	0.00000	4.4400	5.9116	233.98	ppb
		10.238	0.00000	4.3750	6.0476	240.54	ppb
$Pb	220.353	23.324	14.903	0.00000	8.4349	1170.7	ppb
		23.611	14.951	0.00000	8.6808	1206.4	ppb
$Cd	226.502	12.960	0.00000	10.798	2.3466	62.837	ppb
		13.141	0.00000	11.006	2.3189	62.364	ppb

$Ba	233.527	166.30	0.00000	9.2180	158.81	2355.0	ppb
		168.14	0.00000	9.2790	160.61	2380.9	ppb
$Fe	259.940	31.256	0.00000	0.57100	30.941	26660	ppb
		31.468	0.00000	0.57200	31.153	26843	ppb
$Ag	328.068	25.241	0.00000	23.483	1.8100	43.603	ppb
		25.302	0.00000	23.504	1.8505	44.254	ppb
$Al	396.152	83.895	5.9600	0.00000	75.374	22284	ppb
		84.338	5.9600	0.00000	75.802	22411	ppb

----- 20:36:18 8/ 3/95 ----- Method: ILMO202

Sample 30043.S- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

BCDC1SG (spike)

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
							105.4% Rec			102.7% Rec	
$As	1996/	0.94%	$Se	1967/	0.07%	$Cr	231.9/	2.0%	$Pb	1175/	2.1%
				96.6% Rec						103.9% Rec	
$Cd	58.05/	0.61%	$Ba	2368/	0.77%	$Fe	26750/	0.48%	$Ag	51.95/	0.96%
$Al	22350/	0.40%									

Measurements for 30043.L- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2410	0.00000	2.8320	-0.56207	10.798	ppb
		2.2660	0.00000	2.8320	-0.53715	23.067	ppb
$Se	196.026	4.5610	0.00000	5.3630	-0.79348	7.3617	ppb
		4.5960	0.00000	5.3650	-0.75956	20.493	ppb
$Cr	205.559	5.1110	0.00000	4.1010	1.1195	3.1309	ppb
		5.1730	0.00000	4.0480	1.2363	8.7567	ppb
$Pb	220.353	15.627	14.596	0.00000	0.83047	66.774	ppb
		15.489	14.613	0.00000	0.67097	43.620	ppb
$Cd	226.502	9.5000	0.00000	10.613	-1.0164	5.5693	ppb
		9.5050	0.00000	10.581	-0.97844	6.2163	ppb
$Ba	233.527	10.258	0.00000	8.8730	1.4136	86.430	ppb
		10.311	0.00000	8.8910	1.4490	86.940	ppb
$Fe	259.940	5.6950	0.00000	0.54900	5.2401	4472.0	ppb
		5.6940	0.00000	0.54700	5.2411	4472.9	ppb
$Ag	328.068	21.752	0.00000	23.000	-1.2297	-5.3314	ppb
		21.844	0.00000	22.908	-1.0436	-2.3360	ppb
$Al	396.152	16.661	5.5320	0.00000	10.846	3142.3	ppb
		16.630	5.5700	0.00000	10.779	3122.5	ppb

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----- 20:41:18 8/ 3/95 ----- Method: ILMO202

Sample 30043.L- BCDC1SG (Serial Dilution) 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	16.93/	51%	$Se	13.93/	67%	$Cr	5.049/	79%	$Pb	53.32/	31%
$Cd	5.132/	8.9%	$Ba	433.45 (04%D) 86.69/	0.42%	$Fe	4472/	0.01%	$Ag	-2.492/	85%
$Al	3132/	0.45%									

RH 8/3/95

Measurements for 30044- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4060	0.00000	2.9590	-0.52419	29.448	ppb
		2.4480	0.00000	2.9720	-0.49528	43.681	ppb
$Se	196.026	4.6610	0.00000	5.4040	-0.73283	30.840	ppb
		4.6680	0.00000	5.3580	-0.67834	51.930	ppb
$Cr	205.559	6.7810	0.00000	4.1550	2.7605	82.186	ppb
		6.6880	0.00000	4.2610	2.5584	72.451	ppb
$Pb	220.353	21.745	14.487	0.00000	7.2382	996.98	ppb
		22.071	14.397	0.00000	7.6662	1059.1	ppb
$Cd	226.502	12.986	0.00000	10.538	2.6403	67.838	ppb
		12.978	0.00000	10.488	2.6834	68.572	ppb
$Ba	233.527	56.259	0.00000	8.7990	47.990	757.75	ppb
		56.250	0.00000	8.9740	47.804	755.07	ppb
$Fe	259.940	19.405	0.00000	0.55600	19.030	16377	ppb
		19.422	0.00000	0.55600	19.047	16392	ppb
$Ag	328.068	21.763	0.00000	22.713	-0.92833	-0.48023	ppb
		21.739	0.00000	22.644	-0.88283	0.25232	ppb
$Al	396.152	37.993	8.3080	0.00000	28.769	8459.2	ppb
		38.014	8.3100	0.00000	28.788	8464.6	ppb

----- 20:46:18 8/ 3/95 ----- Method: ILMO202

Sample 30044- RHID 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	36.56/	28%	$Se	41.38/	36%	$Cr	74.04/	9.3%	$Pb	1023/	4.3%
$Cd	65.42/	0.79%	$Ba	756.4/	0.25%	$Fe	16380/	0.06%	$Ag	4.801/	11%
$Al	8462/	0.05%									

RH 8/3/95

Measurements for 30045- - 1

Elements of SIMULTANEOUS

$As	188.979	2.6050	0.00000	3.1060	-0.47236	54.969	ppb
		2.6090	0.00000	3.1480	-0.51024	36.319	ppb
$Se	196.026	4.9410	0.00000	5.5910	-0.63722	67.847	ppb
		4.9140	0.00000	5.5920	-0.66600	56.705	ppb
$Cr	205.559	7.0900	0.00000	4.2930	2.9342	90.551	ppb
		6.9770	0.00000	4.3050	2.8072	84.436	ppb
$Pb	220.353	24.631	14.725	0.00000	9.9630	1392.5	ppb
		24.247	14.859	0.00000	9.4300	1315.2	ppb
$Cd	226.502	12.371	0.00000	10.616	1.9287	55.720	ppb
		12.345	0.00000	10.636	1.8814	54.915	ppb
$Ba	233.527	54.197	0.00000	8.9390	45.764	725.67	ppb
		54.269	0.00000	8.9720	45.804	726.23	ppb
$Fe	259.940	26.119	0.00000	0.56100	25.782	22205	ppb
		26.144	0.00000	0.56100	25.807	22227	ppb
$Ag	328.068	21.644	0.00000	22.880	-1.2175	-5.1360	ppb
		21.721	0.00000	22.796	-1.0547	-2.5151	ppb
$Al	396.152	79.676	10.521	0.00000	66.894	19769	ppb
		79.673	10.547	0.00000	66.866	19760	ppb

----- 20:51:21 8/ 3/95 ----- Method: ILMO202

Sample 30045- RH 2 D 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	45.64/	29%	$Se	62.28/	13%	$Cr	83.05/	5.2%	$Pb	1342/	4.1%
$Cd	~~51.54~~/	1.1%	$Ba	726.0/	0.06%	$Fe	22220/	0.07%	$Ag	2.839/	65%
$Al	19760/	0.03%									

RLH 8/13/95

Measurements for CCV5- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3390	0.00000	2.8690	0.49555	531.53	ppb
		3.3200	0.00000	2.8530	0.49255	530.06	ppb
$Se	196.026	5.9050	0.00000	5.3470	0.60467	548.55	ppb
		5.8300	0.00000	5.2480	0.62935	558.10	ppb
$Cr	205.559	14.823	0.00000	4.1820	10.900	474.28	ppb

		14.842	0.00000	4.2280	10.872	472.96 ppb
$Pb	220.353	21.562	14.612	0.00000	6.9212	950.97 ppb
		21.443	14.696	0.00000	6.7123	920.64 ppb
$Cd	226.502	37.613	0.00000	10.743	27.719	494.89 ppb
		37.601	0.00000	10.597	27.856	497.23 ppb
$Ba	233.527	35.849	0.00000	8.9670	27.188	457.93 ppb
		36.079	0.00000	8.9960	27.391	460.85 ppb
$Fe	259.940	6.2260	0.00000	0.54500	5.7785	4936.8 ppb
		6.2280	0.00000	0.54600	5.7795	4937.7 ppb
$Ag	328.068	52.712	0.00000	22.764	30.316	502.51 ppb
		52.851	0.00000	22.732	30.489	505.29 ppb
$Al	396.152	8.7170	6.6330	0.00000	2.1095	550.57 ppb
		8.7390	6.6410	0.00000	2.1230	554.58 ppb

----- 20:56:21 8/ 3/95 ----- Method: ILMO202

Sample CCV5- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	530.8/ 0.20%	$Se	553.3/ 1.2%	$Cr	472.6/ 0.20%	$Pb	935.5/ 2.3%
$Cd	495.2/ 0.33%	$Ba	459.4/ 0.45%	$Fe	4937/ 0.01%	$Ag	505.4/ 0.39%
$Al	552.6/ 0.51%						

Measurements for CCB5- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2080	0.00000	2.7500	-0.51323	34.847 ppb
		2.2220	0.00000	2.7760	-0.52519	28.957 ppb
$Se	196.026	4.5440	0.00000	5.1950	-0.63824	67.449 ppb
		4.5140	0.00000	5.3300	-0.80787	1.7907 ppb
$Cr	205.559	4.9710	0.00000	3.9620	1.1185	3.0820 ppb
		4.9570	0.00000	4.0310	1.0342	-0.97840 ppb
$Pb	220.353	14.572	14.544	0.00000	-0.20163	-83.056 ppb
		14.717	14.711	0.00000	-0.22427	-86.343 ppb
$Cd	226.502	9.4590	0.00000	10.489	-0.93121	7.0207 ppb
		9.3570	0.00000	10.538	-1.0863	4.3803 ppb
$Ba	233.527	4.4250	0.00000	8.8100	-4.4192	2.3604 ppb
		4.4090	0.00000	8.8580	-4.4839	1.4279 ppb
$Fe	259.940	0.58600	0.00000	0.54200	0.10579	39.529 ppb
		0.58400	0.00000	0.54100	0.10478	38.660 ppb

```
$Ag  328.068  21.891 0.00000  22.813-0.90002-0.02442 ppb
              21.717 0.00000  22.817 -1.0800 -2.9221 ppb

$Al  396.152  5.7540  5.4970 0.00000 0.34478  27.077 ppb
              5.7520  5.5140 0.00000 0.32643  21.633 ppb

----- 21:01:21  8/ 3/95 -----   Method: ILMO202

Sample CCB5-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As   31.90/   13% $Se   34.62/  130% $Cr   1.044/  280% $Pb  -84.71/  2.7%

$Cd   5.694/    3% $Ba   1.894/   35% $Fe   39.09/  1.6% $Ag  -1.461/  140%

$Al   24.36/   16%


Measurements for ICSAF-          -                   1

------------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  4.2650 0.00000  4.8340-0.54014  21.595 ppb
              4.2440 0.00000  4.9080-0.63484 -25.031 ppb

$Se  196.026  8.1380 0.00000  9.0490-0.90554 -36.013 ppb
              8.2270 0.00000  9.1070-0.87367 -23.677 ppb

$Cr  205.559  9.5640 0.00000  8.5540  1.1195  3.1309 ppb
              9.5860 0.00000  8.4850  1.2119  7.5826 ppb

$Pb  220.353  20.441  17.170 0.00000  3.1355  401.39 ppb
              20.493  17.129 0.00000  3.2312  415.28 ppb

$Cd  226.502  12.880 0.00000  12.162 0.86379  37.587 ppb
              12.921 0.00000  12.085 0.98496  39.650 ppb

$Ba  233.527  5.2360 0.00000  9.3700 -4.1655  6.0175 ppb
              5.2980 0.00000  9.3970 -4.1301  6.5274 ppb

$Fe  259.940  199.47 0.00000 0.70900  200.08  172680 ppb
              198.80 0.00000 0.71000  199.41  172100 ppb

$Ag  328.068  20.683 0.00000  24.042 -3.3643 -39.696 ppb
              20.770 0.00000  24.166 -3.4018 -40.299 ppb

$Al  396.152  1692.7  19.065 0.00000  1616.7  479500 ppb
              1688.4  19.104 0.00000  1612.5  478270 ppb

----- 21:06:20  8/ 3/95 -----   Method: ILMO202

Sample ICSAF-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma
```

$As -1.718/+o***% $Se -29.84/ 29% $Cr -29.12/ 11% $Pb 121.0/ 8.5%

$Cd 9.312/ 16% $Ba 6.272/ 5.7% $Fe 172400/ 0.24% $Ag 11.72/ 4.7%

$Al 478900/ 0.18%

Measurements for ICSABF- - 1

Elements of SIMULTANEOUS

$As	188.979	4.2620	0.00000	4.8750	-0.58400	0.00000	ppb
		4.2370	0.00000	4.9010	-0.63484	-25.031	ppb
$Se	196.026	8.2750	0.00000	8.9320	-0.64441	65.062	ppb
		8.3040	0.00000	8.9830	-0.66703	56.307	ppb
$Cr	205.559	18.588	0.00000	8.6490	10.187	439.94	ppb
		18.613	0.00000	8.6970	10.163	438.81	ppb
$Pb	220.353	26.174	17.170	0.00000	9.0348	1257.8	ppb
		26.269	17.123	0.00000	9.1809	1279.0	ppb
$Cd	226.502	62.136	0.00000	12.054	51.555	900.77	ppb
		61.797	0.00000	12.113	51.146	893.82	ppb
$Ba	233.527	33.956	0.00000	9.4020	24.835	424.01	ppb
		33.769	0.00000	9.4910	24.556	419.98	ppb
$Fe	259.940	198.49	0.00000	0.70800	199.10	171830	ppb
		197.86	0.00000	0.70800	198.46	171280	ppb
$Ag	328.068	76.598	0.00000	24.121	53.098	869.26	ppb
		76.560	0.00000	24.141	53.039	868.31	ppb
$Al	396.152	1689.9	19.129	0.00000	1613.9	478670	ppb
		1684.2	19.097	0.00000	1608.4	477070	ppb

----- 21:11:19 8/ 3/95 ----- Method: ILMO202

Sample ICSABF- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL CONC/ sigma EL CONC/ sigma EL CONC/ sigma EL CONC/ sigma

$As -12.52/ 140% $Se 60.68/ 10% $Cr 405.1/ 0.18% $Pb 981.7/ 1.6%

$Cd 868.1/ 0.56% $Ba 422.0/ 0.67% $Fe 171600/ 0.23% $Ag 920.3/ 0.09%

$Al 477900/ 0.24%

Measurements for CRIF- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2180	0.00000	2.8030	-0.55609	13.742	ppb
		2.2710	0.00000	2.8000	-0.50027	41.227	ppb
$Se	196.026	4.6250	0.00000	5.2450	-0.60638	79.785	ppb
		4.6960	0.00000	5.2350	-0.52310	112.02	ppb
$Cr	205.559	5.3930	0.00000	4.0570	1.4505	19.079	ppb
		5.4330	0.00000	4.0100	1.5389	23.335	ppb
$Pb	220.353	17.623	14.471	0.00000	3.0130	383.61	ppb
		17.554	14.564	0.00000	2.8463	359.41	ppb
$Cd	226.502	9.9030	0.00000	10.541	-0.52867	13.875	ppb
		9.9040	0.00000	10.634	-0.62314	12.267	ppb
$Ba	233.527	30.413	0.00000	8.8960	21.765	379.76	ppb
		30.468	0.00000	8.9620	21.754	379.60	ppb
$Fe	259.940	0.80800	0.00000	0.54300	0.32819	231.53	ppb
		0.80600	0.00000	0.54100	0.32819	231.53	ppb
$Ag	328.068	23.079	0.00000	22.776	0.33872	19.917	ppb
		23.038	0.00000	22.801	0.27198	18.843	ppb
$Al	396.152	7.3640	5.7590	0.00000	1.6468	413.32	ppb
		7.3530	5.7500	0.00000	1.6449	412.75	ppb

----- 21:16:19 8/ 3/95 ----- Method: ILMO202

Sample CRIF- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	27.48/	71%	$Se	95.90/	24%	$Cr	21.16/	14%	$Pb	371.3/	4.6%
$Cd	13.03/	8.7%	$Ba	379.7/	0.03%	$Fe	231.5/	0.00%	$Ag	19.45/	3.9%
$Al	413.0/	0.10%									

Measurements for CCV6- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3420	0.00000	2.8940	0.47362	520.74	ppb
		3.3350	0.00000	2.8930	0.46763	517.79	ppb
$Se	196.026	5.9220	0.00000	5.3260	0.64374	563.67	ppb
		5.9330	0.00000	5.3940	0.58514	540.99	ppb
$Cr	205.559	15.136	0.00000	4.2320	11.167	487.15	ppb
		15.116	0.00000	4.2510	11.127	485.24	ppb
$Pb	220.353	21.737	14.871	0.00000	6.8348	938.42	ppb
		21.774	14.894	0.00000	6.8492	940.51	ppb

```
$Cd   226.502   38.314 0.00000   10.785   28.396   506.41 ppb
                38.170 0.00000   10.832   28.199   503.07 ppb

$Ba   233.527   36.721 0.00000   9.1020   27.933   468.66 ppb
                36.423 0.00000   9.0400   27.695   465.22 ppb

$Fe   259.940   6.3050 0.00000 0.54900   5.8540   5002.0 ppb
                6.3040 0.00000 0.54800   5.8540   5002.0 ppb

$Ag   328.068   53.618 0.00000   22.895   31.100   515.12 ppb
                53.319 0.00000   22.912   30.780   509.98 ppb

$Al   396.152   8.8090  6.7140 0.00000   2.1201   553.72 ppb
                8.8120  6.7290 0.00000   2.1085   550.29 ppb

----- 21:21:19  8/ 3/95 -----   Method: ILMO202

Sample CCV6-           -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As    519.3/ 0.40% $Se    552.3/  2.9% $Cr    485.2/ 0.28% $Pb    939.1/ 0.16%

$Cd    503.9/ 0.47% $Ba    466.9/ 0.52% $Fe     5002/ 0.00% $Ag    514.1/ 0.71%

$Al    552.0/ 0.44%


Measurements for CCB6-           -                    1

-----------------------------------------------
  Elements of SIMULTANEOUS


$As   188.979   2.2160 0.00000   2.7640-0.51921   31.902 ppb
                2.2570 0.00000   2.8130-0.52718   27.975 ppb

$Se   196.026   4.5090 0.00000   5.3390-0.82227  -3.7803 ppb
                4.5900 0.00000   5.2520-0.64955   63.072 ppb

$Cr   205.559   4.9770 0.00000   4.0160   1.0697 0.73380 ppb
                5.0230 0.00000   4.0090   1.1235  3.3266 ppb

$Pb   220.353   15.490  14.552 0.00000 0.73477   52.881 ppb
                15.433  14.671 0.00000 0.55367   26.590 ppb

$Cd   226.502   9.5240 0.00000   10.586-0.96407   6.4611 ppb
                9.4820 0.00000   10.584 -1.0051   5.7617 ppb

$Ba   233.527   4.3890 0.00000   8.9450 -4.5921-0.13113 ppb
                4.3550 0.00000   8.9300 -4.6113-0.40796 ppb

$Fe   259.940 0.58200 0.00000 0.54200 0.10176   36.054 ppb
              0.58200 0.00000 0.54400 0.09975   34.316 ppb

$Ag   328.068   21.951 0.00000   23.013 -1.0416 -2.3035 ppb
                21.938 0.00000   22.934-0.97485 -1.2291 ppb

$Al   396.152   5.7290  5.5390 0.00000 0.28006   7.8797 ppb
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5.7290 5.5440 0.00000 0.27523 6.4470 ppb

----- 21:26:19 8/ 3/95 ----- Method: ILMO202

Sample CCB6- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	29.94/	9.3%	$Se	29.65/	160%	$Cr	2.023/	91%	$Pb	39.73/	47%
$Cd	6.105/	8.1%	$Ba	-0.2695/	73%	$Fe	35.19/	3.5%	$Ag	-1.756/	43%
$Al	7.163/	14%									

4/4/95
8/95

#215

Raw Data
8/3 - 8/4/95

RLH

Δ 9501.648 Ag Ba Cd Cr Pb
30046-30052 ~~SDG#5~~

9501,648 Cd (30041-30045) Run # 2

Δ PBS 1070
LCSS#5 8/1 TS

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8/4/95

Measurements for STDLOW- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2210	0.00000	2.7910	-0.57000
		2.1900	0.00000	2.7770	-0.58700
$Se	196.026	4.5100	0.00000	5.2210	-0.71100
		4.5910	0.00000	5.1910	-0.60000
$Cr	205.559	4.9930	0.00000	4.0240	0.96900
		4.9680	0.00000	3.9960	0.97200
$Pb	220.353	14.743	14.656	0.00000	0.08700
		14.818	14.654	0.00000	0.16400
$Cd	226.502	9.4410	0.00000	10.607	-1.1660
		9.4290	0.00000	10.637	-1.2080
$Ba	233.527	4.4020	0.00000	8.9230	-4.5210
		4.3830	0.00000	8.9650	-4.5820
$Fe	259.940	0.54600	0.00000	0.54300	0.00300
		0.54700	0.00000	0.54300	0.00400
$Ag	328.068	21.784	0.00000	22.965	-1.1810
		21.927	0.00000	22.859	-0.93200
$Al	396.152	5.6180	5.5110	0.00000	0.10700
		5.6470	5.5150	0.00000	0.13200

EL		Alpha	Beta	Offset
As	188.979	1.0140	0.0026	0.000000
Se	196.026	1.1003	-0.0913	0.000000
Cr	205.559	1.0167	0.0678	0.000000
Pb	220.353	0.9949	0.2456	0.000000
Cd	226.502	1.0313	-0.1194	0.000000
Ba	233.527	1.0108	0.0178	0.000000
Fe	259.940	1.0068	0.0565	0.000000
Ag	328.068	1.0090	0.1675	0.000000
Al	396.152	0.9541	0.1395	0.000000

----- 21:36:02 8/ 3/95 ----- Method: ILMO202

Sample STDLOW- - 1 #MEAS.= 2 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	-0.5785/	2.1%	$Se	-0.6555/	12%	$Cr	0.9705/	0.22%	$Pb	0.1255/	43%
$Cd	-1.187/	2.5%	$Ba	-4.551/	0.95%	$Fe	0.0035/	20%	$Ag	-1.056/	17%
$Al	0.1195/	15%									

Measurements for STDHIGH- - 1

Elements of SIMULTANEOUS

$As	188.979	4.2190	0.00000	2.8610	1.3580
		4.1920	0.00000	2.7930	1.3990
$Se	196.026	6.9490	0.00000	5.3130	1.6360
		6.8970	0.00000	5.2850	1.6120
$Cr	205.559	24.950	0.00000	4.2520	20.698
		24.832	0.00000	4.2300	20.602
$Pb	220.353	28.818	14.740	0.00000	14.078
		28.800	15.117	0.00000	13.683
$Cd	226.502	67.552	0.00000	10.759	56.793
		67.415	0.00000	10.701	56.714
$Ba	233.527	69.569	0.00000	8.9990	60.570
		69.891	0.00000	9.1730	60.718
$Ag	328.068	85.631	0.00000	23.108	62.523
		85.735	0.00000	23.161	62.574
$Al	396.152	9.1150	5.5080	0.00000	3.6070
		9.1370	5.5180	0.00000	3.6190

EL		Alpha	Beta	Offset
As	188.979	1.0378	0.0164	0.000000
Se	196.026	1.1334	-0.0696	0.000000
Cr	205.559	1.0548	0.0308	0.000000
Pb	220.353	1.0016	0.2448	0.000000
Cd	226.502	1.0135	-0.1404	0.000000
Ba	233.527	1.0642	0.2607	0.000000
Ag	328.068	0.9766	0.1333	0.000000
Al	396.152	0.9649	0.1382	0.000000

----- 21:41:06 8/ 3/95 ----- Method: ILMO202

Sample STDHIGH- - 1 #MEAS.= 2 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	1.378/	2.1%	$Se	1.624/	1.0%	$Cr	20.65/	0.33%	$Pb	13.88/	2.0%
$Cd	56.75/	0.10%	$Ba	60.64/	0.17%	$Ag	62.55/	0.06%	$Al	3.613/	0.23%

Measurements for STD2- - 1

Elements of SIMULTANEOUS

```
$Fe  259.940   12.270 0.00000 0.56300   11.707
               12.273 0.00000 0.56000   11.713

  EL              Alpha        Beta         Offset
 Fe  259.940      0.9895      0.0565     0.000000


----- 21:46:10  8/ 3/95 -----   Method: ILMO202

Sample STD2-          -                    1 #MEAS.=  2 for Seq., #MEAS.= 2 for
 Simul.

EL     CONC/ sigma

$Fe   11.71/ 0.04%


Measurements for ICV-          -                    1

------------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979   4.1750 0.00000  2.8360  1.4060  979.82 ppb
               4.2400 0.00000  2.8470  1.4620  1007.4 ppb

$Se  196.026   6.9420 0.00000  5.2660  1.8299  1022.8 ppb
               6.9760 0.00000  5.2930  1.8379  1025.9 ppb

$Cr  205.559   24.378 0.00000  4.1150  21.404  980.33 ppb
               24.559 0.00000  4.1370  21.572  988.41 ppb

$Pb  220.353   21.329  14.771 0.00000  6.8133  935.30 ppb
               21.373  14.678 0.00000  6.9505  955.22 ppb

$Cd  226.502   37.669 0.00000  10.712  27.182  485.74 ppb
               37.624 0.00000  10.771  27.076  483.94 ppb

$Ba  233.527   66.571 0.00000  9.0440  61.481  952.19 ppb
               67.006 0.00000  9.1120  61.871  957.82 ppb

$Fe  259.940   1.6730 0.00000 0.54400  1.1737  961.43 ppb
               1.6790 0.00000 0.54300  1.1806  967.41 ppb

$Ag  328.068   33.691 0.00000  22.840  10.731  187.21 ppb
               33.606 0.00000  22.901  10.588  184.91 ppb

$Al  396.152   9.2750  5.7030 0.00000  3.5849  988.26 ppb
               9.2640  5.7040 0.00000  3.5734  984.83 ppb

----- 21:49:59  8/ 3/95 -----   Method: ILMO202

Sample ICV-           -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma
```

$As	993.6/	2.0%	$Se	1024/	0.21%	$Cr	984.2/	0.58%	$Pb	944.7/	1.5%
$Cd	484.7/	0.26%	$Ba	955.0/	0.42%	$Fe	964.4/	0.44%	$Ag	186.4/	0.87%
$Al	986.5/	0.25%									

Measurements for ICB- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2410	0.00000	2.7730	-0.53574	23.761	ppb
		2.2250	0.00000	2.7670	-0.54612	18.651	ppb
$Se	196.026	4.4880	0.00000	5.2330	-0.91394	-39.263	ppb
		4.5460	0.00000	5.2390	-0.85500	-16.451	ppb
$Cr	205.559	4.9850	0.00000	3.9770	1.0941	1.9055	ppb
		4.9250	0.00000	3.9690	1.0392	-0.73681	ppb
$Pb	220.353	14.736	14.556	0.00000	0.42509	7.9244	ppb
		14.776	14.510	0.00000	0.51122	20.429	ppb
$Cd	226.502	9.3840	0.00000	10.659	-1.4327	-1.5188	ppb
		9.4500	0.00000	10.659	-1.3658	-0.37970	ppb
$Ba	233.527	4.4310	0.00000	8.9310	-4.5282	0.78993	ppb
		4.3760	0.00000	8.8120	-4.4601	1.7716	ppb
$Fe	259.940	0.54400	0.00000	0.54300	0.05753	-2.1356	ppb
		0.54600	0.00000	0.54300	0.05951	-0.42711	ppb
$Ag	328.068	21.845	0.00000	22.997	-0.99177	-1.5014	ppb
		21.928	0.00000	22.937	-0.85211	0.74680	ppb
$Al	396.152	5.6320	5.4990	0.00000	0.26653	3.8643	ppb
		5.6360	5.4940	0.00000	0.27521	6.4405	ppb

----- 21:55:02 8/ 3/95 ----- Method: ILMO202

Sample ICB- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	21.21/	17%	$Se	-27.86/	58%	$Cr	0.5846/	320%	$Pb	14.17/	62%
$Cd	-0.9490/	85%	$Ba	1.281/	54%	$Fe	-1.281/	94%	$Ag	-0.3777/	420%
$Al	5.152/	35%									

Measurements for CCV1- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3070	0.00000	2.9270	0.41074	489.78 ppb
		3.2950	0.00000	2.9140	0.41178	490.29 ppb
$Se	196.026	5.8680	0.00000	5.4330	0.42343	478.39 ppb
		5.8440	0.00000	5.3450	0.49597	506.47 ppb
$Cr	205.559	14.650	0.00000	4.2510	11.000	479.10 ppb
		14.684	0.00000	4.1870	11.103	484.08 ppb
$Pb	220.353	21.610	14.612	0.00000	7.2540	999.27 ppb
		21.630	14.829	0.00000	7.0567	970.63 ppb
$Cd	226.502	37.250	0.00000	10.744	26.725	477.96 ppb
		37.438	0.00000	10.725	26.934	481.53 ppb
$Ba	233.527	35.392	0.00000	9.0730	28.269	473.51 ppb
		35.585	0.00000	9.0750	28.473	476.44 ppb
$Fe	259.940	6.0740	0.00000	0.54900	5.5235	4716.6 ppb
		6.1040	0.00000	0.55100	5.5512	4740.5 ppb
$Ag	328.068	52.573	0.00000	22.993	29.022	481.67 ppb
		52.652	0.00000	22.995	29.097	482.88 ppb
$Al	396.152	8.6630	6.6660	0.00000	2.0652	537.43 ppb
		8.6770	6.6690	0.00000	2.0758	540.58 ppb

----- 22:00:07 8/ 3/95 ----- Method: ILMO202

Sample CCV1- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	490.0/	0.07%	$Se	492.4/	4.0%	$Cr	480.6/	0.73%	$Pb	984.6/	2.1%
$Cd	478.9/	0.53%	$Ba	475.0/	0.44%	$Fe	4729/	0.36%	$Ag	483.7/	0.18%
$Al	539.0/	0.41%									

Measurements for CCB1- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2040	0.00000	2.7510	-0.55131	16.096 ppb
		2.2260	0.00000	2.7510	-0.52848	27.338 ppb
$Se	196.026	4.4520	0.00000	5.2130	-0.93207	-46.282 ppb
		4.5440	0.00000	5.1810	-0.79153	8.1158 ppb
$Cr	205.559	4.9120	0.00000	3.9670	1.0276	-1.2958 ppb
		4.9440	0.00000	4.0350	0.98963	-3.1251 ppb
$Pb	220.353	14.627	14.570	0.00000	0.30189	-9.9600 ppb
		14.706	14.371	0.00000	0.58034	30.462 ppb
$Cd	226.502	9.4350	0.00000	10.553	-1.2736	1.1909 ppb

```
                9.3000 0.00000   10.484 -1.3405 0.05178 ppb

$Ba   233.527   4.3560 0.00000   8.8700 -4.5431 0.57519 ppb
                4.3990 0.00000   8.8470 -4.4729  1.5875 ppb

$Fe   259.940 0.54700 0.00000 0.54300 0.06049 0.42711 ppb
              0.54700 0.00000 0.54200 0.06148  1.2813 ppb

$Ag   328.068   21.807 0.00000   22.785-0.82184  1.2342 ppb
                21.824 0.00000   22.814-0.83355  1.0455 ppb

$Al   396.152   5.6220  5.4890 0.00000 0.26653  3.8643 ppb
                5.6160  5.4730 0.00000 0.27618  6.7268 ppb

----- 22:05:11  8/ 3/95 -----    Method: ILMO202

Sample CCB1-            -                      1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As    21.72/   37% $Se  -19.08/  200% $Cr  -2.211/    59% $Pb   10.25/  280%

$Cd  0.6212/  130% $Ba   1.081/   66% $Fe  0.8542/    71% $Ag   1.140/   12%

$Al    5.295/   38%



Measurements for ICSAI -          -                    1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As   188.979   4.2090 0.00000   4.8770-0.67688 -45.733 ppb
                4.2270 0.00000   4.7790-0.55650  13.541 ppb

$Se   196.026   8.0600 0.00000   8.9320 -1.0579 -94.977 ppb
                8.1670 0.00000   8.9760-0.98647 -67.339 ppb

$Cr   205.559   9.4130 0.00000   8.4230  1.0751 0.99088 ppb
                9.5270 0.00000   8.4690  1.1468  4.4462 ppb

$Pb   220.353   20.348  17.048 0.00000  3.5501  461.58 ppb
                20.353  17.251 0.00000  3.3518  432.79 ppb

$Cd   226.502   12.921 0.00000   12.041 0.75150  35.675 ppb
                12.926 0.00000   12.201 0.59440  32.999 ppb

$Ba   233.527   5.2780 0.00000   9.3470 -4.0695  7.4008 ppb
```

```
                5.2320 0.00000  9.4300 -4.2068  5.4221 ppb

$Fe  259.940   193.62 0.00000 0.70700  190.94  164790 ppb
               194.40 0.00000 0.70800  191.71  165450 ppb

$Ag  328.068   20.856 0.00000  24.212 -3.1442 -36.153 ppb
               20.926 0.00000  24.229 -3.0925 -35.320 ppb

$Al  396.152   1641.5  18.830 0.00000  1565.9  464440 ppb
               1647.0  18.853 0.00000  1571.2  466020 ppb

----- 22:17:13  8/ 3/95 -----   Method: ILMO202

Sample ICSAI -           -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 f
or Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As  -16.10/  260% $Se  -81.16/   24% $Cr  -30.31/  7.7% $Pb   168.0/   13%

$Cd   6.267/   31% $Ba   6.411/   22% $Fe  165100/ 0.28% $Ag   13.80/  5.3%

$Al  465200/ 0.24%

Measurements for ICSABI-        -                  1

------------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979   4.2530 0.00000  4.7840-0.53470  24.272 ppb
               4.2310 0.00000  4.8080-0.58244 0.76648 ppb

$Se  196.026   8.2490 0.00000  9.0820 -1.0137 -77.868 ppb
               8.2370 0.00000  8.9520-0.87994 -26.102 ppb

$Cr  205.559   18.351 0.00000  8.5860  10.331  446.89 ppb
               18.536 0.00000  8.5910  10.521  456.03 ppb

$Pb  220.353   26.151  17.213 0.00000  9.1971  1281.4 ppb
               26.113  17.351 0.00000  9.0208  1255.8 ppb

$Cd  226.502   61.296 0.00000  12.149  49.672  868.72 ppb
               61.699 0.00000  12.229  50.000  874.29 ppb

$Ba  233.527   33.307 0.00000  9.4310  25.670  436.03 ppb
               33.631 0.00000  9.4190  26.027  441.19 ppb

$Fe  259.940   194.58 0.00000 0.70900  191.89  165610 ppb
               195.75 0.00000 0.70900  193.05  166610 ppb

$Ag  328.068   75.968 0.00000  24.315  50.579  828.70 ppb
               76.094 0.00000  24.241  50.774  831.84 ppb

$Al  396.152   1652.3  18.954 0.00000  1576.2  467500 ppb
               1660.7  18.976 0.00000  1584.3  469890 ppb

----- 22:22:18  8/ 3/95 -----   Method: ILMO202
```

Sample ICSABI- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	12.52/	130%	$Se	-51.99/	70%	$Cr	418.2/	1.5%	$Pb	987.3/	1.9%
$Cd	843.3/	0.45%	$Ba	438.6/	0.83%	$Fe	166100/	0.43%	$Ag	880.1/	0.28%
$Al	468700/	0.36%									

Measurements for CRII- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2620	0.00000	2.8100	-0.55235	15.585 ppb
		2.3350	0.00000	2.8050	-0.47140	55.442 ppb
$Se	196.026	4.6620	0.00000	5.3020	-0.79493	6.7997 ppb
		4.7140	0.00000	5.1790	-0.59659	83.571 ppb
$Cr	205.559	5.4520	0.00000	4.0340	1.5265	22.739 ppb
		5.4070	0.00000	4.0980	1.4115	17.201 ppb
$Pb	220.353	17.692	14.681	0.00000	3.2606	419.56 ppb
		17.448	14.653	0.00000	3.0443	388.15 ppb
$Cd	226.502	10.043	0.00000	10.739	-0.84585	8.4742 ppb
		10.032	0.00000	10.705	-0.82254	8.8712 ppb
$Ba	233.527	29.831	0.00000	8.9200	22.514	390.56 ppb
		29.724	0.00000	9.0120	22.302	387.50 ppb
$Fe	259.940	0.78700	0.00000	0.54700	0.29402	202.02 ppb
		0.78600	0.00000	0.54500	0.29500	202.88 ppb
$Ag	328.068	23.120	0.00000	23.020	0.23096	18.183 ppb
		23.147	0.00000	22.962	0.31398	19.519 ppb
$Al	396.152	7.3090	5.7830	0.00000	1.6107	402.60 ppb
		7.3240	5.7910	0.00000	1.6174	404.61 ppb

----- 22:27:24 8/ 3/95 ----- Method: ILMO202

Sample CRII- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for
Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	35.51/	79%	$Se	45.19/	120%	$Cr	19.93/	20%	$Pb	403.6/	5.5%
$Cd	8.638/	3.2%	$Ba	389.0/	0.55%	$Fe	202.5/	0.30%	$Ag	18.91/	5.0%
$Al	403.6/	0.35%									

137

Measurements for PBS 1070- - 1

```
-----------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  2.2330 0.00000  2.7960-0.56791  7.9203 ppb
              2.2040 0.00000  2.7750-0.57622  3.8324 ppb

$Se  196.026  4.6160 0.00000  5.2490-0.78700  9.8706 ppb
              4.5700 0.00000  5.2600-0.85160 -15.135 ppb

$Cr  205.559  4.9890 0.00000  4.0280  1.0445-0.48274 ppb
              4.9530 0.00000  4.0530 0.98014 -3.5824 ppb

$Pb  220.353  14.651  14.574 0.00000 0.32192 -7.0520 ppb
              14.603  14.684 0.00000 0.16367 -30.025 ppb

$Cd  226.502  9.4740 0.00000  10.647 -1.3293 0.24163 ppb
              9.4100 0.00000  10.566 -1.3121 0.53503 ppb

$Ba  233.527  4.4420 0.00000  8.9290 -4.5144 0.98933 ppb
              4.4140 0.00000  8.8810 -4.4931  1.2961 ppb

$Fe  259.940 0.54300 0.00000 0.54300 0.05654 -2.9898 ppb
             0.54700 0.00000 0.54300 0.06049 0.42711 ppb

$Ag  328.068  21.823 0.00000  22.960-0.97712 -1.2656 ppb
              21.873 0.00000  22.888-0.85797 0.65246 ppb

$Al  396.152  5.6620  5.5150 0.00000 0.28004  7.8718 ppb
              5.6500  5.5440 0.00000 0.24047 -3.8643 ppb

----- 22:32:28  8/ 3/95 -----   Method: ILMO202

Sample PBS 1070-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2
 for Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As   5.876/   49% $Se  -2.632/  670% $Cr  -2.032/  110% $Pb  -18.54/   88%

$Cd  0.3885/   53% $Ba   1.143/   19% $Fe  -1.281/  190% $Ag -0.3070/  440%

$Al   2.004/  410%

Measurements for LCSS #5 -8/1 TS-                  1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  2.8900 0.00000  2.8660 0.04128  307.87 ppb
              2.9180 0.00000  2.9360-0.00231  286.41 ppb

$Se  196.026  5.1190 0.00000  5.4530-0.44812  141.04 ppb
              5.2170 0.00000  5.3680-0.24072  221.32 ppb

$Cr  205.559  9.8530 0.00000  4.3860  5.7974  228.49 ppb
              9.8030 0.00000  4.4150  5.7141  224.47 ppb
```

$Pb	220.353	18.362	14.772	0.00000	3.8405	503.74	ppb
		18.655	14.624	0.00000	4.2822	567.87	ppb
$Cd	226.502	30.346	0.00000	10.714	19.758	359.32	ppb
		30.421	0.00000	10.750	19.797	359.99	ppb
$Ba	233.527	94.013	0.00000	9.0400	90.689	1373.2	ppb
		94.081	0.00000	9.1630	90.630	1372.3	ppb
$Fe	259.940	25.489	0.00000	0.56500	24.719	21288	ppb
		25.373	0.00000	0.56500	24.604	21189	ppb
$Ag	328.068	46.606	0.00000	23.257	22.936	383.70	ppb
		46.462	0.00000	23.268	22.785	381.27	ppb
$Al	396.152	51.395	5.9660	0.00000	43.974	12970	ppb
		51.167	5.9660	0.00000	43.754	12904	ppb

----- 22:37:32 8/ 3/95 ----- Method: ILMO202

Sample LCSS #5 -8/1 TS- 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	297.1/	5.1%	$Se	181.2/	31%	$Cr	222.2/	1.3%	$Pb	528.0/	8.6%
$Cd	356.0/	0.14%	$Ba	1373/	0.04%	$Fe	21240/	0.33%	$Ag	388.9/	0.45%
$Al	12940/	0.36%									

Measurements for 30046- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4140	0.00000	2.9780	-0.56895	7.4093	ppb
		2.4410	0.00000	2.9410	-0.50253	40.112	ppb
$Se	196.026	4.7020	0.00000	5.4180	-0.88107	-26.541	ppb
		4.7170	0.00000	5.4540	-0.90487	-35.753	ppb
$Cr	205.559	5.9870	0.00000	4.2030	1.9126	41.337	ppb
		5.9270	0.00000	4.1420	1.9136	41.388	ppb
$Pb	220.353	16.702	14.493	0.00000	2.4573	302.94	ppb
		16.770	14.454	0.00000	2.5645	318.50	ppb
$Cd	226.502	9.9210	0.00000	10.477	-0.70395	10.890	ppb
		9.9840	0.00000	10.498	-0.66138	11.615	ppb
$Ba	233.527	19.701	0.00000	8.7820	11.881	237.29	ppb
		19.675	0.00000	8.8450	11.786	235.93	ppb
$Fe	259.940	10.978	0.00000	0.54800	10.377	8906.6	ppb
		11.033	0.00000	0.54800	10.431	8953.6	ppb

```
$Ag  328.068   21.516 0.00000  22.553-0.87946 0.30658 ppb
               21.546 0.00000  22.464-0.76324  2.1775 ppb

$Al  396.152   46.964  8.5280 0.00000  37.226   10968 ppb
               47.128  8.5490 0.00000  37.364   11009 ppb

----- 22:42:35  8/ 3/95 -----   Method: ILMO202
      Q501.615
Sample 30046-           -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As   23.76/   97% $Se  -31.15/   21% $Cr   39.58/ 0.07% $Pb   304.1/  3.6%

$Cd   9.735/  5.2% $Ba   236.6/ 0.41% $Fe    8930/ 0.37% $Ag   3.921/   34%

$Al   10990/ 0.26%


Measurements for 30048-           -                    1

------------------------------------------------
  Elements of SIMULTANEOUS


$As  188.979   2.3750 0.00000  2.9410-0.57103  6.3873 ppb
               2.4160 0.00000  2.9380-0.52536  28.871 ppb

$Se  196.026   4.6630 0.00000  5.3760-0.87767 -25.225 ppb
               4.6600 0.00000  5.3640-0.86747 -21.277 ppb

$Cr  205.559   6.1190 0.00000  4.0900  2.1710  53.787 ppb
               6.0880 0.00000  4.0920  2.1362  52.110 ppb

$Pb  220.353   17.093  14.466 0.00000  2.8760  363.72 ppb
               17.048  14.462 0.00000  2.8349  357.76 ppb

$Cd  226.502   9.8660 0.00000  10.620-0.90463  7.4732 ppb
               9.8920 0.00000  10.565-0.82254  8.8712 ppb

$Ba  233.527   16.990 0.00000  8.8680  8.9041  194.39 ppb
               16.940 0.00000  8.7600  8.9658  195.28 ppb

$Fe  259.940   10.394 0.00000 0.54700  9.8001  8408.6 ppb
               10.360 0.00000 0.54600  9.7674  8380.4 ppb

$Ag  328.068   21.564 0.00000  22.507-0.78765  1.7844 ppb
               21.625 0.00000  22.508-0.72906  2.7278 ppb

$Al  396.152   41.233  8.2520 0.00000  31.963  9406.5 ppb
               41.095  8.2650 0.00000  31.817  9363.2 ppb

----- 22:47:39  8/ 3/95 -----   Method: ILMO202
                                                    140
Sample 30048-           -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma
```

$As	17.63/	90%	$Se	-23.25/	12%	$Cr	51.27/	2.3%	$Pb	355.1/	1.2%
$Cd	6.745/	15%	$Ba	194.8/	0.32%	$Fe	8394/	0.24%	$Ag	4.774/	14%
$Al	9385/	0.33%									

Measurements for 30049- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5460	0.00000	3.0390	-0.49527	43.689 ppb
		2.4830	0.00000	3.0100	-0.53055	26.316 ppb
$Se	196.026	4.7130	0.00000	5.3680	-0.81193	0.21935 ppb
		4.7250	0.00000	5.4220	-0.86953	-18.206 ppb
$Cr	205.559	7.0620	0.00000	4.1450	3.1077	98.910 ppb
		7.1210	0.00000	4.1630	3.1509	100.99 ppb
$Pb	220.353	26.838	14.423	0.00000	12.680	1786.9 ppb
		26.960	14.572	0.00000	12.653	1783.0 ppb
$Cd	226.502	10.550	0.00000	10.477	-0.06643	21.746 ppb
		10.679	0.00000	10.579	-0.03906	22.212 ppb
$Ba	233.527	92.015	0.00000	8.9210	88.689	1344.3 ppb
		92.640	0.00000	8.9170	89.359	1354.0 ppb
$Fe	259.940	24.909	0.00000	0.55900	24.151	20797 ppb
		25.084	0.00000	0.55800	24.325	20948 ppb
$Ag	328.068	21.468	0.00000	22.608	-0.98005	-1.3128 ppb
		21.489	0.00000	22.573	-0.92536	-0.43236 ppb
$Al	396.152	43.715	8.1260	0.00000	34.479	10153 ppb
		44.001	8.1570	0.00000	34.725	10226 ppb

----- 22:52:40 8/ 3/95 ----- Method: ILMO202

Sample 30049- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	35.00/	35%	$Se	-8.993/	150%	$Cr	95.78/	1.5%	$Pb	1779/	0.16%
$Cd	18.43/	1.7%	$Ba	1349/	0.51%	$Fe	20870/	0.51%	$Ag	5.389/	12%
$Al	10190/	0.51%									

Measurements for 30050- - 1

Elements of SIMULTANEOUS

```
$As  188.979  2.6450 0.00000  3.1950-0.55442  14.563 ppb
              2.6560 0.00000  3.1500-0.49630  43.178 ppb

$Se  196.026  4.8230 0.00000  5.5760-0.92300 -42.773 ppb
              4.8180 0.00000  5.4850-0.82553 -5.0450 ppb

$Cr  205.559  7.1220 0.00000  4.2850  3.0233  94.845 ppb
              7.0200 0.00000  4.2860  2.9146  89.611 ppb

$Pb  220.353  22.990  14.475 0.00000  8.7734  1219.8 ppb
              23.162  14.534 0.00000  8.8866  1236.3 ppb

$Cd  226.502  10.694 0.00000  10.557-0.00156  22.851 ppb
              10.790 0.00000  10.416 0.23865  26.941 ppb

$Ba  233.527  72.164 0.00000  8.6990  67.800  1043.3 ppb
              72.805 0.00000  8.7300  68.449  1052.6 ppb

$Fe  259.940  33.010 0.00000 0.56200  32.164   27715 ppb
              33.176 0.00000 0.56100  32.329   27858 ppb

$Ag  328.068  21.150 0.00000  22.353 -1.0416 -2.3033 ppb
              21.069 0.00000  22.293 -1.0621 -2.6334 ppb

$Al  396.152  67.516  11.866 0.00000  53.837   15895 ppb
              67.836  11.854 0.00000  54.157   15990 ppb

----- 22:57:42  8/ 3/95 -----   Method: ILMO202

Sample 30050-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As   28.87/   70% $Se  -23.91/  110% $Cr   86.67/  4.3% $Pb    1218/ 0.95%

$Cd   20.17/   14% $Ba    1048/ 0.63% $Fe   27790/ 0.36% $Ag   5.867/  3.5%

$Al   15940/ 0.42%

Measurements for 30050D-          -                  1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  2.7100 0.00000  3.1750-0.46621  57.997 ppb
              2.6490 0.00000  3.1820-0.53678  23.250 ppb

$Se  196.026  4.8420 0.00000  5.6040-0.93320 -46.721 ppb
              4.8760 0.00000  5.6020-0.89240 -30.928 ppb

$Cr  205.559  7.1740 0.00000  4.3720  2.9864  93.066 ppb
              7.1320 0.00000  4.2980  3.0201  94.692 ppb

$Pb  220.353  23.430  14.729 0.00000  8.9597  1246.9 ppb
              23.378  14.826 0.00000  8.8105  1225.2 ppb

$Cd  226.502  10.653 0.00000  10.582-0.06846  21.712 ppb
```

		10.706	0.00000	10.594	-0.02690	22.420	ppb
$Ba	233.527	66.820	0.00000	8.8800	61.920	958.52	ppb
		67.091	0.00000	8.9020	62.185	962.34	ppb
$Fe	259.940	31.006	0.00000	0.56700	30.176	25999	ppb
		31.134	0.00000	0.56500	30.304	26110	ppb
$Ag	328.068	21.405	0.00000	22.639	-1.0718	-2.7907	ppb
		21.421	0.00000	22.588	-1.0064	-1.7373	ppb
$Al	396.152	65.292	11.993	0.00000	51.568	15222	ppb
		65.527	12.003	0.00000	51.785	15287	ppb

----- 23:02:43 8/ 3/95 ----- Method: ILMO202

Sample 30050D-(RFD) - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	40.62/	60%	$Se	-38.82/	29%	$Cr	(2.2%) 88.677/	1.3%	$Pb	(0.7%) 1227/	1.2%
$Cd	(1.3%) 17.64/	2.8%	$Ba	(8.7%) 960.4/	0.28%	$Fe	26050/	0.30%	$Ag	<1CRDL 5.552/	14%
$Al	15260/	0.30%									

Measurements for CCV2 - - 1

Elements of SIMULTANEOUS

$As	188.979	3.2560	0.00000	2.8950	0.39103	480.07	ppb
		3.2930	0.00000	2.8960	0.42839	498.47	ppb
$Se	196.026	5.7480	0.00000	5.2640	0.47897	499.89	ppb
		5.8480	0.00000	5.3340	0.51297	513.05	ppb
$Cr	205.559	14.630	0.00000	4.2540	10.975	477.93	ppb
		14.677	0.00000	4.2030	11.079	482.91	ppb
$Pb	220.353	21.609	14.787	0.00000	7.0777	973.68	ppb
		21.789	14.719	0.00000	7.3261	1009.7	ppb
$Cd	226.502	37.058	0.00000	10.748	26.526	474.57	ppb
		37.238	0.00000	10.749	26.707	477.66	ppb
$Ba	233.527	35.000	0.00000	9.0530	27.873	467.80	ppb
		35.173	0.00000	9.0630	28.047	470.30	ppb
$Fe	259.940	6.0140	0.00000	0.54900	5.4641	4665.4	ppb
		6.0250	0.00000	0.54800	5.4760	4675.6	ppb
$Ag	328.068	52.227	0.00000	22.992	28.685	476.24	ppb
		52.305	0.00000	22.865	28.885	479.47	ppb
$Al	396.152	8.6070	6.6420	0.00000	2.0343	528.27	ppb
		8.6010	6.6440	0.00000	2.0266	525.98	ppb

----- 23:07:45 8/ 3/95 ----- Method: ILMO202

Sample CCV2 - - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	489.3/	2.7%	$Se	506.5/	1.8%	$Cr	479.5/	0.73%	$Pb	991.4/	2.6%
$Cd	475.3/	0.46%	$Ba	469.1/	0.38%	$Fe	4670/	0.16%	$Ag	479.3/	0.48%
$Al	527.1/	0.31%									

Measurements for CCB2- - 1

Elements of SIMULTANEOUS

$As	188.979	2.1880	0.00000	2.7450	-0.56169	10.986 ppb
		2.1720	0.00000	2.7060	-0.53782	22.739 ppb
$Se	196.026	4.5540	0.00000	5.1750	-0.77340	15.135 ppb
		4.5500	0.00000	5.2490	-0.86180	-19.083 ppb
$Cr	205.559	4.8760	0.00000	3.9730	0.98330	-3.4300 ppb
		4.9530	0.00000	4.0100	1.0255	-1.3974 ppb
$Pb	220.353	14.629	14.501	0.00000	0.37300	0.36350 ppb
		14.744	14.307	0.00000	0.68250	45.293 ppb
$Cd	226.502	9.3310	0.00000	10.451	-1.2756	1.1564 ppb
		9.3140	0.00000	10.501	-1.3435	0.00000 ppb
$Ba	233.527	4.3110	0.00000	8.8360	-4.5548	0.40647 ppb
		4.4030	0.00000	8.8540	-4.4760	1.5415 ppb
$Fe	259.940	0.54600	0.00000	0.54000	0.06247	2.1356 ppb
		0.54500	0.00000	0.54000	0.06148	1.2813 ppb
$Ag	328.068	21.710	0.00000	22.739	-0.87164	0.43236 ppb
		21.735	0.00000	22.724	-0.83258	1.0612 ppb
$Al	396.152	5.6090	5.4490	0.00000	0.29258	11.593 ppb
		5.6200	5.4500	0.00000	0.30223	14.455 ppb

----- 23:12:47 8/ 3/95 ----- Method: ILMO202

Sample CCB2- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for
Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	16.86/	49%	$Se	-1.974/	+o***%	$Cr	-2.414/	60%	$Pb	22.82/	140%
$Cd	0.5779/	140%	$Ba	0.9740/	82%	$Fe	1.708/	35%	$Ag	0.7473/	59%
$Al	13.02/	16%									

Measurements for 30050S- - 1

Elements of SIMULTANEOUS

$As	188.979	6.4020	0.00000	3.2260	3.3125	1918.5 ppb
		6.4210	0.00000	3.1980	3.3612	1942.5 ppb
$Se	196.026	9.4010	0.00000	5.6330	4.2009	1940.6 ppb
		9.4110	0.00000	5.6030	4.2463	1958.1 ppb
$Cr	205.559	11.039	0.00000	4.3780	7.0569	289.16 ppb
		11.156	0.00000	4.3000	7.2625	299.07 ppb
$Pb	220.353	26.072	14.712	0.00000	11.623	1633.5 ppb
		26.119	14.605	0.00000	11.777	1655.9 ppb
$Cd	226.502	13.340	0.00000	10.656	2.5799	66.810 ppb
		13.179	0.00000	10.617	2.4563	64.704 ppb
$Ba	233.527	179.71	0.00000	9.0440	181.89	2687.6 ppb
		179.88	0.00000	9.0450	182.07	2690.2 ppb
$Fe	259.940	32.940	0.00000	0.56700	32.089	27651 ppb
		32.910	0.00000	0.56600	32.061	27626 ppb
$Ag	328.068	24.253	0.00000	22.598	1.7496	42.630 ppb
		24.198	0.00000	22.597	1.6969	41.781 ppb
$Al	396.152	75.272	11.929	0.00000	61.260	18097 ppb
		75.237	11.930	0.00000	61.225	18087 ppb

----- 23:17:48 8/ 3/95 ----- Method: ILMO202

Sample 30050S-(RQC) - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	1931/	0.88%	$Se	1949/	0.64%	$Cr	(101) 288.6/	2.4%	$Pb	(83.2) 16347/	0.97%
$Cd	(91.8) 61.06/	2.4%	$Ba	(92.0) 2689/	0.07%	$Fe	27640/	0.06%	$Ag	(89.3) 50.50/	1.2%
$Al	18090/	0.04%									

Measurements for 30052- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2950	0.00000	2.9140-0.62603	-20.695	ppb
		2.3180	0.00000	2.8830-0.56999	6.8983	ppb
$Se	196.026	4.6130	0.00000	5.2980-0.84593	-12.941	ppb
		4.6640	0.00000	5.3220-0.81533	-1.0967	ppb

```
$Cr   205.559   5.7400 0.00000   4.0470   1.8166   36.713 ppb
                5.6770 0.00000   4.1160   1.6774   30.006 ppb

$Pb   220.353   15.661   14.591 0.00000   1.3165   137.33 ppb
                15.731   14.565 0.00000   1.4127   151.29 ppb

$Cd   226.502   10.573 0.00000   10.546-0.11305   20.953 ppb
                10.602 0.00000   10.532-0.06947   21.695 ppb

$Ba   233.527   13.213 0.00000   8.8640   4.8889   136.52 ppb
                13.258 0.00000   8.8550   4.9464   137.35 ppb

$Fe   259.940   4.9980 0.00000 0.54600   4.4618   3800.0 ppb
                4.9970 0.00000 0.54600   4.4608   3799.2 ppb

$Ag   328.068   21.893 0.00000   22.889-0.83941 0.95118 ppb
                21.909 0.00000   22.853-0.78863   1.7687 ppb

$Al   396.152   19.809   6.8410 0.00000   12.651   3677.8 ppb
                19.783   6.8650 0.00000   12.603   3663.5 ppb

----- 23:22:52  8/ 3/95 -----    Method: ILMO202

Sample 30052-           -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As  -6.898/  280% $Se  -7.019/  120% $Cr   32.60/    15% $Pb   142.1/   6.9%

$Cd   20.68/  2.5% $Ba   136.9/ 0.43% $Fe    3800/ 0.02% $Ag   2.500/    23%

$Al    3671/ 0.28%


Measurements for 30052L-           -                    1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As   188.979   2.2200 0.00000   2.8000-0.58556-0.76648 ppb
                2.2420 0.00000   2.8410-0.60528 -10.475 ppb

$Se   196.026   4.6170 0.00000   5.3750-0.92867 -44.966 ppb
                4.5930 0.00000   5.3180-0.89127 -30.489 ppb

$Cr   205.559   5.1510 0.00000   4.0780   1.1626   5.2085 ppb
                5.2230 0.00000   4.0390   1.2797   10.849 ppb

$Pb   220.353   14.875   14.705 0.00000 0.41507   6.4704 ppb
                14.806   14.682 0.00000 0.36900-0.21810 ppb

$Cd   226.502   9.6640 0.00000   10.607 -1.0962   4.2112 ppb
                9.7490 0.00000   10.628 -1.0313   5.3158 ppb

$Ba   233.527   6.1070 0.00000   8.9470 -2.7616   26.252 ppb
                6.1040 0.00000   8.9120 -2.7276   26.743 ppb
```

see optima Bm 9/6/95

```
$Fe  259.940  1.4250 0.00000 0.54400 0.92828  749.58 ppb
              1.4290 0.00000 0.54200 0.93422  754.71 ppb

$Ag  328.068  21.994 0.00000  22.971-0.82086  1.2499 ppb
              21.862 0.00000  23.017-0.99470 -1.5486 ppb

$Al  396.152  8.4130  5.7660 0.00000  2.6924  723.49 ppb
              8.4320  5.7940 0.00000  2.6837  720.91 ppb

----- 23:27:55  8/ 3/95 -----   Method: ILMO202

Sample 30052L-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 f
or Simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As  -5.621/  120% $Se  -37.73/   27% $Cr   7.878/   51% $Pb   2.693/  180%

$Cd   4.636/   17% $Ba   26.50/  1.3% $Fe   752.1/ 0.48% $Ag  0.0763/+o***%

$Al   722.2/ 0.25%

Measurements for ICSA -          -                  1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  4.2110 0.00000  4.8980-0.69660 -55.442 ppb
              4.1960 0.00000  4.8880-0.70179 -57.997 ppb

$Se  196.026  8.1830 0.00000  8.8640-0.86407 -19.961 ppb
              8.1720 0.00000  8.9440-0.94454 -51.108 ppb

$Cr  205.559  9.5160 0.00000  8.3930  1.2154  7.7492 ppb
              9.5160 0.00000  8.4620  1.1426  4.2430 ppb

$Pb  220.353  20.172  17.119 0.00000  3.3027  425.66 ppb
              20.216  17.219 0.00000  3.2466  417.52 ppb

$Cd  226.502  12.888 0.00000  12.154 0.60353  33.155 ppb
              12.828 0.00000  11.991 0.70792  34.932 ppb

$Ba  233.527  5.2060 0.00000  9.3960 -4.1983  5.5449 ppb
              5.2170 0.00000  9.3260 -4.1121  6.7873 ppb

$Fe  259.940  196.14 0.00000 0.70800  193.44  166940 ppb
              195.96 0.00000 0.70600  193.26  166790 ppb

$Ag  328.068  20.741 0.00000  24.128 -3.1745 -36.640 ppb
              20.787 0.00000  24.110 -3.1120 -35.634 ppb

$Al  396.152  1671.1  19.057 0.00000  1594.3  472870 ppb
              1669.7  19.003 0.00000  1592.9  472460 ppb

----- 23:32:57  8/ 3/95 -----   Method: ILMO202

Sample ICSA -          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.
```

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	-56.72/	3.2%	$Se	-35.53/	62%	$Cr	-27.38/	9.0%	$Pb	138.0/	4.0%
$Cd	5.677/	22%	$Ba	6.166/	14%	$Fe	166900/	0.07%	$Ag	13.92/	4.9%
$Al	472700/	0.06%									

Measurements for ICSAB- - 1

Elements of SIMULTANEOUS

$As	188.979	4.2370	0.00000	4.8260	-0.59490	-5.3654	ppb
		4.2590	0.00000	4.8150	-0.56065	11.497	ppb
$Se	196.026	8.2320	0.00000	8.8410	-0.75980	20.399	ppb
		8.2120	0.00000	8.8440	-0.78587	10.309	ppb
$Cr	205.559	18.465	0.00000	8.5880	10.449	452.58	ppb
		18.300	0.00000	8.4970	10.371	448.82	ppb
$Pb	220.353	25.952	17.039	0.00000	9.1720	1277.7	ppb
		26.170	17.081	0.00000	9.3483	1303.3	ppb
$Cd	226.502	61.542	0.00000	12.142	49.929	873.09	ppb
		61.394	0.00000	12.061	49.861	871.93	ppb
$Ba	233.527	33.199	0.00000	9.3140	25.679	436.17	ppb
		33.251	0.00000	9.4410	25.599	435.02	ppb
$Fe	259.940	195.63	0.00000	0.70300	192.93	166510	ppb
		195.60	0.00000	0.70200	192.91	166490	ppb
$Ag	328.068	76.350	0.00000	23.955	51.303	840.37	ppb
		76.348	0.00000	23.933	51.323	840.68	ppb
$Al	396.152	1673.7	18.957	0.00000	1596.9	473630	ppb
		1674.4	18.923	0.00000	1597.6	473850	ppb

----- 23:38:01 8/ 3/95 ----- Method: ILMO202

Sample ICSAB- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	3.066/	390%	$Se	15.35/	46%	$Cr	417.4/	0.64%	$Pb	1006/	1.8%
$Cd	844.2/	0.10%	$Ba	435.6/	0.19%	$Fe	166500/	0.01%	$Ag	890.5/	0.02%
$Al	473700/	0.03%									

Measurements for CRI- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2430	0.00000	2.7110	-0.46932	56.464 ppb
		2.2510	0.00000	2.7850	-0.53782	22.739 ppb
$Se	196.026	4.5850	0.00000	5.1660	-0.72806	32.683 ppb
		4.6080	0.00000	5.1750	-0.71220	38.824 ppb
$Cr	205.559	5.3370	0.00000	3.9660	1.4769	20.351 ppb
		5.4160	0.00000	3.9840	1.5413	23.451 ppb
$Pb	220.353	17.371	14.476	0.00000	3.1444	402.69 ppb
		17.473	14.569	0.00000	3.1534	404.00 ppb
$Cd	226.502	9.9580	0.00000	10.537	-0.72726	10.494 ppb
		9.9720	0.00000	10.601	-0.77794	9.6306 ppb
$Ba	233.527	29.477	0.00000	8.8540	22.208	386.14 ppb
		29.543	0.00000	8.8810	22.249	386.74 ppb
$Fe	259.940	0.79800	0.00000	0.53900	0.31282	218.25 ppb
		0.79800	0.00000	0.53900	0.31282	218.25 ppb
$Ag	328.068	22.992	0.00000	22.646	0.47121	22.050 ppb
		22.864	0.00000	22.663	0.32960	19.770 ppb
$Al	396.152	7.3390	5.6960	0.00000	1.7236	436.10 ppb
		7.3330	5.7100	0.00000	1.7043	430.37 ppb

----- 23:43:00 8/ 3/95 ----- Method: ILMO202

Sample CRI- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	39.60/ 60%	$Se	35.75/ 12%	$Cr	21.86/ 10%	$Pb	403.1/ 0.23%
$Cd	10.02/ 6.1%	$Ba	386.4/ 0.11%	$Fe	218.3/ 0.00%	$Ag	20.98/ 7.7%
$Al	433.2/ 0.93%						

Measurements for CCV3- - 1

Elements of SIMULTANEOUS

$As	188.979	3.2550	0.00000	2.8420	0.44499	506.64 ppb
		3.2930	0.00000	2.8930	0.43150	500.00 ppb
$Se	196.026	5.8360	0.00000	5.2740	0.56737	534.11 ppb
		5.7990	0.00000	5.2980	0.49823	507.35 ppb
$Cr	205.559	14.523	0.00000	4.1030	11.022	480.17 ppb
		14.656	0.00000	4.0780	11.189	488.20 ppb
$Pb	220.353	21.490	14.580	0.00000	7.1658	986.48 ppb

		21.287	14.830	0.00000	6.7121	920.61	ppb
$Cd	226.502	36.978		0.00000	10.560	26.635	476.44 ppb
		37.435		0.00000	10.671	26.986	482.41 ppb
$Ba	233.527	35.040		0.00000	8.9450	28.031	470.07 ppb
		35.546		0.00000	8.9550	28.559	477.68 ppb
$Fe	259.940	6.0000		0.00000	0.54300	5.4562	4658.5 ppb
		6.0690		0.00000	0.54200	5.5255	4718.3 ppb
$Ag	328.068	52.385		0.00000	22.744	29.081	482.63 ppb
		52.551		0.00000	22.687	29.299	486.13 ppb
$Al	396.152	8.5760	6.6150	0.00000	2.0304	527.12	ppb
		8.5880	6.6060	0.00000	2.0507	533.13	ppb

----- 23:48:02 8/ 3/95 ----- Method: ILMO202

Sample CCV3- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	503.3/	0.93%	$Se	520.7/	3.6%	$Cr	483.2/	1.2%	$Pb	953.2/	4.9%
$Cd	478.6/	0.88%	$Ba	473.9/	1.1%	$Fe	4688/	0.90%	$Ag	485.8/	0.51%
$Al	530.1/	0.80%									

Measurements for CCB3- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2020	0.00000	2.7290	-0.53055	26.316	ppb
		2.1480	0.00000	2.7620	-0.62084	-18.140	ppb
$Se	196.026	4.4780	0.00000	5.2340	-0.92640	-44.089	ppb
		4.6130	0.00000	5.1230	-0.76093	19.961	ppb
$Cr	205.559	4.8780	0.00000	3.8700	1.0941	1.9055	ppb
		4.8380	0.00000	3.9150	1.0044	-2.4137	ppb
$Pb	220.353	14.273	14.482	0.00000	0.03546	-48.637	ppb
		14.356	14.402	0.00000	0.19873	-24.936	ppb
$Cd	226.502	9.1770	0.00000	10.453	-1.4337	-1.5361	ppb
		9.2330	0.00000	10.589	-1.5148	-2.9168	ppb
$Ba	233.527	4.3340	0.00000	8.8160	-4.5090	1.0660	ppb
		4.3840	0.00000	8.7720	-4.4090	2.5078	ppb
$Fe	259.940	0.58400	0.00000	0.53800	0.10205	36.305	ppb
		0.58300	0.00000	0.53700	0.10205	36.305	ppb
$Ag	328.068	21.624	0.00000	22.646	-0.86481	0.54241	ppb
		21.602	0.00000	22.597	-0.83844	0.96691	ppb

```
$Al  396.152  5.5630  5.4510 0.00000 0.24626 -2.1468 ppb
              5.5730  5.4330 0.00000 0.27328  5.8680 ppb

----- 23:53:02  8/ 3/95 -----   Method: ILMO202

Sample CCB3-            -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As   4.088/  770% $Se  -12.06/  380% $Cr -0.2613/+o***% $Pb  -36.79/   46%

$Cd  -2.233/   44% $Ba   1.787/   57% $Fe   36.30/ 0.00% $Ag  0.7655/   39%

$Al   1.861/  310%


Measurements for 30041-          -                  1

-------------------------------------------------
  Elements of SIMULTANEOUS

$Cd  226.502  10.077 0.00000  10.873-0.94720  6.7483 ppb
              10.015 0.00000  10.910 -1.0475  5.0396 ppb

$Fe  259.940  45.222 0.00000 0.58500  44.225   38127 ppb
              45.214 0.00000 0.58400  44.218   38121 ppb

$Al  396.152  90.340  6.1250 0.00000  81.400   24072 ppb
              90.364  6.1200 0.00000  81.428   24080 ppb

----- 23:58:02  8/ 3/95 -----   Method: ILMO202

Sample 30041-                                  1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.        BCDC1SB

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$Cd -0.5871/  210% $Fe   38120/ 0.01% $Al   24080/ 0.02%


Measurements for 30042     -          -                1

-------------------------------------------------
  Elements of SIMULTANEOUS

$Cd  226.502  9.3940 0.00000  10.015-0.76983  9.7686 ppb
              8.9130 0.00000  10.058 -1.3009 0.72488 ppb

$Fe  259.940  5.7740 0.00000 0.52000  8.2553  4485.1 ppb
              1.1120 0.00000 0.52000 0.64232  502.71 ppb

$Al  396.152  15.510  6.0660 0.00000  9.2510  2669.1 ppb
              6.9540  5.9170 0.00000  1.1388  262.63 ppb
```

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LCK 5/16/94

RLH 8/6/95

----- 23:59:51 8/ 3/95 ----- Method: ILMO202

Sample 30042 - - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	4.823/	120%	$Fe	2494/	110%	$Al	1466/	120%

Auto sampler cup in wrong position RLH 8/4/95

Measurements for 30043 - -

Elements of SIMULTANEOUS

Measurements for 30042- - 1

Elements of SIMULTANEOUS

$Cd	226.502	10.096	0.00000	10.727	-0.77997	9.5960	ppb
		10.031	0.00000	10.669	-0.78706	9.4752	ppb
$Fe	259.940	56.768	0.00000	0.59200	55.642	47984	ppb
		56.905	0.00000	0.58900	55.781	48104	ppb
$Al	396.152	100.34	7.6160	0.00000	89.613	26508	ppb
		100.44	7.6050	0.00000	89.717	26539	ppb

----- 0:17:52 8/ 4/95 ----- Method: ILMO202

Sample 30042- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul. BCDCISP

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	1.368/	7.3%	$Fe	48040/	0.18%	$Al	26520/	0.08%

Measurements for 30043- - 1

Elements of SIMULTANEOUS

$Cd	226.502	10.059	0.00000	10.583	-0.67152	11.443	ppb
		9.8180	0.00000	10.690	-1.0242	5.4366	ppb
$Fe	259.940	25.611	0.00000	0.56700	24.837	21390	ppb
		25.574	0.00000	0.56500	24.803	21360	ppb
$Al	396.152	59.295	5.8190	0.00000	51.739	15273	ppb
		59.275	5.8220	0.00000	51.717	15266	ppb

----- 0:22:06 8/ 4/95 ----- Method: ILMO202

Sample 30043- 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul. BCDC1SG

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	4.806/	88%	$Fe	21380/	0.10%	$Al	15270/	0.03%

Measurements for 30043D- - 1

Elements of SIMULTANEOUS

$Cd	226.502	9.8410	0.00000	10.666	-0.97660	6.2478	ppb
		9.8280	0.00000	10.636	-0.95937	6.5412	ppb
$Fe	259.940	24.425	0.00000	0.56700	23.664	20377	ppb
		24.524	0.00000	0.56400	23.765	20464	ppb
$Al	396.152	54.820	5.8010	0.00000	47.438	13997	ppb
		55.016	5.8030	0.00000	47.626	14053	ppb

----- 0:26:19 8/ 4/95 ----- Method: ILMO202

Sample 30043D- (RPD) - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul. BCDC1SG (DUP)

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	(CSCRDL 2.923/	6.7%	$Fe	20420/	0.30%	$Al	14030/	0.28%

Measurements for 30043S- - 1

Elements of SIMULTANEOUS

$Cd	226.502	12.800	0.00000	10.787	1.8998	55.229	ppb
		12.837	0.00000	10.738	1.9870	56.713	ppb
$Fe	259.940	30.369	0.00000	0.57300	29.539	25450	ppb
		30.233	0.00000	0.57000	29.408	25336	ppb
$Al	396.152	81.815	5.8890	0.00000	73.402	21699	ppb
		81.454	5.8740	0.00000	73.068	21600	ppb

----- 0:30:33 8/ 4/95 ----- Method: ILMO202

Sample 30043S- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul. BCDC1SG (Spike)

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma

(9.37)

$Cd 51.65/ 2.1% $Fe 25390/ 0.32% $Al 21650/ 0.32%

Measurements for 30043L- - 1

Elements of SIMULTANEOUS

$Cd	226.502	9.5980	0.00000	10.661	-1.2178	2.1401 ppb
		9.6450	0.00000	10.765	-1.2756	1.1564 ppb
$Fe	259.940	5.7060	0.00000	0.54900	5.1593	4402.3 ppb
		5.6940	0.00000	0.55000	5.1465	4391.2 ppb
$Al	396.152	16.653	5.5950	0.00000	10.808	3131.1 ppb
		16.654	5.6060	0.00000	10.799	3128.2 ppb

----- 0:34:47 8/ 4/95 ----- Method: ILMO202

Sample 30043L- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul. BCDC13G (Serial Dilution)

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$Cd	0.9008/ 77%	$Fe	4397/ 0.18%	$Al	3130/ 0.06%

Measurements for 30044- - 1

Elements of SIMULTANEOUS

$Cd	226.502	13.156	0.00000	10.679	2.3701	63.237 ppb
		13.049	0.00000	10.702	2.2384	60.994 ppb
$Fe	259.940	19.141	0.00000	0.55900	18.443	15870 ppb
		19.121	0.00000	0.55800	18.424	15854 ppb
$Al	396.152	37.439	8.3710	0.00000	28.187	8286.4 ppb
		37.444	8.3650	0.00000	28.198	8289.5 ppb

----- 0:39:00 8/ 4/95 ----- Method: ILMO202

Sample 30044- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul. RH1D

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$Cd	59.42/ 2.7%	$Fe	15860/ 0.07%	$Al	8288/ 0.03%

Measurements for 30045- - 1

Elements of SIMULTANEOUS

$Cd	226.502	12.066	0.00000	10.490	1.4569	47.687	ppb
		12.186	0.00000	10.397	1.6728	51.363	ppb
$Fe	259.940	25.050	0.00000	0.56200	24.287	20915	ppb
		24.991	0.00000	0.56000	24.231	20867	ppb
$Al	396.152	76.720	10.331	0.00000	64.199	18969	ppb
		76.567	10.300	0.00000	64.082	18934	ppb

----- 0:43:14 8/ 4/95 ----- Method: ILMO202

Sample 30045- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

RH2D

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	45.97/	5.7%	$Fe	20890/	0.16%	$Al	18950/	0.13%

Measurements for CCV4- - 1

Elements of SIMULTANEOUS

$Cd	226.502	38.251	0.00000	10.720	27.764	495.65	ppb
		38.149	0.00000	10.725	27.655	493.80	ppb
$Fe	259.940	6.1850	0.00000	0.55000	5.6323	4810.6	ppb
		6.2030	0.00000	0.55000	5.6501	4826.0	ppb
$Al	396.152	8.9510	6.8030	0.00000	2.2109	580.65	ppb
		8.9350	6.7930	0.00000	2.2051	578.93	ppb

----- 0:47:26 8/ 4/95 ----- Method: ILMO202

Sample CCV4- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	493.9/	0.26%	$Fe	4818/	0.23%	$Al	579.8/	0.21%

Measurements for CCB4- - 1

Elements of SIMULTANEOUS

```
$Cd  226.502  9.4550 0.00000  10.521 -1.2209  2.0883 ppb
              9.3660 0.00000  10.524 -1.3141 0.50051 ppb

$Fe  259.940 0.56700 0.00000 0.54200 0.08127  18.366 ppb
             0.56600 0.00000 0.54300 0.07930  16.657 ppb

$Al  396.152  5.6660  5.5130 0.00000 0.28583  9.5892 ppb
              5.6650  5.5350 0.00000 0.26363  3.0056 ppb

-----  0:51:38  8/ 4/95 -----    Method: ILMO202

Sample CCB4-            -                      1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$Cd   1.291/   87% $Fe   17.51/  6.9% $Al   6.297/   74%


Measurements for ICSA-            -                    1

------------------------------------------------
  Elements of SIMULTANEOUS

$Cd  226.502  12.754 0.00000  11.961 0.66333  34.173 ppb
              12.825 0.00000  11.998 0.69779  34.760 ppb

$Fe  259.940  195.52 0.00000 0.71600  192.81  166400 ppb
              195.37 0.00000 0.70500  192.68  166290 ppb

$Al  396.152  1666.9  18.969 0.00000  1590.3  471680 ppb
              1667.8  18.985 0.00000  1591.1  471930 ppb

-----  0:55:49  8/ 4/95 -----    Method: ILMO202

Sample ICSA-            -                      1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$Cd   6.187/  6.9% $Fe  166300/ 0.05% $Al  471800/ 0.04%


Measurements for ICSAB-           -                    1

------------------------------------------------
  Elements of SIMULTANEOUS

$Cd  226.502  62.553 0.00000  12.267  50.827  888.38 ppb
              63.021 0.00000  12.316  51.252  895.61 ppb

$Fe  259.940  197.86 0.00000 0.72700  195.12  168390 ppb
              198.85 0.00000 0.71600  196.11  169250 ppb
```

```
$Al  396.152  1671.1   19.153 0.00000   1594.1   472820 ppb
              1679.3   19.156 0.00000   1602.1   475170 ppb

-----  1:00:03  8/ 4/95 -----    Method: ILMO202

Sample ICSAB-            -                      1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$Cd    863.3/ 0.58% $Fe   168800/ 0.36% $Al   474000/ 0.35%


Measurements for CIR-            -                    1

------------------------------------------------
  Elements of SIMULTANEOUS

$Cd  226.502  10.006 0.00000  10.651-0.79416   9.3544 ppb
              9.9620 0.00000  10.635-0.82254   8.8712 ppb

$Fe  259.940 0.83900 0.00000 0.54400 0.34844   249.01 ppb
             0.83900 0.00000 0.54200 0.35042   250.72 ppb

$Al  396.152  7.3360  5.7510 0.00000  1.6676   419.49 ppb
              7.3510  5.7770 0.00000  1.6570   416.34 ppb

-----  1:04:15  8/ 4/95 -----    Method: ILMO202

Sample CIR-CCI           -                      1 #MEAS.=  3 for Seq., #MEAS.= 2 for
Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$Cd    9.070/  3.8% $Fe    249.9/ 0.48% $Al    417.9/ 0.53%


Measurements for CCV5-           -                    1

------------------------------------------------
  Elements of SIMULTANEOUS

$Cd  226.502  38.398 0.00000  10.779  27.853   497.17 ppb
              38.094 0.00000  10.852  27.471   490.66 ppb

$Fe  259.940  6.2780 0.00000 0.54900  5.7253   4890.9 ppb
              6.2480 0.00000 0.54800  5.6966   4866.1 ppb

$Al  396.152  8.8060  6.7500 0.00000  2.1221   554.32 ppb
              8.8200  6.7660 0.00000  2.1202   553.74 ppb

-----  1:08:28  8/ 4/95 -----    Method: ILMO202

Sample CCV5-             -                      1 #MEAS.=  3 for Seq., #MEAS.= 2 for
```

Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	493.1/	0.93%	$Fe	4878/	0.36%	$Al	554.0/	0.07%

Measurements for CCB5- - 1

Elements of SIMULTANEOUS

$Cd	226.502	9.3120	0.00000	10.469	-1.3131	0.51777	ppb
		9.3110	0.00000	10.520	-1.3658	-0.37970	ppb
$Fe	259.940	0.55600	0.00000	0.54200	0.07039	8.9694	ppb
		0.55600	0.00000	0.54100	0.07138	9.8236	ppb
$Al	396.152	5.6070	5.4820	0.00000	0.25881	1.5743	ppb
		5.6080	5.4650	0.00000	0.27618	6.7268	ppb

----- 1:12:40 8/ 4/95 ----- Method: ILMO202

Sample CCB5- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$Cd	0.0674/	940%	$Fe	9.396/	6.4%	$Al	4.151/	88%

#010

Run #3

9501.648
CERCLA
As, Pb
8/7/95

ANALYZE

08/07/95
11:02:07

Method Name: 9508071101 Read delay: 15 Rinse time: 0
Format Name: clpf Replicates: 2 Data Disp: SPEC1
Comments: Standard Condition Default Values

Result Name: 9508071101	Store Result:	Yes	No	Append
Spectr Name: 9508071101	Store Spectrum:	Yes	No	Append
Source Name: XL1000	Global Source:	Yes	No	
IEC Name: stdcond	InterElem Corr:	Off	On	
	Resolution:	Low	Normal	High
	Scanning:	Off	On	
	Processing Mode:	Peak	Area	Multicomp-Spec-Fit
	Integration Mode:	Auto	Manual	
	Auto Int Samp Time:	Min: 0.2	Max: 50	

Command?

F1	F2	F3	F4	F5	F10	F11	F12
Manual			Calib Spectrom	Repro-cessing	MSF Data	IEC Data	Optimize

08/0/'95 11:04
blank

rep	1	AGILM	sf	-11.5	
rep	1	PBILM	sf	-0.5	
rep	2	AGILM	sf	-12.0	
rep	2	PBILM	sf	-4.1	

08/0/'95 11:04
blank

AGILM	av	-11.76 sf	sd	0.328	%cv	2.79
PBILM	av	-2.29 sf	sd	2.582	%cv	112.8

08/0/'95 11:07
#1 standard

rep	1	AGILM	sf	622.5	
rep	1	PBILM	sf	2244.2	
rep	2	AGILM	sf	623.3	
rep	2	PBILM	sf	2261.5	

08/0/'95 11:08
#1 standard

AGILM	av	622.91 sf	sd	0.537	%cv	0.09	conc	1000.0
PBILM	av	2252.84 sf	sd	12.184	%cv	0.54	conc	2000.0

08/0/'95 11:10
ICV

rep	1	AGILM	conc	1071.05	ppb
rep	1	PBILM	conc	1050.76	ppb
rep	2	AGILM	conc	1084.66	ppb
rep	2	PBILM	conc	1062.11	ppb

08/0/'95 11:11
ICV

AGILM	av	1077.86 ppb	sd	9.640	%cv	0.89
PBILM	av	1056.43 ppb	sd	8.020	%cv	0.76

08/0/'95 11:15
ICB

rep	1	AGILM	conc	-0.94	ppb
rep	1	PBILM	conc	0.51	ppb

08/0/'95 11:17
ICB

rep	1	AGILM	conc	-1.42	ppb
rep	1	PBILM	conc	4.17	ppb
rep	2	AGILM	conc	-2.06	ppb
rep	2	PBILM	conc	-2.42	ppb

08/0/'95 11:18
ICB

AGILM	av	-1.74 ppb	sd	0.456	%cv	26.22
PBILM	av	0.88 ppb	sd	4.662	%cv	532.4

08/0/'95 11:20
CCV1

rep	1	AGILM	conc	515.32	ppb

[illegible] ppb

rep	1	PBILM	conc	1002.33	ppb
rep	2	ASILM	conc	507.39	ppb
rep	2	PBILM	conc	1008.59	ppb

08/07/95 11:21
CCV1

ASILM	av	511.36	ppb	sd	5.605 %cv	1.10
PBILM	av	1005.46	ppb	sd	4.428 %cv	0.44

08/07/95 11:23
CCB1

rep	1	ASILM	conc	-1.07	ppb
rep	1	PBILM	conc	3.88	ppb
rep	2	ASILM	conc	4.00	ppb
rep	2	PBILM	conc	1.18	ppb

08/07/95 11:24
CCB1

ASILM	av	1.47	ppb	sd	3.585 %cv	244.1
PBILM	av	2.53	ppb	sd	1.908 %cv	75.38

08/07/95 11:26
ICSH1

rep	1	ASILM	conc	12.96	ppb
rep	1	PBILM	conc	-13.82	ppb
rep	2	ASILM	conc	8.45	ppb
rep	2	PBILM	conc	-7.58	ppb

08/07/95 11:28
ICSH1

ASILM	av	10.71	ppb	sd	3.191 %cv	29.80
PBILM	av	-10.70	ppb	sd	4.415 %cv	41.25

08/07/95 11:29
ICSAB1

rep	1	ASILM	conc	6.19	ppb
rep	1	PBILM	conc	857.88	ppb
rep	2	ASILM	conc	11.76	ppb
rep	2	PBILM	conc	868.18	ppb

08/07/95 11:29
ICSAB1

ASILM	av	8.98	ppb	sd	3.939 %cv	43.89
PBILM	av	863.03	ppb	sd	7.289 %cv	0.84

08/07/95 11:31
CRI1

rep	1	ASILM	conc	19.64	ppb
rep	1	PBILM	conc	6.61	ppb
rep	2	ASILM	conc	21.98	ppb
rep	2	PBILM	conc	7.28	ppb

08/07/95 11:32
CRI1

ASILM	av	20.81	ppb	sd	1.651 %cv	7.93

[illegible]	av	[illegible] ppb	sd	1.651 %cv	[illegible]
PBILM	av	6.94 ppb	sd	0.473 %cv	6.81

08/07/95 11:34
30039 10X

rep	1	PBILM	conc	5257.48 ppb
rep	2	PBILM	conc	5371.85 ppb

08/07/95 11:35
30039 10X

PBILM	av	5314.67 ppb	sd	80.877 %cv	1.52

08/07/95 11:37
30040 10X

rep	1	PBILM	conc	5285.95 ppb
rep	2	PBILM	conc	5293.21 ppb

08/07/95 11:38
30040 10X

PBILM	av	5289.58 ppb	sd	5.132 %cv	0.10

08/07/95 11:40
30033

rep	1	ASILM	conc	13.59 ppb
rep	1	PBILM	conc	65.68 ppb
rep	2	ASILM	conc	17.77 ppb
rep	2	PBILM	conc	65.95 ppb

TC 8-7-95

08/07/95 11:41 ~~RH10SB~~ RH10SG
30033

ASILM	av	15.68 ppb	sd	2.951 %cv	18.82
PBILM	av	65.82 ppb	sd	0.189 %cv	0.29

08/07/95 11:43
30044

rep	1	ASILM	conc	16.12 ppb
rep	1	PBILM	conc	56.22 ppb
rep	2	ASILM	conc	21.49 ppb
rep	2	PBILM	conc	64.55 ppb

08/07/95 11:44 BCDC1SP
30044

ASILM	av	18.81 ppb	sd	3.794 %cv	20.17
PBILM	av	60.38 ppb	sd	5.889 %cv	9.75

08/07/95 11:46
30052

rep	1	ASILM	conc	8.80 ppb
rep	1	PBILM	conc	132.33 ppb
rep	2	ASILM	conc	4.71 ppb
rep	2	PBILM	conc	130.60 ppb

08/07/95 11:47
30052

ASILM	av	6.76 ppb	sd	2.888 %cv	42.74
PBILM	av	131.46 ppb	sd	1.224 %cv	0.93

1.224 %cv

08/07/95 11:49
PBS 1068

rep	1	ASILM	conc	-1.36 ppb	
rep	2	ASILM	conc	0.09 ppb	

08/07/95 11:50 PBS1
PBS 1068

ASILM	av	-0.63 ppb	sd	1.025 %cv	161.4	

08/07/95 11:52
LCSS 8/01

rep	1	ASILM	conc	324.31 ppb	
rep	2	ASILM	conc	334.22 ppb	

08/07/95 11:53 LCSS1
LCSS 8/01

ASILM	av	329.26 ppb	sd	7.008 %cv	2.13

08/07/95 11:57
LCVS

rep	1	ASILM	conc	511.31 ppb	
rep	1	PBILM	conc	994.84 ppb	
rep	2	ASILM	conc	516.98 ppb	
rep	2	PBILM	conc	1008.00 ppb	

08/07/95 11:58
LCVS

ASILM	av	514.15 ppb	sd	4.010 %cv	0.78
PBILM	av	1001.42 ppb	sd	9.305 %cv	0.93

08/07/95 12:02
CCS2

rep	1	ASILM	conc	3.23 ppb	
rep	1	PBILM	conc	1.42 ppb	
rep	2	ASILM	conc	-3.63 ppb	
rep	2	PBILM	conc	1.56 ppb	

08/07/95 12:02
CCS2

ASILM	av	-0.20 ppb	sd	4.850 %cv	2440.
PBILM	av	1.49 ppb	sd	0.096 %cv	6.43

08/07/95 12:06
ICSA

rep	1	PBILM	conc	-12.87 ppb	
rep	2	PBILM	conc	-13.57 ppb	

08/07/95 12:07
ICSA

PBILM	av	-13.22 ppb	sd	0.493 %cv	3.73	164

08/07/95 12:09
ICSAB

rep	1	PBILM	conc	859.87 ppb	

rep 1 PBILM conc 865.87 ppb

rep 2 PBILM conc 870.76 ppb

08/07/95 12:10
ICSAB
PBILM av 865.31 ppb sd 7.700 %cv 0.89

08/07/95 12:11
Sample 001
rep 1 PBILM conc 2.94 ppb

rep 2 PBILM conc 12.79 ppb

ICS-7-95

08/07/95 12:12 CRI
Sample 001
PBILM av 7.87 ppb sd 6.959 %cv 88.48

08/07/95 12:14
CCV3
rep 1 ASILM conc 512.91 ppb
rep 1 PBILM conc 1003.73 ppb

rep 2 ASILM conc 506.34 ppb
rep 2 PBILM conc 1013.26 ppb

08/07/95 12:15
CCV3
ASILM av 510.63 ppb sd 3.233 %cv 0.63
PBILM av 1008.50 ppb sd 6.740 %cv 0.67

08/07/95 12:18
CCB3
rep 1 ASILM conc -1.36 ppb
rep 1 PBILM conc 2.48 ppb

rep 2 ASILM conc -0.83 ppb
rep 2 PBILM conc -1.46 ppb

08/07/95 12:19
CCB3
ASILM av -1.09 ppb sd 0.369 %cv 33.74
PBILM av 0.51 ppb sd 2.785 %cv 545.6

08/07/95 12:27
30026
rep 1 ASILM conc 20.16 ppb

rep 2 ASILM conc 18.75 ppb

08/07/95 12:28 RH7SP
30026
ASILM av 19.46 ppb sd 0.995 %cv 5.11

08/07/95 12:34
30027
rep 1 ASILM conc 20.40 ppb

rep 2 ASILM conc 21.69 ppb

08/07/95 12:35

RH7SG

30027
ASILM av 21.05 ppb sd 0.914 %cv 4.34

08/07/95 12:39
30028
rep 1 ASILM conc 14.95 ppb

rep 2 ASILM conc 20.79 ppb

08/07/95 12:40
30028 RH8SG
ASILM av 17.87 ppb sd 4.128 %cv 23.10

08/07/95 12:41
30029
rep 1 ASILM conc -4.88 ppb

rep 2 ASILM conc -7.51 ppb

08/07/95 12:42
30029 RH8SB
ASILM av -6.20 ppb sd 1.853 %cv 29.91

08/07/95 12:44
30030
rep 1 ASILM conc 32.57 ppb

rep 2 ASILM conc 26.06 ppb

08/07/95 12:45
30030 RH9SB
ASILM av 29.32 ppb sd 4.604 %cv 15.70

08/07/95 12:49
30031
rep 1 ASILM conc 29.10 ppb

rep 2 ASILM conc 30.73 ppb

08/07/95 12:50
30031 RH9SG
ASILM av 29.92 ppb sd 1.152 %cv 3.85

08/07/95 12:52
30032
rep 1 ASILM conc 111.68 ppb

rep 2 ASILM conc 109.16 ppb

08/07/95 12:53
30032 RH10SP
ASILM av 110.42 ppb sd 1.781 %cv 1.61

08/07/95 12:54
30034
rep 1 ASILM conc 110.77 ppb

rep 2 ASILM conc 109.73 ppb

08/07/95 12:55

30034 RH10ASP
AsILM av 110.25 ppb sd 0.735 %cv 0.67

08/07/95 12:57
30035
rep 1 AsILM conc 50.82 ppb
rep 2 AsILM conc 52.42 ppb

08/07/95 12:58 RH10SB
30035
AsILM av 51.62 ppb sd 1.128 %cv 2.18

08/07/95 12:59
30036
rep 1 AsILM conc 34.03 ppb
rep 2 AsILM conc 31.81 ppb

08/07/95 13:00 RH11SG
30036
AsILM av 32.92 ppb sd 1.567 %cv 4.76

08/07/95 13:02
LLV4
rep 1 AsILM conc 498.27 ppb
rep 2 AsILM conc 510.68 ppb

08/07/95 13:04
LLV4
AsILM av 504.48 ppb sd 8.778 %cv 1.74

08/07/95 13:06
LLB4
rep 1 AsILM conc 2.59 ppb
rep 2 AsILM conc -2.53 ppb

08/07/95 13:07
LLB4
AsILM av 0.03 ppb sd 3.617 %cv 11595

08/07/95 13:09 ~~RH11SB~~ TC 8-7-95
30037
rep 1 AsILM conc 30.75 ppb
rep 2 AsILM conc 34.67 ppb

08/07/95 13:10 RH11SB
30037
AsILM av 32.61 ppb sd 2.912 %cv 8.88

08/07/95 13:11
30038
rep 1 AsILM conc 22.15 ppb
rep 2 AsILM conc 13.68 ppb

08/07/95 13:12

RH12SG

30038
ASILM av 17.92 ppb sd 5.991 %cv 33.44

08/07/95 13:14
30039
rep 1 ASILM conc 637.28 ppb
rep 2 ASILM conc 640.30 ppb

08/07/95 13:15 BCDC2SB
30039
ASILM av 638.79 ppb sd 2.137 %cv 0.33

08/07/95 13:17
30040
rep 1 ASILM conc 637.55 ppb
rep 2 ASILM conc 640.02 ppb

08/07/95 13:18 BCDC3SB
30040
ASILM av 638.79 ppb sd 1.749 %cv 0.27

08/07/95 13:21
30041
rep 1 ASILM conc 13.17 ppb
rep 2 ASILM conc 17.42 ppb

08/07/95 13:21 BCDC1SB
30041
ASILM av 15.29 ppb sd 3.009 %cv 19.68

08/07/95 13:22
30043
rep 1 ASILM conc 10.06 ppb
rep 2 ASILM conc 14.28 ppb

08/07/95 13:24 BCDC1SG
30043
ASILM av 12.17 ppb sd 2.987 %cv 24.55

08/07/95 13:26
30043D
rep 1 ASILM conc 12.87 ppb
rep 2 ASILM conc 16.39 ppb

08/07/95 13:27 BCDC1SG (DUP)
30043D
ASILM av 14.63 ppb sd 2.487 %cv 17.00

08/07/95 13:28
30043S
rep 1 ASILM conc 2027.47 ppb

BCDC1SG (spike)

300435
ASILM av 1678.81 ppb sd 493.083 %cv 29.37

08/07/95 13:34
30044
rep 1 ASILM conc 13.69 ppb
rep 2 ASILM conc 18.16 ppb

08/07/95 13:35
30044 RH1D
ASILM av 15.93 ppb sd 3.158 %cv 19.83

08/07/95 13:37
30045
rep 1 ASILM conc 27.68 ppb
rep 2 ASILM conc 20.22 ppb

08/07/95 13:38
30045 RH2D
ASILM av 23.95 ppb sd 5.275 %cv 22.03

08/07/95 13:41
CCV5
rep 1 ASILM conc 489.65 ppb
rep 2 ASILM conc 493.60 ppb

08/07/95 13:42
CCV5
ASILM av 491.63 ppb sd 2.790 %cv 0.57

08/07/95 13:44
CCB5
rep 1 ASILM conc -3.16 ppb
rep 2 ASILM conc 1.20 ppb

08/07/95 13:45
CCB5
ASILM av -0.98 ppb sd 3.083 %cv 315.3

08/07/95 13:47
300439L BCDC2SB serial dilution
rep 1 ASILM conc 124.84 ppb
rep 2 ASILM conc 126.68 ppb

08/07/95 13:48
300439L
ASILM av 125.76 ppb sd 1.302 %cv 1.04

08/07/95 13:52
ICSAB
rep 1 ASILM conc 4.36 ppb
rep 2 ASILM conc 8.46 ppb

08/07/95 13:53

ICSAF
ASILM av 6.41 ppb sd 2.900 %cv 45.25

08/07/95 13:54
ICSA8F
rep 1 ASILM conc 5.86 ppb

rep 2 ASILM conc 9.97 ppb

08/07/95 13:55
ICSA8F
ASILM av 7.92 ppb sd 2.908 %cv 36.72

08/07/95 13:57
CR1F
rep 1 ASILM conc 21.81 ppb

rep 2 ASILM conc 22.90 ppb

08/07/95 13:58
CR1F
ASILM av 22.36 ppb sd 0.767 %cv 3.43

08/07/95 14:00
CCV6
rep 1 ASILM conc 500.56 ppb

rep 2 ASILM conc 505.41 ppb

08/07/95 14:01
CCV6
ASILM av 502.98 ppb sd 3.426 %cv 0.68

08/07/95 14:04
CCB6
rep 1 ASILM conc 0.41 ppb

rep 2 ASILM conc 1.00 ppb

08/07/95 14:05
CCB6
ASILM av 0.70 ppb sd 0.415 %cv 59.10

Se Job 648 / Batch # 4 (30026) → ~~30042~~ 30043 8-4-95 RUN # 1

Element File: SE_CLP_1.GEL Element: Se Wavelength: 196.0
Date: 08/03/95 Time: 13:18 Slit: 2.0 L
Data File: 0803CS13.DAT ID/Wt File: 0803CS13.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 49
Remark 1: SE CLP-5100A GFAA
Remark 2: CALIBRATION STANDARDS S25,S50 IN BOOK #1011
Remark 3: CALIBRATION STANDARDS S10 BY AUTO DILUTION
Remark 4: SE ICV IN BOOK #1011 PAGE #21

Se ID: S0 Seq. No.: 00001 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 13:18
Peak Area (A-s): 0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.003

Auto-zero performed.

Se ID: S5 Seq. No.: 00002 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 13:21
Peak Area (A-s): 0.027 Peak Height (A): 0.036
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.024

Standard number 1 applied. [5.00]
Correlation coefficient: 1.00000 Slope: 0.0048

Se ID: S10 Seq. No.: 00003 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 13:24
Peak Area (A-s): 0.044 Peak Height (A): 0.062
Background Pk Area (A-s): 0.119 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 8.45

Standard number 2 applied. [10.00]
Correlation coefficient: 0.97471 Slope: 0.0042

Se ID: S25 Seq. No.: 00004 A/S Pos.: 38 Date: 08/03/95

Replicate 1 Time: 13:26
Peak Area (A-s): 0.104 Peak Height (A): 0.140
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 24.06

Standard number 3 applied. [25.00]
Correlation coefficient: 0.99820 Slope: 0.0041

171

Se ID: S50 Seq. No.: 00005 A/S Pos.: 40 Date: 08/03/95

Replicate 1 Time: 13:29

Peak Area (A-s): 0.196 Peak Height (A): 0.260
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.077
Blank Corrected Pk Area (A-s): 0.193
Concentration (ug/L): 47.51

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99905 Slope: 0.0039

Se ID: ICV Seq. No.: 00006 A/S Pos.: 1 Date: 08/03/95

Replicate 1 Time: 13:32
Peak Area (A-s): 0.085 Peak Height (A): 0.117
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.082
Concentration (ug/L): 20.94 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 13:34
Peak Area (A-s): 0.084 Peak Height (A): 0.118
Background Pk Area (A-s): 0.110 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.081
Concentration (ug/L): 20.69 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 20.82 SD: 0.177 RSD(%): 0.85
Corrected Conc (mg/kg): ----------

Se ID: ICB Seq. No.: 00007 A/S Pos.: 2 Date: 08/03/95

Replicate 1 Time: 13:37
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.18 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 13:39
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.16 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 0.01 SD: 0.244 RSD(%): 1965.27
Corrected Conc (mg/kg): ----------

Se ID: ACCV Seq. No.: 00008 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 13:42
Peak Area (A-s): 0.105 Peak Height (A): 0.137
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.102
Concentration (ug/L): 26.08 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 13:44
Peak Area (A-s): 0.103 Peak Height (A): 0.136
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.100
Concentration (ug/L): 25.60 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 25.84 SD: 0.337 RSD(%): 1.30
Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00009 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 13:47
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.09 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 13:50
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.19 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -0.14 SD: 0.070 RSD(%): 48.82
Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: CRA Seq. No.: 00010 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 13:52
Peak Area (A-s): 0.022 Peak Height (A): 0.032
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 4.87 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 13:55
Peak Area (A-s): 0.027 Peak Height (A): 0.034
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 5.90 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 5.38 SD: 0.729 RSD(%): 13.54
Corrected Conc (mg/kg): ----------

Se ID: PBS1069 #4 Seq. No.: 00011 A/S Pos.: 4 Date: 03/03/95

Replicate 1 Time: 13:58
Peak Area (A-s): -0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -0.96 Corrected Conc (mg/kg): -0.192

Replicate 2 Time: 14:00
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.15 Corrected Conc (mg/kg): 0.029

Mean Conc (ug/L): -0.41 SD: 0.780 RSD(%): 192.09

Corrected Conc (mg/kg): -0.081

Se ID: PBS1069 #4 Seq. No.: 00012 A/S Pos.: 4 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.044
Background Pk Area (A-s): 0.068
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 10.50

Time: 14:03
Peak Height (A): 0.064
Background Pk Height (A): 0.032

Corrected Conc (mg/kg): 10.83

Replicate 2
Peak Area (A-s): 0.045
Background Pk Area (A-s): 0.048
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 10.60

Time: 14:06
Peak Height (A): 0.062
Background Pk Height (A): 0.034

Corrected Conc (mg/kg): 10.93

Mean Conc (ug/L): 10.55 SD: 0.073 RSD(%): 0.69
Corrected Conc (mg/kg): 10.88

Recovery is 109.6%

Se ID: LCSS 8-1 #4 Seq. No.: 00013 A/S Pos.: 5 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.041
Background Pk Area (A-s): 0.081
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 9.68

Time: 14:08
Peak Height (A): 0.051
Background Pk Height (A): 0.047

Corrected Conc (mg/kg): 38.72

Replicate 2
Peak Area (A-s): 0.043
Background Pk Area (A-s): 0.075
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 10.13

Time: 14:11
Peak Height (A): 0.051
Background Pk Height (A): 0.042

Corrected Conc (mg/kg): 40.53

Mean Conc (ug/L): 9.91 SD: 0.320 RSD(%): 3.23
Corrected Conc (mg/kg): 39.62

Se ID: LCSS 8-1 #4 Seq. No.: 00014 A/S Pos.: 5 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.081
Background Pk Area (A-s): 0.049
Blank Corrected Pk Area (A-s): 0.078
Concentration (ug/L): 19.94

Time: 14:14
Peak Height (A): 0.101
Background Pk Height (A): 0.031

Corrected Conc (mg/kg): 49.66

Replicate 2
Peak Area (A-s): 0.082
Background Pk Area (A-s): 0.062
Blank Corrected Pk Area (A-s): 0.078
Concentration (ug/L): 19.98

Time: 14:17
Peak Height (A): 0.105
Background Pk Height (A): 0.032

Corrected Conc (mg/kg): 49.70

Mean Conc (ug/L): 19.96 SD: 0.027 RSD(%): 0.14
Corrected Conc (mg/kg): 49.68

Recovery is 100.5%

Se ID: 648-30026 Seq. No.: 00015 A/S Pos.: 6 Date: 08/03/95

RH7SP

Replicate 1 Time: 14:19
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): 0.191 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.59 Corrected Conc (mg/kg): 0.119

Replicate 2 Time: 14:22
Peak Area (A-s): 0.012 Peak Height (A): 0.017
Background Pk Area (A-s): 0.187 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.11 Corrected Conc (mg/kg): 0.422

Mean Conc (ug/L): 1.35 SD: 1.073 RSD(%): 79.32
Corrected Conc (mg/kg): 0.271

Se ID: 648-30026 Seq. No.: 00016 A/S Pos.: 6 Date: 08/03/95

Replicate 1 Time: 14:24
Peak Area (A-s): 0.054 Peak Height (A): 0.052
Background Pk Area (A-s): 0.155 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 12.91 Corrected Conc (mg/kg): 11.83

Replicate 2 Time: 14:27
Peak Area (A-s): 0.052 Peak Height (A): 0.053
Background Pk Area (A-s): 0.160 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 12.38 Corrected Conc (mg/kg): 11.30

Mean Conc (ug/L): 12.65 SD: 0.377 RSD(%): 2.98
Corrected Conc (mg/kg): 11.56

Recovery is 112.9%

Se ID: ACCV Seq. No.: 00017 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 14:30
Peak Area (A-s): 0.097 Peak Height (A): 0.128
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.094
Concentration (ug/L): 24.05 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 14:32
Peak Area (A-s): 0.096 Peak Height (A): 0.123
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 23.67 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 23.86 SD: 0.266 RSD(%): 1.12
Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00018 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 14:35
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.56 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 14:38
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.58 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -0.57 SD: 0.012 RSD(%): 2.02
Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: 648-30027 Seq. No.: 00019 A/S Pos.: 7 Date: 08/03/95

Next C
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Replicate 1 Time: 14:40
Peak Area (A-s): 0.011 Peak Height (A): 0.022
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.93 Corrected Conc (mg/kg): 0.387

Replicate 2 Time: 14:43
Peak Area (A-s): 0.014 Peak Height (A): 0.021
Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 2.67 Corrected Conc (mg/kg): 0.534

Mean Conc (ug/L): 2.30 SD: 0.521 RSD(%): 22.61
Corrected Conc (mg/kg): 0.460

Se ID: 648-30027 Seq. No.: 00020 A/S Pos.: 7 Date: 08/03/95

Replicate 1 Time: 14:46
Peak Area (A-s): 0.045 Peak Height (A): 0.068
Background Pk Area (A-s): 0.155 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 10.60 Corrected Conc (mg/kg): 8.75

Replicate 2 Time: 14:48
Peak Area (A-s): 0.043 Peak Height (A): 0.070
Background Pk Area (A-s): 0.158 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 10.15 Corrected Conc (mg/kg): 8.31

Mean Conc (ug/L): 10.33 SD: 0.312 RSD(%): 3.01
Corrected Conc (mg/kg): 8.53

Recovery is 80.7% (outside of specified limits)

Se 9501.648 Run # 2

Element File: SE_CLP_1.GEL Element: Se Wavelength: 196.0
Date: 08/03/95 Time: 16:10 Slit: 2.0 L
Data File: 0803CS21.DAT ID/Wt File: 0803CS21.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 50
Remark 1: SE CLP-5100A GFAA
Remark 2: CALIBRATION STANDARDS S25,S50 IN BOOK #1011
Remark 3: CALIBRATION STANDARDS S10 BY AUTO DILUTION
Remark 4: SE ICV IN BOOK #1011 PAGE #21

Se ID: S0 Seq. No.: 00001 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 16:10
Peak Area (A-s): 0.004 Peak Height (A): 0.016
Background Pk Area (A-s): 0.122 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.004

Auto-zero performed.

Se ID: S5 Seq. No.: 00002 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 16:13
Peak Area (A-s): 0.025 Peak Height (A): 0.035
Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.021

Standard number 1 applied. [5.00]
Correlation coefficient: 1.00000 Slope: 0.0042

Se ID: S10 Seq. No.: 00003 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 16:16
Peak Area (A-s): 0.045 Peak Height (A): 0.065
Background Pk Area (A-s): 0.139 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 9.65

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99894 Slope: 0.0041

Se ID: S25 Seq. No.: 00004 A/S Pos.: 36 Date: 03/03/95

Replicate 1 Time: 16:18
Peak Area (A-s): 0.109 Peak Height (A): 0.161
Background Pk Area (A-s): 0.152 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.104
Concentration (ug/L): 25.54

Standard number 3 applied. [25.00]
Correlation coefficient: 0.99983 Slope: 0.0042

177

Se ID: S50 Seq. No.: 00005 A/S Pos.: 40 Date: 08/03/95

Replicate 1 Time: 16:21

Peak Area (A-s): 0.225 Peak Height (A): 0.300
Background Pk Area (A-s): 0.164 Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.220
Concentration (ug/L): 52.91

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99924 Slope: 0.0044

Se ID: ICV Seq. No.: 00006 A/S Pos.: 1 Date: 08/03/95

Replicate 1 Time: 16:29
Peak Area (A-s): 0.090 Peak Height (A): 0.130
Background Pk Area (A-s): 0.134 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 19.70

Replicate 2 Time: 16:31
Peak Area (A-s): 0.090 Peak Height (A): 0.124
Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 19.59

Mean Conc (ug/L): 19.65 SD: 0.077 RSD(%): 0.39

Se ID: ICB Seq. No.: 00007 A/S Pos.: 2 Date: 08/03/95

Replicate 1 Time: 16:34
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.10

Replicate 2 Time: 16:36
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.31

Mean Conc (ug/L): -0.10 SD: 0.294 RSD(%): 281.80

Se ID: ACCV Seq. No.: 00008 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 16:39
Peak Area (A-s): 0.109 Peak Height (A): 0.147
Background Pk Area (A-s): 0.138 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 24.13

Replicate 2 Time: 16:42
Peak Area (A-s): 0.115 Peak Height (A): 0.143
Background Pk Area (A-s): 0.134 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 25.43

Mean Conc (ug/L): 24.78 SD: 0.915 RSD(%): 3.69

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00009 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 16:44
Peak Area (A-s): 0.007 Peak Height (A): 0.012
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.49

Replicate 2 Time: 16:47
Peak Area (A-s): 0.005 Peak Height (A): 0.010
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.25

Mean Conc (ug/L): 0.37 SD: 0.168 RSD(%): 45.38

QC sample is within range -5.00 - 5.00

Se ID: CRA Seq. No.: 00010 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 16:50
Peak Area (A-s): 0.026 Peak Height (A): 0.040
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 4.89

Replicate 2 Time: 16:52
Peak Area (A-s): 0.027 Peak Height (A): 0.035
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 5.18

Mean Conc (ug/L): 5.03 SD: 0.202 RSD(%): 4.00

Se ID: ACCV Seq. No.: 00011 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 16:55
Peak Area (A-s): 0.112 Peak Height (A): 0.144
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 24.66

Replicate 2 Time: 16:57
Peak Area (A-s): 0.110 Peak Height (A): 0.146
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 24.33

Mean Conc (ug/L): 24.50 SD: 0.229 RSD(%): 0.94

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00012 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 17:00
Peak Area (A-s): 0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.10

Replicate 2 Time: 17:03
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.24

Mean Conc (ug/L): -0.07 SD: 0.243 RSD(%): 338.05

QC sample is within range -5.00 - 5.00

Se ID: 648-30027 Seq. No.: 00013 A/S Pos.: 7 Date: 08/03/95

RH 7 SG

Replicate 1 Time: 17:05
Peak Area (A-s): 0.025 Peak Height (A): 0.031
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 4.67 Corrected Conc (ug/L): 4.67

Replicate 2 Time: 17:08
Peak Area (A-s): 0.021 Peak Height (A): 0.028
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 3.85 Corrected Conc (ug/L): 3.85

Mean Conc (ug/L): 4.25 SD: 0.581 RSD(%): 13.64
Corrected Conc (ug/L): 4.26

Se ID: 648-30027 Seq. No.: 00014 A/S Pos.: 7 Date: 08/03/95

Replicate 1 Time: 17:11
Peak Area (A-s): 0.066 Peak Height (A): 0.081
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 14.07 Corrected Conc (ug/L): 14.07

Replicate 2 Time: 17:13
Peak Area (A-s): 0.064 Peak Height (A): 0.081
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 13.61 Corrected Conc (ug/L): 13.61

Mean Conc (ug/L): 13.84 SD: 0.327 RSD(%): 2.36
Corrected Conc (ug/L): 13.84

Recovery is 95.8%

Se ID: 648-30028 Seq. No.: 00015 A/S Pos.: 8 Date: 08/03/95

RH8 SG

Replicate 1 Time: 17:16
Peak Area (A-s): 0.016 Peak Height (A): 0.022
Background Pk Area (A-s): 0.126 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.69 Corrected Conc (ug/L): 2.69

Replicate 2 Time: 17:19
Peak Area (A-s): 0.013 Peak Height (A): 0.020
Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 1.96 Corrected Conc (ug/L): 1.96

Mean Conc (ug/L): 2.32 SD: 0.519 RSD(%): 22.36
Corrected Conc (ug/L): 2.32

Se ID: 648-30028 Seq. No.: 00016 A/S Pos.: 8 Date: 08/03/95

Replicate 1 Time: 17:21
Peak Area (A-s): 0.058 Peak Height (A): 0.072
Background Pk Area (A-s): 0.127 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 12.28 Corrected Conc (ug/L): 12.28

Replicate 2 Time: 17:24
Peak Area (A-s): 0.058 Peak Height (A): 0.071
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 12.41 Corrected Conc (ug/L): 12.41

Mean Conc (ug/L): 12.35 SD: 0.093 RSD(%): 0.75
Corrected Conc (ug/L): 12.35

Recovery is 100.3%

Se ID: 648-30029 Seq. No.: 00017 A/S Pos.: 9 Date: 08/03/95

RH8 SB

Replicate 1 Time: 17:27
Peak Area (A-s): 0.020 Peak Height (A): 0.027
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 3.59 Corrected Conc (ug/L): 3.59

Replicate 2 Time: 17:29
Peak Area (A-s): 0.016 Peak Height (A): 0.026
Background Pk Area (A-s): 0.167 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.76 Corrected Conc (ug/L): 2.76

Mean Conc (ug/L): 3.17 SD: 0.586 RSD(%): 18.48
Corrected Conc (ug/L): 3.17

Se ID: 648-30029 Seq. No.: 00018 A/S Pos.: 9 Date: 08/03/95

Replicate 1 Time: 17:32
Peak Area (A-s): 0.059 Peak Height (A): 0.073
Background Pk Area (A-s): 0.157 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 12.56 Corrected Conc (ug/L): 12.56

Replicate 2 Time: 17:35
Peak Area (A-s): 0.057 Peak Height (A): 0.071
Background Pk Area (A-s): 0.164 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 12.16 Corrected Conc (ug/L): 12.16

Mean Conc (ug/L): 12.36 SD: 0.281 RSD(%): 2.28
Corrected Conc (ug/L): 12.36

Recovery is 91.9%

Se ID: 648-30030 Seq. No.: 00019 A/S Pos.: 10 Date: 08/03/95

RH9SB

Replicate 1 Time: 17:37
Peak Area (A-s): 0.012 Peak Height (A): 0.019
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.86 Corrected Conc (ug/L): 1.86

Replicate 2 Time: 17:40
Peak Area (A-s): 0.013 Peak Height (A): 0.019
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.92 Corrected Conc (ug/L): 1.92

Mean Conc (ug/L): 1.89 SD: 0.046 RSD(%): 2.41
Corrected Conc (ug/L): 1.89

W

Se ID: 648-30030 Seq. No.: 00020 A/S Pos.: 10 Date: 08/03/95

Replicate 1 Time: 17:43
Peak Area (A-s): 0.058 Peak Height (A): 0.069
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 12.23 Corrected Conc (ug/L): 12.23

Replicate 2 Time: 17:45
Peak Area (A-s): 0.055 Peak Height (A): 0.069
Background Pk Area (A-s): 0.147 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 11.65 Corrected Conc (ug/L): 11.65

Mean Conc (ug/L): 11.94 SD: 0.416 RSD(%): 3.49
Corrected Conc (ug/L): 11.94

Recovery is 100.5%

Se ID: ACCV Seq. No.: 00021 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 17:48
Peak Area (A-s): 0.107 Peak Height (A): 0.142
Background Pk Area (A-s): 0.128 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.103
Concentration (ug/L): 23.65

Replicate 2 Time: 17:50
Peak Area (A-s): 0.112 Peak Height (A): 0.138
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 24.67

Mean Conc (ug/L): 24.16 SD: 0.721 RSD(%): 2.99

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00022 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 17:53
Peak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.52

Replicate 2 Time: 17:56
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.58

Mean Conc (ug/L): -0.55 SD: 0.040 RSD(%): 7.35

QC sample is within range -5.00 - 5.00

Se ID: 648-30031 Seq. No.: 00023 A/S Pos.: 11 Date: 08/03/95

RH9SG

Replicate 1 Time: 17:58
Peak Area (A-s): 0.007 Peak Height (A): 0.014
Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.64 Corrected Conc (ug/L): 0.64

Replicate 2 Time: 18:01
Peak Area (A-s): 0.009 Peak Height (A): 0.013
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.01 Corrected Conc (ug/L): 1.01

Mean Conc (ug/L): 0.83 SD: 0.261 RSD(%): 31.54
Corrected Conc (ug/L): 0.83

183

Se ID: 648-30031 Seq. No.: 00024 A/S Pos.: 11 Date: 08/03/95

Replicate 1 Time: 18:04
Peak Area (A-s): 0.052 Peak Height (A): 0.062
Background Pk Area (A-s): 0.135 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 10.93 Corrected Conc (ug/L): 10.93

Replicate 2 Time: 18:06
Peak Area (A-s): 0.052 Peak Height (A): 0.067
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 10.88 Corrected Conc (ug/L): 10.88

Mean Conc (ug/L): 10.91 SD: 0.036 RSD(%): 0.33
Corrected Conc (ug/L): 10.91

Recovery is 100.8%

Se ID: 648-30032 Seq. No.: 00025 A/S Pos.: 12 Date: 08/03/95

RH10SP

Replicate 1 Time: 18:09
Peak Area (A-s): 0.019 Peak Height (A): 0.019
Background Pk Area (A-s): 0.156 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 3.29 Corrected Conc (ug/L): 3.29

Replicate 2 Time: 18:11
Peak Area (A-s): 0.016 Peak Height (A): 0.021
Background Pk Area (A-s): 0.163 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.77 Corrected Conc (ug/L): 2.77

W

Mean Conc (ug/L): 3.03 SD: 0.368 RSD(%): 12.14
Corrected Conc (ug/L): 3.03

Se ID: 648-30032 Seq. No.: 00026 A/S Pos.: 12 Date: 08/03/95

Replicate 1 Time: 18:14
Peak Area (A-s): 0.052 Peak Height (A): 0.049
Background Pk Area (A-s): 0.165 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 10.89 Corrected Conc (ug/L): 10.89

Replicate 2 Time: 18:17
Peak Area (A-s): 0.054 Peak Height (A): 0.049
Background Pk Area (A-s): 0.169 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 11.31 Corrected Conc (ug/L): 11.31

Mean Conc (ug/L): 11.10 SD: 0.297 RSD(%): 2.68
Corrected Conc (ug/L): 11.10

Recovery is 80.6% (outside of specified limits)

184

Se ID: 648-30033 Seq. No.: 00027 A/S Pos.: 13 Date: 08/03/95

RH10SG

Replicate 1 Time: 18:19

Peak Area (A-s): 0.009 Peak Height (A): 0.013
Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.13 Corrected Conc (ug/L): 1.13

Replicate 2 Time: 18:22
Peak Area (A-s): 0.007 Peak Height (A): 0.015
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.51 Corrected Conc (ug/L): 0.51

Mean Conc (ug/L): 0.82 SD: 0.442 RSD(%): 53.80
Corrected Conc (ug/L): 0.82

Se ID: 648-30033 Seq. No.: 00028 A/S Pos.: 13 Date: 08/03/95

Replicate 1 Time: 18:25
Peak Area (A-s): 0.051 Peak Height (A): 0.060
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 10.74 Corrected Conc (ug/L): 10.74

Replicate 2 Time: 18:27
Peak Area (A-s): 0.049 Peak Height (A): 0.063
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 10.34 Corrected Conc (ug/L): 10.34

Mean Conc (ug/L): 10.54 SD: 0.285 RSD(%): 2.71
Corrected Conc (ug/L): 10.54

Recovery is 97.2%

Se ID: 648-30034 Seq. No.: 00029 A/S Pos.: 14 Date: 08/03/95

Replicate 1 Time: 18:30
Peak Area (A-s): 0.025 Peak Height (A): 0.024
Background Pk Area (A-s): 0.165 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 4.78 Corrected Conc (ug/L): 4.78

Replicate 2 Time: 18:32
Peak Area (A-s): 0.026 Peak Height (A): 0.025
Background Pk Area (A-s): 0.165 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 4.92 Corrected Conc (ug/L): 4.92

Mean Conc (ug/L): 4.85 SD: 0.100 RSD(%): 2.06
Corrected Conc (ug/L): 4.85

Do MS!

Se ID: 648-30034 Seq. No.: 00030 A/S Pos.: 14 Date: 08/03/95

Replicate 1 Time: 18:35
Peak Area (A-s): 0.060 Peak Height (A): 0.052
Background Pk Area (A-s): 0.169 Background Pk Height (A): 0.073

Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 12.67 Corrected Conc (ug/L): 12.67

Replicate 2 Time: 18:38
Peak Area (A-s): 0.051 Peak Height (A): 0.050
Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 10.79 Corrected Conc (ug/L): 10.79

Mean Conc (ug/L): 11.73 SD: 1.326 RSD(%): 11.30
Corrected Conc (ug/L): 11.73

Recovery is 68.8% (outside of specified limits)

Se ID: ACCV Seq. No.: 00031 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 18:40
Peak Area (A-s): 0.108 Peak Height (A): 0.134
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.103
Concentration (ug/L): 23.71

Replicate 2 Time: 18:43
Peak Area (A-s): 0.113 Peak Height (A): 0.134
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 24.86

Mean Conc (ug/L): 24.28 SD: 0.812 RSD(%): 3.34

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00032 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 18:46
Peak Area (A-s): 0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.53

Replicate 2 Time: 18:48
Peak Area (A-s): 0.006 Peak Height (A): 0.011
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.34

Mean Conc (ug/L): -0.09 SD: 0.614 RSD(%): 652.35

QC sample is within range -5.00 - 5.00

Se ID: 648-30035 Seq. No.: 00033 A/S Pos.: 15 Date: 08/03/95

RH10SB

Replicate 1 Time: 18:51
Peak Area (A-s): 0.016 Peak Height (A): 0.024
Background Pk Area (A-s): 0.158 Background Pk Height (A): 0.070

Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.72 Corrected Conc (ug/L): 2.72

Replicate 2 Time: 18:53
Peak Area (A-s): 0.019 Peak Height (A): 0.020
Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.35 Corrected Conc (ug/L): 3.35

Mean Conc (ug/L): 3.04 SD: 0.449 RSD(%): 14.78
Corrected Conc (ug/L): 3.04

Se ID: 648-30035 Seq. No.: 00034 A/S Pos.: 15 Date: 08/03/95

Replicate 1 Time: 18:56
Peak Area (A-s): 0.059 Peak Height (A): 0.061
Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 12.44 Corrected Conc (ug/L): 12.44

Replicate 2 Time: 18:59
Peak Area (A-s): 0.055 Peak Height (A): 0.058
Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 11.58 Corrected Conc (ug/L): 11.58

Mean Conc (ug/L): 12.01 SD: 0.610 RSD(%): 5.08
Corrected Conc (ug/L): 12.01

Recovery is 89.7%

Se ID: 648-30036 Seq. No.: 00035 A/S Pos.: 16 Date: 08/03/95

Replicate 1 RH11SG Time: 19:01
Peak Area (A-s): 0.008 Peak Height (A): 0.014
Background Pk Area (A-s): 0.149 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.82 Corrected Conc (ug/L): 0.82

Replicate 2 Time: 19:04
Peak Area (A-s): 0.012 Peak Height (A): 0.016
Background Pk Area (A-s): 0.141 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.74 Corrected Conc (ug/L): 1.74

Mean Conc (ug/L): 1.28 SD: 0.652 RSD(%): 50.96
Corrected Conc (ug/L): 1.28

Se ID: 648-30036 Seq. No.: 00036 A/S Pos.: 16 Date: 08/03/95

Replicate 1 Time: 19:07
Peak Area (A-s): 0.044 Peak Height (A): 0.065
Background Pk Area (A-s): 0.151 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 9.21 Corrected Conc (ug/L): 9.21

Replicate 2 — Time: 19:10
Peak Area (A-s): 0.052 — Peak Height (A): 0.065
Background Pk Area (A-s): 0.141 — Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 10.86 — Corrected Conc (ug/L): 10.86

Mean Conc (ug/L): 10.03 — SD: 1.172 — RSD(%): 11.68
Corrected Conc (ug/L): 10.03

Recovery is 87.6%

Se ID: 648-30037 — Seq. No.: 00037 — A/S Pos.: 17 — Date: 08/03/95

RH11SG

Replicate 1 — Time: 19:12
Peak Area (A-s): 0.008 — Peak Height (A): 0.015
Background Pk Area (A-s): 0.144 — Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.91 — Corrected Conc (ug/L): 0.91

Replicate 2 — Time: 19:15
Peak Area (A-s): 0.011 — Peak Height (A): 0.017
Background Pk Area (A-s): 0.143 — Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.52 — Corrected Conc (ug/L): 1.52

Mean Conc (ug/L): 1.21 — SD: 0.430 — RSD(%): 35.39
Corrected Conc (ug/L): 1.21

Se ID: 648-30037 — Seq. No.: 00038 — A/S Pos.: 17 — Date: 08/03/95

Replicate 1 — Time: 19:17
Peak Area (A-s): 0.050 — Peak Height (A): 0.066
Background Pk Area (A-s): 0.142 — Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 10.47 — Corrected Conc (ug/L): 10.47

Replicate 2 — Time: 19:20
Peak Area (A-s): 0.050 — Peak Height (A): 0.065
Background Pk Area (A-s): 0.146 — Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 10.49 — Corrected Conc (ug/L): 10.49

Mean Conc (ug/L): 10.48 — SD: 0.018 — RSD(%): 0.18
Corrected Conc (ug/L): 10.48

Recovery is 92.6%

Se ID: 648-30038 — Seq. No.: 00039 — A/S Pos.: 18 — Date: 08/03/95

RH12SG

Replicate 1 — Time: 19:23
Peak Area (A-s): 0.011 — Peak Height (A): 0.015
Background Pk Area (A-s): 0.124 — Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.43 — Corrected Conc (ug/L): 1.43

Replicate 2 — Time: 19:25

Peak Area (A-s): 0.007 Peak Height (A): 0.014
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.65 Corrected Conc (ug/L): 0.65

Mean Conc (ug/L): 1.04 SD: 0.550 RSD(%): 53.04
Corrected Conc (ug/L): 1.04

Se ID: 648-30038 Seq. No.: 00040 A/S Pos.: 18 Date: 08/03/95

Replicate 1 Time: 19:28
Peak Area (A-s): 0.053 Peak Height (A): 0.064
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 11.19 Corrected Conc (ug/L): 11.19

Replicate 2 Time: 19:31
Peak Area (A-s): 0.052 Peak Height (A): 0.065
Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 10.85 Corrected Conc (ug/L): 10.85

Mean Conc (ug/L): 11.02 SD: 0.239 RSD(%): 2.17
Corrected Conc (ug/L): 11.02

Recovery is 99.8%

Se ID: ACCV Seq. No.: 00041 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 19:33
Peak Area (A-s): 0.111 Peak Height (A): 0.152
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 24.43

Replicate 2 Time: 19:36
Peak Area (A-s): 0.111 Peak Height (A): 0.147
Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 24.59

Mean Conc (ug/L): 24.51 SD: 0.110 RSD(%): 0.45

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00042 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 19:39
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.18

Replicate 2 Time: 19:41
Peak Area (A-s): 0.005 Peak Height (A): 0.013

Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.07

Mean Conc (ug/L): -0.06 SD: 0.179 RSD(%): 319.65

QC sample is within range -5.00 - 5.00

Se ID: 648-30039 Seq. No.: 00043 A/S Pos.: 19 Date: 08/03/95

Replicate 1 Time: 19:44
Peak Area (A-s): 0.023 Peak Height (A): 0.029
Background Pk Area (A-s): 0.166 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 4.23 Corrected Conc (ug/L): 4.23

Replicate 2 Time: 19:46
Peak Area (A-s): 0.016 Peak Height (A): 0.024
Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.66 Corrected Conc (ug/L): 2.66

Mean Conc (ug/L): 3.44 SD: 1.106 RSD(%): 32.13
Corrected Conc (ug/L): 3.44

DD MSA

Se ID: 648-30039 Seq. No.: 00044 A/S Pos.: 19 Date: 08/03/95

Replicate 1 Time: 19:49
Peak Area (A-s): 0.037 Peak Height (A): 0.043
Background Pk Area (A-s): 0.169 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 7.55 Corrected Conc (ug/L): 7.55

Replicate 2 Time: 19:52
Peak Area (A-s): 0.041 Peak Height (A): 0.051
Background Pk Area (A-s): 0.165 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 8.51 Corrected Conc (ug/L): 8.51

Mean Conc (ug/L): 8.03 SD: 0.677 RSD(%): 8.43
Corrected Conc (ug/L): 8.03

Recovery is 45.9% (outside of specified limits)

Se ID: 648-30040 Seq. No.: 00045 A/S Pos.: 20 Date: 08/03/95

BCDC358

Replicate 1 Time: 19:55
Peak Area (A-s): 0.020 Peak Height (A): 0.028
Background Pk Area (A-s): 0.173 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.54 Corrected Conc (ug/L): 3.54

Replicate 2 Time: 19:57
Peak Area (A-s): 0.019 Peak Height (A): 0.024
Background Pk Area (A-s): 0.199 Background Pk Height (A): 0.079

Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.36 Corrected Conc (ug/L): 3.36

Mean Conc (ug/L): 3.45 SD: 0.127 RSD(%): 3.69
Corrected Conc (ug/L): 3.45

Do MSA

Se ID: 648-30040 Seq. No.: 00046 A/S Pos.: 20 Date: 08/03/95

Replicate 1 Time: 20:00
Peak Area (A-s): 0.038 Peak Height (A): 0.046
Background Pk Area (A-s): 0.159 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 7.76 Corrected Conc (ug/L): 7.76

Replicate 2 Time: 20:03
Peak Area (A-s): 0.037 Peak Height (A): 0.044
Background Pk Area (A-s): 0.167 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 7.57 Corrected Conc (ug/L): 7.57

Mean Conc (ug/L): 7.67 SD: 0.137 RSD(%): 1.79
Corrected Conc (ug/L): 7.67

Recovery is 42.2% (outside of specified limits)

Se ID: 648-30041 Seq. No.: 00047 A/S Pos.: 21 Date: 08/03/95

BCDC1SB

Replicate 1 Time: 20:05
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): 0.130 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.48 Corrected Conc (ug/L): 0.48

Replicate 2 Time: 20:08
Peak Area (A-s): 0.009 Peak Height (A): 0.016
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.13 Corrected Conc (ug/L): 1.13

Mean Conc (ug/L): 0.81 SD: 0.456 RSD(%): 56.58
Corrected Conc (ug/L): 0.81

Se ID: 648-30041 Seq. No.: 00048 A/S Pos.: 21 Date: 08/03/95

Replicate 1 Time: 20:11
Peak Area (A-s): 0.049 Peak Height (A): 0.062
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 10.29 Corrected Conc (ug/L): 10.29

Replicate 2 Time: 20:14
Peak Area (A-s): 0.051 Peak Height (A): 0.065
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 10.74 Corrected Conc (ug/L): 10.74

102

Mean Conc (ug/L): 10.52 SD: 0.319 RSD(%): 3.04
Corrected Conc (ug/L): 10.52

Recovery is 97.1%

Se ID: 648-30042 Seq. No.: 00049 A/S Pos.: 22 Date: 08/03/95

BCDCISP

Replicate 1 Time: 20:16
Peak Area (A-s): 0.008 Peak Height (A): 0.014
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.78 Corrected Conc (ug/L): 0.78

Replicate 2 Time: 20:19
Peak Area (A-s): 0.007 Peak Height (A): 0.013
Background Pk Area (A-s): 0.134 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.51 Corrected Conc (ug/L): 0.51

Mean Conc (ug/L): 0.64 SD: 0.189 RSD(%): 29.47
Corrected Conc (ug/L): 0.64

Se ID: 648-30042 Seq. No.: 00050 A/S Pos.: 22 Date: 08/03/95

Replicate 1 Time: 20:22
Peak Area (A-s): 0.043 Peak Height (A): 0.056
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 8.94 Corrected Conc (ug/L): 8.94

Replicate 2 Time: 20:24
Peak Area (A-s): 0.046 Peak Height (A): 0.053
Background Pk Area (A-s): 0.141 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 9.62 Corrected Conc (ug/L): 9.62

Mean Conc (ug/L): 9.28 SD: 0.482 RSD(%): 5.19
Corrected Conc (ug/L): 9.28

Recovery is 86.4%

Se ID: ACCV Seq. No.: 00051 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 20:27
Peak Area (A-s): 0.106 Peak Height (A): 0.136
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.102
Concentration (ug/L): 23.46

Replicate 2 Time: 20:30
Peak Area (A-s): 0.114 Peak Height (A): 0.152
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.110
Concentration (ug/L): 25.17

Mean Conc (ug/L): 24.32 SD: 1.210 RSD(%): 4.98

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00052 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 20:32
Peak Area (A-s): 0.008 Peak Height (A): 0.013
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.78

Replicate 2 Time: 20:35
Peak Area (A-s): 0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.31

Mean Conc (ug/L): 0.55 SD: 0.334 RSD(%): 60.81

QC sample is within range -5.00 - 5.00

Se ID: Q648-30043 Seq. No.: 00053 A/S Pos.: 23 Date: 08/03/95

Replicate 1 Time: 20:37
Peak Area (A-s): 0.010 Peak Height (A): 0.014
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.35 Corrected Conc (ug/L): 1.35

Replicate 2 Time: 20:40
Peak Area (A-s): 0.007 Peak Height (A): 0.018
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.66 Corrected Conc (ug/L): 0.66

Mean Conc (ug/L): 1.01 SD: 0.488 RSD(%): 48.43
Corrected Conc (ug/L): 1.01

Se ID: Q648-30043 Seq. No.: 00054 A/S Pos.: 23 Date: 08/03/95

Replicate 1 Time: 20:43
Peak Area (A-s): 0.035 Peak Height (A): 0.056
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 6.96 Corrected Conc (ug/L): 6.96

Replicate 2 Time: 20:46
Peak Area (A-s): 0.032 Peak Height (A): 0.052
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 6.28 Corrected Conc (ug/L): 6.28

Mean Conc (ug/L): 6.62 SD: 0.481 RSD(%): 7.27
Corrected Conc (ug/L): 6.62

Recovery is 56.1% (outside of specified limits)

Se 9501.648 (30043 → 30052) batch #4 completed + batch #5 (30043 + 30044) TC 8-4-95 RUN #3

Element File: SE_CLP_1.GEL Element: Se Wavelength: 196.0
Date: 08/03/95 Time: 22:25 Slit: 2.0 L
Data File: 0803CS22.DAT ID/Wt File: 0803CS22.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 42
Remark 1: SE CLP-5100A GFAA
Remark 2: CALIBRATION STANDARDS S25,S50 IN BOOK #1011
Remark 3: CALIBRATION STANDARDS S10 BY AUTO DILUTION
Remark 4: SE ICV IN BOOK #1011 PAGE #21

rev: pm 8-4-95

Se ID: S0 Seq. No.: 00001 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 22:25
Peak Area (A-s): 0.003 Peak Height (A): 0.021
Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.003

Auto-zero performed.

Se ID: S5 Seq. No.: 00002 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 22:27
Peak Area (A-s): 0.029 Peak Height (A): 0.047
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.026

Standard number 1 applied. [5.00]
Correlation coefficient: 1.00000 Slope: 0.0053

Se ID: S10 Seq. No.: 00003 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 22:30
Peak Area (A-s): 0.051 Peak Height (A): 0.085
Background Pk Area (A-s): 0.140 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 9.26

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99506 Slope: 0.0049

Se ID: S25 Seq. No.: 00004 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 22:33
Peak Area (A-s): 0.119 Peak Height (A): 0.178
Background Pk Area (A-s): 0.152 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 23.51

194

Standard number 3 applied. [25.00]
Correlation coefficient: 0.99877 Slope: 0.0047

Se ID: S50 Seq. No.: 00005 A/S Pos.: 40 Date: 08/03/95

Replicate 1 Time: 22:35

Peak Area (A-s): 0.240 Peak Height (A): 0.375
Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.238
Concentration (ug/L): 50.54

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99975 Slope: 0.0047

Se ID: ICV Seq. No.: 00006 A/S Pos.: 1 Date: 08/03/95

Replicate 1 Time: 22:39
Peak Area (A-s): 0.107 Peak Height (A): 0.153
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 22.07

Replicate 2 Time: 22:41
Peak Area (A-s): 0.100 Peak Height (A): 0.150
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.098
Concentration (ug/L): 20.60

Mean Conc (ug/L): 21.34 ✓ SD: 1.043 RSD(%): 4.89

Se ID: ICB Seq. No.: 00007 A/S Pos.: 2 Date: 08/03/95

Replicate 1 Time: 22:45
Peak Area (A-s): 0.010 Peak Height (A): 0.017
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.56 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 22:48
Peak Area (A-s): 0.011 Peak Height (A): 0.020
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.69 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 1.62 ✓ 2.0 SD: 0.089 RSD(%): 5.50
Corrected Conc (mg/kg): ----------

Se ID: ACCV Seq. No.: 00008 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 22:50
Peak Area (A-s): 0.119 Peak Height (A): 0.177
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 24.54 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 22:53
Peak Area (A-s): 0.117 Peak Height (A): 0.178
Background Pk Area (A-s): 0.157 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 24.15 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 24.35 ✓ SD: 0.273 RSD(%): 1.12
Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00009 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 22:55
Peak Area (A-s): 0.012 Peak Height (A): 0.016
Background Pk Area (A-s): 0.156 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 1.97 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 22:58
Peak Area (A-s): 0.009 Peak Height (A): 0.015
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.41 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 1.69 ✓ SD: 0.393 RSD(%): 23.31
Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: CRA Seq. No.: 00010 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 23:01
Peak Area (A-s): 0.030 Peak Height (A): 0.047
Background Pk Area (A-s): 0.143 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 5.78 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 23:03
Peak Area (A-s): 0.030 Peak Height (A): 0.045
Background Pk Area (A-s): 0.140 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 5.79 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 5.79 ✓ SD: 0.009 RSD(%): 0.16
Corrected Conc (mg/kg): ----------

Se ID: ACCV Seq. No.: 00011 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 23:06
Peak Area (A-s): 0.121 Peak Height (A): 0.184
Background Pk Area (A-s): 0.185 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 25.05 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 23:08
Peak Area (A-s): 0.120 Peak Height (A): 0.174
Background Pk Area (A-s): 0.160 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 24.79 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 24.92 ✓ SD: 0.186 RSD(%): 0.74

Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00012 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 23:11
Peak Area (A-s): 0.011 Peak Height (A): 0.015
Background Pk Area (A-s): 0.123 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 1.84 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 23:14
Peak Area (A-s): 0.011 Peak Height (A): 0.016
Background Pk Area (A-s): 0.119 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.71 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 1.77 SD: 0.090 RSD(%): 5.06
Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: Q648-30043 Seq. No.: 00013 A/S Pos.: 23 Date: 08/03/95

BCDC1SG

Replicate 1 Time: 23:16
Peak Area (A-s): 0.014 Peak Height (A): 0.020
Background Pk Area (A-s): 0.135 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.46 Corrected Conc (mg/kg): 0.493

Replicate 2 Time: 23:19
Peak Area (A-s): 0.020 Peak Height (A): 0.021
Background Pk Area (A-s): 0.145 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 3.62 Corrected Conc (mg/kg): 0.725

Mean Conc (ug/L): 3.04 SD: 0.819 RSD(%): 26.92
Corrected Conc (mg/kg): 0.609

Se ID: Q648-30043 Seq. No.: 00014 A/S Pos.: 23 Date: 08/03/95

Replicate 1 Time: 23:22
Peak Area (A-s): 0.064 Peak Height (A): 0.079
Background Pk Area (A-s): 0.145 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 13.03 Corrected Conc (mg/kg): 10.60

Replicate 2 Time: 23:25
Peak Area (A-s): 0.063 Peak Height (A): 0.080
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 12.82 Corrected Conc (mg/kg): 10.39

Mean Conc (ug/L): 12.93 SD: 0.146 RSD(%): 1.13

Corrected Conc (mg/kg): 10.49

Recovery is 98.8%

Se ID: Q648-30043.D Seq. No.: 00015 A/S Pos.: 24 Date: 08/03/95

BCDC1SG (DUP)

Replicate 1 Time: 23:27
Peak Area (A-s): 0.020 Peak Height (A): 0.024
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 3.63 Corrected Conc (mg/kg): 0.727

Replicate 2 Time: 23:30
Peak Area (A-s): 0.022 Peak Height (A): 0.024
Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 4.19 Corrected Conc (mg/kg): 0.837

Mean Conc (ug/L): 3.91 SD: 0.391 RSD(%): 10.01
Corrected Conc (mg/kg): 0.782

W

Se ID: Q648-30043.D Seq. No.: 00016 A/S Pos.: 24 Date: 08/03/95

Replicate 1 Time: 23:33
Peak Area (A-s): 0.061 Peak Height (A): 0.079
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 12.38 Corrected Conc (mg/kg): 9.25

W

Replicate 2 Time: 23:35
Peak Area (A-s): 0.060 Peak Height (A): 0.079
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 12.02 Corrected Conc (mg/kg): 8.90

Mean Conc (ug/L): 12.20 SD: 0.250 RSD(%): 2.05
Corrected Conc (mg/kg): 9.07

Recovery is 82.9% (outside of specified limits)

Se ID: Q648-30043.S Seq. No.: 00017 A/S Pos.: 25 Date: 08/03/95

BCDC1SG (Se:Ka)

Replicate 1 Time: 23:38
Peak Area (A-s): 0.053 Peak Height (A): 0.071
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 10.60 Corrected Conc (mg/kg): 2.119

Replicate 2 Time: 23:41
Peak Area (A-s): 0.059 Peak Height (A): 0.071
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 11.95 Corrected Conc (mg/kg): 2.389

Mean Conc (ug/L): 11.27 SD: 0.955 RSD(%): 8.47

198

Corrected Conc (mg/kg): 2.254

Se ID: Q648-30043.S Seq. No.: 00018 A/S Pos.: 25 Date: 08/03/95

Replicate 1 Time: 23:43
Peak Area (A-s): 0.099 Peak Height (A): 0.124
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 20.29 Corrected Conc (mg/kg): 11.28

Replicate 2 Time: 23:46
Peak Area (A-s): 0.104 Peak Height (A): 0.136
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 21.30 Corrected Conc (mg/kg): 12.28

Mean Conc (ug/L): 20.80 SD: 0.709 RSD(%): 3.41
Corrected Conc (mg/kg): 11.78

Recovery is 95.2%

Se ID: 648-30044 Seq. No.: 00019 A/S Pos.: 26 Date: 08/03/95

RHID

Replicate 1 Time: 23:49
Peak Area (A-s): 0.017 Peak Height (A): 0.021
Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 3.03 Corrected Conc (mg/kg): 1.379

Replicate 2 Time: 23:51
Peak Area (A-s): 0.018 Peak Height (A): 0.022
Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.24 Corrected Conc (mg/kg): 1.472

Mean Conc (ug/L): 3.14 SD: 0.145 RSD(%): 4.61
Corrected Conc (mg/kg): 1.425

Se ID: 648-30044 Seq. No.: 00020 A/S Pos.: 25 Date: 08/03/95

Replicate 1 Time: 23:54
Peak Area (A-s): 0.056 Peak Height (A): 0.054
Background Pk Area (A-s): 0.184 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 11.28 Corrected Conc (mg/kg): 9.57

Replicate 2 Time: 23:57
Peak Area (A-s): 0.051 Peak Height (A): 0.055
Background Pk Area (A-s): 0.176 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 10.25 Corrected Conc (mg/kg): 8.54

Mean Conc (ug/L): 10.77 SD: 0.724 RSD(%): 6.73
Corrected Conc (mg/kg): 9.06

199

Recovery is 76.3% (outside of specified limits)

Se ID: ACCV Seq. No.: 00021 A/S Pos.: 36 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.128
Background Pk Area (A-s): 0.114
Blank Corrected Pk Area (A-s): 0.125
Concentration (ug/L): 26.37
Time: 23:59
Peak Height (A): 0.162
Background Pk Height (A): 0.062
Corrected Conc (mg/kg): ----------

Replicate 2
Peak Area (A-s): 0.112
Background Pk Area (A-s): 0.102
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 23.01
Time: 00:02
Peak Height (A): 0.150
Background Pk Height (A): 0.060
Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 24.69 ✓
Corrected Conc (mg/kg): ----------
SD: 2.376 RSD(%): 9.62

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00022 A/S Pos.: 37 Date: 08/04/95

Replicate 1
Peak Area (A-s): 0.008
Background Pk Area (A-s): 0.074
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.17
Time: 00:04
Peak Height (A): 0.016
Background Pk Height (A): 0.053
Corrected Conc (mg/kg): ----------

Replicate 2
Peak Area (A-s): 0.007
Background Pk Area (A-s): 0.065
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.02
Time: 00:07
Peak Height (A): 0.018
Background Pk Height (A): 0.048
Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 1.10 L2.0
Corrected Conc (mg/kg): ----------
SD: 0.107 RSD(%): 9.72

QC sample is within range -5.00 - 5.00

Se ID: PBS1071 Seq. No.: 00023 A/S Pos.: 4 Date: 08/04/95

Replicate 1
Peak Area (A-s): 0.008
Background Pk Area (A-s): 0.063
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.16
Time: 00:17
Peak Height (A): 0.017
Background Pk Height (A): 0.050
Corrected Conc (mg/kg): 0.231

Replicate 2
Peak Area (A-s): 0.010
Background Pk Area (A-s): 0.054
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.59
Time: 00:20
Peak Height (A): 0.017
Background Pk Height (A): 0.049
Corrected Conc (mg/kg): 0.317

Mean Conc (ug/L): 1.37
Corrected Conc (mg/kg): 0.274 ✓0.4
SD: 0.304 RSD(%): 22.15

200

batch #4 batch #5

Run #5 4

Se 950/.648 MSA's 30034, 30039, 30040, 30045, 30046

Element File: SE_CLP_1.GEL Element: Se Wavelength: 196.0
Date: 08/04/95 Time: 09:31 Slit: 2.0 L
Data File: 0804CS11.DAT ID/Wt File: 0804CS11.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 47
Remark 1: SE CLP-5100A GFAA
Remark 2: CALIBRATION STANDARDS S25,S50 IN BOOK #1011
Remark 3: CALIBRATION STANDARDS S10 BY AUTO DILUTION
Remark 4: SE ICV IN BOOK #1011 PAGE #21

pav 8-4-95

Se ID: S0 Seq. No.: 00001 A/S Pos.: 37 Date: 08/04/95

Replicate 1 Time: 09:31
Peak Area (A-s): 0.009 Peak Height (A): 0.014
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.009

Auto-zero performed.

Se ID: S5 Seq. No.: 00002 A/S Pos.: 3 Date: 08/04/95

Replicate 1 Time: 09:34
Peak Area (A-s): 0.030 Peak Height (A): 0.033
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.021

Standard number 1 applied. [5.00]
Correlation coefficient: 1.00000 Slope: 0.0042

Se ID: S10 Seq. No.: 00003 A/S Pos.: 38 Date: 08/04/95

Replicate 1 Time: 09:36
Peak Area (A-s): 0.046 Peak Height (A): 0.052
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 8.89

Standard number 2 applied. [10.00]
Correlation coefficient: 0.98807 Slope: 0.0038

Se ID: S25 Seq. No.: 00004 A/S Pos.: 36 Date: 08/04/95

Replicate 1 Time: 09:39
Peak Area (A-s): 0.114 Peak Height (A): 0.149
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 27.31

Standard number 3 applied. [25.00]
Correlation coefficient: 0.99754 Slope: 0.0041

2J1

Se ID: S50 Seq. No.: 00005 A/S Pos.: 40 Date: 08/04/95

Replicate 1 Time: 09:42

Peak Area (A-s): 0.210 Peak Height (A): 0.262
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.201
Concentration (ug/L): 48.71

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99940 Slope: 0.0041

Se ID: ICV Seq. No.: 00006 A/S Pos.: 1 Date: 08/04/95

Replicate 1 Time: 09:44
Peak Area (A-s): 0.097 Peak Height (A): 0.124
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 21.61 ✓ Corrected Conc (mg/kg): ----------

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Se ID: ICB Seq. No.: 00007 A/S Pos.: 2 Date: 08/04/95

Replicate 1 Time: 09:47
Peak Area (A-s): 0.006 Peak Height (A): 0.014
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.65 < 2.0 Corrected Conc (mg/kg): ----------

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Se ID: ACCV Seq. No.: 00008 A/S Pos.: 36 Date: 08/04/95

Replicate 1 Time: 09:49
Peak Area (A-s): 0.108 Peak Height (A): 0.140
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 24.38 ✓ Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00009 A/S Pos.: 37 Date: 08/04/95

Replicate 1 Time: 09:52
Peak Area (A-s): 0.008 Peak Height (A): 0.016
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.28 < 2.0 Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: CRA Seq. No.: 00010 A/S Pos.: 3 Date: 08/04/95

Replicate 1 Time: 09:55
Peak Area (A-s): 0.026 Peak Height (A): 0.032
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 4.16 ✓ Corrected Conc (mg/kg): ----------

252

Se ID: ACCV Seq. No.: 00011 A/S Pos.: 36 Date: 08/04/95

Replicate 1 Time: 09:57
Peak Area (A-s): 0.115 Peak Height (A): 0.140
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 26.19 ✓ Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00012 A/S Pos.: 37 Date: 08/04/95

Replicate 1 Time: 10:00
Peak Area (A-s): 0.003 Peak Height (A): 0.017
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -1.52 ✓ Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: 648-30034-MSA Seq. No.: 00013 A/S Pos.: 4 Date: 08/04/95

RH10ASP

Replicate 1 Time: 10:03
Peak Area (A-s): 0.025 Peak Height (A): 0.024
Background Pk Area (A-s): 0.101 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 3.89 Corrected Conc (mg/kg): 0.778

Se ID: 30034 + 5.0 PPB Seq. No.: 00014 A/S Pos.: 5 Date: 08/04/95

Replicate 1 Time: 10:05
Peak Area (A-s): 0.044 Peak Height (A): 0.043
Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 8.65 Corrected Conc (mg/kg): 1.731

Se ID: 30034 + 10 PPB Seq. No.: 00015 A/S Pos.: 6 Date: 08/04/95

Replicate 1 Time: 10:08
Peak Area (A-s): 0.065 Peak Height (A): 0.052
Background Pk Area (A-s): 0.128 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 13.93 Corrected Conc (mg/kg): 2.786

Se ID: 30034 + 15 PPB Seq. No.: 00016 A/S Pos.: 7 Date: 08/04/95

Replicate 1 Time: 10:11
Peak Area (A-s): 0.080 Peak Height (A): 0.067
Background Pk Area (A-s): 0.134 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 17.55 Corrected Conc (mg/kg): 3.510

203

$r = 0.99792$
$y = 0.0037 + 0.0$
$y = 4.46$
$x = 0.892 \text{ mg/kg}$

Se ID: 648-30039-MSA Seq. No.: 00017 A/S Pos.: 8 Date: 08/04/95

BCDC25B

Replicate 1 Time: 10:13
Peak Area (A-s): 0.024 Peak Height (A): 0.030
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.69 Corrected Conc (mg/kg): 0.738

Se ID: 30039 + 5.0 PPB Seq. No.: 00018 A/S Pos.: 9 Date: 08/04/95

Replicate 1 Time: 10:16
Peak Area (A-s): 0.030 Peak Height (A): 0.035
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 5.12 Corrected Conc (mg/kg): 1.023

Se ID: 30039 + 10 PPB Seq. No.: 00019 A/S Pos.: 10 Date: 08/04/95

Replicate 1 Time: 10:19
Peak Area (A-s): 0.040 Peak Height (A): 0.041
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.031
Concentration (ug/L): 7.63 Corrected Conc (mg/kg): 1.526

Se ID: 30039 + 15 PPB Seq. No.: 00020 A/S Pos.: 11 Date: 08/04/95 $r = 0.993$

Replicate 1 Time: 10:21
Peak Area (A-s): 0.050 Peak Height (A): 0.053
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 10.11 Corrected Conc (mg/kg): 2.022

$y = 0.0017x -$
$x = 7.84$ ug/
$x = 1.57$ mg/

Se ID: 648-30040-MSA Seq. No.: 00021 A/S Pos.: 12 Date: 08/04/95

BCDC35B

Replicate 1 Time: 10:24
Peak Area (A-s): 0.022 Peak Height (A): 0.024
Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 3.34 Corrected Conc (mg/kg): 0.667

Se ID: 30040 + 5.0 PPB Seq. No.: 00022 A/S Pos.: 13 Date: 08/04/95

Replicate 1 Time: 10:26
Peak Area (A-s): 0.033 Peak Height (A): 0.034
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 6.00 Corrected Conc (mg/kg): 1.201

Se ID: 30040 + 10 PPB Seq. No.: 00023 A/S Pos.: 14 Date: 08/04/95 2 4

Replicate 1 Time: 10:29
Peak Area (A-s): 0.037 Peak Height (A): 0.042

Background Pk Area (A-s): 0.110 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 6.95 Corrected Conc (mg/kg): 1.390

Se ID: 30040 + 15 PPB Seq. No.: 00024 A/S Pos.: 15 Date: 08/04/95

Replicate 1 Time: 10:32
Peak Area (A-s): 0.048 Peak Height (A): 0.048
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 9.56 Corrected Conc (mg/kg): 1.911

$r = 0.98603$
$y = 0.0015x + 0.0$
$y = 9.1$ ug/l
$x = 1.82$ mg/kg

Se ID: 648-30045-MSA Seq. No.: 00025 A/S Pos.: 16 Date: 08/04/95

Replicate 1 RH2D Time: 10:34
Peak Area (A-s): 0.018 Peak Height (A): 0.018
Background Pk Area (A-s): 0.167 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 2.21 Corrected Conc (mg/kg): 0.441

Se ID: 30045 + 5.0 PPB Seq. No.: 00026 A/S Pos.: 17 Date: 08/04/95

Replicate 1 Time: 10:37
Peak Area (A-s): 0.039 Peak Height (A): 0.028
Background Pk Area (A-s): 0.177 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 7.51 Corrected Conc (mg/kg): 1.502

Se ID: 30045 + 10 PPB Seq. No.: 00027 A/S Pos.: 18 Date: 08/04/95

Replicate 1 Time: 10:39
Peak Area (A-s): 0.063 Peak Height (A): 0.045
Background Pk Area (A-s): 0.191 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 13.39 Corrected Conc (mg/kg): 2.677

Se ID: 30045 + 15 PPB Seq. No.: 00028 A/S Pos.: 19 Date: 08/04/95

Replicate 1 Time: 10:42
Peak Area (A-s): 0.085 Peak Height (A): 0.056
Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.076
Concentration (ug/L): 18.84 Corrected Conc (mg/kg): 3.768

$r = 0.999970$
$y = 0.0045x + 0.0$
$y = 1.89$ ug/l
$x = 20.40$ mg/l

Se ID: 648-30046-MSA Seq. No.: 00029 A/S Pos.: 20 Date: 08/04/95

Replicate 1 Time: 10:44
Peak Area (A-s): 0.027 Peak Height (A): 0.028
Background Pk Area (A-s): 0.117 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 4.42 Corrected Conc (mg/kg): 1.669

Se ID: 30046 + 5.0 PPB Seq. No.: 00030 A/S Pos.: 21 Date: 08/04/95

Replicate 1 Time: 10:47
Peak Area (A-s): 0.057 Peak Height (A): 0.052
Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 11.91 Corrected Conc (mg/kg): 4.494

Se ID: 30046 + 10 PPB Seq. No.: 00031 A/S Pos.: 22 Date: 08/04/95

Replicate 1 Time: 10:50
Peak Area (A-s): 0.066 Peak Height (A): 0.059
Background Pk Area (A-s): 0.123 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 14.01 Corrected Conc (mg/kg): 5.287

Se ID: 30046 + 15 PPB Seq. No.: 00032 A/S Pos.: 23 Date: 08/04/95

Replicate 1 Time: 10:52
Peak Area (A-s): 0.092 Peak Height (A): 0.079
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 20.48 Corrected Conc (mg/kg): 7.727

$r = 0.9822$
$y = 0.0049x + 0.0$
$x = 5.14$ µg/L
$x = 1.93$ mg/kg

Se ID: ACCV Seq. No.: 00033 A/S Pos.: 36 Date: 08/04/95

Replicate 1 Time: 10:55
Peak Area (A-s): 0.110 Peak Height (A): 0.126
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 24.98 Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00034 A/S Pos.: 37 Date: 08/04/95

Replicate 1 Time: 10:57
Peak Area (A-s): 0.009 Peak Height (A): 0.015
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.06 Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: 648-30039-MSA Seq. No.: 00035 A/S Pos.: 8 Date: 08/04/95

Replicate 1 BCDC259 Time: 11:20
Peak Area (A-s): 0.012 Peak Height (A): 0.022
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.77 Corrected Conc (mg/kg): 0.154

Se ID: 30039 + 5.0 PPB Seq. No.: 00036 A/S Pos.: 9 Date: 08/04/95

Replicate 1 Time: 11:22
Peak Area (A-s): 0.029 Peak Height (A): 0.036
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 4.95 Corrected Conc (mg/kg): 0.991

Se ID: 30039 + 10 PPB Seq. No.: 00037 A/S Pos.: 10 Date: 08/04/95

Replicate 1 Time: 11:25
Peak Area (A-s): 0.042 Peak Height (A): 0.045
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 8.13 Corrected Conc (mg/kg): 1.625

Se ID: 30039 + 15 PPB Seq. No.: 00038 A/S Pos.: 11 Date: 08/04/95

Replicate 1 Time: 11:27
Peak Area (A-s): 0.056 Peak Height (A): 0.056
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 11.52 Corrected Conc (mg/kg): 2.305

$r = 0.99834$
$y = 0.0029x + 0.0$
$x = 1.38$ mg/L
$x = 0.375$ mg/L
20.40

Se ID: 648-30040-MSA Seq. No.: 00039 A/S Pos.: 12 Date: 08/04/95

BCDC3SB

Replicate 1 Time: 11:30
Peak Area (A-s): 0.019 Peak Height (A): 0.029
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 2.57 Corrected Conc (mg/kg): 0.514

Se ID: 30040 - 5.0 PPB Seq. No.: 00040 A/S Pos.: 13 Date: 08/04/95

Replicate 1 Time: 11:33
Peak Area (A-s): 0.033 Peak Height (A): 0.036
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 5.92 Corrected Conc (mg/kg): 1.184

Se ID: 30040 + 10 PPB Seq. No.: 00041 A/S Pos.: 14 Date: 08/04/95

Replicate 1 Time: 11:35
Peak Area (A-s): 0.042 Peak Height (A): 0.045
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 8.03 Corrected Conc (mg/kg): 1.607

2.03

Se ID: 30040 + 15 PPB Seq. No.: 00042 A/S Pos.: 15 Date: 08/04/95

Replicate 1 Time: 11:38

$r = 0.99654$
$y = 0.0024x + 0.010$
$x = 4.38$ ug/l
$x = 0.875$ mg/kg

Peak Area (A-s): 0.056 Peak Height (A): 0.052
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 11.54 Corrected Conc (mg/kg): 2.308

Se ID: 648-30046-MSA Seq. No.: 00043 A/S Pos.: 20 Date: 08/04/95

Replicate 1 Time: 11:40
Peak Area (A-s): 0.027 Peak Height (A): 0.030
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 4.56 Corrected Conc (mg/kg): 1.722

Se ID: 30046 + 5.0 PPB Seq. No.: 00044 A/S Pos.: 21 Date: 08/04/95

Replicate 1 Time: 11:43
Peak Area (A-s): 0.062 Peak Height (A): 0.054
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 13.18 Corrected Conc (mg/kg): 4.972

Se ID: 30046 + 10 PPB Seq. No.: 00045 A/S Pos.: 22 Date: 08/04/95

Replicate 1 Time: 11:46
Peak Area (A-s): 0.075 Peak Height (A): 0.063
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.066
Concentration (ug/L): 16.19 Corrected Conc (mg/kg): 6.110

Se ID: 30046 + 15 PPB Seq. No.: 00046 A/S Pos.: 23 Date: 08/04/95

$r = 0.9574$
$y = 0.0038x + 0.$
$x = 6.52$ ug/l
$x = 2.48$ mg/l

Replicate 1 Time: 11:48
Peak Area (A-s): 0.086 Peak Height (A): 0.074
Background Pk Area (A-s): 0.121 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.077
Concentration (ug/L): 19.09 Corrected Conc (mg/kg): 7.203

Se ID: ACCV Seq. No.: 00047 A/S Pos.: 36 Date: 08/04/95

Replicate 1 Time: 11:51
Peak Area (A-s): 0.100 Peak Height (A): 0.117
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 22.45 90% rec Corrected Conc (mg/kg): ----------

QC sample is ~~out of~~ within range 22.50 - 27.50

pan 5.4-95

Se ID: CCB Seq. No.: 00048 A/S Pos.: 37 Date: 08/04/95

Replicate 1 Time: 11:53
Peak Area (A-s): 0.006 Peak Height (A): 0.015
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.030

Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.75 Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

 Book No. 997 TITLE Run # 1C

From Page No. 4
Test Performed: "
Method Number: "
Date: 8-2-98
Work Performed By: PAR

stds rack in at 8:00am, out at 9:00 am, 95°C
ccv/ccB rack in at 8:00 am out at 9:00am, 95°C
RACK I in at 11:00 am, out at 11:30 am, 95°C

Job No.	ID No.		Read	Conc	DF	Amt	Unit	Final Conc	
	Blank		0						r = 0.99993
	0.5		11						y = 19.6x + 0.59
	1.0		21						x = -0.03
	5.0		97						
	10.0		197						
time 1530	ICV		99	5.03		100ml	mg/L	5.03	TV=5.0; 101%Rec
1532	ICB		0	<0.20				<0.20	
1534	CCV		22	1.09				1.09	
1536	CCB		0	<0.20				<0.20	
	CRA		5	0.225				0.225	
	PBS		0	<0.20		0.20g	mg/kg	<0.10	
	LCSS		68	3.44	2	0.04g	mg/kg	17.22	LOT # 221 TV = 23.7 range 9.48-36.7
RACK I									
9801.698	30006.01	16	6	<0.20		0.20g	mg/kg	<0.10	
	30007.01	17	0	<0.20				<0.10	
	30008.01	28	0	<0.20				<0.10	
	30009.01	80	0	<0.20				<0.10	
	30010.01	90	0	<0.20				<0.10	
	30011.01	139	0	<0.20				<0.10	
	30012.01	223	0	<0.20				<0.10	
time 1600	CCV		23	1.14		100ml	mg/L	1.14	
1602	CCB		0	<0.20				<0.20	
9801.698	30013.01	60	2	<0.20		0.20g	mg/kg	<0.10	
	30014.01	78	1	<0.20				<0.10	
	30015.01	93	2	<0.20				<0.10	
	30016.01	77	1	<0.20				<0.10	
	30017.01	431	2	<0.20				<0.10	

To Page No. 1A

Witnessed & Understood by me, [signature] Date 8/3/98
Invented by
Recorded by PAR Date 8-2-98

From Page No. 176 — Hg init RACK II init 11:00am; out @ 11:30am, 5°C.
Test Performed:
Method:
Date: 8-2-95
Work Performed:

Job No. / ID No.		Inj	Level	Conc.	DF	Amt	Unit	Final Conc.	
RACK II									
9501.648	30018.01	257	1	<0.20		0.2g	mg/kg	<0.10	
	30019.01	193	2	<0.20				<0.10	
	30020.01	82	2	<0.20				<0.10	
	30021.01	23	3	<0.20				<0.10	
	30022.01	89	8	0.370				~~0.370~~ 0.185	RPD=6.5
Time: 1624	CCV		23	1.14		100ml	mg/l	1.14	
1626	CCB		0	<0.20				<0.20	
9501.648	30023.01	39	1	<0.20		0.2g	mg/kg	<0.10	
	30024.01	53	2	<0.20				<0.10	
	30025.01	75	2	<0.20				<0.10	
	30025 D	38	1	<0.20				<0.10	RPD=10
	30025 S	218	17	0.928				0.414	0.414 / 0.5 x 100 = 82.8%
	30026.01	230	1	<0.20				<0.10	RH 7SP
	30027.01	209	2	<0.20				<0.10	RH 7SG
BACK III	30028.01	267	1	<0.20				<0.10	RH 8SG
	30029.01	246	1	<0.20				<0.10	RH 8SB
	30030.01	284	1	<0.20				<0.10	RH 9SB
Time: 1644	CCV		23	1.14		100ml	mg/l	1.14	
1650	CCB		0	<0.20				<0.20	
	30031.01	157	1	<0.20		0.2g	mg/kg	<0.20	RH 9SG
	30032.01	361	8	0.378				0.189	RH 10SP
	30033.01	395	2	<0.20				<0.20	RH 10SG
	30034.01	7	9	0.429				0.215	RH 10ASP
	30035.01	320	4	0.174				<0.10	RH 10SB

To Page No. 178

Witnessed & Understood by me,	Date	Invented by	Date
KM	8/3/95	Recorded by PAK	8-2-95

From Page No. 17 Hg cont'd
Test Performed:
Method Number:
Date: 5-22-95
Work Performed By: PHL

Job No.	ID No.	PO#	Read	Conc	DF	Amt	Unit	Final Conc	
9501.648	30036.01	66	4	<0.20		0.20g	mg/kg	<0.10	RH11SG
	30037.01	18	4	<0.20				<0.10	RH11SB
	30038.01	14	2	<0.20				<0.10	RH12SG
	30039.01	20	10	0.491				0.247	BCDC2SB
*	30040.01	63	11	0.534		↓	↓	0.266	BCDC3SB
time: 1710	CCV		24	1.20		100ml	ug/l	1.20	
1712	CCB		0	<0.20		↓	↓	<0.20	
RACT									
9501.648	30041.01	21	3	<0.20		0.20g	mg/kg	<0.10	BCDC1SB
	30042.01	26	3	<0.20				<0.10	BCDC1SP
	30043.01	22	3	<0.20				<0.10	BCDC1SG
	30044.01	5	24	1.20				0.598	RH1D
	30045.01	4	9	0.429				0.215	RH2D
RH2D (DUP)	30045.D	57	9	0.429				0.215	RPD-NC
RH2D (spike)	30045.S	24	22	1.09				0.545	0.545-0.215 / 0.50 x 100 = 66%
	30046.01	45	17	0.830				0.419	
	30048.01	20	35	1.76				0.879	
	30049.01	26	14	0.685		↓	↓	0.342	
time: 1734	CCV		24	1.20		100ml	ug/l	1.20	
1736	CCB		0	<0.20		↓	↓	<0.20	
9501.648	30050.01	NJ	15	0.736		0.20g	mg/kg	0.368	RH1-3F
	30050.D01	118	11	0.532				0.266	0.623-0.368 / 0.50 x 100 = 51%
	30050.S01	25	25	1.25				0.623	
	30052.S01	35	169	8.60		↓	↓	4.30	
Time: 1746	CCV		24	1.20		100ml	ug/l	1.20	
1748	CCB		0	<0.20		↓	↓	<0.20	

To Page No.

Witnessed & Understood by me, KW Date 8/3/95

Invented by Date 8-2-95

Recorded by PHL

CHART NO. 056-7300

PERKIN-ELMER CHART NO. 056-7300

CHART NO. 056-7300
PERKIN-ELMER
RH2D (Spike)
RH2D (Cond)
RH2A
RH1D
BCDC1SG
BCDC1SF
BCDC1SD
210

Test Performed: METALS DIGESTION
Date: 8-1-95
Work Performed by: T. SEVMORE

Job Number	ID Number	pH (1 - 14)	Color	Clarity	Texture	Artifacts	Digestion Code (ICP)	Digestion Code (HGA)	Initial Weight or Volume	Final Weight or Volume	Color (Final)	Clarity (Final)	
9501.648	30006.01						21	22	100	200ml	Y	C	
	30007.01												
	30008.01												
	30009.01												
	30010.01												
	30011.01												
	30012.01												
	30013.01												
	30014.01												
	30015.01												
	30016.01												
	30017.01												
	30018.01												
	30019.01												
	30020.01												
	30021.01												
	30022.01												
	30023.01												
	30024.01												
	30025.01												
	30026.01 AVG												
	30025.01 SPIKE Δ 7											C	
	PBS 10666 # 1												
	LCSS # 1												
	PBS 10667 # 2						22 mg/L 22						
	LCSS # 2												
	30026.01						21	22			Y		RH 7 SP
	30027.01												RH 7 SG
	30028.01												RH 8 SG

Comments:

BALANCE MODEL _____
CALIBRATION SERIAL # _____
0.50g = ____
1.00g = ____
2.00g = ____

Circle one reference

REFERENCE	METHOD		
CLP	____		
SW846	3050 (SOLIDS)	3010 (ICP-WATER)	3020 (FURNACE-WATER)
OTHER	A added 2.0 ml of ICP spike (427-73)		
	F added 2.0 ml of GFAA spike (1021-7-2)		

Approved by: _____ Date: 8/4/95

217

Test Performed: METALS DIGESTION

Date: 8-1-95

Work Performed by: J. SOMMERS

Job Number	ID Number	pH (1 - 14)	Color	Clarity	Texture	Artifacts	Digestion Code (ICP)	Digestion Code (HGA)	Initial Weight or Volume	Final Weight or Volume	Color (Final)	Clarity (Final)	
950. GB	30027.01						21	22	100g	200ml	Y	C	RH8SB
	30030.01												RH9SB
	30031.01												RH9SG
	30032.01												RH10SP
	30033.01												RH10SG
	30034.01												RH10ASP
	30035.01												RH10SB
	30036.01												RH11SG
	30037.01												RH11SB
	30038.01												RH12SG
	30039.01												BCDC2SB
	30040.01												BCDC3SB
	30041.01												BCDC1SB
	30042.01												BCDC1SP
	30043.01												BCDC1SG
(DUP)	30043.01 DUP												BCDC1SG
(SPIKE)	30043.01 SPIKE DF												BCDC1SG
	30044.01								.44g				RH1D
	30045.01								1.00g				RH2D
	PBS 10GB #3								1.00		CL		
	LCSS #3								1.00				
	PBS 10GA #4							22	1.00g				
	LCSS #4								1.00g				
									1.00g DF=5				
	30046.01						21	22	0.53g	200ml	Y	C	
	30048.01								0.40g				
	30049.01								0.70g				
	30050.01								1.00g				
	30050.01 DUP												

Comments:

BALANCE MODEL _____

CALIBRATION SERIAL # _____

0.50g = _____

1.00g = _____

2.00g = _____

Circle one reference

REFERENCE	METHOD		
CLP	—		
SW846	3050 (SOLIDS)	3010 (ICP-WATER)	3020 (FURNACE-WATER)
OTHER	Δ added 2.0ml of ICP spike (922-73). F added 2.0ml of GFAA spike (1021-7-2)		

Approved by: CW Date: 8/4/95

218

METALS DIGESTION/EXTRACTION CODES

01 E.P. TOX Extraction Met[illegible]
02 E.P. TOX Extraction Organics
03 E. P. TOX Extraction Miscellaneous
04 E.P. TOX Digestion ICP
05 TCLP Extraction Metals
06 TCLP Extraction Organics
07 TCLP ZHE Extraction Purgeables
08 TCLP Digestion ICP
09 California Wet Test Extraction Metals
10 California Wet Test Extraction Organics
11 California Wet Test Digestion/ICP
12 Metals Available ICP
13 E.P. TOX Cr +6
14 MMWEP Extraction Metals
15 MMWEP Extraction Wet Chem.
16 MMWEP Digestion ICP
17 MMWEP Digestion Furnace
18 Cal. Wet Test Cr +6
19 TCLP Cr +6
20
21 ICP/Flame
22 Furnace
23 CR +6
24 Total Recoverable ICP
25 Total Recoverable Furnace
26 Soluble Metals ICP
27 Soluble Metals Furnace
28 Metals on Air Filters
29 Miscellaneous

COLOR CODES

R Red
O Orange
G Green
Y Yellow
B Blue
BR Brown
BK Black
CL Clear

CLARITY CODES (LIQUID)

CL Cloudy
C Clear

TEXTURE CODES (SOLID)

H Homogeneous
M Mixture
F Fine Soil
G Granular Soil
SL Sludge
CY Clay
SD Sand

COMMENTS

1 Reactive
2 Effervescent
3 Phase Change
4 Precipitation
5 Other (Explain)

ARTIFACTS

1 Rocks
2 Sticks, Leaves
3 Shavings
4 Other (Explain)

MEMORANDUM

TO: Dave Hendren

FROM: Gary Hahn

DATE: August 8, 1995

SUBJECT: TAT -Chicago
Project No. EIL0614AAA
Circle Smelting

RE: 9501.648, SDG # 30047

CC: Lab File

Attached is the laboratory report of the analyses conducted on samples received at the Analytical Services Center on July 22, 1995. Analyses was performed according to the procedures set forth in the USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis, ILM03.0.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/fal
Enclosure

Case Narrative
TAT-Chicago
Project No. EIL0614AAA
9501.648
SDG # 30047

Results were submitted by facsimile on August 7, 1995.

Samples were dust balls and could not be passed through the requested 250 mesh sieve or a 100 mesh sieve. Dave Hendren was notified and requested that the samples be analyzed as solids.

The mercury analysis was not performed on sample RH9D due to insufficient weight.

Due to the levels of lead detected in the original analyses, all samples were analyzed by ICP methodology.

The continuing calibration blank (CCB) analyzed on 8/7/95 at 2234 hours slightly exceeded the absolute CRDL for lead. The instrument was recalibrated and the affected samples reanalyzed.

The duplicate analysis of sample RH9D exceeded the RPD criterion for chromium and lead. Reported sample results have been flagged accordingly. No further action is required.

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 the Manager's designee, as verified by the following signature.

Gary Hahn

Gary Hahn - Manager
Analytical Services Center
August 8, 1995

PAGE 1 OF 4

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.

PROJECT NAME: CIRCLE SMELTING

SAMPLERS: *(Signature)* MIKE MANSINI

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metals	Screen + Total RCRA Metals *						REMARKS
RH1SB	7/18	1130	X		RH1	1	X	X						
RH1SG	7/18	1130	X		RH1	1	X	X						Verbal Results Required 8/8
RH2SG	7/18	1345	X		RH2	1	X	X						FAX RESULTS to
RH2SB	7/18	1355	X		RH2	1	X	X						DAVE HENDRIN
BES1SP	7/18	1250	X		BES	1	X	X						(312) 663-1090
BES1SB	7/18	1317	X		BES	1	X	X						
BES1SG	7/18	1300	X		BES	1	X	X						
BP5P	7/18	1920	X		BP	1	X	X						
BP5G	7/19	0730	X		BP	1	X	X						* screen solids and analyze
BP5B	7/19	0755	X		BP	1	X	X						per DAVE HENDRINS instructions
RH3SB	7/19	0915	X		RH3	1	X	X						
RH3SG	7/19	0930	X		RH3	1	X	X						
RH4SB	7/19	1030	X		RH4	1	X	X						
RH5SG	7/19	1112	X		RH5	1	X	X						
RH5SB	7/19	1114	X		RH5	1	X	X						

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
MIKE CMANSINI	7/21/95 1900				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	
FedEx	7.22.95 0945				SHIPPED VIA FED EX custody label: # 45805 45806

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME

SAMPLERS: (Signature)

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metal / Sieve + Total PCBs*						REMARKS
RH6SB	7/19	1327	X		RH6	1	X	X					* See PAGE 1
RH6ASB	7/19	1327	X		RH6	1	X	X					
RH6SG	7/19	1335	X		RH6	1	X	X					
RH7SB	7/19	1455	X		RH7	1	X	X					
RH7ASB	7/19	1455	X		RH7	1	X	X					
RH7SF	7/19	1302	X		RH7	1	X	X					
RH7SG	7/19	1447	X		RH7	1	X	X					
RH8SG	7/20	0917	X		RH8	1	X	X					
RH8SB	7/20	0905	X		RH8	1	X	X					
RH9SB	7/20	1027	X		RH9	1	X	X					
RH9SG	7/20	1022	X		RH9	1	X	X					
RH10SB	7/20	1020	X		RH10	1	X	X					
RH10SG	7/20	1020	X		RH10	1	X	X					
RH10ASB	7/20	1020	X		RH10	1	X	X					
RH10SB	7/20	1020	X		RH10	1	X	X					

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	7/21/95 1900				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
	7-22-95 1045			See PAGE 1	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5- 04141

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Total RCRA Metals	Sulfides + Total Reactive Cyanide	REMARKS
	CIRCUIT SMELTING				

SAMPLERS: *(Signature)*
M.D.C. Moore

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metals	Sulfides + Total Reactive Cyanide	REMARKS
RH11SC	7/20	1000	X		RH11	1	X	X	
RH11SB	7/20	0955	X		RH11	1	X	X	
RH12SC	7/20	1030	X		RH12	1	X	X	
BCDC25B	7/19	0955	X		BCDC	1	X	X	
BCDC95B	7/19	0955	X		BCDC	1	X	X	
BCDC15B	7/19	1020	X		BCDC	1	X	X	
BCDC15?	7/19	1020	X		BCDC	1	X	X	* See page 1
BCDC15S	7/19	1020	X		BCDC	1	X	X	
RH1D	7/18	1522	X		RH1	1	X	X	
RH2D	7/18	1355	X		RH2	1	X	X	
RH3D	7/19	0820	X		RH3	1	X	X	
RH5D	7/19	1110	X		RH5	1	X	X	
RH6D	7/19	1330	X		RH6	1	X	X	
RH7D	7/19	1455	X		RH7	1	X	X	
RH9D	7/20	0910	X		RH9	1	X	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
M.D. C Moore	7/21/95 1400				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	
FedEx	7.22.95 1045				

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

CT

5 04442

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS							REMARKS
	CIRCLE SMELTING								
SAMPLERS: (Signature)									
	Mike C Mingo								
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION				
RH9D	7/20	1175	X		RH9	1	X	X	
BESD	7/19	1245	X		BES	1	X	X	
									* See page one.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Mike C Mingo	7/21/95 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
	7-22-95 0930				

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

5 04420

Ecology and Environment, Inc.
Analytical Services Center
Cooler Receipt Form

PACKAGE RECEIPT #: 1415 NUMBER OF COOLERS: 2 DATE RECEIVED: 7.22.95

E&E Project #: _____ Project or Site Name: Circle Smelting (TAT-Chicago)

A: Preliminary Examination Phase (CIRCLE ONE)

1 Did coolers come with airbill or packing slip? _____ (YES) NO

if YES, enter carrier here and print airbill # below: FedEx

2 Did cooler(s) have custody seals? _____ (YES) NO

if YES, how many and where: 2 (1)

3 Were custody seals unbroken and intact on receipt? _____ (YES) NO

4 Where custody seals dated and signed? _____ (YES) NO

if YES, enter Date: 7.21.95 Name: _____

5 Initial here to acknowledge receipt of cooler(s): JMH

B Unpacking Phase:

Date Cooler(s) Opened: 7.24.95 C-O-C Numbers: _____

Coolers Opened By(print): J. Hendricks (sign): _____

6 Where C-O-C forms received and sealed in plastic bag? _____ (YES) NO

7 Was the project identifiable from the C-O-C form? _____ (YES) NO

if YES, enter the project number and name in the heading above.

8 Was enough packing material used in cooler(s)? _____ (YES) NO

Circle type of material: _____ (Vermiculite) _____ Bubble Wrap _____ Other _____

9 If required, was enough ice used?: _____ (YES) ~~NO~~

if YES, circle type of ice: _____ (WET) DRY BLUE Other _____

10 Was a temperature blank included inside cooler(s)? _____ YES (NO)

if Yes, indicate temperature in table below.

If No, indicate Cooler temperature in table below.

11 Were all containers sealed in separate plastic bags?: _____ (YES) NO

12 Did all containers arrive unbroken and in good condition? _____ (YES) NO

C Login Phase:

Date Samples Logged in: 7.24.95

Samples logged in By(print): J. Hendricks (sign): _____

13 Were all container labels complete(eg.date,time,preserv.)? _____ (YES) NO

14 Were all C-O-C forms filled out properly in ink and signed? _____ (YES) NO

15 Did the C-O-C form agree with containers received? _____ (YES) NO

16 Were the correct containers used for the tests requested? _____ (YES) NO

17 Were the correct preservatives listed on the sample labels? _____ (YES) NO

18 Was a sufficient sample volume sent for the tests requested? _____ (YES) NO

19 Were all volatile samples received without head space? _____ N/A YES NO *

Please record Temp. Blank or Cooler Temp. for each cooler, range (2 - 5 C°)

AIRBILL #	TEMP.C°	AIRBILL #	TEMP.C°	AIRBILL #	TEMP.C°
5426590673	3.5				
* Cooler 2	no ice	22°C			

* If NO or Temp. outside of acceptable range a Discrepancy form must be filed.

TAT - CHICAGO

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30047_

SOW No.: ILM03.0

TAT Sample No.	Lab Sample ID
_RH5D_____	_30047_____
_RH9D_____	_30051_____
_RH9DD_____	_30051D_____
_RH9DS_____	_30051S_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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:

_____

_____

_____

_____

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 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.

Signature: Gary Hahn Name: Gary Hahn_____

Date: 8-9-95 Title: Laboratory Manager_____

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH5D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

Matrix (soil/water): SOIL_ Lab Sample ID: 30047

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	2.1			P
7440-39-3	Barium	76.8			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	10.2		*	P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	37.7		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.62	B		F
7440-22-4	Silver	0.36	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

TAT SAMPLE NO.

RH9D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

Matrix (soil/water): SOIL_ Lab Sample ID: 30051

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.9	B		P
7440-39-3	Barium	27.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.63	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	1.9	B	*	P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	15.9		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.40	U	W	F
7440-22-4	Silver	0.99	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	1000.0	1073.58	107.4	500.0	519.54	103.9	520.67	104.1	P
Barium	1000.0	1025.36	102.5	500.0	493.11	98.6	488.54	97.7	P
Beryllium									NR
Cadmium	500.0	518.83	103.8	500.0	498.95	99.8	497.48	99.5	P
Calcium									NR
Chromium	1000.0	1061.41	106.1	500.0	510.55	102.1	506.29	101.3	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	1061.54	106.2	1000.0	1005.19	100.5	1006.17	100.6	P
Magnesium									NR
Manganese									NR
Mercury	5.0	4.87	97.4	1.0	1.04	104.0	1.14	114.0	CV
Nickel									NR
Potassium									NR
Selenium	20.0	20.79	103.9	25.0	24.45	97.8	26.61	106.4	F
Silver	200.0	192.58	96.3	500.0	517.57	103.5	503.10	100.6	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				500.0	511.90	102.4			P
Barium				500.0	485.69	97.1			P
Beryllium									NR
Cadmium				500.0	496.05	99.2			P
Calcium									NR
Chromium				500.0	504.25	100.8			P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	1065.10	106.5	1000.0	1006.71	100.7	989.76	99.0	P
Magnesium									NR
Manganese									NR
Mercury				1.0	1.14	114.0	0.99	99.0	CV
Nickel									NR
Potassium									NR
Selenium				25.0	22.59	90.4			F
Silver				500.0	504.70	100.9			P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	985.26	98.5			P
Magnesium									NR
Manganese									NR
Mercury				1.0	1.04	104.0	1.04	104.0	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				1.0	1.14	114.0	1.14	114.0	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

0 1

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				1.0	0.99	99.0			CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic				20.0	21.23	106.1	23.30	116.5
Barium				400.0	416.69	104.2	419.90	105.0
Beryllium								
Cadmium				10.0	9.73	97.3	9.73	97.3
Calcium								
Chromium				20.0	21.74	108.7	21.66	108.3
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury	0.2	0.27	135.0					
Nickel								
Potassium								
Selenium	5.0	4.29	85.8					
Silver				20.0	20.20	101.0	20.48	102.4
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0	6.03	100.5	3.11	51.8
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0			7.27	121.2
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead				6.0			5.24	87.3
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Preparation Blank Matrix (soil/water): SOIL_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.6	U	4.6	U	4.6	U	4.6	U	0.920	U	P
Barium	-7.2	B	-7.0	B	-7.6	B	-7.5	B	-1.251	B	P
Beryllium											NR
Cadmium	0.5	U	0.5	U	0.5	U	0.5	U	-0.112	B	P
Calcium											NR
Chromium	0.5	U	0.5	U	0.5	U	0.5	U	-0.115	B	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U	-3.1		0.540	U	P
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	F
Silver	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U					P
Magnesium											NR
Manganese											NR
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30047_

ICP ID Number: OPTIMA_____ ICS Source: VHG_____

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								
Antimony								
Arsenic	0	0	9	4.6		6	4.6	
Barium	0	405	-5	444.6	109.8	-8	437.3	108.0
Beryllium								
Cadmium	23	792	-19	875.3	110.5	-18	866.0	109.3
Calcium								
Chromium	0	388	-1	463.3	119.4	-2	457.9	118.0
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver	0	873	1	908.5	104.1	1	902.7	103.4
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30047_

ICP ID Number: OPTIMA_____ ICS Source: VHG_____

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								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	67	765	-14	865.8	113.2	-14	875.9	114.5
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30047_

ICP ID Number: OPTIMA_____ ICS Source: VHG_____

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								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	67	765	-11			-11	871.2	113.9
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30047_

ICP ID Number: OPTIMA_____ ICS Source: VHG_____

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								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	67	765				-11	857.0	112.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

5A
SPIKE SAMPLE RECOVERY

TAT SAMPLE NO.

RH9DS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: 100.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	407.3980		1.8768	B	400.00	101.4		P
Barium	75-125	410.3110		27.7816	B	400.00	95.6		P
Beryllium									NR
Cadmium	75-125	9.5674		0.6346	B	10.00	89.3		P
Calcium									NR
Chromium	75-125	46.5068		1.8604	B	40.00	111.6		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	122.5978		15.8718		100.00	106.7		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver	75-125	10.8172		0.9854	B	10.00	98.3		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

TAT - CHICAGO

6
DUPLICATES

TAT SAMPLE NO.

RH9DD

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: 100.0 % Solids for Duplicate: _100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	2.0	1.8768	B	2.2112		16.4		P
Barium		27.7816	B	27.8862	B	0.4		P
Beryllium								NR
Cadmium		0.6346	B	0.4824	B	27.3		P
Calcium								NR
Chromium	2.0	1.8604	B	4.0338		73.7	*	P
Cobalt								NR
Copper								NR
Iron								NR
Lead		15.8718		66.5430		123.0	*	P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver		0.9854	B	0.8678	B	12.7		P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

TAT - CHICAGO

7

LABORATORY CONTROL SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				65.1	69.6		31.9	97.0	106.9
Barium				319.0	321.9		213.0	415.0	100.9
Beryllium									
Cadmium				81 5	80.0		40.7	114.0	98.2
Calcium									
Chromium				5? 4	52.7		33.9	80.4	91.8
Cobalt									
Copper									
Iron									
Lead				128.0	120.4		68.9	179.0	94.1
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver				85.0	86.4		34.0	125.0	101.6
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

TAT - CHICAGO

7

LABORATORY CONTROL SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury				23.7	15.0		10.0	36.7	63.3
Nickel									
Potassium									
Selenium				47.6	41.3		24.3	69.5	86.8
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

FORM VII - IN ILM03.0

8
STANDARD ADDITION RESULTS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract:__________

Lab Code: EANDE_ Case No.: 9501.648 SAS No.:______ SDG No.:30047_

Concentration Units: ug/L

TAT Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

TAT - CHICAGO

9
ICP SERIAL DILUTION

TAT SAMPLE NO.

RH9DL

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	9.38	B	23.00	U	100.0		P
Barium	138.91	B	112.23	B	19.2		P
Beryllium							NR
Cadmium	3.17	B	2.50	U	100.0		P
Calcium							NR
Chromium	9.30	B	9.24	B	0.6		P
Cobalt							NR
Copper							NR
Iron							NR
Lead	79.36		83.96		5.8		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver	4.93	B	9.00	U	100.0		P
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

ICP ID Number: OPTIMA_____ Date: 07/20/95

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	188.98		10	4.6	P
Barium	233.53		200	2.8	P
Beryllium			5		NR
Cadmium	226.50		5	0.5	P
Calcium			5000		NR
Chromium	205.55		10	0.5	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	2.7	P
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver	328.07		10	1.8	P
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

ICP ID Number: _____ Date: 04/28/95

Flame AA ID Number : 2380_____

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		0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

ICP ID Number: _____ Date: 07/13/95

Flame AA ID Number : _____

Furnace AA ID Number : 5100A_____

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

Comments:

TAT - CHICAGO

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30047_

ICP ID Number: OPTIMA_____ Date: 08/25/94

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	___
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	315.88	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	205.55	0.0000000	0.0000000	0.0000000	0.0000000	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	
Iron	302.11	0.0000000	0.0000000	0.0000000	0.0000000	
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.48	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium						
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.84	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

TAT - CHICAGO

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30047_

ICP ID Number: OPTIMA_____ Date: 06/22/95

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	50000.0	P
Antimony	10.00	2000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	5000.0	P
Beryllium	10.00	1000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	100000.0	P
Chromium	10.00	10000.0	P
Cobalt	10.00	10000.0	P
Copper	10.00	100000.0	P
Iron	10.00	250000.0	P
Lead	10.00	10000.0	P
Magnesium	10.00	100000.0	P
Manganese	10.00	10000.0	P
Mercury			NR
Nickel	10.00	10000.0	P
Potassium	10.00	50000.0	P
Selenium			NR
Silver	10.00	10000.0	P
Sodium	10.00	50000.0	P
Thallium	10.00	10000.0	P
Vanadium	10.00	10000.0	P
Zinc	10.00	5000.0	P

Comments:

TAT - CHICAGO

13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30047_

Method: P_

TAT Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/03/95	1.00	200
PBS	08/03/95	1.00	200
RH5D	08/03/95	1.00	200
RH9D	08/03/95	1.00	200
RH9DD	08/03/95	1.00	200
RH9DS	08/03/95	1.00	200

TAT - CHICAGO

13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30047_

Method: F_

TAT Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/03/95	1.00	200
PBS	08/03/95	1.00	200
RH5D	08/03/95	1.00	200
RH9D	08/03/95	1.00	200
RH9DD	08/03/95	1.00	200
RH9DS	08/03/95	1.00	200

TAT - CHICAGO

13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30047_

Method: CV

TAT Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	08/07/95	0.04	100
PBS	08/07/95	0.20	100
RH5D	08/07/95	0.20	100

FORM XIII - IN ILM03.0

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: __________

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: ______ SDG No.:30047_

Instrument ID Number: OPTIMA_______ Method: P_

Start Date: 08/07/95 End Date: 08/07/95

TAT Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0533				X	X		X		X											X					
S	1.00	0539				X	X		X		X											X					
ICV	1.00	0544				X	X		X		X											X					
ICB	1.00	0549				X	X		X		X											X					
CCV	1.00	0557				X	X		X		X											X					
CCB	1.00	0602				X	X		X		X											X					
ICSA	1.00	0609				X	X		X		X											X					
ICSAB	1.00	0622				X	X		X		X											X					
CRI	1.00	0630				X	X		X		X											X					
PBS	1.00	0635				X	X		X		X											X					
LCSS	1.00	0641				X	X		X		X											X					
RH5D	1.00	0646				X	X		X		X											X					
RH9D	1.00	0651				X	X		X		X											X					
RH9DD	1.00	0656				X	X		X		X											X					
RH9DS	1.00	0700																									
CCV	1.00	0708				X	X		X		X											X					
CCB	1.00	0713				X	X		X		X											X					
RH9DS	1.00	0718				X	X		X		X											X					
RH9DL	5.00	0722				X	X		X		X											X					
ICSA	1.00	0727				X	X		X		X											X					
ICSAB	1.00	0732				X	X		X		X											X					
CRI	1.00	0739				X	X		X		X											X					
CCV	1.00	0744				X	X		X		X											X					
CCB	1.00	0749				X	X		X		X											X					

FORM XIV - IN ILM03.0

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30047_

Instrument ID Number: OPTIMA_____ Method: P_

Start Date: 08/07/95 End Date: 08/07/95

TAT 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	2115													X												
S	1.00	2117													X												
ICV	1.00	2121													X												
ICB	1.00	2123													X												
CCV	1.00	2127													X												
CCB	1.00	2133													X												
ICSA	1.00	2136													X												
ICSAB	1.00	2138													X												
CRI	1.00	2141																									
CRI	1.00	2144													X												
ZZZZZZ	1.00	2147																									
PBS	1.00	2150													X												
LCSS	1.00	2155													X												
RH5D	1.00	2157													X												
RH9D	1.00	2201													X												
RH9DD	1.00	2203													X												
CCV	1.00	2206													X												
CCB	1.00	2209													X												
RH9DS	1.00	2212																									
RH9DL	5.00	2214																									
ICSA	1.00	2217													X												
ICSAB	1.00	2220													X												
CRI	1.00	2225													X												
CCV	1.00	2229													X												
CCB	1.00	2234													X												
S0	1.00	2238													X												
S	1.00	2241													X												
ICV	1.00	2243													X												
ICB	1.00	2248													X												
CCV	1.00	2251													X												
CCB	1.00	2253													X												
ICSA	1.00	2256													X												
ICSAB	1.00	2305													X												

FORM XIV - IN ILM03.0

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30047_

Instrument ID Number: OPTIMA_____ Method: P_

Start Date: 08/07/95 End Date: 08/07/95

TAT 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
CRI	1.00	2308													X												
RH9DS	1.00	2318													X												
RH9DL	5.00	2321													X												
ICSA	1.00	2325													X												
ICSAB	1.00	2328													X												
CRI	1.00	2331													X												
CCV	1.00	2334													X												
CCB	1.00	2338													X												

FORM XIV - IN ILM03.0

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30047_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/07/95 End Date: 08/07/95

TAT 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	0516																		X						
S5	1.00	0519																		X						
S10	1.00	0522																		X						
S25	1.00	0525																		X						
S50	1.00	0527																		X						
ICV	1.00	0533																		X						
ICB	1.00	0538																		X						
CCV	1.00	0543																		X						
CCB	1.00	0549																		X						
CRA	1.00	0554																		X						
PBS	1.00	0600																		X						
PBSA	1.00	0606	0.0																	X						
PBSA	1.00	0611	116.3																	X						
LCSS	20.00	0617																		X						
LCSSA	20.00	0622	100.8																	X						
RH5D	1.00	0628																		X						
RH5DA	1.00	0634	88.8																	X						
CCV	1.00	0639																		X						
CCB	1.00	0644																		X						
RH9D	1.00	0650																		X						
RH9DA	1.00	0655	0.0																	X						
RH9DA	1.00	0701	45.8																	X						
CCV	1.00	0706																		X						
CCB	1.00	0712																		X						

FORM XIV - IN ILM03.0

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30047_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/07/95 End Date: 08/07/95

TAT 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	1445																X								
S0.5	1.00	1447																X								
S1	1.00	1450																X								
S5	1.00	1453																X								
S10	1.00	1456																X								
ICV	1.00	1500																X								
ICB	1.00	1502																X								
CCV	1.00	1504																X								
CCB	1.00	1506																X								
CRA	1.00	1508																X								
ZZZZZZ	1.00	1510																								
PBS	1.00	1512																X								
LCSS	2.00	1514																X								
ZZZZZZ	1.00	1516																								
ZZZZZZ	1.00	1518																								
ZZZZZZ	1.00	1520																								
ZZZZZZ	1.00	1522																								
ZZZZZZ	1.00	1524																								
ZZZZZZ	1.00	1526																								
CCV	1.00	1528																X								
CCB	1.00	1530																X								
ZZZZZZ	1.00	1532																								
ZZZZZZ	1.00	1534																								
ZZZZZZ	1.00	1536																								
ZZZZZZ	1.00	1538																								
ZZZZZZ	1.00	1540																								
ZZZZZZ	1.00	1542																								
ZZZZZZ	1.00	1544																								
ZZZZZZ	1.00	1546																								
ZZZZZZ	1.00	1548																								
ZZZZZZ	1.00	1550																								
CCV	1.00	1552																X								

FORM XIV - IN ILM03.0

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30047_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/07/95 End Date: 08/07/95

TAT Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1554																X								
ZZZZZZ	1.00	1556																								
ZZZZZZ	1.00	1558																								
ZZZZZZ	1.00	1600																								
ZZZZZZ	1.00	1602																								
ZZZZZZ	1.00	1604																								
ZZZZZZ	1.00	1606																								
ZZZZZZ	1.00	1608																								
ZZZZZZ	1.00	1610																								
ZZZZZZ	1.00	1612																								
ZZZZZZ	1.00	1614																								
CCV	1.00	1616																X								
CCB	1.00	1620																X								
ZZZZZZ	1.00	1622																								
ZZZZZZ	1.00	1624																								
ZZZZZZ	1.00	1626																								
ZZZZZZ	1.00	1628																								
ZZZZZZ	1.00	1630																								
ZZZZZZ	1.00	1632																								
ZZZZZZ	1.00	1634																								
ZZZZZZ	1.00	1636																								
ZZZZZZ	1.00	1638																								
ZZZZZZ	1.00	1640																								
CCV	1.00	1642																X								
CCB	1.00	1644																X								
ZZZZZZ	1.00	1646																								
ZZZZZZ	1.00	1648																								
ZZZZZZ	1.00	1650																								
ZZZZZZ	1.00	1652																								
ZZZZZZ	1.00	1654																								
ZZZZZZ	1.00	1656																								
ZZZZZZ	1.00	1658																								

FORM XIV - IN ILM03.0

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30047_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/07/95 End Date: 08/07/95

TAT 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
ZZZZZZ	1.00	1700																												
ZZZZZZ	1.00	1702																												
ZZZZZZ	1.00	1704																												
CCV	1.00	1706																X												
CCB	1.00	1708																X												
ZZZZZZ	1.00	1710																												
ZZZZZZ	1.00	1712																												
ZZZZZZ	1.00	1714																												
ZZZZZZ	1.00	1716																												
ZZZZZZ	1.00	1718																												
ZZZZZZ	1.00	1720																												
ZZZZZZ	1.00	1722																												
ZZZZZZ	1.00	1724																												
ZZZZZZ	1.00	1726																												
ZZZZZZ	1.00	1728																												
CCV	1.00	1730																X												
CCB	1.00	1732																X												
ZZZZZZ	1.00	1734																												
ZZZZZZ	1.00	1736																												
ZZZZZZ	1.00	1738																												
ZZZZZZ	1.00	1740																												
ZZZZZZ	1.00	1742																												
ZZZZZZ	1.00	1744																												
ZZZZZZ	1.00	1746																												
ZZZZZZ	1.00	1748																												
ZZZZZZ	1.00	1750																												
ZZZZZZ	1.00	1752																												
CCV	1.00	1754																X												
CCB	1.00	1756																X												
ZZZZZZ	1.00	1758																												
ZZZZZZ	1.00	1800																												
ZZZZZZ	1.00	1802																												

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30047_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/07/95 End Date: 08/07/95

TAT 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
ZZZZZZ	1.00	1804																									
ZZZZZZ	1.00	1806																									
ZZZZZZ	1.00	1808																									
ZZZZZZ	1.00	1810																									
ZZZZZZ	1.00	1812																									
ZZZZZZ	1.00	1814																									
RH5D	1.00	1816																X									
CCV	1.00	1818																X									
CCB	1.00	1820																X									

FORM XIV - IN ILM03.0

Instrument ID: Optima
ICS Source: VHG
Date: 1/3/95
Units: ug/L

ICP Interference Check Sample Values

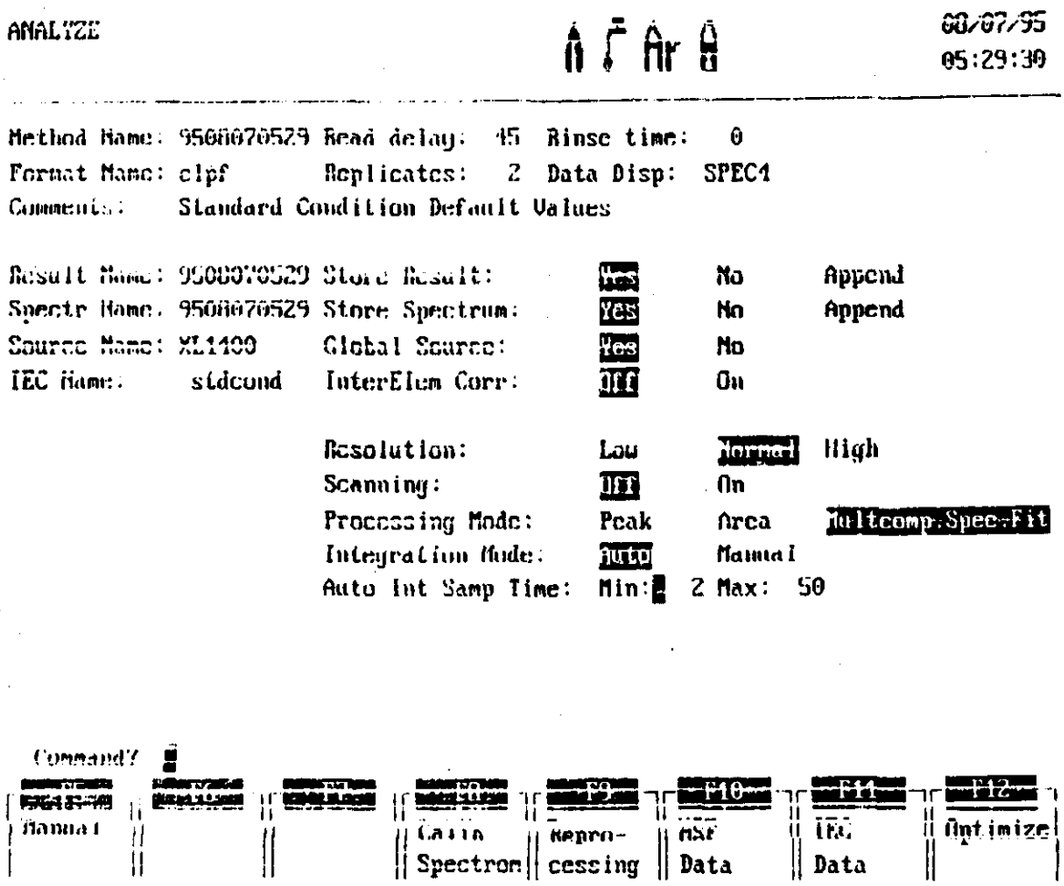
ELEMENT	MEAN	STANDARD DEVIATION	LOWER VALUE	UPPER VALUE
Al	526284	10613	421028	631541
Ba	405	4.7	324	486
Be	423	5.3	339	508
Cd	793	9.6	634	951
Cr	388	4.5	310	466
Co	390	4.7	312	468
Cu	451	9.3	361	542
Fe	201749	3909	161100	241650
Pb	765	10.2	612	918
Mg	478104	5865	382483	573724
Mn	447	6.2	357	536
Ni	745	8.2	596	894
Ag	873	13.3	698	1047
V	399	5.6	320	479
Zn	869	11.1	695	1043
Ca	456998	4616	365598	548397

#290

Raw Data
8/7/15
CLB

Δ 9501,648 As, Ag, Ba, Cd, Cr RUN #1

Δ PBS 1011, LCSS 803


ANALYZE
08/07/95
05:29:30
Method Name: 9508070529 Read delay: 45 Rinse time: 0
Format Name: clpf Replicates: 2 Data Disp: SPEC1
Comments: Standard Condition Default Values
Result Name: 9508070529 Store Result: Yes No Append
Spectr Name: 9508070529 Store Spectrum: Yes No Append
Source Name: XL1400 Global Source: Yes No
IEC Name: stdcond InterElem Corr: Off On
Resolution: Low Normal High
Scanning: Off On
Processing Mode: Peak Area Multicomp.Spec-Fit
Integration Mode: Auto Manual
Auto Int Samp Time: Min: 2 Max: 50
Command?
F9 Manual
F10 Data Spectrum
F11 Reprocessing
F12 ASF Data
F13 IEC Data
F14 Optimize

08/07/95 05:32
blank

rep	1	AG	sf	-134.8	
rep	1	ASILM	sf	-13.1	
rep	1	BA	sf	193.1	
rep	1	CD	sf	-32.1	
rep	1	CR	sf	2.5	
rep	1	PBILM	sf	57.4	
rep	2	AG	sf	-111.7	
rep	2	ASILM	sf	-15.0	
rep	2	BA	sf	448.3	
rep	2	CD	sf	-43.7	
rep	2	CR	sf	2.6	
rep	2	PBILM	sf	55.4	

08/07/95 05:36
blank

AG	av	-123.23	sf	sd	16.304	%cv	13.23
ASILM	av	-14.09	sf	sd	1.337	%cv	9.49
BA	av	320.70	sf	sd	180.444	%cv	56.27
CD	av	-37.86	sf	sd	8.196	%cv	21.65
CR	av	2.56	sf	sd	0.051	%cv	1.98
PBILM	av	56.40	sf	sd	1.481	%cv	2.63

08/07/95 05:37
#1 standard

rep	1	AG	sf	34626.0	
rep	1	ASILM	sf	726.8	
rep	1	BA	sf	19662.0	
rep	1	CD	sf	19116.2	
rep	1	CR	sf	7039.3	
rep	1	PBILM	sf	2737.1	
rep	2	AG	sf	35079.1	
rep	2	ASILM	sf	736.2	
rep	2	BA	sf	19930.3	
rep	2	CD	sf	19390.8	
rep	2	CR	sf	7087.0	
rep	2	PBILM	sf	2751.7	

08/07/95 05:37
#1 standard

AG	av	34852.66	sf	sd	320.785	%cv	0.92	conc 1000.0
ASILM	av	731.48	sf	sd	6.636	%cv	0.91	conc 1000.0
BA	av	19796.17	sf	sd	189.693	%cv	0.96	conc 1000.0
CD	av	19253.01	sf	sd	194.826	%cv	1.01	conc 1000.0
CR	av	7063.15	sf	sd	33.752	%cv	0.48	conc 1000.0
PBILM	av	2744.70	sf	sd	9.960	%cv	0.36	conc 2000.0

08/07/95 05:42
LCV1

rep	1	AG	conc	192.09	ppb
rep	1	ASILM	conc	1063.33	ppb
rep	1	BA	conc	1020.76	ppb
rep	1	CD	conc	915.91	ppb
rep	1	CR	conc	1005.74	ppb
rep	1	PBILM	conc	1042.55	ppb
rep	2	AG	conc	193.08	ppb

```
                rep   2  HSILM       conc    1083.84 ppb
                rep   2  BA          conc    1029.96 ppb
                rep   2  CD          conc     521.75 ppb
                rep   2  CR          conc    1067.08 ppb
                rep   2  PBILM       conc    1052.16 ppb

08/07/95 05:44
ICV1
    AG          av    192.58 ppb          sd      0.706 %cv    0.37
    HSILM       av   1073.58 ppb          sd     14.506 %cv    1.35
    BA          av   1025.36 ppb          sd      6.505 %cv    0.63
    CD          av    518.63 ppb          sd      4.128 %cv    0.80
    CR          av   1061.41 ppb          sd      8.019 %cv    0.76
    PBILM       av   1047.35 ppb          sd      6.797 %cv    0.65

08/07/95 05:47
ICB1
                rep   1  AG          conc      -0.34 ppb
                rep   1  HSILM       conc      -1.57 ppb
                rep   1  BA          conc      -7.99 ppb
                rep   1  CD          conc      -0.48 ppb
                rep   1  CR          conc      -0.13 ppb
                rep   1  PBILM       conc      -0.32 ppb

                rep   2  AG          conc      -1.12 ppb
                rep   2  HSILM       conc       2.85 ppb
                rep   2  BA          conc      -6.43 ppb
                rep   2  CD          conc      -0.46 ppb
                rep   2  CR          conc       0.51 ppb
                rep   2  PBILM       conc      -3.34 ppb

08/07/95 05:49
ICB1
    AG          av      -0.73 ppb          sd      0.550 %cv   74.99
    HSILM       av       0.64 ppb          sd      3.125 %cv  491.7
    BA          av      -7.21 ppb          sd      1.100 %cv   15.26
    CD          av      -0.47 ppb          sd      0.018 %cv    3.77
    CR          av       0.19 ppb          sd      0.451 %cv  238.2
    PBILM       av      -1.83 ppb          sd      2.132 %cv  116.5

08/07/95 05:56
CCV1
                rep   1  AG          conc     516.49 ppb
                rep   1  HSILM       conc     520.26 ppb
                rep   1  BA          conc     493.72 ppb
                rep   1  CD          conc     499.43 ppb
                rep   1  CR          conc     512.21 ppb
                rep   1  PBILM       conc     995.83 ppb

                rep   2  AG          conc     518.66 ppb
                rep   2  HSILM       conc     518.82 ppb
                rep   2  BA          conc     492.51 ppb
                rep   2  CD          conc     498.48 ppb
                rep   2  CR          conc     508.88 ppb
                rep   2  PBILM       conc     997.24 ppb

08/07/95 05:57
CCV1
    AG          av    517.57 ppb          sd      1.535 %cv    0.30
    HSILM       av    519.54 ppb          sd      1.015 %cv    0.20
```

[illegible]	av	[illegible] ppb	sd	1.015	%cv	0.20
BA	av	493.11 ppb	sd	0.858	%cv	0.17
CD	av	498.95 ppb	sd	0.676	%cv	0.14
CR	av	510.55 ppb	sd	2.353	%cv	0.46
PBILM	av	996.53 ppb	sd	0.996	%cv	0.10

08/07/95 06:00
CCB1

rep 1	HG	conc	-1.10	ppb
rep 1	ASILM	conc	-0.69	ppb
rep 1	BA	conc	-7.58	ppb
rep 1	CD	conc	0.07	ppb
rep 1	CR	conc	-0.47	ppb
rep 1	PBILM	conc	-12.13	ppb
rep 2	HG	conc	-1.24	ppb
rep 2	ASILM	conc	-1.70	ppb
rep 2	BA	conc	-6.47	ppb
rep 2	CD	conc	-0.38	ppb
rep 2	CR	conc	-0.22	ppb
rep 2	PBILM	conc	-13.98	ppb

08/07/95 06:02
CCB1

HG	av	-1.17	ppb	sd	0.095	%cv 8.11
ASILM	av	-1.20	ppb	sd	0.721	%cv 60.28
BA	av	-7.02	ppb	sd	0.786	%cv 11.18
CD	av	-0.13	ppb	sd	0.320	%cv 266.5
CR	av	-0.34	ppb	sd	0.178	%cv 52.14
PBILM	av	-13.06	ppb	sd	1.306	%cv 10.00

08/07/95 06:07
ICSH1

rep 1	HG	conc	0.55	ppb
rep 1	ASILM	conc	8.22	ppb
rep 1	BA	conc	-5.27	ppb
rep 1	CD	conc	-19.11	ppb
rep 1	CR	conc	-0.76	ppb
rep 1	PBILM	conc	-22.83	ppb
rep 2	HG	conc	0.94	ppb
rep 2	ASILM	conc	8.88	ppb
rep 2	BA	conc	-4.44	ppb
rep 2	CD	conc	-18.89	ppb
rep 2	CR	conc	-1.00	ppb
rep 2	PBILM	conc	-27.67	ppb

08/07/95 06:09
ICSH1

HG	av	0.64	ppb	sd	0.417	%cv 64.75
ASILM	av	8.55	ppb	sd	0.461	%cv 5.39
BA	av	-4.86	ppb	sd	0.588	%cv 12.10
CD	av	-19.00	ppb	sd	0.157	%cv 0.82
CR	av	-0.88	ppb	sd	0.173	%cv 19.71
PBILM	av	-25.25	ppb	sd	3.428	%cv 13.58

08/07/95 06:20
ICSAB1

rep 1	HG	conc	907.03	ppb
rep 1	ASILM	conc	6.37	ppb
rep 1	BA	conc	443.26	ppb

[illegible] ppb

rep	1	CD	conc	872.66	ppb
rep	1	CR	conc	462.41	ppb
rep	1	PBILM	conc	865.46	ppb
rep	2	AG	conc	910.06	ppb
rep	2	ASILM	conc	2.87	ppb
rep	2	BA	conc	445.87	ppb
rep	2	CD	conc	877.90	ppb
rep	2	CR	conc	464.14	ppb
rep	2	PBILM	conc	877.85	ppb

08/07/95 06:22
ICSAB1

AG	av	908.55	ppb	sd	2.139	%cv	0.24
AGILM	av	4.62	ppb	sd	2.474	%cv	53.52
BA	av	444.57	ppb	sd	1.844	%cv	0.41
CD	av	875.28	ppb	sd	3.705	%cv	0.42
CR	av	463.28	ppb	sd	1.228	%cv	0.27
PBILM	av	87[illegible].66	ppb	sd	8.762	%cv	1.01

[illegible initials] 8/7/95

08/07/95 06:25
CRII

rep	1	AG	conc	20.71	ppb
rep	1	ASILM	conc	0.26	ppb
rep	1	BA	conc	415.47	ppb
rep	1	CD	conc	9.73	ppb
rep	1	CR	conc	21.80	ppb
rep	1	PBILM	conc	411.69	ppb
rep	2	AG	conc	19.69	ppb
rep	2	ASILM	conc	1.71	ppb
rep	2	BA	conc	417.92	ppb
rep	2	CD	conc	9.74	ppb
rep	2	CR	conc	21.68	ppb
rep	2	PBILM	conc	408.14	ppb

08/07/95 06:2[illegible]
CRII

AG	av	20.20	ppb	sd	0.726	%cv	3.59
ASILM	av	0.99	ppb	sd	1.026	%cv	103.7
BA	av	416.69	ppb	sd	1.733	%cv	0.42
CD	av	9.73	ppb	sd	0.003	%cv	0.03
CR	av	21.74	ppb	sd	0.082	%cv	0.38
PBILM	av	40[illegible]	ppb	sd	2.511	%cv	0.61

[illegible initials] 8/7/95

08/07/95 06:29
CRII

rep	1	ASILM	conc	21.01	ppb
rep	1	PBILM	conc	-11.95	ppb
rep	2	ASILM	conc	21.45	ppb
rep	2	PBILM	conc	-16.09	ppb

08/07/95 06:30
CRII

ASILM	av	21.23	ppb	sd	0.314	%cv	1.48
PBILM	av	-14.[illegible]	ppb	sd	2.926	%cv	20.87

[illegible initials] 8/7/95

08/07/95 06:33
PBS1001

rep	1	AG	conc	-1.04	ppb
rep	1	ASILM	conc	-0.25	ppb
rep	1	BA	conc	-6.01	ppb
rep	1	CD	conc	-0.45	ppb
rep	1	CR	conc	-0.88	ppb
rep	1	PBILM	conc	-22.40	ppb
rep	2	AG	conc	-1.25	ppb
rep	2	ASILM	conc	-0.97	ppb
rep	2	BA	conc	-6.50	ppb
rep	2	CD	conc	-0.66	ppb
rep	2	CR	conc	-0.27	ppb
rep	2	PBILM	conc	-24.61	ppb

08/07/95 06:35
PBS1081

AG	av	-1.15 ppb	sd	0.148	%cv 12.93
ASILM	av	-0.61 ppb	sd	0.514	%cv 84.48
BA	av	-6.26 ppb	sd	0.346	%cv 5.54
CD	av	-0.56 ppb	sd	0.149	%cv 26.69
CR	av	-0.58 ppb	sd	0.435	%cv 75.52
PBILM	av	-23.50 ppb	sd	1.704	%cv 7.22

08/07/95 06:40
LCSS#1(8/03)

rep	1	AG	conc	430.79	ppb
rep	1	ASILM	conc	348.49	ppb
rep	1	BA	conc	1603.17	ppb
rep	1	CD	conc	398.72	ppb
rep	1	CR	conc	263.21	ppb
rep	1	PBILM	conc	571.35	ppb
rep	2	AG	conc	433.22	ppb
rep	2	ASILM	conc	347.77	ppb
rep	2	BA	conc	1615.69	ppb
rep	2	CD	conc	400.89	ppb
rep	2	CR	conc	263.83	ppb
rep	2	PBILM	conc	573.87	ppb

08/07/95 06:41
LCSS#1(8/03)

AG	av	432.01 ppb	sd	1.723	%cv 0.40
ASILM	av	348.13 ppb	sd	0.503	%cv 0.14
BA	av	1609.43 ppb	sd	8.857	%cv 0.55
CD	av	399.81 ppb	sd	1.540	%cv 0.39
CR	av	263.52 ppb	sd	0.439	%cv 0.17
PBILM	av	572.61 ppb	sd	1.787	%cv 0.31

08/07/95 06:44
30047.01

rep	1	AG	conc	0.40	ppb
rep	1	ASILM	conc	13.02	ppb
rep	1	BA	conc	383.54	ppb
rep	1	CD	conc	9.94	ppb
rep	1	CR	conc	50.78	ppb
rep	1	PBILM	conc	155.40	ppb
rep	2	AG	conc	0.49	ppb
rep	2	ASILM	conc	8.15	ppb
rep	2	BA	conc	384.26	ppb

	rep	2	CD	conc	10.35	ppb	
	rep	2	CR	conc	51.22	ppb	
	rep	2	PBILM	conc	164.64	ppb	

08/07/95 06:46
30047.01 RH5D

AG	av	0.44 ppb	sd	0.059	%cv	13.27
ASILM	av	10.59 ppb	sd	3.443	%cv	32.53
BA	av	383.90 ppb	sd	0.510	%cv	0.13
CD	av	10.14 ppb	sd	0.292	%cv	2.88
CR	av	51.00 ppb	sd	0.307	%cv	0.60
PBILM	av	160.02 ppb	sd	6.533	%cv	4.08

08/07/95 06:49
30051.01

rep	1	AG	conc	5.31	ppb
rep	1	ASILM	conc	6.29	ppb
rep	1	BA	conc	139.55	ppb
rep	1	CD	conc	2.99	ppb
rep	1	CR	conc	9.72	ppb
rep	1	PBILM	conc	53.17	ppb
rep	2	AG	conc	4.54	ppb
rep	2	ASILM	conc	12.48	ppb
rep	2	BA	conc	138.27	ppb
rep	2	CD	conc	3.36	ppb
rep	2	CR	conc	8.88	ppb
rep	2	PBILM	conc	52.71	ppb

08/07/95 06:51
30051.01 RH9D

AG	av	4.93 ppb	sd	0.544	%cv	11.04
ASILM	av	9.38 ppb	sd	4.382	%cv	46.69
BA	av	138.91 ppb	sd	0.907	%cv	0.65
CD	av	3.17 ppb	sd	0.266	%cv	8.37
CR	av	9.30 ppb	sd	0.598	%cv	6.43
PBILM	av	53.94 ppb	sd	0.325	%cv	0.61

08/07/95 06:54
30051.D

rep	1	AG	conc	4.27	ppb
rep	1	ASILM	conc	11.41	ppb
rep	1	BA	conc	139.57	ppb
rep	1	CD	conc	2.42	ppb
rep	1	CR	conc	21.21	ppb
rep	1	PBILM	conc	308.83	ppb
rep	2	AG	conc	4.41	ppb
rep	2	ASILM	conc	10.70	ppb
rep	2	BA	conc	139.29	ppb
rep	2	CD	conc	2.41	ppb
rep	2	CR	conc	19.13	ppb
rep	2	PBILM	conc	302.69	ppb

08/07/95 06:56
30051.D RH9D (DUP) RPD

AG	av	4.34 ppb	NC	sd	0.095	%cv	2.18
ASILM	av	11.06 ppb	16.4	sd	0.504	%cv	4.56
BA	av	139.43 ppb	0.37	sd	0.196	%cv	0.14
CD	av	2.41 ppb	NC	sd	0.009	%cv	0.36

CD	av	[illegible] ppb	NC	sd	0.009 %cv	[illegible]

CR	av	20.17 ppb	LLCRDL	sd	1.468 %cv	7.28
PBILM	av	~~305.76~~ ppb		sd	4.339 %cv	1.42

8/7/95

08/07/95 06:59
30051.5

rep	1	AG	conc	4.88	ppb
rep	1	ASILM	conc	5.90	ppb
rep	1	BA	conc	138.51	ppb
rep	1	CD	conc	2.36	ppb
rep	1	CR	conc	20.12	ppb
rep	1	PBILM	conc	299.24	ppb
rep	2	AG	conc	4.55	ppb
rep	2	ASILM	conc	6.30	ppb
rep	2	BA	conc	139.16	ppb
rep	2	CD	conc	2.57	ppb
rep	2	CR	conc	20.40	ppb
rep	2	PBILM	conc	295.81	ppb

08/07/95 07:00
30051.S

AG	av	~~4.72~~ ppb	sd	0.232 %cv	4.93
ASILM	av	~~6.10~~ ppb	sd	0.289 %cv	4.73
BA	av	~~1[illegible]8.84~~ ppb	sd	0.460 %cv	0.33
CD	av	~~[illegible].46~~ ppb	sd	0.152 %cv	6.16
CR	av	~~20.26~~ ppb	sd	0.193 %cv	0.95
PBILM	av	~~[illegible]3~~ ppb	sd	2.448 %cv	0.82

8/7/95

08/07/95 07:06
CCV2

rep	1	AG	conc	499.19	ppb
rep	1	ASILM	conc	520.67	ppb
rep	1	BA	conc	486.13	ppb
rep	1	CD	conc	495.71	ppb
rep	1	CR	conc	504.61	ppb
rep	1	PBILM	conc	966.54	ppb
rep	2	AG	conc	507.01	ppb
rep	2	ASILM	conc	520.66	ppb
rep	2	BA	conc	490.95	ppb
rep	2	CD	conc	499.25	ppb
rep	2	CR	conc	507.98	ppb
rep	2	PBILM	conc	982.78	ppb

08/07/95 07:08
CCV2

AG	av	503.10 ppb	sd	5.530 %cv	1.10
ASILM	av	520.67 ppb	sd	0.007 %cv	0.00
BA	av	488.54 ppb	sd	3.409 %cv	0.70
CD	av	497.48 ppb	sd	2.501 %cv	0.50
CR	av	506.29 ppb	sd	2.385 %cv	0.47
PBILM	av	974.66 ppb	sd	11.478 %cv	1.18

8/7/95

08/07/95 07:12
CCB2

rep	1	AG	conc	-0.76	ppb
rep	1	ASILM	conc	5.44	ppb
rep	1	BA	conc	-7.36	ppb
rep	1	CD	conc	-0.36	ppb
rep	1	CR	conc	-0.51	ppb

...51 ppb

rep	1	PBILM	conc	-27.04	ppb
rep	2	AG	conc	-1.50	ppb
rep	2	ASILM	conc	-8.15	ppb
rep	2	BA	conc	-7.89	ppb
rep	2	CD	conc	-0.51	ppb
rep	2	CR	conc	0.01	ppb
rep	2	PBILM	conc	-27.92	ppb

08/07/95 07:1...
LCB2

AG	av	-1.13 ppb	sd	0.522 %cv	46.25
ASILM	av	-1.36 ppb	sd	9.610 %cv	707.2
BA	av	-7.63 ppb	sd	0.376 %cv	4.92
CD	av	-0.44 ppb	sd	0.109 %cv	24.87
CR	av	-0.25 ppb	sd	0.365 %cv	144.5
PBILM	av	-27.48 ppb	sd	0.617 %cv	2.25

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08/07/95 07:1...
30051.3

rep	1	AG	conc	54.14	ppb
rep	1	ASILM	conc	2032.86	ppb
rep	1	BA	conc	2051.51	ppb
rep	1	CD	conc	47.96	ppb
rep	1	CR	conc	232.17	ppb
rep	1	PBILM	conc	590.35	ppb
rep	2	AG	conc	54.03	ppb
rep	2	ASILM	conc	2041.12	ppb
rep	2	BA	conc	2051.60	ppb
rep	2	CD	conc	47.71	ppb
rep	2	CR	conc	232.90	ppb
rep	2	PBILM	conc	595.17	ppb

08/07/95 07:1...
30051.3

RPC RH9D (spike)

AG	av	54.09 ppb	98.3	sd	0.081 %cv	0.15
ASILM	av	2036.99 ppb	101	sd	5.835 %cv	0.29
BA	av	2051.55 ppb	95.6	sd	0.066 %cv	0.00
CD	av	47.84 ppb	95.7	sd	0.177 %cv	0.37
CR	av	232.53 ppb	112	sd	0.518 %cv	0.22
PBILM	av	[illegible] ppb		sd	3.405 %cv	0.57

8/7/95

08/07/95 07:21
30051.6

rep	1	AG	conc	0.15	ppb
rep	1	ASILM	conc	4.46	ppb
rep	1	BA	conc	22.36	ppb
rep	1	CD	conc	0.45	ppb
rep	1	CR	conc	1.44	ppb
rep	1	PBILM	conc	11.02	ppb
rep	2	AG	conc	-0.31	ppb
rep	2	ASILM	conc	0.55	ppb
rep	2	BA	conc	22.54	ppb
rep	2	CD	conc	0.43	ppb
rep	2	CR	conc	2.25	ppb
rep	2	PBILM	conc	10.31	ppb

08/07/95 07:...

RH9D (Serial Dilution)

30051.L

AG	av	-0.08 ppb	sd	0.323 %cv	419.1
ASILM	av	2.50 ppb	sd	2.765 %cv	110.5
BA	av	22.45 ppb	sd	0.127 %cv	0.57
CD	av	0.44 ppb	sd	0.012 %cv	2.72
CR	av	1.85 ppb	sd	0.570 %cv	30.83
PBILM	av	10.56 ppb	sd	0.507 %cv	4.76

08/07/95 07:25
ICSAB

rep	1	AG	conc	1.29 ppb
rep	1	ASILM	conc	7.99 ppb
rep	1	BA	conc	-7.79 ppb
rep	1	CD	conc	-18.27 ppb
rep	1	CR	conc	-1.76 ppb
rep	1	PBILM	conc	-34.28 ppb
rep	2	AG	conc	1.03 ppb
rep	2	ASILM	conc	3.87 ppb
rep	2	BA	conc	-7.87 ppb
rep	2	CD	conc	-18.37 ppb
rep	2	CR	conc	-1.35 ppb
rep	2	PBILM	conc	-38.31 ppb

08/07/95 07:27
ICSAB

AG	av	1.16 ppb	sd	0.184 %cv	15.88
ASILM	av	3.93 ppb	sd	2.910 %cv	49.10
BA	av	-7.83 ppb	sd	0.055 %cv	0.71
CD	av	-18.32 ppb	sd	0.074 %cv	0.41
CR	av	-1.56 ppb	sd	0.286 %cv	18.41
PBILM	av	-36.30 ppb	sd	2.848 %cv	7.85

08/07/95 07:30
ICSABF

rep	1	AG	conc	898.72 ppb
rep	1	ASILM	conc	9.62 ppb
rep	1	BA	conc	435.88 ppb
rep	1	CD	conc	863.04 ppb
rep	1	CR	conc	457.40 ppb
rep	1	PBILM	conc	846.98 ppb
rep	2	AG	conc	906.64 ppb
rep	2	ASILM	conc	-0.41 ppb
rep	2	BA	conc	438.76 ppb
rep	2	CD	conc	869.03 ppb
rep	2	CR	conc	458.39 ppb
rep	2	PBILM	conc	851.36 ppb

08/07/95 07:32
ICSABF

AG	av	902.68 ppb	sd	5.598 %cv	0.62
ASILM	av	4.61 ppb	sd	7.090 %cv	153.9
BA	av	437.32 ppb	sd	2.041 %cv	0.47
CD	av	866.03 ppb	sd	4.239 %cv	0.49
CR	av	457.90 ppb	sd	0.696 %cv	0.15
PBILM	av	849.17 ppb	sd	3.100 %cv	0.37

08/07/95 07:35
CRIF

rep	1	HG	conc	20.63	ppb
rep	1	HGILM	conc	-0.11	ppb
rep	1	BA	conc	419.81	ppb
rep	1	CD	conc	9.98	ppb
rep	1	CR	conc	21.89	ppb
rep	1	PBILM	conc	406.32	ppb
rep	2	HG	conc	20.33	ppb
rep	2	HGILM	conc	1.16	ppb
rep	2	BA	conc	419.99	ppb
rep	2	CD	conc	9.49	ppb
rep	2	CR	conc	21.42	ppb
rep	2	PBILM	conc	405.93	ppb

08/07/95 07:36
CRIF

HG	av	20.48	ppb	sd	0.218	%cv 1.06
HGILM	av	0.52	ppb	sd	0.903	%cv 172.4
BA	av	419.90	ppb	sd	0.131	%cv 0.03
CD	av	9.74	ppb	sd	0.349	%cv 3.58
CR	av	21.66	ppb	sd	0.333	%cv 1.54
PBILM	av	406.13	ppb	sd	0.277	%cv 0.07

08/07/95 07:39
CRIF

rep	1	AGILM	conc	25.70	ppb
rep	1	PBILM	conc	-26.68	ppb
rep	2	AGILM	conc	20.90	ppb
rep	2	PBILM	conc	-24.25	ppb

08/07/95 07:39
CRIF

AGILM	av	23.30	ppb	sd	3.399	%cv 14.59
PBILM	av	-25.47	ppb	sd	1.721	%cv 6.76

08/07/95 07:45
CCV3

rep	1	HG	conc	502.86	ppb
rep	1	AGILM	conc	509.13	ppb
rep	1	BA	conc	483.33	ppb
rep	1	CD	conc	494.40	ppb
rep	1	CR	conc	501.86	ppb
rep	1	PBILM	conc	968.74	ppb
rep	2	HG	conc	506.55	ppb
rep	2	AGILM	conc	514.67	ppb
rep	2	BA	conc	486.05	ppb
rep	2	CD	conc	497.69	ppb
rep	2	CR	conc	506.64	ppb
rep	2	PBILM	conc	974.56	ppb

08/07/95 07:54
CCV3

HG	av	504.70	ppb	sd	2.608	%cv 0.52
AGILM	av	511.90	ppb	sd	3.918	%cv 0.77
BA	av	485.69	ppb	sd	3.342	%cv 0.69
CD	av	496.05	ppb	sd	2.324	%cv 0.47
CR	av	504.25	ppb	sd	3.382	%cv 0.67
PBILM	av	971.65	ppb	sd	4.113	%cv 0.42

08/07/95 07:47
CCB3

rep	1	AG	conc	-1.41	ppb
rep	1	AGILM	conc	1.20	ppb
rep	1	BA	conc	-7.38	ppb
rep	1	CD	conc	0.04	ppb
rep	1	CR	conc	-0.28	ppb
rep	1	PBILM	conc	-31.56	ppb
rep	2	AG	conc	-1.89	ppb
rep	2	AGILM	conc	-2.61	ppb
rep	2	BA	conc	-7.59	ppb
rep	2	CD	conc	-0.07	ppb
rep	2	CR	conc	-0.36	ppb
rep	2	PBILM	conc	-34.20	ppb

08/07/95 07:49
CCB3

AG	av	-1.65	ppb	sd	0.339	%cv 20.57
AGILM	av	-0.70	ppb	sd	2.698	%cv 382.9
BA	av	-7.49	ppb	sd	0.149	%cv 1.99
CD	av	-0.02	ppb	sd	0.075	%cv 498.8
CR	av	-0.32	ppb	sd	0.055	%cv 17.27
PBILM	av	-32.78	ppb	sd	2.004	%cv 6.11

#052

ANALYZE

08/07/95
17:16:24

Method Name: 9508071715 Read delay: 45 Rinse time: 0
Format Name: clpf Replicates: 2 Data Disp: SPEC4
Comments: Standard Condition Default Values

Result Name: 9508071715	Store Result:	Yes	No	Append
Spectr Name: 9508071715	Store Spectrum:	Yes	No	Append
Source Name: XL1300	Global Source:	Yes	No	
IEC Name: stdcond	InterElem Corr:	Off	On	
	Resolution:	Low	Normal	High
	Scanning:	Off	On	
	Processing Mode:	Peak	Area	Multicomp.Spec.Fit
	Integration Mode:	Auto	Manual	
	Auto Int Samp Time:	Min: 0.2	Max: 50	

Command?

F5	F6	F7	F8	F9	F10	F11	F12
Manual			Calib Spectrom	Repro-cessing	MSF Data	IEC Data	Optimize

Raw Data
8/7/95
RLH

* 9501.720 Pb
o 9501.648 Pb (30047 + 30051)

Run #2

* PBS 1077, LCS #1 8/2
o PBS 1081, LCS #1 8/3

PBILM av 2568.45 sf sd 1.201 %cv 0.05 conc 2000.0

08/07/95 20:32
ICV
rep 1 PBILM conc 888.87 ppb
rep 2 PBILM conc 899.14 ppb

08/07/95 20:33
ICV
PBILM av ~~894.01~~ ppb sd 7.262 %cv 0.81

RLH 8/7/95

08/07/95 21:14
blank
rep 1 PBILM sf -6.6
rep 2 PBILM sf -8.5

08/07/95 21:15
blank
PBILM av -7.56 sf sd 1.359 %cv 17.98

08/07/95 21:16
#1 standard
rep 1 PBILM sf 2097.8
rep 2 PBILM sf 2116.4

08/07/95 21:17
#1 standard
PBILM av 2107.10 sf sd 13.145 %cv 0.62 conc 2000.0

08/07/95 21:20
ICV
rep 1 PBILM conc 1057.78 ppb
rep 2 PBILM conc 1065.30 ppb

08/07/95 21:21
ICV
PBILM av 1061.54 ppb sd 5.324 %cv 0.50

08/07/95 21:23
ICB
rep 1 PBILM conc -0.31 ppb
rep 2 PBILM conc 1.06 ppb

08/07/95 21:23
ICB
PBILM av 0.38 ppb sd 0.964 %cv 256.1

08/07/95 21:26
CCV4
rep 1 PBILM conc 999.28 ppb
rep 2 PBILM conc 1011.10 ppb

08/07/95 21:27
CCV4
PBILM av 1005.19 ppb sd 8.362 %cv 0.83

PBILM av 1005.19 ppb sd 8.362 %cv 0.83

08/07/95 21:32
CCB4
rep 1 PBILM conc -3.21 ppb
rep 2 PBILM conc -0.92 ppb

08/07/95 21:33
CCB4
PBILM av -2.06 ppb sd 1.623 %cv 78.64

08/07/95 21:35
ICSA
rep 1 PBILM conc -12.19 ppb
rep 2 PBILM conc -16.30 ppb

08/07/95 21:36
ICSA
PBILM av -14.24 ppb sd 2.903 %cv 20.38

08/07/95 21:38
ICSAB
rep 1 PBILM conc 864.56 ppb
rep 2 PBILM conc 866.99 ppb

08/07/95 21:38
ICSAB
PBILM av 865.77 ppb sd 1.721 %cv 0.20

08/07/95 21:40
CRI
rep 1 PBILM conc 4.01 ppb
rep 2 PBILM conc -1.14 ppb

Sample not aspirated

08/07/95 21:41
CRI
PBILM av 1.44 ppb sd 3.643 %cv 253.7

08/07/95 21:43
CRI
rep 1 PBILM conc 6.17 ppb
rep 2 PBILM conc 5.90 ppb

08/07/95 21:44
CRI
PBILM av 6.03 ppb sd 0.185 %cv 3.07

08/07/95 21:47
30527L
rep 1 PBILM conc 24.94 ppb
rep 2 PBILM conc 21.81 ppb

08/07/95 21:47
30527L
PBILM av 23.38 ppb sd 2.213 %cv 9.47

PBILM av 23.38 ppb sd 2.213 %cv 9.47

116.9 5.490D

08/07/95 21:49
PBS 1081
rep 1 PBILM conc -0.51 ppb
rep 2 PBILM conc -2.13 ppb

08/07/95 21:50 PBS1
PBS 1081
PBILM av -1.32 ppb <0.6 mg/kg sd 1.143 %cv 86.45

08/07/95 21:54
LCSS #1 8/3
rep 1 PBILM conc 598.98 ppb
rep 2 PBILM conc 605.23 ppb

08/07/95 21:55 LCSS1 120.42 mg/kg
LCSS #1 8/3
PBILM av 602.10 ppb sd 4.419 %cv 0.73

08/07/95 21:57
30047
rep 1 PBILM conc 190.52 ppb
9501.648 rep 2 PBILM conc 186.14 ppb

08/07/95 21:57 RH5D 37.67 mg/kg
30047
PBILM av 188.33 ppb sd 3.094 %cv 1.64

08/07/95 22:00
30051
rep 1 PBILM conc 81.22 ppb
rep 2 PBILM conc 77.49 ppb

08/07/95 22:01 RH9D 15.87 mg/kg
30051
PBILM av 79.36 ppb sd 2.637 %cv 3.32

08/07/95 22:02
30051D
rep 1 PBILM conc 330.66 ppb
rep 2 PBILM conc 334.77 ppb

08/07/95 22:03 RH9D (DUP) 123 % RPD
30051D 66.54 mg/kg
PBILM av 332.71 ppb sd 2.911 %cv 0.87

08/07/95 22:05
CCV5
rep 1 PBILM conc 1003.97 ppb
rep 2 PBILM conc 1008.36 ppb

08/07/95 22:06
CCV5
PBILM av 1006.17 ppb sd 3.108 %cv 0.31

PBILM av 1006.17 ppb sd 3.108 %cv 0.31

08/07/95 22:08
CCB5
rep 1 PBILM conc 2.06 ppb
rep 2 PBILM conc 0.36 ppb

08/07/95 22:09
CCB5
PBILM av 1.21 ppb sd 1.202 %cv 99.56

08/07/95 22:11
30051S
rep 1 PBILM conc 616.67 ppb
rep 2 PBILM conc 623.39 ppb

08/07/95 22:12
30051S
PBILM av 620.03 ppb sd 4.751 %cv 0.77

08/07/95 22:14
30051L
rep 1 PBILM conc 14.64 ppb
rep 2 PBILM conc 7.82 ppb

08/07/95 22:14
30051L
PBILM av 11.23 ppb sd 4.818 %cv 42.90

08/07/95 22:16
ICSA
rep 1 PBILM conc -14.00 ppb
rep 2 PBILM conc -13.01 ppb

08/07/95 22:17
ICSA
PBILM av -13.50 ppb sd 0.700 %cv 5.19

08/07/95 22:19
ICSAB
rep 1 PBILM conc 879.88 ppb
rep 2 PBILM conc 872.02 ppb

08/07/95 22:20
ICSAB
PBILM av 875.95 ppb sd 5.554 %cv 0.63

08/07/95 22:24
CRI
rep 1 PBILM conc 3.53 ppb
rep 2 PBILM conc 2.70 ppb

08/07/95 22:25
CRI
PBILM av 3.11 ppb sd 0.583 %cv 18.71

Rpt 8/7/95

Rpt 8/7/95

CCB6 OUT OF CONTROL Reran samples Rpt 8/7/95

PBILM av 3.11 ppb sd 0.583 %cv 18.71

08/07/95 22:28
CCV6
rep 1 PBILM conc 1007.43 ppb
rep 2 PBILM conc 1006.00 ppb

08/07/95 22:29
CCV6
PBILM av 1006.71 ppb sd 1.016 %cv 0.10

08/07/95 22:33
CCB6
rep 1 PBILM conc 1.63 ppb
rep 2 PBILM conc -7.87 ppb

08/07/95 22:34 RLH 8-7-95
CCB6
PBILM av ~~-3.12~~ ppb sd 6.715 %cv 215.0

08/07/95 22:37 OUT OF CONTROL
blank
rep 1 PBILM sf -11.9
rep 2 PBILM sf -8.8

08/07/95 22:38
blank
PBILM av -10.37 sf sd 2.165 %cv 20.87

08/07/95 22:40
#1 standard
rep 1 PBILM sf 2144.8
rep 2 PBILM sf 2164.0

08/07/95 22:41
#1 standard
PBILM av 2154.41 sf sd 13.598 %cv 0.63 conc 2000.0

08/07/95 22:42
ICV
rep 1 PBILM conc 1060.43 ppb
rep 2 PBILM conc 1069.78 ppb

08/07/95 22:43
ICV
PBILM av 1065.10 ppb sd 6.607 %cv 0.62

08/07/95 22:47
ICB
rep 1 PBILM conc -1.54 ppb
rep 2 PBILM conc 2.99 ppb

08/07/95 22:48
ICB
PBILM av 0.73 ppb sd 3.201 %cv 440.0

PBILM av 0.73 ppb sd 3.201 %cv 440.0

08/07/95 22:50
CCV7
rep 1 PBILM conc 983.51 ppb
rep 2 PBILM conc 996.00 ppb

08/07/95 22:51
CCV7
PBILM av 989.76 ppb sd 8.832 %cv 0.89

08/07/95 22:53
CCB7
rep 1 PBILM conc 1.06 ppb
rep 2 PBILM conc 0.53 ppb

08/07/95 22:53
CCB7
PBILM av 0.79 ppb sd 0.380 %cv 47.86

08/07/95 22:56
ICSA
rep 1 PBILM conc -13.51 ppb
rep 2 PBILM conc -8.96 ppb

08/07/95 22:56
ICSA
PBILM av -11.23 ppb sd 3.222 %cv 28.68

08/07/95 23:04
ICSAB
rep 1 PBILM conc 870.14 ppb
rep 2 PBILM conc 872.18 ppb

08/07/95 23:05
ICSAB
PBILM av 871.16 ppb sd 1.445 %cv 0.17

08/07/95 23:07
CRI
rep 1 PBILM conc 8.86 ppb
rep 2 PBILM conc 5.68 ppb

08/07/95 23:08
CRI
PBILM av 7.27 ppb sd 2.252 %cv 30.97

08/07/95 23:17
300515
rep 1 PBILM conc 614.71 ppb
rep 2 PBILM conc 611.26 ppb

08/07/95 23:18 RH9D (spike) 122.6 mg/kg 106.7% recovery
300515
PBILM av 612.99 ppb sd 2.441 %cv 0.40

PBILM av 812.99 ppb sd 2.44 %cv 0.30

08/07/95 23:21
30051L

rep	1	PBILM	conc	18.25	ppb
rep	2	PBILM	conc	15.33	ppb

08/07/95 23:21 RH9D (Serial Dilution) 83.95 µg/L
30051L
PBILM av 16.79 ppb sd 2.067 %cv 12.31
5.8% D

08/07/95 23:24
ICSA

rep	1	PBILM	conc	-12.06	ppb
rep	2	PBILM	conc	-10.09	ppb

08/07/95 23:25
ICSA
PBILM av -11.07 ppb sd 1.392 %cv 12.57

08/07/95 23:27
ICSAB

rep	1	PBILM	conc	855.89	ppb
rep	2	PBILM	conc	858.17	ppb

08/07/95 23:28
ICSAB
PBILM av 857.03 ppb sd 1.614 %cv 0.19

08/07/95 23:30
CRI

rep	1	PBILM	conc	6.50	ppb
rep	2	PBILM	conc	3.97	ppb

08/07/95 23:31
CRI
PBILM av 5.24 ppb sd 1.791 %cv 34.20

08/07/95 23:34
CCV8

rep	1	PBILM	conc	986.03	ppb
rep	2	PBILM	conc	984.50	ppb

08/07/95 23:34
CCV8
PBILM av 985.26 ppb sd 1.082 %cv 0.11

08/07/95 23:37
CCB8

rep	1	PBILM	conc	-1.71	ppb
rep	2	PBILM	conc	0.71	ppb

08/07/95 23:38
CCB8
PBILM av -0.50 ppb sd 1.709 %cv 344.2

Element File: SE_CLP_1.GEL Element: Se Wavelength: 196.0
Date: 08/07/95 Time: 05:16 Slit: 2.0 L
Data File: 0807CS31.DAT ID/Wt File: 0807CS31.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 42
Remark 1: SE CLP-5100A GFAA
Remark 2: CALIBRATION STANDARDS S25,S50 IN BOOK #1011
Remark 3: CALIBRATION STANDARDS S10 BY AUTO DILUTION
Remark 4: SE ICV IN BOOK #1011 PAGE #21

CVS 8/07/95

Se ID: S0 Seq. No.: 00001 A/S Pos.: 37 Date: 08/07/95

Replicate 1 Time: 05:16
Peak Area (A-s): 0.006 Peak Height (A): 0.018
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): -0.000

Auto-zero performed.

Se ID: S5 Seq. No.: 00002 A/S Pos.: 3 Date: 08/07/95

Replicate 1 Time: 05:19
Peak Area (A-s): 0.025 Peak Height (A): 0.043
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.018

Standard number 1 applied. [5.00]
Correlation coefficient: 1.00000 Slope: 0.0037

Se ID: S10 Seq. No.: 00003 A/S Pos.: 36 Date: 08/07/95

Replicate 1 Time: 05:22
Peak Area (A-s): 0.050 Peak Height (A): 0.089
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 11.37

Standard number 2 applied. [10.00]
Correlation coefficient: 0.97863 Slope: 0.0043

Se ID: S25 Seq. No.: 00004 A/S Pos.: 38 Date: 08/07/95

Replicate 1 Time: 05:25
Peak Area (A-s): 0.114 Peak Height (A): 0.176
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 25.26

Standard number 3 applied. [25.00]
Correlation coefficient: 0.99875 Slope: 0.0043

Se ID: S50 Seq. No.: 00005 A/S Pos.: 40 Date: 08/07/95

Replicate 1 Time: 05:27

Peak Area (A-s): 0.205 Peak Height (A): 0.324
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.199
Concentration (ug/L): 46.21

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99825 Slope: 0.0041

Se ID: ICV Seq. No.: 00006 A/S Pos.: 1 Date: 08/07/95

Replicate 1 Time: 05:30
Peak Area (A-s): 0.090 Peak Height (A): 0.156
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 20.56 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 05:33
Peak Area (A-s): 0.092 Peak Height (A): 0.150
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 21.02 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 20.79 SD: 0.324 RSD(%): 1.56
Corrected Conc (mg/kg): ----------

Se ID: ICB Seq. No.: 00007 A/S Pos.: 2 Date: 08/07/95

Replicate 1 Time: 05:35
Peak Area (A-s): 0.011 Peak Height (A): 0.022
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.19 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 05:38
Peak Area (A-s): 0.008 Peak Height (A): 0.021
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.36 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L) < 2.00 0.77 SD: 0.582 RSD(%): 75.19
Corrected Conc (mg/kg): ----------

Se ID: ACCV Seq. No.: 00008 A/S Pos.: 36 Date: 08/07/95

Replicate 1 Time: 05:41
Peak Area (A-s): 0.102 Peak Height (A): 0.181
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 23.67 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 05:44
Peak Area (A-s): 0.109 Peak Height (A): 0.188
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.102
Concentration (ug/L): 25.22 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 24.45 SD: 1.091 RSD(%): 4.46
Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00009 A/S Pos.: 37 Date: 08/07/95

Replicate 1 Time: 05:46
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.48 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 05:49
Peak Area (A-s): 0.001 Peak Height (A): 0.015
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -1.19 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -0.36 SD: 1.179 RSD(%): 329.01
Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Se ID: CRA Seq. No.: 00010 A/S Pos.: 3 Date: 08/07/95

Replicate 1 Time: 05:52
Peak Area (A-s): 0.028 Peak Height (A): 0.047
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 5.29 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 05:54
Peak Area (A-s): 0.020 Peak Height (A): 0.038
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 3.28 Corrected Conc (mg/kg): ---------- ok < CRDL cws 8/07/95

Mean Conc (ug/L): 4.29 SD: 1.425 RSD(%): 33.24
Corrected Conc (mg/kg): ----------

Se ID: PBS1080 Seq. No.: 00011 A/S Pos.: 4 Date: 08/07/95

Replicate 1 Time: 05:57
Peak Area (A-s): 0.007 Peak Height (A): 0.022
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.21 Corrected Conc (mg/kg): 0.042

Replicate 2 Time: 06:00
Peak Area (A-s): 0.007 Peak Height (A): 0.021
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.25 Corrected Conc (mg/kg): 0.049

Mean Conc (ug/L): 0.23 SD: 0.024 RSD(%): 10.72

Corrected Conc (mg/kg): 0.046 (<0.400)

Se ID: PBS1080 Seq. No.: 00012 A/S Pos.: 4 Date: 08/07/95

Replicate 1 Time: 06:03
Peak Area (A-s): 0.036 Peak Height (A): 0.062
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 7.40 Corrected Conc (mg/kg): 7.22

Replicate 2 Time: 06:06
Peak Area (A-s): 0.051 Peak Height (A): 0.085
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 11.12 Corrected Conc (mg/kg): 10.94

Mean Conc (ug/L): 9.26 SD: 2.634 RSD(%): 28.44
Corrected Conc (mg/kg): 9.08

Recovery is 90.3%

Se ID: PBS1080 Seq. No.: 00013 A/S Pos.: 4 Date: 08/07/95

Replicate 1 Time: 06:08
Peak Area (A-s): 0.058 Peak Height (A): 0.094
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.052
Concentration (ug/L): 12.83 Corrected Conc (mg/kg): 12.65

Replicate 2 Time: 06:11
Peak Area (A-s): 0.049 Peak Height (A): 0.088
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 10.43 Corrected Conc (mg/kg): 10.25

Mean Conc (ug/L): 11.63 SD: 1.701 RSD(%): 14.62
Corrected Conc (mg/kg): 11.45

Recovery is 114.0%

Se ID: LCSS#4(8/02)TS Seq. No.: 00014 A/S Pos.: 6 Date: 08/07/95

Replicate 1 Time: 06:14
Peak Area (A-s): 0.050 Peak Height (A): 0.072
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 10.76 Corrected Conc (mg/kg): 43.05

Replicate 2 Time: 06:17
Peak Area (A-s): 0.046 Peak Height (A): 0.069
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 9.89 Corrected Conc (mg/kg): 39.55

Mean Conc (ug/L): 10.33 SD: 0.619 RSD(%): 6.00

Se ID: LCSS#4(8/02)TS Seq. No.: 00015 A/S Pos.: 5 Date: 08/07/95

Replicate 1 Time: 06:20
Peak Area (A-s): 0.087 Peak Height (A): 0.145
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.081
Concentration (ug/L): 19.86 Corrected Conc (mg/kg): 50.84

Replicate 2 Time: 06:22
Peak Area (A-s): 0.091 Peak Height (A): 0.140
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 20.96 Corrected Conc (mg/kg): 51.94

Mean Conc (ug/L): 20.41 SD: 0.778 RSD(%): 3.81
Corrected Conc (mg/kg): 51.39

Recovery is 100.9%

Se ID: 648-30047.01 Seq. No.: 00016 A/S Pos.: 6 Date: 08/07/95

RH5D

Replicate 1 Time: 06:25
Peak Area (A-s): 0.022 Peak Height (A): 0.029
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.82 Corrected Conc (mg/kg): 0.764

Replicate 2 Time: 06:28
Peak Area (A-s): 0.016 Peak Height (A): 0.033
Background Pk Area (A-s): 0.123 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 2.42 Corrected Conc (mg/kg): 0.484 OK Less Than (CRDL)

Mean Conc (ug/L): 3.12 SD: 0.987 RSD(%): 31.64 CVS 8/9/95
Corrected Conc (mg/kg): 0.624

Se ID: 648-30047.01 Seq. No.: 00017 A/S Pos.: 6 Date: 08/07/95

Replicate 1 Time: 06:31
Peak Area (A-s): 0.055 Peak Height (A): 0.073
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 12.01 Corrected Conc (mg/kg): 9.61

Replicate 2 Time: 06:34
Peak Area (A-s): 0.055 Peak Height (A): 0.073
Background Pk Area (A-s): 0.122 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 11.99 Corrected Conc (mg/kg): 9.49

Mean Conc (ug/L): 12.00 SD: 0.016 RSD(%): 0.13
Corrected Conc (mg/kg): 9.60

Replicate 1 — Time: 06:36
Peak Area (A-s): 0.117 — Peak Height (A): 0.165
Background Pk Area (A-s): 0.084 — Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 27.33 — Corrected Conc (mg/kg): ----------

Replicate 2 — Time: 06:39
Peak Area (A-s): 0.111 — Peak Height (A): 0.167
Background Pk Area (A-s): 0.075 — Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 25.89 — Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 26.61 — SD: 1.019 — RSD(%): 3.83
Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB — Seq. No.: 00019 — A/S Pos.: 37 — Date: 08/07/95

Replicate 1 — Time: 06:42
Peak Area (A-s): 0.000 — Peak Height (A): 0.015
Background Pk Area (A-s): 0.056 — Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -1.54 — Corrected Conc (mg/kg): ----------

Replicate 2 — Time: 06:44
Peak Area (A-s): 0.008 — Peak Height (A): 0.024
Background Pk Area (A-s): 0.047 — Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.53 — Corrected Conc (mg/kg): ----------

Mean Conc (ug/L) <2.00: -0.50 — SD: 1.460 — RSD(%): 289.07
Corrected Conc (mg/kg): ----------

CC sample is within range -5.00 - 5.00

Se ID: 648-30051.01 — Seq. No.: 00020 — A/S Pos.: 7 — Date: 08/07/95

RH9D

Replicate 1 — Time: 06:47
Peak Area (A-s): 0.006 — Peak Height (A): 0.022
Background Pk Area (A-s): 0.389 — Background Pk Height (A): 0.157
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.00 — Corrected Conc (mg/kg): -1.65E-004

W

Replicate 2 — Time: 06:50
Peak Area (A-s): 0.009 — Peak Height (A): 0.022
Background Pk Area (A-s): 0.425 — Background Pk Height (A): 0.170
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.65 — Corrected Conc (mg/kg): 0.130

Mean Conc (ug/L): 0.33 — SD: 0.462 — RSD(%): 141.78
Corrected Conc (mg/kg) <0.400: 0.066

Se ID: 648-30051.01 Seq. No.: 00021 A/S Pos.: 7 Date: 08/07/95

Replicate 1 Time: 06:53
Peak Area (A-s): 0.038 Peak Height (A): 0.082
Background Pk Area (A-s): 0.456 Background Pk Height (A): 0.184
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 7.76 Corrected Conc (mg/kg): 7.50

Replicate 2 Time: 06:55
Peak Area (A-s): 0.029 Peak Height (A): 0.063
Background Pk Area (A-s): 0.826 Background Pk Height (A): 0.344
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 5.48 Corrected Conc (mg/kg): 5.22

Mean Conc (ug/L): 6.62 SD: 1.612 RSD(%): 24.35
Corrected Conc (mg/kg): 6.36

Recovery is 62.9% (outside of specified limits)

Se ID: 648-30051.01 Seq. No.: 00022 A/S Pos.: 7 Date: 08/07/95

Replicate 1 Time: 06:58
Peak Area (A-s): 0.028 Peak Height (A): 0.024
Background Pk Area (A-s): 0.493 Background Pk Height (A): 0.186
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 5.47 Corrected Conc (mg/kg): 5.21

Replicate 2 Time: 07:01
Peak Area (A-s): 0.021 Peak Height (A): 0.034
Background Pk Area (A-s): 0.486 Background Pk Height (A): 0.190
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 3.69 Corrected Conc (mg/kg): 3.42

Mean Conc (ug/L): 4.58 SD: 1.259 RSD(%): 27.52
Corrected Conc (mg/kg): 4.31

Recovery is 42.5% (outside of specified limits)

Se ID: ACCV Seq. No.: 00023 A/S Pos.: 36 Date: 08/07/95

Replicate 1 Time: 07:04
Peak Area (A-s): 0.097 Peak Height (A): 0.140
Background Pk Area (A-s): 0.160 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 22.34 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 07:06
Peak Area (A-s): 0.099 Peak Height (A): 0.159
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 22.85 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 22.59 SD: 0.362 RSD(%): 1.60
Corrected Conc (mg/kg): ----------

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00024 A/S Pos.: 37 Date: 08/07/95

Replicate 1 Time: 07:09
Peak Area (A-s): 0.008 Peak Height (A): 0.023
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.50 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 07:12
Peak Area (A-s): 0.003 Peak Height (A): 0.019
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.78 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -0.14 SD: 0.905 RSD(%): 657.99
Corrected Conc (mg/kg): ----------

QC sample is within range -5.00 - 5.00

Project No. _____
Book No. 997 TITLE 9501.648 RUN #1

om Page No. _____
am Performed: Hg
ethod Number: 7470
ate: 8-7-95
ork Performed By: PAR

stds rack in at 7:30am out at 9:30am, 95°C
CCV/CCB rack in at 7:30am out at 8:30am, 95°C
RACK I in at 10:30am, out at 11:30am, 95°C

Job No.	ID No.		Read	Conc	DF	Amt	Unit	Final conc	
	Blank		0						r = 0.99995
	0.5		11						y = 20.9x + 1.2
	1.0		23						x = 0.06
	5.0		103						
	10.0		209						
me: 1500	ICV		103	4.87		100ml	ug/l	4.87	IV=5.0; 97%
1502	ICB		0	<0.20		↓	↓	<0.20	
1504	CCV		23	1.04				1.04	
1506	CCB		0	<0.20				<0.20	
	CRA		7	0.275				0.275	
	PBW		0	<0.20		↓	↓	<0.20	
	PBS		0	<0.20		0.20g	mg/kg	<0.10	
	LCSS		64	3.00	2	0.04g	mg/kg	15.02	LOT #221 IV=23.7 range: 9.48-36.7
RACK I									
9501.655	30068.04	257	0	<0.20		100ml	ug/l	<0.20	
	30069.04	402	1	<0.20				<0.20	
	30070.04	112	0	<0.20				<0.20	
	30071.04	221	1	<0.20				<0.20	
	30072.04	009	0	<0.20				<0.20	Upon completion
	30073.04	253	1	<0.20		↓	↓	<0.20	
me: 1528	CCV		25	1.14		100ml	ug/l	1.14	
1530	CCB		0	<0.20		↓	↓	<0.20	
	30074.04	53	2	<0.20		100ml	ug/l	<0.20	
	30075.04	75	2	<0.20				<0.20	
	30076.04	204	3	<0.20				<0.20	
	30077.04	210	3	<0.20				<0.20	
	30078.04	220	2	<0.20		↓	↓	<0.20	

To Page No. 183

Witnessed & Understood by me, KDW Date 8/9/95

Invented by _____ Recorded by PAR Date 8-7-95

Matrix: Water
Date: 8-F-95
Work Per: PAR

RACK III in at 11:30 am, out at 12:30, 95°C

Job No.		Seq	Read	Conc	DF	Amt	Unit	Final Conc	
9501.655 RACK II	30079.04	294	2	<0.20		100ml	ug/l	<0.20	
	30090.04	16	2	<0.20				<0.20	
	30080.D	17	2	<0.20				<0.20	RPD=NC
	30080.S	18	24	1.09				1.09	109% rec
	30081.04	30	2	<0.20				<0.20	
time: 1552	CCV		25	1.14		100ml	ug/l	1.14	
1554	CCB		0	<0.20				<0.20	
9501.655	30093.04	20	2	<0.20		100ml	ug/l	<0.20	
	30084.04	19	0	<0.20				<0.20	
	30085.04	227	1	<0.20				<0.20	
9501.666	30203.04	60	1	<0.20				<0.20	
	30204.04	248	5	<0.20				<0.20	
	30205.04	224	1	<0.20				<0.20	
	30206.04	77	1	<0.20				<0.20	
	30206.D	3	1	<0.20				<0.20	RPD=NC
RACK III	30206.S	21	20	0.897				0.897	89.7% rec
	30207.04	210	1	<0.20				<0.20	
time: 1616	CCV		22	0.993		100ml	ug/l	0.993	
1620	CCB		0	<0.20				<0.20	
9501.666	30208.04	226	1	<0.20		100ml	ug/l	<0.20	
	30209.04	5	2	<0.20				<0.20	
	30209.D	4	2	<0.20				<0.20	
	30209.S	207	17	0.754				0.754	
	30210.04	227	1	<0.20				<0.20	

To Page No. 184

Witnessed & Understood by me,	Date	Invented by	Date
PN	8/8/95	Recorded by PAR	8-7-95

Project No.
Book No. 997 TITLE

From Page No. 193 Hylon t RACK IV in at 12:30 out at 1:30 ; 95°C
Method Number: 6745 RACK IV in at 1:30 out at 2:30 ; 95°C
Date:
Work Performed by: PAR

Lab No.	ID No.		Read	Conc	DF	Amt	Unit	Final Conc	
9501.666	30211.04	193	1	<0.20		100 ml	ug/l	<0.20	
	30212.04	194	1	<0.20		↓	↓	<0.20	
	30213.04	195	1	<0.20				<0.20	
9501.590	29608.11	18	2	<0.20				<0.20	
	29609.01	19	3	<0.20		↓	↓	<0.20	
time: 1443	CCV		23	1.04		100 ml	ug/l	1.04	
	CCB		0	<0.20		↓	↓	<0.20	
RACK IV									
9501.612	29812.12	344	0	<0.20		100 ml	ug/l	<0.20	
	29813.12	63	0	<0.20				<0.20	
	29814.12	344	1	<0.20				<0.20	
	29815.12	199	2	<0.20				<0.20	
	29816.12	246	2	<0.20				<0.20	
	29817.09	346	2	<0.20				<0.20	
	29818.09	261	1	<0.20				<0.20	
	29821.01	51	2	<0.20				<0.20	
	29822.01	3	2	<0.20				<0.20	
	29823.01	241	2	<0.20		↓	↓	<0.20	
time: 1706	CCV		23	1.04		100 ml	ug/l	1.04	
1708	CCB		1	<0.20		↓	↓	<0.20	
9501.612	29824.01	59	1	<0.20		100 ml	ug/l	<0.20	
	29825.01	355	2	<0.20				<0.20	
RACK V	29826.01	236	0	<0.20				<0.20	
	29826. D	24	3	<0.20				<0.20	RPD=NC
	29826. S	41	23	1.04		↓	↓	1.04	

To Page No. 195

Witnessed & Understood by me. PW Date 8/8/95 Invented by Recorded by PAR Date 6-7-95

Project No. ____
Book No. 997

TITLE ____

From Page No. 184 — Hg ion It — soils for 29786 in at 1:30 out at 3:00 pm 95°C
Test Performed: RACK VI for waters in at 2:00 pm, out at 3:00 pm, 95°C
Method No.:
Date: 8-7-95
Work Performed by: RAK

Job No.		Pos.	Read	Conc	DF	Amt	Unit	Final Conc	
9501.608	29774.09	7	1	<0.20		100 ml	ug/l	<0.20	
	29775.09	20	0	<0.20		↓	↓	<0.20	
	29776.09	14	0	<0.20		↓	↓	<0.20	
	29777.09	16	1	<0.20		↓	↓	<0.20	
	29778.01	70	0	<0.20		↓	↓	<0.20	
time: 1730	CCV		25	1.14		100 ml	ug/l	1.14	
1732	CCB		0	<0.20		↓	↓	<0.20	
9501.608	29779.01	8	2	<0.20		100 ml	ug/l	<0.20	
	29780.01	40	23	1.01		↓	↓	1.01	
	29781.01	250	2	<0.20		↓	↓	<0.20	
9501.557	29349.0105	113	0	<0.20	100	1 ml/100 ml	mg/l	<0.02	
	29349.0105 dup	4	0	<0.20	100	↓	↓	<0.02	RPD = NC
9501.772	29349.0105 Sp	110	24	1.09	100	↓	↓	0.109	109% Rec
RACK VI	30843.04	254	2	<0.20		100 ml	ug/l	<0.20	
9501.608	29786.04	119	99	4.69		0.20 g	mg/kg	2.34	
	29786. D	12	6	0.227		↓	↓	0.114	RPD = 181
used dup to calculate spike	29786. S	253	22	0.993		↓	↓	0.497	(0.497 − 0.114) / 0.5 × 100 = 76.6%
time: 1754	CCV		25	1.14		100 ml	ug/l	1.14	
1756	CCB		0	<0.20		↓	↓	<0.20	
	LCSW (1.0)	20	24	1.09		100 ml	ug/l	1.09	
	LCSW Dup	34	26	1.18		↓	↓	1.18	
MDL (0.4)	2 × FDL	343	14	0.610		↓	↓	0.610	
9501.590	29609.MS	55	29	1.20		↓	↓	1.20	
	29609.MSD	42	22	0.993		↓	↓	0.993	
9501.612	29912. MS	397	21	0.945		↓	↓	0.945	
	29912 MSD	98	20	0.997		↓	↓	0.997	

To Page No. 186

Witnessed & Understood by me, [illegible] — Date 8/8/95

Invented by — Date 8-7-95

Recorded by RAK

Project No.
Book No. 997 TITLE

From Page No. 105
Test Performed: Ag con't RACK VII mod 3 ... 95%
Method Number:
Date: 8-7-95
Work Performed By: PAR

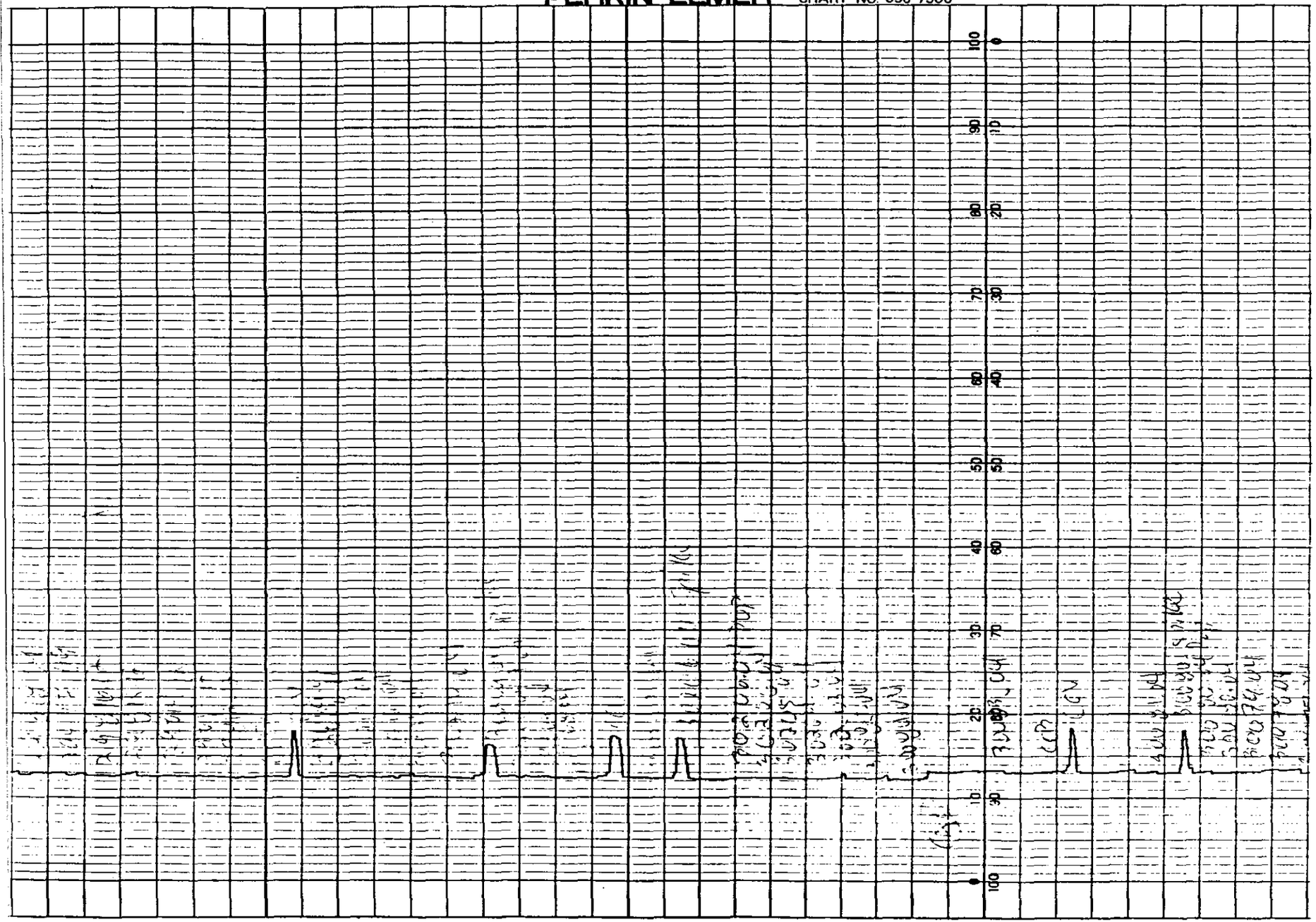
Job No.	ID No.	#	Read	Conc	DF	Amt	Unit	Final conc	
9501.612	29821.0MS	40	20	0.992		100ml	ug/l	0.992	
	29821.MSD	6	20	0.992		↓	↓	0.992	
9501.648	30047-01	61	0	<0.20		0.20g	mg/kg	<0.10	RH5D
Time: 1010	CCV		20	0.993		100ml	ug/l	0.993	
1020	CCB		0	<0.20		↓	↓	<0.20	
RACK VII 9501.657	30114.01	4	0	<0.20		0.20g	mg/kg	<0.10	
	30123.01	1	80	3.86				1.93	
9501.658	30140.01	16	0	<0.20				<0.10	
	30141.01	27	0	<0.20				<0.10	
	30139.01	10	0	<0.20				<0.10	
	30139.D	3	0	<0.20				<0.10	RPD=NC
	30139.S	13	21	0.945		↓	↓	0.473	0.473/0.50 × 100 = 94.6%
Time: 1030	CCV		20	0.997		100ml	ug/l	0.997	
1030	CCB		0	<0.20		↓	↓	<0.20	

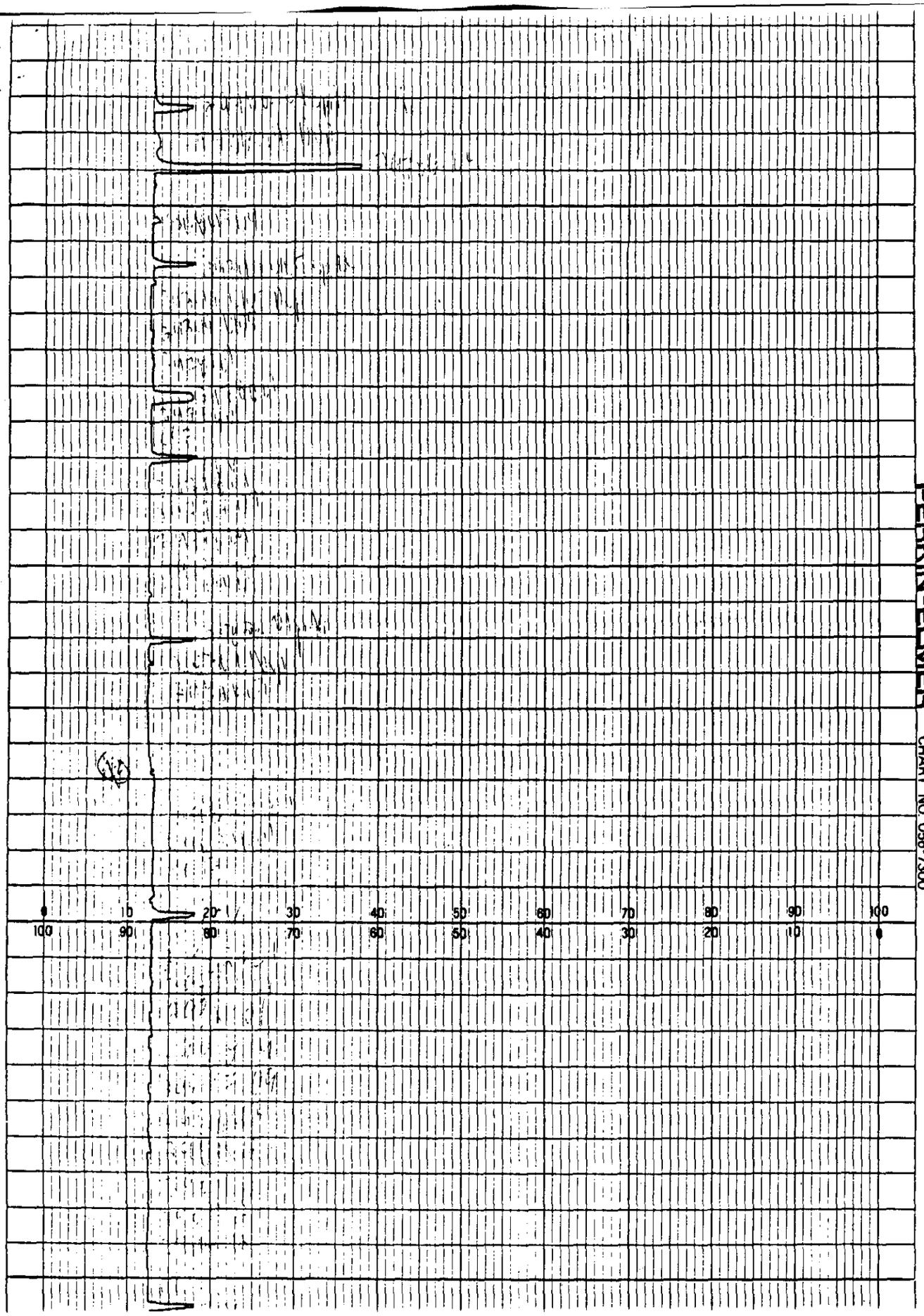
To Page No.

Witnessed & Understood by me. [signature] Date 8/8/95
Invented by
Recorded by PAR Date 8-7-95

PERKIN-ELMER CHART NO. 056-7300

PERKIN-ELMER CHART NO. 056-7300




0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0
PERKIN-ELMER CHART NO. 056-7300

RH5D
PERKIN-ELMER
CHART NO. 056-7300
0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0

Test Performed: METALS DIGESTION

Date: 8-3-95

Work Performed by: T. SEAMORE

Job Number	ID Number	pH (1 - 14)	Color	Clarity	Texture	Artifacts	Digestion Code (ICP)	Digestion Code (HGA)	Initial Weight or Volume	Final Weight or Volume	Color (Final)	Clarity (Final)	
9501.648	30047.01					4	21		1.00g	200ml	Y	C	RH5D
	30051.01												RH9D
	30051.01 DUP												RH9D (DUP
	30051.01 SPIKE I												RH9D (SPK
	PBS 1081 #1												
	LCSS #1												

Comments:

BALANCE MODEL _____

CALIBRATION SERIAL # _____

0.50g = _____

1.00g = _____

2.00g = _____

Circle one reference

REFERENCE	METHOD		
(CLP)	_____		
SW846	3050 (SOLIDS)	3010 (ICP-WATER)	3020 (FURNACE-WATER)
OTHER	Added 2.0 ml of ICP spike (927-7.5)		

4- DUST BALL

Approved by: KW Date: 8/8/95

METALS DIGESTION/EXTRACTION CODES

01 E.P. TOX Extraction Met[illegible]
02 E.P. TOX Extraction Organics
03 E. P. TOX Extraction Miscellaneous
04 E.P. TOX Digestion ICP
05 TCLP Extraction Metals
06 TCLP Extraction Organics
07 TCLP ZHE Extraction Purgeables
08 TCLP Digestion ICP
09 California Wet Test Extraction Metals
10 California Wet Test Extraction Organics
11 California Wet Test Digestion/ICP
12 Metals Available ICP
13 E.P. TOX Cr +6
14 MMWEP Extraction Metals
15 MMWEP Extraction Wet Chem.
16 MMWEP Digestion ICP
17 MMWEP Digestion Furnace
18 Cal. Wet Test Cr +6
19 TCLP Cr +6
20
21 ICP/Flame
22 Furnace
23 CR +6
24 Total Recoverable ICP
25 Total Recoverable Furnace
26 Soluble Metals ICP
27 Soluble Metals Furnace
28 Metals on Air Filters
29 Miscellaneous

COLOR CODES

R Red
O Orange
G Green
Y Yellow
B Blue
BR Brown
BK Black
CL Clear

CLARITY CODES (LIQUID)

CL Cloudy
C Clear

TEXTURE CODES (SOLID)

H Homogeneous
M Mixture
F Fine Soil
G Granular Soil
SL Sludge
CY Clay
SD Sand

COMMENTS

1 Reactive
2 Effervescent
3 Phase Change
4 Precipitation
5 Other (Explain)

ARTIFACTS

1 Rocks
2 Sticks, Leaves
3 Shavings
4 Other (Explain)

MEMORANDUM

TO: Dave Hendren

FROM: Gary Hahn

DATE: August 8, 1995

SUBJECT: TAT -Chicago
Project No. EIL0614AAA
Circle Smelting

RE: 9501.648, SDG # 30006

CC: Lab File

Attached is the laboratory report of the analyses conducted on samples received at the Analytical Services Center on July 22, 1995. Analyses was performed according to the procedures set forth in the USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis, ILM03.0.

The chain of custody form provided herein is integral to this report and must be included with the analytical results forms upon transferral to another data user.

All samples on which this report is based will be retained by E & E for a period of 30 days from the date of this report, unless otherwise instructed by the client. If additional storage of samples is requested by the client, a storage fee of $1.00 per sample container per month will be charged for each sample, with such charges accruing until destruction of the samples is authorized by the client.

GH/fal
Enclosure

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
	CIRCLE SMELTING

SAMPLERS: *(Signature)* Mike Manigan

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metals	Screen + Total RCRA Metals	REMARKS
RH1SB	7/18	1130	X		RH1	1	X	X	
RH1SG	7/18	1130	X		RH1	1	X	X	Verbal Results Required 8/8
RH2SG	7/18	1345	X		RH2	1	X	X	FAX RESULTS to
RH2SB	7/18	1355	X		RH2	1	X	X	DAVE HENDRIN
BES1SP	7/18	1250	X		BES	1	X	X	(312) 663-1090
BES1SB	7/18	1317	X		BES	1	X	X	
BES1SG	7/19	1300	X		BES	1	X	X	
BPSP	7/18	0920	X		BP	1	X	X	
BPSG	7/19	0930	X		BP	1	X	X	* screen solids and analyze
BPSB	7/19	0955	X		BP	1	X	X	per DAVE HENDRINS Instructions
RH3SB	7/19	0915	X		RH3	1	X	X	
RH3SG	7/19	0930	X		RH3	1	X	X	
RH4SB	7/19	1030	X		RH4	1	X	X	
RH5SG	7/19	1112	X		RH5	1	X	X	
RH5SB	7/19	1118	X		RH5	1	X	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Mike CManigan	7/21/95 1900				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	SHIPPED VIA FED EX
FedEx	7.22.95 0945				custody labels # 45805
					45806

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME

SAMPLERS: *(Signature)*

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA Metal + Total PCBs	Sieve + Total PCBs					REMARKS
RH6SB	7/19	1327	X		RH6	1	X	X					* See PAGE 1
RH6SB	7/19	1327	X		RH6	1	X	X					
RH6SG	7/19	1335	X		RH6	1	X	X					
RH7SB	7/19	1455	X		RH7	1	X	X					
RH7MB	7/19	1455	X		RH7	1	X	X					
RH7SD	7/19	1302	X		RH7	1	X	X					
RH7SG	7/19	1447	X		RH7	1	X	X					
RH8SG	7/20	0912	X		RH8	1	X	X					
RH8SB	7/20	0905	X		RH8	1	X	X					
RH9SB	7/20	1127	X		RH9	1	X	X					
RH9MS	7/20	1122	X		RH9	1	X	X					
RH10SD	7/20	1020	X		RH10	1	X	X					
RH10SG	7/20	1020	X		RH10	1	X	X					
RH10MSD	7/20	1020	X		RH10	1	X	X					
RH10SG	7/20	1320	X		RH10	1	X	X					

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
	7/24/95 1900				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	
	7/27/95 1045				See PAGE 1

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.:
PROJECT NAME: Circuit Smelting

SAMPLERS: *(Signature)* [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Total RCRA metals	Screen + Total RCRA metals*	REMARKS
RH11SG	7/20	1000	X		RH11	1	X	X	
RH11SB	7/20	0955	X		RH11	1	X	X	
RH12SG	7/20	1030	X		RH12	1	X	X	
BCDC2SB	7/19	0955	X		BCDC	1	X	X	
BCDC5SB	7/19	0955	X		BCDC	1	X	X	
BCDC1SB	7/19	1020	X		BCDC	1	X	X	
BCDC1SB	7/19	1020	X		BCDC	1	X	X	* See page 1
BCDC1SG	7/19	1020	X		BCDC	1	X	X	
RH1D	7/18	1520	X		RH1	1	X	X	
RH2D	7/18	1355	X		RH2	1	X	X	
RH3D	7/19	0920	X		RH3	1	X	X	
RH5D	7/19	1110	X		RH5	1	X	X	
RH6D	7/19	1330	X		RH6	1	X	X	
RH7D	7/19	1455	X		RH7	1	X	X	
RH9D	7/20	0910	X		RH9	1	X	X	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	7/21/95 1400				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	
FedEx	7.22.95 1045	[signature]			

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.:

PROJECT NAME: CIRCLE SMELTING

SAMPLERS: (Signature) [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	total RCRA metals	SVOC + total RCRA metals *				REMARKS
RH9D	7/20	1125	X		RH9	1	X	X				
BES1D	7/18	1245	X		BES	1	X	X				
												* See page one.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	7/21/95 1400				

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
[signature]	7-22-8 1435	[signature]		

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

Ecology and Environment, Inc.
Analytical Services Center
Cooler Receipt Form

PACKAGE RECEIPT #: 1415 NUMBER OF COOLERS: 2 DATE RECEIVED: 7.22.95

E&E Project #: _____ Project or Site Name: Circle Smelting (TAT-Chicago)

A: Preliminary Examination Phase

(CIRCLE ONE)

1 Did coolers come with airbill or packing slip? YES NO

if YES, enter carrier here and print airbill # below: FedEx

2 Did cooler(s) have custody seals? YES NO

if YES, how many and where: 2 front

3 Were custody seals unbroken and intact on receipt? YES NO

4 Where custody seals dated and signed? YES NO

if YES, enter Date: 7.21.95 Name: _____

5 Initial here to acknowledge receipt of cooler(s): JMH

B Unpacking Phase:

Date Cooler(s) Opened: 7.24.95 C-O-C Numbers: 2

Coolers Opened By(print): J. Hendricks (sign): [signature]

6 Where C-O-C forms received and sealed in plastic bag? YES NO

7 Was the project identifiable from the C-O-C form? YES NO

if YES, enter the project number and name in the heading above.

8 Was enough packing material used in cooler(s)? YES NO

Circle type of material: Vermiculite Bubble Wrap Other _____

9 If required, was enough ice used?: YES NO

if YES, circle type of ice: WET DRY BLUE Other _____

10 Was a temperature blank included inside cooler(s)? YES NO

if Yes, indicate temperature in table below.

If No, indicate Cooler temperature in table below.

11 Were all containers sealed in separate plastic bags?: YES NO

12 Did all containers arrive unbroken and in good condition? YES NO

C Login Phase:

Date Samples Logged in: 7.24.95

Samples logged in By(print): J. Hendricks (sign): [signature]

13 Were all container labels complete(eg.date,time,preserv.)? YES NO

14 Were all C-O-C forms filled out properly in ink and signed? YES NO

15 Did the C-O-C form agree with containers received? YES NO

16 Were the correct containers used for the tests requested? YES NO

17 Were the correct preservatives listed on the sample labels? YES NO

18 Was a sufficient sample volume sent for the tests requested? YES NO

19 Were all volatile samples received without head space? N/A YES NO

Please record Temp. Blank or Cooler Temp. for each cooler, range (2 - 5 C°)*

AIRBILL #	TEMP.C°	AIRBILL #	TEMP.C°	AIRBILL #	TEMP.C°
5966556673	3.5				
* Cooler 2	no ice	20°C			

* If NO or Temp. outside of acceptable range a Discrepancy form must be filed.

7

TAT - CHICAGO

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30006_

SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
BES1SB	30011
BES1SG	30012
BES1SP	30010
BPSB	30015
BPSG	30014
BPSP	30013
RH1SB	30006
RH1SG	30007
RH2SB	30009
RH2SG	30008
RH3SB	30016
RH3SG	30017
RH4SB	30018
RH5SB	30020
RH5SG	30019
RH6ASB	30022
RH6SB	30021
RH6SG	30023
RH7ASB	30025
RH7ASBD	30025D

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:

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 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.

Signature: Gary Hahn Name: Gary Hahn

Date: 8 4 95 Title: Laboratory Manager

TAT - CHICAGO

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30006_

SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
_RH7ASBS_____	_30025S_____
_RH7SB_____	_30024_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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:

_____

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_____

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 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.

Signature: Gary Hahn Name: Gary Hahn_____

Date: 8-8-95 Title: Laboratory Manager_____

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BES1SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30011

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.6			P
7440-39-3	Barium	109			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.1			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	123			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BES1SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30012

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.0			P
7440-39-3	Barium	165			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	12.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	52.7			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BES1SP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30010

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	160			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.66	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	11.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	160			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BPSB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30015

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	19.6			P
7440-39-3	Barium	178			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.4			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	17.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1490			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	2.6			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BPSG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30014

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.0			P
7440-39-3	Barium	161			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	12.3			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	443			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BPSP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30013

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	9.4			P
7440-39-3	Barium	141			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.4			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	834			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH1SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30006

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.0			P
7440-39-3	Barium	133			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	291			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH1SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30007

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.5			P
7440-39-3	Barium	191			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	10.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	151			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH2SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30009

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium	179			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.3			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	9.9			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	497			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH2SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30008

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.8			P
7440-39-3	Barium	136			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	402			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	2.2			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

RH3SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30016

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.7			P
7440-39-3	Barium	193			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.83	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	13.4			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	174			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH3SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30017

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	5.4			P
7440-39-3	Barium	207			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	9.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	453			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH4SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30018

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	52.7			P
7440-39-3	Barium	93.3			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.4			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	43.5			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	5240			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	P
7440-22-4	Silver	5.7			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH5SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30020

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	104			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	356			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH5SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30019

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.2			P
7440-39-3	Barium	125			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.7			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	11.2			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	376			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH6ASB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30022

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	24.2			P
7440-39-3	Barium	333			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	12.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2410			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.19			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	B	N	F
7440-22-4	Silver	2.3			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

_____

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH6SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30021

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	22.3			P
7440-39-3	Barium	306			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.8			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	11.8			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2240			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	2.3			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH6SG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30023

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	108			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	166			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	WN	F
7440-22-4	Silver	1.7	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH7ASB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30025

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	11.2			P
7440-39-3	Barium	168			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.1			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	10.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1690			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.60	U	N	F
7440-22-4	Silver	1.8	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

RH7SB

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Lab Sample ID: 30024

Level (low/med): LOW__ Date Received: 07/22/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	10.6			P
7440-39-3	Barium	175			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.3			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	11.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1750			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.61	B	N	F
7440-22-4	Silver	1.8	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: Y_____ Clarity After: C_____ Artifacts: _____

Comments:

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	1000.0	996.57	99.7	500.0	487.54	97.5	530.30	106.1	P
Barium	1000.0	1015.00	101.5	500.0	497.60	99.5	511.60	102.3	P
Beryllium									NR
Cadmium	500.0	511.70	102.3	500.0	494.40	98.9	499.80	100.0	P
Calcium									NR
Chromium	1000.0	1053.00	105.3	500.0	498.40	99.7	521.10	104.2	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	1014.00	101.4	1000.0	1019.00	101.9	1013.00	101.3	P
Magnesium									NR
Manganese									NR
Mercury	5.0	5.03	100.6	1.0	1.09	109.0	1.14	114.0	CV
Nickel									NR
Potassium									NR
Selenium	20.0	19.95	99.7	25.0	25.02	100.1	26.40	105.6	F
Silver	200.0	196.60	98.3	500.0	507.10	101.4	532.10	106.4	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				500.0	514.94	103.0	488.24	97.6	P
Barium				500.0	504.70	100.9	507.10	101.4	P
Beryllium									NR
Cadmium				500.0	494.90	99.0	500.50	100.1	P
Calcium									NR
Chromium				500.0	510.90	102.2	518.50	103.7	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	989.90	99.0	1010.00	101.0	P
Magnesium									NR
Manganese									NR
Mercury				1.0	1.14	114.0	1.14	114.0	CV
Nickel									NR
Potassium									NR
Selenium				25.0	26.15	104.6	25.01	100.0	F
Silver				500.0	527.70	105.5	534.90	107.0	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				500.0	530.97	106.2			P
Barium				500.0	508.40	101.7			P
Beryllium									NR
Cadmium				500.0	501.70	100.3			P
Calcium									NR
Chromium				500.0	521.50	104.3			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				1000.0	1014.00	101.4			P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	25.26	101.0	24.65	98.6	F
Silver				500.0	532.50	106.5			P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	25.12	100.5	25.52	102.1	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	20.0	20.12	100.6	25.0	22.97	91.9	25.12	100.5	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Initial Calibration Source: EPA-LV/P-E__

Continuing Calibration Source: VHG/NBS_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium				25.0	24.00	96.0	24.68	98.7	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

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

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic								
Barium				400.0	403.50	100.9	415.50	103.9
Beryllium								
Cadmium				10.0	8.78	87.8	9.50	95.0
Calcium								
Chromium				20.0	30.33	151.6	20.52	102.6
Cobalt								
Copper								
Iron								
Lead				400.0	361.50	90.4	417.80	104.4
Magnesium								
Manganese								
Mercury	0.2	0.22	110.0					
Nickel								
Potassium								
Selenium	5.0	4.93	98.6					
Silver				20.0	19.62	98.1	20.71	103.5
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

AA CRDL Standard Source: PERKIN-ELMER

ICP CRDL Standard Source: VHG_____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic				25.0	23.58	94.3	25.17	100.7
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	4.73	94.6					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Preparation Blank Matrix (soil/water): SOIL_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.6	U	4.6	U	4.6	U	4.6	U	0.920	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Beryllium											NR
Cadmium	2.8	U	2.8	U	2.8	U	2.8	U	0.560	U	P
Calcium											NR
Chromium	5.7	U	5.7	U	5.7	U	5.7	U	1.140	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	32.6	U	32.6	U	32.6	U	32.6	U	6.520	U	P
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel											NR
Potassium											NR
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	F
Silver	8.3	U	8.3	U	8.3	U	8.3	U	1.660	U	P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			4.6	U	4.6	U					P
Barium			3.0	U	3.0	U					P
Beryllium											NR
Cadmium			2.8	U	2.8	U					P
Calcium											NR
Chromium			5.7	U	5.7	U					P
Cobalt											NR
Copper											NR
Iron											NR
Lead			32.6	U	32.6	U					P
Magnesium											NR
Manganese											NR
Mercury			0.2	U							CV
Nickel											NR
Potassium											NR
Selenium			3.0	U	3.0	U	3.0	U			F
Silver			8.3	U	8.3	U					P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			3.0	U	3.0	U					F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	3.0	U	3.0	U	3.0	U	3.0	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

3
BLANKS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.: 30006_

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium			3.0	U							F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30006_

ICP ID Number: OPTIMA_____ ICS Source: VHG_____

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								
Antimony								
Arsenic	0	0	8	13.3		3	16.6	
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No: _____ SDG No.: 30006_

ICP ID Number: JY_____ ICS Source: VHG_____

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								
Antimony								
Arsenic								
Barium	0	440	4	450.1	102.3	8	464.4	105.5
Beryllium								
Cadmium	23	851	5	867.8	102.0	7	886.6	104.2
Calcium								
Chromium	0	427	-22	432.5	101.3	-21	448.8	105.1
Cobalt								
Copper								
Iron								
Lead	67	1124	146	1005.0	89.4	134	1048.0	93.2
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver	0	899	9	925.8	103.0	11	976.6	108.6
Sodium								
Thallium								
Vanadium								
Zinc								

TAT - CHICAGO

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

RH7ASBS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: 100.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	428.7182		11.1574		400.00	104.4		P
Barium	75-125	605.4000		168.2400		400.00	109.3		P
Beryllium									NR
Cadmium	75-125	13.1060		2.1320		10.00	109.7		P
Calcium									NR
Chromium	75-125	59.2800		10.7060		40.00	121.4		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	1818.8000		1694.4000		100.00	124.4		P
Magnesium									NR
Manganese									NR
Mercury	75-125	0.4190		0.1000	U	0.50	83.8		CV
Nickel									NR
Potassium									NR
Selenium	75-125	1.4860		0.6000	U	2.00	74.3	N	F
Silver	75-125	12.9400		1.8056	B	10.00	111.3		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

TAT - CHICAGO

6
DUPLICATES

EPA SAMPLE NO.

RH7ASBD

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: 100.0 % Solids for Duplicate: _100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		11.1574		10.7770		3.5		P
Barium	40.0	168.2400		162.6600		3.4		P
Beryllium								NR
Cadmium	1.0	2.1320		2.4540		14.0		P
Calcium								NR
Chromium		10.7060		10.1800		5.0		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		1694.4000		1674.4000		1.2		P
Magnesium								NR
Manganese								NR
Mercury		0.1000	U	0.1000	U			CV
Nickel								NR
Potassium								NR
Selenium		0.6000	U	0.6000	U			F
Silver	2.0	1.8056	B	2.4020		28.3		P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

TAT - CHICAGO

7

LABORATORY CONTROL SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				65.1	68.7		31.9	97.0	105.5
Barium				319.0	323.0		213.0	415.0	101.3
Beryllium									
Cadmium				81.5	77.7		40.7	114.0	95.3
Calcium									
Chromium				57.4	53.3		33.9	80.4	92.9
Cobalt									
Copper									
Iron									
Lead				128.0	115.4		68.9	179.0	90.2
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver				85.0	86.9		34.0	125.0	102.2
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

TAT - CHICAGO

7

LABORATORY CONTROL SAMPLE

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury				23.7	17.2		10.0	36.7	72.6
Nickel									
Potassium									
Selenium				47.6	34.4		24.3	69.5	72.3
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

TAT - CHICAGO

8
STANDARD ADDITION RESULTS

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract:_____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.:_____ SDG No.:30006_

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

FORM VIII - IN ILM03.0

TAT - CHICAGO

9

ICP SERIAL DILUTION

EPA SAMPLE NO.

RH7ASBL

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

Matrix (soil/water): SOIL_ Level (low/med): LOW__

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	55.79		57.01		2.2		P
Barium	841.20		855.50	B	1.7		P
Beryllium							NR
Cadmium	10.66		14.19	B	33.1		P
Calcium							NR
Chromium	53.53		72.75		35.9		P
Cobalt							NR
Copper							NR
Iron							NR
Lead	8472.00		8545.00		0.9		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver	9.03	B	41.50	U	100.0		P
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: OPTIMA_____ Date: 07/20/95

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	188.98		10	4.6	P
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: _____ Date: 04/28/95

Flame AA ID Number : 2380_____

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		0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: _____ Date: 07/13/95

Flame AA ID Number : _____

Furnace AA ID Number : 5100A_____

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

Comments:

TAT - CHICAGO

10
Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: JY_____ Date: 07/24/95

Flame AA ID Number : _____

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	233.53		200	3.0	P
Beryllium			5		NR
Cadmium	226.50		5	2.8	P
Calcium			5000		NR
Chromium	205.56		10	5.7	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	32.6	P
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver	328.07		10	8.3	P
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

TAT - CHICAGO

10

Instrument Detection Limits (Quarterly)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: _____ Date: 07/19/95

Flame AA ID Number : _____

Furnace AA ID Number : 4100Z_____

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

Comments:

TAT - CHICAGO

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: OPTIMA_____ Date: 08/25/94

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	___
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	315.88	0.0000000	0.0000000	0.0000000	0.0000000	
Chromium	205.56	0.0000000	0.0000000	0.0000000	0.0000000	
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	
Copper	324.76	0.0000000	0.0000000	0.0000000	0.0000000	
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	
Mercury						
Nickel	231.61	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.48	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium						
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.79	0.0000000	0.0000000	0.0000000	0.0000000	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

TAT - CHICAGO

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: JY_____ Date: 01/03/94

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	V
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	217.58	0.0000000	0.0000000	0.0017000	0.0000000	0.0000000
Arsenic	197.30	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006000
Cadmium	226.50	0.0000000	0.0000000	0.0001700	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	205.56	0.0000000	0.0000000	0.0002000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0013000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	-0.0002000	0.0000000	0.0000000
Potassium	766.47	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	-0.0002000	0.0000000	-0.0002000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	0.0002300	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0001700	0.0000000	0.0000000

Comments:

TAT - CHICAGO

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: OPTIMA_____ Date: 06/22/95

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	50000.0	P
Antimony	10.00	2000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	5000.0	P
Beryllium	10.00	1000.0	P
Cadmium	10.00	5000.0	P
Calcium	10.00	100000.0	P
Chromium	10.00	10000.0	P
Cobalt	10.00	10000.0	P
Copper	10.00	100000.0	P
Iron	10.00	250000.0	P
Lead	10.00	10000.0	P
Magnesium	10.00	100000.0	P
Manganese	10.00	10000.0	P
Mercury			NR
Nickel	10.00	10000.0	P
Potassium	10.00	50000.0	P
Selenium			NR
Silver	10.00	10000.0	P
Sodium	10.00	50000.0	P
Thallium	10.00	10000.0	P
Vanadium	10.00	10000.0	P
Zinc	10.00	5000.0	P

Comments:

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12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.: 30006_

ICP ID Number: JY_____ Date: 05/08/95

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	10.00	500000.0	P
Antimony	10.00	2000.0	P
Arsenic	10.00	10000.0	P
Barium	10.00	10000.0	P
Beryllium	10.00	10000.0	P
Cadmium	10.00	10000.0	P
Calcium	10.00	500000.0	P
Chromium	10.00	10000.0	P
Cobalt	10.00	10000.0	P
Copper	10.00	10000.0	P
Iron	10.00	500000.0	P
Lead	10.00	50000.0	P
Magnesium	10.00	700000.0	P
Manganese	10.00	10000.0	P
Mercury			NR
Nickel	10.00	10000.0	P
Potassium	10.00	700000.0	P
Selenium	10.00	10000.0	P
Silver	10.00	2000.0	P
Sodium	10.00	500000.0	P
Thallium			NR
Vanadium	10.00	10000.0	P
Zinc	10.00	50000.0	P

Comments:

TAT - CHICAGO

13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30006_

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
BES1SB	08/01/95	1.00	200
BES1SG	08/01/95	1.00	200
BES1SP	08/01/95	1.00	200
BPSB	08/01/95	1.00	200
BPSG	08/01/95	1.00	200
BPSP	08/01/95	1.00	200
LCSS	08/01/95	1.00	200
PBS	08/01/95	1.00	200
RH1SB	08/01/95	1.00	200
RH1SG	08/01/95	1.00	200
RH2SB	08/01/95	1.00	200
RH2SG	08/01/95	1.00	200
RH3SB	08/01/95	1.00	200
RH3SG	08/01/95	1.00	200
RH4SB	08/01/95	1.00	200
RH5SB	08/01/95	1.00	200
RH5SG	08/01/95	1.00	200
RH6ASB	08/01/95	1.00	200
RH6SB	08/01/95	1.00	200
RH6SG	08/01/95	1.00	200
RH7ASB	08/01/95	1.00	200
RH7ASBD	08/01/95	1.00	200
RH7ASBS	08/01/95	1.00	200
RH7SB	08/01/95	1.00	200

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13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30006_

Method: F_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
BES1SB	08/01/95	1.00	200
BES1SG	08/01/95	1.00	200
BES1SP	08/01/95	1.00	200
BPSB	08/01/95	1.00	200
BPSG	08/01/95	1.00	200
BPSP	08/01/95	1.00	200
LCSS	08/01/95	1.00	200
PBS	08/01/95	1.00	200
RH1SB	08/01/95	1.00	200
RH1SG	08/01/95	1.00	200
RH2SB	08/01/95	1.00	200
RH2SG	08/01/95	1.00	200
RH3SB	08/01/95	1.00	200
RH3SG	08/01/95	1.00	200
RH4SB	08/01/95	1.00	200
RH5SB	08/01/95	1.00	200
RH5SG	08/01/95	1.00	200
RH6ASB	08/01/95	1.00	200
RH6SB	08/01/95	1.00	200
RH6SG	08/01/95	1.00	200
RH7ASB	08/01/95	1.00	200
RH7ASBD	08/01/95	1.00	200
RH7ASBS	08/01/95	1.00	200
RH7SB	08/01/95	1.00	200

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13
PREPARATION LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.:9501.648 SAS No.: _____ SDG No.:30006_

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
BES1SB	08/02/95	0.20	100
BES1SG	08/02/95	0.20	100
BES1SP	08/02/95	0.20	100
BPSB	08/02/95	0.20	100
BPSG	08/02/95	0.20	100
BPSP	08/02/95	0.20	100
LCSS	08/02/95	0.04	100
PBS	08/02/95	0.20	100
RH1SB	08/02/95	0.20	100
RH1SG	08/02/95	0.20	100
RH2SB	08/02/95	0.20	100
RH2SG	08/02/95	0.20	100
RH3SB	08/02/95	0.20	100
RH3SG	08/02/95	0.20	100
RH4SB	08/02/95	0.20	100
RH5SB	08/02/95	0.20	100
RH5SG	08/02/95	0.20	100
RH6ASB	08/02/95	0.20	100
RH6SB	08/02/95	0.20	100
RH6SG	08/02/95	0.20	100
RH7ASB	08/02/95	0.20	100
RH7ASBD	08/02/95	0.20	100
RH7ASBS	08/02/95	0.20	100
RH7SB	08/02/95	0.20	100

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14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: JY_____ Method: P_

Start Date: 08/02/95 End Date: 08/03/95

EPA 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	2107		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S	1.00	2112		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
S	1.00	2117		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	2121		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICB	1.00	2126		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	2131		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	2136		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSA	1.00	2202		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
ICSAB	1.00	2207		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CRI	1.00	2212		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
PBS	1.00	2217		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
LCSS	1.00	2222		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH1SB	1.00	2227		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH1SG	1.00	2233		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH2SG	1.00	2238		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH2SB	1.00	2243		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BES1SP	1.00	2248		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	2253		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	2258		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BES1SB	1.00	2303		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BES1SG	1.00	2308		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BPSP	1.00	2313		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BPSG	1.00	2318		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
BPSB	1.00	2323		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH3SB	1.00	2328		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH3SG	1.00	2333		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH4SB	1.00	2338		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH5SG	1.00	2343		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH5SB	1.00	2348		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCV	1.00	2353		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
CCB	1.00	2358		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
RH6SB	1.00	0003		-	-	-	X	-	X	-	X	-	-	-	X	-	-	-	-	-	-	X	-	-	-	-	-
				-	-	-		-		-		-	-	-		-	-	-	-	-	-		-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: __________

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: ______ SDG No.:30006_

Instrument ID Number: JY__________ Method: P_

Start Date: 08/02/95 End Date: 08/03/95

EPA 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
RH6ASB	1.00	0008					X		X		X				X							X					
RH6SG	1.00	0013					X		X		X				X							X					
RH7SB	1.00	0018					X		X		X				X							X					
RH7ASB	1.00	0023					X		X		X				X							X					
RH7ASBD	1.00	0028					X		X		X				X							X					
RH7ASBS	1.00	0033					X		X		X				X							X					
RH7ASBL	5.00	0038					X		X		X				X							X					
CCV	1.00	0043					X		X		X				X							X					
CCB	1.00	0048					X		X		X				X							X					
ICSA	1.00	0053					X		X		X				X							X					
ICSAB	1.00	0058					X		X		X				X							X					
CRI	1.00	0103					X		X		X				X							X					
CCV	1.00	0108					X		X		X				X							X					
CCB	1.00	0113					X		X		X				X							X					

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14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: OPTIMA_____ Method: P_

Start Date: 08/04/95 End Date: 08/04/95

EPA 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	1449				X																								
S	1.00	1452				X																								
ICV	1.00	1455				X																								
ICB	1.00	1459				X																								
CCV	1.00	1502				X																								
CCB	1.00	1508				X																								
ICSA	1.00	1511				X																								
ICSAB	1.00	1514				X																								
CRI	1.00	1516				X																								
PBS	1.00	1519				X																								
LCSS	1.00	1526				X																								
RH1SB	1.00	1529				X																								
RH1SG	1.00	1532				X																								
RH2SG	1.00	1535				X																								
RH2SB	1.00	1539				X																								
BES1SP	1.00	1541				X																								
CCV	1.00	1544				X																								
CCB	1.00	1547				X																								
BES1SB	1.00	1550				X																								
BES1SG	1.00	1552				X																								
BPSP	1.00	1556				X																								
BPSG	1.00	1600				X																								
BPSB	1.00	1604				X																								
RH3SB	1.00	1608				X																								
RH3SG	1.00	1611				X																								
RH4SB	1.00	1618				X																								
RH5SG	1.00	1626				X																								
RH5SB	1.00	1630				X																								
CCV	1.00	1633				X																								
CCB	1.00	1636				X																								
RH6SB	1.00	1640				X																								
RH6ASB	1.00	1652				X																								
RH6SG	1.00	1658				X																								

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14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: OPTIMA_____ Method: P_

Start Date: 08/04/95 End Date: 08/04/95

EPA 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
RH7SB	1.00	1702				X																					
RH7ASB	1.00	1704				X																					
RH7ASBD	1.00	1708				X																					
RH7ASBS	1.00	1712				X																					
RH7ASBL	5.00	1717				X																					
CCV	1.00	1720				X																					
CCB	1.00	1726				X																					
ICSA	1.00	1731				X																					
ICSAB	1.00	1734				X																					
CRI	1.00	1737				X																					
CCV	1.00	1741				X																					
CCB	1.00	1746				X																					

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14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/02/95 End Date: 08/03/95

EPA 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	2319		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	2321		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S10	1.00	2324		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S25	1.00	2327		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	2329		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	2346		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	2351		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	2356		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	0002		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	0007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBS	1.00	0012		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBSA	1.00	0018	99.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS	1.00	0023		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSSA	1.00	0028	93.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH1SB	1.00	0034		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH1SBA	1.00	0039	119.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	0044		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	0050		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH1SG	1.00	0055		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH1SGA	1.00	0100	103.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2SG	1.00	0106		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2SGA	1.00	0111	99.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2SB	1.00	0116		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH2SBA	1.00	0122	97.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BES1SP	1.00	0127		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BES1SPA	1.00	0132	113.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	0137		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	0143		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BES1SB	1.00	0148		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BES1SBA	1.00	0153	117.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BES1SG	1.00	0158		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BES1SGA	1.00	0204	105.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: 5100A_____ Method: F_

Start Date: 08/02/95 End Date: 08/03/95

EPA 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
BPSP	1.00	0209		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BPSPA	1.00	0214	117.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BPSG	1.00	0219		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BPSGA	1.00	0225	125.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	0230		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	0235		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BPSB	1.00	0240		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
BPSBA	1.00	0246	126.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH3SB	1.00	0251		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH3SBA	1.00	0256	123.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH3SG	1.00	0301		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH3SGA	1.00	0307	121.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH4SB	1.00	0312		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH4SBA	1.00	0318	72.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	0323		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	0328		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH5SG	1.00	0333		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH5SGA	1.00	0339	107.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH5SB	1.00	0344		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH5SBA	1.00	0350	109.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH6SB	1.00	0355		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH6SBA	1.00	0401	99.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH6ASB	1.00	0406		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH6ASBA	1.00	0411	85.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	0417		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	0422		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH6SG	1.00	0427		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH6SGA	1.00	0433	119.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH7SB	1.00	0438		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH7SBA	1.00	0443	102.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH7ASB	1.00	0449		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
RH7ASBA	1.00	0454	93.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: ___________

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: ______ SDG No.:30006_

Instrument ID Number: 5100A________ Method: F_

Start Date: 08/02/95 End Date: 08/03/95

EPA 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
RH7ASBD	1.00	0459																			X						
RH7ASBDA	1.00	0505	115.2																		X						
CCV	1.00	0510																			X						
CCB	1.00	0515																			X						
RH7ASBS	1.00	0520																			X						
RH7ASBSA	1.00	0526	94.7																								
ZZZZZZ	1.00	0531																									
ZZZZZZA	1.00	0536	114.9																								
ZZZZZZ	1.00	0542																									
ZZZZZZA	1.00	0547	88.0																								
ZZZZZZ	1.00	0552																									
ZZZZZZA	1.00	0558	105.5																								
CCV	1.00	0603																			X						
CCB	1.00	0608																			X						

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: 4100Z_____ Method: F_

Start Date: 08/03/95 End Date: 08/03/95

EPA 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	1442		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	1445		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S10	1.00	1448		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S15	1.00	1450		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S25	1.00	1453		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S50	1.00	1456		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	1.00	1521		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	1527		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	1532		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1538		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1543		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	1548		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1554		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1559		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	1604		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZA	1.00	1610	62.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1615		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZA	1.00	1621	85.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1626		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZA	1.00	1632	112.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1637		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZA	1.00	1643	105.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1649		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1654		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	1659		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZA	1.00	1705	105.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1710		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZA	1.00	1716	115.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1721		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZA	1.00	1726	96.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	20.00	1732		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSSA	20.00	1737	106.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: 4100Z_____ Method: F_

Start Date: 08/03/95 End Date: 08/03/95

EPA 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
CCV	1.00	1742																		X						
CCB	1.00	1748																		X						

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/02/95 End Date: 08/02/95

EPA 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	1520		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S0.5	1.00	1522		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S1	1.00	1524		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S5	1.00	1526		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
S10	1.00	1528		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICV	1.00	1530		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICB	1.00	1532		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1534		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1536		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CRA	1.00	1538		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
PBS	1.00	1540		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
LCSS	1.00	1542		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH1SB	1.00	1544		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH1SG	1.00	1546		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH2SG	1.00	1548		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH2SB	1.00	1550		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BES1SP	1.00	1552		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BES1SB	1.00	1554		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BES1SG	1.00	1556		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1602		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BPSP	1.00	1603		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BPSG	1.00	1604		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BPSB	1.00	1606		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH3SB	1.00	1608		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH3SG	1.00	1610		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH4SB	1.00	1612		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH5SG	1.00	1614		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH5SB	1.00	1616		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH6SB	1.00	1618		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
RH6ASB	1.00	1621		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1624		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TAT - CHICAGO

14
ANALYSIS RUN LOG

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9501.648 SAS No.: _____ SDG No.:30006_

Instrument ID Number: 2380_____ Method: CV

Start Date: 08/02/95 End Date: 08/02/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1626																X								
RH6SG	1.00	1627																X								
RH7SB	1.00	1628																X								
RH7ASB	1.00	1630																X								
RH7ASBD	1.00	1632																X								
RH7ASBS	1.00	1634																X								
ZZZZZZ	1.00	1636																								
ZZZZZZ	1.00	1638																								
ZZZZZZ	1.00	1640																								
ZZZZZZ	1.00	1642																								
ZZZZZZ	1.00	1645																								
CCV	1.00	1648																X								
CCB	1.00	1650																X								

Instrument ID: Optima
ICS Source: VHG
Date: 1/3/95
Units: ug/L

ICP Interference Check Sample Values

ELEMENT	MEAN	STANDARD DEVIATION	LOWER VALUE	UPPER VALUE
Al	526284	10613	421028	631541
Ba	405	4.7	324	486
Be	423	5.3	339	508
Cd	793	9.6	634	951
Cr	388	4.5	310	466
Co	390	4.7	312	468
Cu	451	9.3	361	542
Fe	201749	3909	161100	241650
Pb	765	10.2	612	918
Mg	478104	5865	382483	573724
Mn	447	6.2	357	536
Ni	745	8.2	596	894
Ag	873	13.3	698	1047
V	399	5.6	320	479
Zn	869	11.1	695	1043
Ca	456998	4616	365598	548397

Instrument ID: JY
ICS Source: VHG
Date: 6/27/95
Units: ug/L

ICP Interference Check Sample Values

ELEMENT	MEAN	STANDARD DEVIATION	LOWER VALUE	UPPER VALUE
Al	438980	1987	351184	526776
Ba	440	2.7	352	528
Be	456	2.1	365	547
Cd	851	4.4	681	1021
Cr	427	3.0	342	513
Co	444	2.7	355	533
Cu	448	3.8	358	537
Fe	154100	704	123280	184920
Pb	1124	18.8	900	1349
Mg	483360	2403	386688	580032
Mn	505	2.6	404	606
Ni	862	9.5	689	1034
Ag	899	4.7	719	1079
V	421	3.1	337	505
Zn	901	4.4	721	1081
Ca	448360	2084	358688	538032

RAW DATA
8/2/95

RLH

ϕ 9501.648 Ag, Ba, Cd, Cr, Pb (30006-30025)

ϕ PBS 1066, LCSS 8/01

Measurements for STDLOW-

Elements of SIMULTANEOUS

SAs	188.979	2.2870	0.00000	2.8880	-0.60100
		2.2830	0.00000	2.8740	-0.59100
Sn	190.026	1.7710	0.00000	3.1570	-0.68600
		1.7380	0.00000	3.1560	-0.71800
SCr	205.559	3.0150	0.00000	1.2460	0.79900
		3.0610	0.00000	1.2030	0.86100
sPb	220.453	14.891	15.268	0.00000	-0.37700
		15.080	15.138	0.00000	-0.35800
SCd	226.502	9.6080	0.00000	10.626	-1.0180
		9.6780	0.00000	10.666	-0.98800
sBi	223.727	1.3680	0.00000	5.8500	-4.4820
		1.3260	0.00000	8.7970	-4.4710
sF	229.910	0.5 800	0.00000	0.53100	0.00700
		0.53600	0.00000	0.53000	0.00600

SIDS prepared 8/2/95 @ 1030.

Bom 8/3/95

77

$Ag	328.068	21.855	0.00000	23.203	-1.3480
		21.897	0.00000	23.114	-1.2170
$Al	396.152	7.6110	5.5200	0.00000	0.12100
		5.6240	3.1830	0.00000	0.14100

El		Alpha	Beta	Offset
As	188.979	1.0155	-0.0233	0.000000
Se	196.026	1.0540	-0.1036	0.000000
Cr	205.559	0.9900	0.2258	0.000000
Pb	220.353	0.9676	0.4606	0.000000
Cd	226.502	1.0056	-0.2174	0.000000
Ba	233.527	1.0010	-0.2535	0.000000
Fe	259.940	0.9910	0.0720	0.000000
Ag	328.068	0.9968	0.1943	0.000000
Al	396.152	0.9933	0.0249	0.000000

----- 21:07:12 8/ 2/95 ----- Method: ILMO202

Sample STDLOW- - 1 #MEAS.= 2 for Seq., #MEAS.= 2 f
or Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	-0.5960/	1.2%	$Se	-0.7020/	3.2%	$Cr	0.8300/	5.3%	$Pb	-0.3675/	3.7%
$Cd	-1.003/	2.1%	$Ba	-1.476/	0.17%	$Fe	0.0065/	11%	$Ag	-1.282/	7.2%
$Al	0.1510/	11%									

Measurements for STDHIGH- - 1

Element or SIMULTANEOUS

$As	188.979	1.3620	0.00000	3.0030	1.3590
		1.4010	0.00000	2.9900	1.4110
$Se	196.026	1.2080	0.00000	3.5320	1.6560
		1.2390	0.00000	3.5310	1.7080
$Cr	205.559	23.764	0.00000	4.5190	19.245
		23.833	0.00000	4.5110	19.322
$Pb	220.353	29.062	15.640	0.00000	13.422
		29.095	15.751	0.00000	13.344
$Cd	226.502	67.956	0.00000	10.726	57.210
		68.233	0.00000	10.783	57.450
$Ba	233.527	58.792	0.00000	9.0170	49.775
		58.677	0.00000	9.0990	49.578
$Ag	328.068	82.079	0.00000	23.039	59.040
		81.712	0.00000	23.178	58.534
$Al	396.152	10.032	6.6130	0.00000	3.4190

10.067 6.5850 0.00000 3.4820

EL		Alpha	Beta	Offset
As	188.979	1.0765	0.0131	0.000000
Se	196.026	1.1586	-0.0302	0.000000
Cr	205.559	1.1717	0.0750	0.000000
Pb	220.353	1.0266	0.4823	0.000000
Cd	226.502	1.0483	-0.1725	0.000000
Ba	233.527	1.2538	0.8644	0.000000
Ag	328.068	1.0165	0.2196	0.000000
Al	396.152	1.0661	0.0153	0.000000

----- 21:12:15 8/ 2/93 ----- Method: ILMO202

Sample STDHIGH- - 1 #MEAS.= 2 for Seq., #MEAS.= 2 for Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	1.385/ 2.6%	$Se	1.682/ 2.2%	$Cr	19.28/ 0.28%	$Pb	13.38/ 0.41%
$Cd	37.33/ 0.30%	$Ba	19.68/ 0.28%	$Ag	38.79/ 0.61%	$Al	3.450/ 1.3%

Measurements for STD2- - 1

Elements of SIMULTANEOUS

$Fe 259.940 11.137 0.00000 0.55200 10.885
11.160 0.00000 0.55100 10.909

EL		Alpha	Beta	Offset
Fe	259.940	1.0962	0.0714	0.000000

----- 21:17:19 8/ 2/93 ----- Method: ILMO202

Sample STD2- - 1 #MEAS.= 2 for Seq., #MEAS.= 2 for Simul.

EL	CONC/ sigma
$Fe	10.90/ 0.16%

Measurements for ICV- - 1

Elements of SIMULTANEOUS

79

$As 188.979 1.4110 0.00000 2.9140 1.6216 1056.5 ppb
1.4200 0.00000 2.9350 1.6116 1050.5 ppb

```
$Se   196.026   7.2700 0.00000   5.4570   2.0703   1054.9 ppb
                7.3630 0.00000   5.4060   2.2371   1115.4 ppb

$Cr   205.559   24.729 0.00000   4.4350   23.854   1054.8 ppb
                21.621 0.00000   4.3680   23.806   1052.5 ppb

$Pb   220.353   22.611  15.789 0.00000   7.4859   1045.7 ppb
                22.350  15.951 0.00000   7.0516   984.18 ppb

$Cd   226.502   39.893 0.00000   10.915   30.205   513.96 ppb
                39.732 0.00000   11.001   29.946   509.73 ppb

$Ba   233.527   59.593 0.00000   9.1580   64.097   1014.0 ppb
                59.703 0.00000   9.1860   64.200   1015.5 ppb

$Fe   259.940   1.6050 0.00000 0.53400   1.2454   977.46 ppb
                1.5960 0.00000 0.53600   1.2333   967.36 ppb

$Ag   328.068   31.117 0.00000   23.491   11.021   198.25 ppb
                31.020 0.00000   23.632   10.779   194.28 ppb

$Al   396.152   9.2280  5.8150 0.00000   3.6540   988.70 ppb
                9.1920  5.7800 0.00000   3.6529   988.40 ppb

----- 21:21:08  8/ 2/95 -----   Method: ILMO202

Sample ICV-            -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As     1054/ 0.41% $Se     1085/  3.9% $Cr     1053/ 0.15% $Pb     1014/  4.3%

$Cd    511.7/ 0.58% $Ba     1015/ 0.11% $Fe    972.4/ 0.73% $Ag    196.6/  1.4%

$Al    988.6/ 0.02%

Measurements For ICB-            -                    1

-----------------------------------------------
  Elements of SIMULTANEOUS

$As   188.979   2.2770 0.00000   2.8480-0.60159   12.620 ppb
                2.2420 0.00000   2.8160-0.60482   11.105 ppb

$Se   196.026   1.8080 0.00000   5.3440-0.65118   69.631 ppb
                1.7730 0.00000   5.3810-0.73460   39.430 ppb

$Cr   205.559   5.1110 0.00000   1.1430  1.2092   7.4783 ppb
                5.0170 0.00000   1.1930  1.0405-0.32514 ppb

$Pb   220.353   14.831  15.248 0.00000 0.05418 -7.1997 ppb
                14.831  15.333 0.00000-0.03308 -19.563 ppb

$Cd   226.502   9.5220 0.00000   10.555 -1.2554-0.51429 ppb
                9.5330 0.00000   10.492 -1.1779 0.75429 ppb
```

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$Ba	233.527	4.3520	0.00000	8.8500	[illegible]	0.39702	ppb
		4.2930	0.00000	8.9110	[illegible]	2.6130	ppb
$Fe	259.940	0.53200	0.00000	0.52800	0.07576	2.2956	ppb
		0.53300	0.00000	0.52800	0.07686	-1.3773	ppb
$Ag	328.068	21.727	0.00000	22.956	-1.0296	0.89064	ppb
		21.640	0.00000	23.074	-1.2380	-2.5221	ppb
$Al	396.152	5.5760	5.4440	0.00000	0.15607	0.30125	ppb
		5.5880	5.4230	0.00000	0.19125	10.243	ppb

----- 21:26:11 8/ 2/95 ----- Method: ILMO202

Sample ICB- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	11.86/	9.0%	$Se	54.53/	39%	$Cr	3.577/	150%	$Pb	-13.38/	65%
$Cd	0.1203/	750%	$Ba	-1.505/	100%	$Fe	-1.836/	35%	$Ag	-0.8163/	300%
$Al	5.272/	130%									

Measurements for CCV1- -

Elements of SIMULTANEOUS

$As	188.979	3.4430	0.00000	2.9830	0.50826	533.06	ppb
		3.4520	0.00000	2.9710	0.51083	543.66	ppb
$Se	196.026	6.1060	0.00000	5.5360	0.53018	533.56	ppb
		6.1210	0.00000	5.5500	0.53134	533.98	ppb
$Cr	205.559	14.481	0.00000	4.4300	11.862	499.69	ppb
		14.493	0.00000	4.4530	11.839	499.09	ppb
$Pb	220.353	22.149	15.421	0.00000	7.3894	1032.0	ppb
		22.301	15.749	0.00000	7.2087	1006.4	ppb
$Cd	226.502	38.343	0.00000	10.787	28.924	493.01	ppb
		38.903	0.00000	10.897	29.186	497.30	ppb
$Ba	233.527	31.530	0.00000	9.0770	29.015	497.29	ppb
		31.621	0.00000	9.1320	29.060	497.95	ppb
$Fe	259.940	5.7060	0.00000	0.53700	5.7375	4740.4	ppb
		5.7090	0.00000	0.53600	5.7419	4744.0	ppb
$Ag	328.068	52.377	0.00000	23.371	29.703	504.22	ppb
		52.475	0.00000	23.293	29.882	507.15	ppb
$Al	396.152	8.5150	6.6530	0.00000	2.0005	521.46	ppb
		8.5160	6.6590	0.00000	1.9951	519.96	ppb

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----- 21:31:15 8/ 2/95 ----- Method: ILMO202

Sample CCV1- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	538.4/	1.4%	$Se	533.8/	0.06%	$Cr	498.4/	0.08%	$Pb	1019/	1.8%
$Cd	494.1/	0.61%	$Ba	497.6/	0.09%	$Fe	4742/	0.05%	$Ag	507.1/	0.41%
$Al	520.7/	0.20%									

Measurements for CCB1- - 1

Elements of SIMULTANEOUS

$As	188.979	2.3060	0.00000	2.8470	-0.56929	27.764	ppb
		2.2530	0.00000	2.8320	-0.61020	8.5815	ppb
$Se	196.026	1.6810	0.00000	5.3640	-0.82149	7.9698	ppb
		1.7110	0.00000	5.3880	-0.81454	10.487	ppb
$Cr	205.559	1.9410	0.00000	4.1700	0.97837	-3.1972	ppb
		3.1110	0.00000	4.1010	1.2619	9.9168	ppb
$Pb	220.353	11.673	15.297	0.00000	-0.15833	-37.308	ppb
		11.961	15.392	0.00000	0.04289	-8.7997	ppb
$Cd	226.502	0.3040	0.00000	10.511	-1.2292	-0.08571	ppb
		0.3220	0.00000	10.575	-1.2764	-0.85715	ppb
$Ba	233.527	4.2630	0.00000	8.7290	-1.7318	0.19390	ppb
		4.2480	0.00000	8.7930	-1.8461	-1.4196	ppb
$Fe	259.940	0.52800	0.00000	0.52600	0.07357	-1.1320	ppb
		0.52900	0.00000	0.52800	0.07217	-5.0503	ppb
$Ag	328.068	22.877	0.00000	22.862	-0.98693	1.5898	ppb
		22.581	0.00000	22.581	-1.1516	-1.1070	ppb
$Al	308.215	0.5110	0.00000	0.00000	0.16110	1.8075	ppb
		0.5320	0.00116	0.00000	0.16033	1.5062	ppb

----- Standard: 2/ 2,97 - Method: ILM0202

Sample CCV1- 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	16.17/	73%	$Se	0.225/	10%	$Cr	3.361/	180%	$Pb	-23.05/	87%
$Cd	-0.1707/	120%	$Ba	-0.0279/	190%	$Fe	-4.591/	14%	$Ag	0.2400/	800%
$Al	1.057/	47%									

Measurements for ICSAI - - 1

Elements of SIMULTANEOUS

$As	188.979	1.3630	0.00000	4.8340	-0.47241	73.195	ppb
		1.3230	0.00000	4.9350	-0.64572	-8.0767	ppb
$Se	196.026	8.3610	0.00000	9.2240	-1.0300	-67.534	ppb
		8.3030	0.00000	9.3620	-1.2571	-149.75	ppb
$Cr	205.559	9.6220	0.00000	8.5920	1.2818	10.838	ppb
		9.6550	0.00000	8.5990	1.3123	12.247	ppb
$Pb	220.353	20.280	17.734	0.00000	3.0971	423.91	ppb
		20.348	17.813	0.00000	3.0848	422.17	ppb
$Cd	226.502	13.023	0.00000	12.015	0.88415	34.474	ppb
		12.994	0.00000	12.086	0.77932	32.760	ppb
$Ba	233.527	5.0910	0.00000	9.3580	-4.4816	3.9241	ppb
		5.1110	0.00000	9.3760	-4.4828	3.9056	ppb
$Fe	259.940	182.16	0.00000	0.69200	199.33	166900	ppb
		183.00	0.00000	0.69300	199.92	167400	ppb
$Ag	328.068	20.659	0.00000	24.424	-3.6074	-41.327	ppb
		20.645	0.00000	24.330	-3.5261	-39.995	ppb
$Al	396.152	1518.1	18.136	0.00000	1631.4	460940	ppb
		1552.6	18.075	0.00000	1636.0	462210	ppb

----- 22:02:38 8/ 2/95 ----- Method: ILMO20-

Sample ICSAI - - 1 #MEAS.= 3 for Seq., #MEAS.= 2 f
or Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
[illegible]	[illegible]	[illegible]	51%	$Cr	-21.89/ 4.2%	$Pb	146.1/ 1.2%
[illegible]	[illegible]	[illegible]	0.33%	$Fe	167200/ 0.21%	$Ag	9.181/ 11%
[illegible]	[illegible]	[illegible]	[illegible]				

Measurements for ICSAB - - 1

Elements of SIMULTANEOUS

$As	188.979	1.2810	0.00000	1.8090	-0.63218	-11.105	ppb
		1.2960	0.00000	1.9020	-0.73615	-30.480	ppb
$Se	196.026	3.1210	0.00000	3.1340	-1.1250	-101.93	ppb
		3.2610	0.00000	3.3010	-1.2386	-143.04	ppb

[illegible]	[illegible]	[illegible]	[illegible]	8.5680	11.160	467.66 ppb
		[illegible]	[illegible]	8.6940	11.047	462.46 ppb
[illegible]	[illegible]	26.210	17.979	0.00000	8.9632	1255.0 ppb
		26.378	17.855	0.00000	9.2321	1293.1 ppb
$Cd	226.502	63.152	0.00000	12.166	53.591	896.39 ppb
		63.341	0.00000	12.167	53.477	894.52 ppb
$Ba	233.527	29.215	0.00000	9.4000	25.745	449.13 ppb
		29.429	0.00000	9.4750	25.882	451.14 ppb
$Fe	259.940	177.19	0.00000	0.68900	193.88	162340 ppb
		178.01	0.00000	0.69000	194.44	162810 ppb
$Ag	328.068	75.823	0.00000	21.459	52.432	876.46 ppb
		75.968	0.00000	24.535	52.500	877.58 ppb
$Al	396.152	1502.4	17.875	0.00000	1582.7	447170 ppb
		1507.1	17.835	0.00000	1587.7	448590 ppb

----- 22:07:40 8/ 2/95 ----- Method: ILMO202

Sample ICSABf- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simult.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	-30.79/ 90%	$Se	-122.5/ 24%	$Cr	432.5/ 0.87%	$Pb	1005/ 2.6%
$Cd	867.8/ 0.16%	$Ba	150.1/ 0.32%	$Fe	162600/ 0.21%	$Ag	925.8/ 0.10%
$Al	447900/ 0.22%						

Measurements for CRI1- - 1

Elements of SIMULTANEOUS

$As	188.979	2.7150	0.00000	2.8700	-0.12148	237.76	ppb
		2.7290	0.00000	2.9440	-0.21836	192.33	ppb
$Se	196.026	3.2860	0.00000	3.4450	-0.21440	227.77	ppb
		3.3250	0.00000	3.4450	-0.16922	244.13	ppb
$Cr	205.559	5.6590	0.00000	4.2260	1.7540	32.677	ppb
		5.6200	0.00000	4.2720	1.6545	28.071	ppb
$Pb	220.353	17.855	15.703	0.00000	2.6916	366.46	ppb
		17.737	15.650	0.00000	2.6248	357.01	ppb
$Cd	226.502	10.287	0.00000	10.789	-0.69880	8.5886	ppb
		10.266	0.00000	10.741	-0.67049	9.0515	ppb
$Ba	233.527	26.379	0.00000	9.0900	22.541	401.93	ppb
		26.450	0.00000	8.9920	22.752	405.05	ppb
$Fe	259.940	0.77100	0.00000	0.53000	0.33556	215.33	ppb

		0.77300	0.00000	0.53200	0.33556	215.33	ppb
$Ag	328.068	23.103	0.00000	23.171	0.15051	20.218	ppb
		23.127	0.00000	23.275	0.06919	18.886	ppb
$Al	396.152	7.3010	5.7520	0.00000	1.6668	427.17	ppb
		7.2670	5.7570	0.00000	1.6252	415.42	ppb

----- 22:12:44 8/ 2/95 ----- Method: ILMO202

Sample CRII- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma EL	EL	CONC/	sigma EL	EL	CONC/	sigma EL	EL	CONC/	sigma
$As	215.0/	15%	$Se	235.9/	4.9%	$Cr	30.33/	11%	$Pb	361.5/	1.8%
$Cd	8.783/	3.7%	$Ba	403.5/	0.55%	$Fe	215.3/	0.00%	$Ag	19.62/	4.8%
$Al	421.3/	2.0%									

Measurements for PBS 1066- - 1

Elements of SIMULTANEOUS

$As	188.979	2.3050	0.00000	2.8560	-0.58006	22.716	ppb
		2.3310	0.00000	2.8840	-0.58221	21.706	ppb
$Se	196.026	4.7640	0.00000	5.3660	-0.72764	41.946	ppb
		4.8010	0.00000	5.4910	-0.82960	5.0336	ppb
$Cr	205.559	5.1170	0.00000	1.2450	1.1319	3.9017	ppb
		5.1120	0.00000	4.2430	1.0932	2.1134	ppb
$Pb	220.353	15.071	15.181	0.00000	0.06445	-5.7452	ppb
		15.138	15.191	0.00000	0.11681	1.6727	ppb
$Cd	226.502	9.5810	0.00000	10.645	-1.2879	-1.0457	ppb
		9.7560	0.00000	10.729	-1.1925	0.51429	ppb
$Ba	233.527	1.1080	0.00000	8.9410	-4.8188	-1.0433	ppb
		1.3310	0.00000	8.9080	-4.8740	-1.8558	ppb
$Fe	259.940	0.54600	0.00000	0.53000	0.08891	8.7232	ppb
		0.54600	0.00000	0.53100	0.08782	7.8050	ppb
$Ag	328.068	21.939	0.00000	23.326	-1.1902	-1.7396	ppb
		21.977	0.00000	23.259	-1.0835	0.00832	ppb
$Al	396.152	5.6830	5.5230	0.00000	0.18592	8.7363	ppb
		5.6510	5.5220	0.00000	0.15287	-0.60250	ppb

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----- 22:17:50 8/ 2/95 ----- Method: ILMO202

Sample PBS 1066- PBS1 - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	22.21/	3.2%	$Se	23.19/	110%	$Cr	3.006/	42%	$Pb	-2.039/	260%
$Cd	-0.2071/	410%	$Ba	-1.450/	40%	$Fe	8.264/	7.9%	$Ag	-0.8632/	140%
$Al	4.067/	160%									

Measurements for LCSS =1 -8/1 TS- 1

Elements of SIMULTANEOUS

$As	188.979	3.0610 0.00000	3.0130	0.06475	325.09	ppb
		3.1420 0.00000	3.0600	0.10135	342.25	ppb
$Se	196.026	5.5690 0.00000	5.8330	-0.33605	183.72	ppb
		5.6310 0.00000	5.7210	-0.13446	256.71	ppb
$Cr	205.559	10.599 0.00000	1.7770	6.8968	270.52	ppb
		10.606 0.00000	1.6960	6.9999	275.29	ppb
$Pb	220.353	19.359 15.805	0.00000	4.1309	570.38	ppb
		19.616 15.826	0.00000	4.3732	604.71	ppb
$Cd	226.502	32.982 0.00000	10.978	22.894	394.41	ppb
		32.877 0.00000	10.947	22.817	393.14	ppb
$Ba	233.527	92.752 0.00000	9.2960	105.50	1623.8	ppb
		91.853 0.00000	9.3070	104.36	1607.0	ppb
$Fe	259.940	34.912 0.00000	0.56400	37.723	31533	ppb
		34.689 0.00000	0.56500	37.478	31328	ppb
$Ag	328.068	18.271 0.00000	23.874	25.019	427.50	ppb
		18.006 0.00000	23.914	24.708	422.42	ppb
$Al	396.152	63.431 5.0880	0.00000	61.150	17235	ppb
		63.042 5.0920	0.00000	60.731	17117	ppb

----- 22:22:51 8/ 2/93 ----- Method: ILM0202

LCSS1

Sample LCSS =1 -8/1 TS- 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	333.7/	3.6%	$Se	220.2/	23%	$Cr	266.6/	1.3%	$Pb	577.2/	4.2%
$Cd	385.4/	0.22%	$Ba	1615/	0.74%	$Fe	31430/	0.46%	$Ag	434.4/	0.84%
$Al	17180/	0.19%									

Measurements for 50006- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4920	0.00000	3.0290	-0.56499	29.783	ppb
		2.4520	0.00000	3.0190	-0.59728	14.639	ppb
$Se	196.026	4.9780	0.00000	5.4960	-0.63033	77.181	ppb
		4.9630	0.00000	5.6720	-0.85161	-2.9362	ppb
$Cr	205.559	6.3050	0.00000	4.5010	2.1888	52.781	ppb
		6.2390	0.00000	4.5040	2.1079	49.042	ppb
$Pb	220.353	25.111	15.537	0.00000	10.650	1494.0	ppb
		25.252	15.611	0.00000	10.346	1450.9	ppb
$Cd	226.502	10.339	0.00000	10.634	-0.48180	12.137	ppb
		10.350	0.00000	10.556	-0.40946	13.320	ppb
$Ba	233.527	40.310	0.00000	8.8530	40.304	663.56	ppb
		40.499	0.00000	8.8080	40.597	667.88	ppb
$Fe	259.940	40.932	0.00000	0.56300	44.323	37062	ppb
		40.922	0.00000	0.56300	44.312	37053	ppb
$Ag	328.068	21.812	0.00000	23.373	-1.3671	-4.6363	ppb
		21.711	0.00000	23.355	-1.4514	-6.0180	ppb
$Al	396.152	96.875	6.3560	0.00000	96.520	27229	ppb
		96.883	6.3880	0.00000	96.494	27222	ppb

----- 8/ 2/95 ----- Method: ILMO202

9501.648 RHISB

Sample 30006- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	22.21/	48%	$Se	37.12/	150%	$Cr	43.50/	6.1%	$Pb	1456/	2.1%
$Cd	6.129/	13%	$Ba	665.7/	0.46%	$Fe	37060/	0.02%	$Ag	5.790/	17%
$Al	27230/	0.02%									

Measurements for 30007- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5370	0.00000	2.9750	-0.45842	79.758	ppb
		2.4750	0.00000	3.0440	-0.59944	13.629	ppb
$Se	196.026	5.0670	0.00000	5.7120	-0.77746	23.909	ppb
		5.0160	0.00000	5.6690	-0.78673	20.554	ppb
$Cr	205.559	6.5270	0.00000	1.6070	2.3247	59.067	ppb
		6.6260	0.00000	1.6090	2.4383	64.324	ppb
$Pb	220.353	20.061	15.295	0.00000	5.3782	747.10	ppb
		20.183	15.299	0.00000	5.8043	807.46	ppb

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$Cd	226.502	10.301	0.00000	10.565	-0.44930	12.669	ppb
		10.148	0.00000	10.601	-0.33294	14.572	ppb
$Ba	233.527	56.036	0.00000	8.8980	59.964	953.12	ppb
		56.108	0.00000	8.8570	60.106	955.21	ppb
$Fe	259.940	18.703	0.00000	0.56800	52.836	44193	ppb
		18.867	0.00000	0.56900	53.015	44343	ppb
$Ag	328.068	21.759	0.00000	23.483	-1.5328	-7.3498	ppb
		21.703	0.00000	23.606	-1.7147	-10.330	ppb
$Al	396.152	126.21	6.3070	0.00000	127.87	36089	ppb
		126.61	6.3040	0.00000	128.28	36204	ppb

----- 22:33:01 8/ 2/95 ----- Method: ILMO202

Sample 30007- RH15G 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	46.69/	100%	$Se	22.23/	11%	$Cr	52.84/	7.0%	$Pb	755.6/	5.6%
$Cd	6.091/	22%	$Ba	951.2/	0.15%	$Fe	44270/	0.24%	$Ag	4.441/	47%
$Al	36150/	0.22%									

Measurements for 30008- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5050	0.00000	3.0210	-0.54238	40.384	ppb
		2.5180	0.00000	2.9130	-0.41213	101.46	ppb
$Se	196.026	1.9270	0.00000	3.5650	-0.76935	26.846	ppb
		1.9470	0.00000	3.5880	-0.77283	25.587	ppb
$Cr	205.559	6.2680	0.00000	4.4110	2.2509	55.653	ppb
		6.2160	0.00000	4.5280	2.0528	46.495	ppb
$Pb	220.353	28.820	15.391	0.00000	14.269	2006.7	ppb
		28.987	15.295	0.00000	14.539	2044.9	ppb
$Cd	226.502	10.288	0.00000	10.590	-0.48914	12.017	ppb
		10.317	0.00000	10.580	-0.44825	12.686	ppb
$Ba	233.527	11.025	0.00000	8.7910	11.278	677.90	ppb
		11.298	0.00000	8.7950	11.615	682.87	ppb
$Fe	259.940	12.616	0.00000	0.56500	46.167	38607	ppb
		12.806	0.00000	0.56500	46.375	38781	ppb
$Ag	328.068	22.095	0.00000	23.409	-1.1160	-0.52439	ppb
		21.991	0.00000	23.289	-1.0967	-0.20809	ppb

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$Al  396.152  90.022  6.2010 0.00000  89.379   25212 ppb
              90.297  6.1730 0.00000  89.702   25303 ppb

----- 22:38:03  8/ 2/95 -----   Method: TLM0202
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RH2SG

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Sample 30008-                                  1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.
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EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	70.92/	61%	$Se	26.22/	3.4%	$Cr	43.34/	15%	$Pb	2011/	1.3%
$Cd	5.774/	7.8%	$Ba	680.4/	0.52%	$Fe	38690/	0.32%	$Ag	11.24/	2.3%
$Al	25260/	0.26%									

```
Measurements for 30009-                        -                        1

------------------------------------------------
  Elements of SIMULTANEOUS

$As  188.979  2.4160 0.00000  2.9710-0.55207  35.840 ppb
              2.1800 0.00000  3.0249-0.56929  27.764 ppb

$Se  196.026  5.0010 0.00000  5.5610-0.67551  60.822 ppb
              1.9280 0.00000  5.5600-0.76210  29.362 ppb

$Cr  205.559  6.2910 0.00000  4.3840  2.3094  58.363 ppb
              6.3650 0.00000  1.5120  2.2462  55.437 ppb

$Pb  220.353  32.015  15.314 0.00000  17.659  2487.0 ppb
              32.177  15.274 0.00000  17.835  2512.0 ppb

$Cd  226.502  10.573 0.00000  10.567-0.15997  17.400 ppb
              10.568 0.00000  10.501-0.10231  18.343 ppb

$Ba  233.527  53.801 0.00000  8.8150  56.012  894.92 ppb
              54.014 0.00000  8.7810  56.322  899.48 ppb

$Fe  259.940  40.773 0.00000 0.56100  44.151   36918 ppb
              40.847 0.00000 0.56100  44.232   36986 ppb

$Ag  328.068  21.702 0.00000  23.273 -1.3772 -4.8028 ppb
              21.606 0.00000  23.317 -1.5196 -7.1331 ppb

$Al  396.152  81.263  6.4870 0.00000  82.936   23391 ppb
              81.415  6.4880 0.00000  83.127   23445 ppb

----- 22:43:01  8/ 2/95 -----   Method: TLM0202
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RH2SB

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Sample 30009-                                  1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.
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EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	31.80/	18%	$Se	45.09/	49%	$Cr	49.51/	4.2%	$Pb	24857/	0.71%
$Cd	11.55/	5.7%	$Ba	897.2/	0.36%	$Fe	36950/	0.13%	$Ag	5.117/	32%

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$Al 23420/ 0.16%

Measurements for 30010- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5610	0.00000	2.9840	-0.44227	87.330	ppb
		2.5110	0.00000	3.0580	-0.55122	34.831	ppb
$Se	196.026	5.1270	0.00000	5.8270	-0.84118	0.83893	ppb
		5.0930	0.00000	5.7140	-0.74966	33.977	ppb
$Cr	205.559	6.7670	0.00000	4.6590	2.5450	69.255	ppb
		6.7130	0.00000	4.6400	2.5040	67.358	ppb
$Pb	220.353	20.655	15.214	0.00000	6.0383	840.62	ppb
		20.457	15.257	0.00000	5.8207	809.79	ppb
$Cd	226.502	10.535	0.00000	10.545	-0.39269	13.594	ppb
		10.446	0.00000	10.490	-0.33399	14.554	ppb
$Ba	233.527	17.659	0.00000	8.8240	49.554	799.80	ppb
		17.901	0.00000	8.8290	49.855	804.23	ppb
$Fe	259.940	69.736	0.00000	0.58700	75.871	63489	ppb
		69.810	0.00000	0.58800	75.951	63556	ppb
$Ag	328.068	21.183	0.00000	23.516	-1.8499	-12.544	ppb
		21.328	0.00000	23.475	-1.7594	-11.062	ppb
$Al	396.152	154.38	5.3930	0.00000	157.79	44542	ppb
		154.47	5.4020	0.00000	157.88	44566	ppb

----- 22:18:06 3/ 2/95 ----- Method: ILMO202

Sample 30010- BESISP 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	61.08/ 61%	$Se	17.41/ 110%	$Cr	55.60/ 2.4%	$Pb	798.5/ 2.7%
$Cd	3.270/ 20%	$Ba	802.0/ 0.39%	$Fe	63520/ 0.07%	$Ag	7.254/ 15%

$Al 41550/ 0.01%

Measurements for QC02- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3920	0.00000	2.8760	0.56854	561.33	ppb
		3.4170	0.00000	2.9390	0.52764	542.15	ppb

90

$Se	196.026	5.9360	0.00000	5.4210	0.56646	510.49	ppb
		5.9330	0.00000	5.3520	0.64293	538.17	ppb
$Cr	205.559	14.753	0.00000	4.2460	12.386	524.40	ppb
		14.732	0.00000	4.3120	12.284	519.68	ppb
$Pb	220.353	21.896	15.435	0.00000	7.1153	993.20	ppb
		22.028	15.296	0.00000	7.3935	1032.6	ppb
$Cd	226.502	38.751	0.00000	10.563	29.377	500.42	ppb
		38.859	0.00000	10.646	29.403	500.85	ppb
$Ba	233.527	32.032	0.00000	8.8670	29.908	510.43	ppb
		32.181	0.00000	8.8880	30.068	512.80	ppb
$Fe	259.940	5.8150	0.00000	0.53100	5.8965	4873.5	ppb
		5.8820	0.00000	0.53200	5.9360	4906.6	ppb
$Ag	328.068	53.564	0.00000	23.006	31.281	530.06	ppb
		53.681	0.00000	23.054	31.351	531.21	ppb
$Al	396.152	8.5660	6.6630	0.00000	2.0442	533.82	ppb
		8.5190	6.6820	0.00000	2.0058	522.97	ppb

----- 22:53:08 6/ 2/93 ----- Method: ILMO202

Sample CCV2- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

El.	CONC/ sigma	El.	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	531.7/ 2.3%	$Se	521.3/ 3.7%	$Cr	521.1/ 0.64%	$Pb	1013/ 2.7%
$Cd	499.3/ 0.06%	$Ba	511.6/ 0.33%	$Fe	1890/ 0.18%	$Ag	532.1/ 0.15%
$Al	521.1/ 1.4%						

Measurements for CCV2- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2130	0.00000	2.8030	-0.58975	18.173	ppb
		2.2620	0.00000	2.8440	-0.61343	7.0671	ppb
$Se	196.026	4.5850	0.00000	5.2410	-0.79021	19.295	ppb
		4.6930	0.00000	5.2010	-0.61874	81.376	ppb
$Cr	205.559	3.0400	0.00000	4.0860	1.1928	6.7196	ppb
		4.8840	0.00000	4.0510	1.0510	0.16257	ppb
$Pb	220.353	14.963	15.050	0.00000	0.39297	40.799	ppb
		11.758	15.111	0.00000	0.09627	-1.2363	ppb
$Cd	226.502	9.4710	0.00000	10.432	-1.1768	0.77143	ppb
		9.1910	0.00000	10.439	-1.1663	0.94286	ppb
$Ba	233.527	4.3010	0.00000	5.7750	-4.7449	0.04617	ppb

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                1.3280 0.00000   8.7720 -4.7072 0.60015 ppb

$Fe   259.940 0.55400 0.00000 0.52600 0.10207  19.742 ppb
              0.55300 0.00000 0.52900 0.09988  17.906 ppb

$Ag   328.068  21.773 0.00000  22.925-0.95135  2.1725 ppb
               21.731 0.00000  22.950-0.96863  1.8895 ppb

$Al   396.152  5.6320  5.5010 0.00000 0.15500 0.00000 ppb
               5.6360  5.4870 0.00000 0.17419  5.4225 ppb

----- 22:58:13  8/ 2/95 -----   Method: ILMO202

Sample CCB2-          -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 simul.

EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma EL     CONC/ sigma

$As   12.62/   62% $Se   50.31/   87% $Cr   3.437/  140% $Pb   19.78/  150%

$Cd   0.8539/   11% $Ba   0.3232/  120% $Fe   18.82/  6.9% $Ag   2.037/  9.8%

$Al   2.711/  140%

Measurements for 10011-          -                  1

------------------------------------------------
  Elements of SIMULTANEOUS

$As   188.979  2.4420 0.00000  2.9820-0.56822  28.269 ppb
               2.4660 0.00000  2.9470-0.50471  58.051 ppb

$Se   196.026  4.9560 0.00000  5.6590-0.84466-0.41946 ppb
               5.0200 0.00000  5.6370-0.74502  35.654 ppb

$Cr   205.559  6.1830 0.00000  1.4230  2.1372  50.397 ppb
               6.1550 0.00000  1.4630  2.0575  46.712 ppb

$Pb   220.353  19.277  15.413 0.00000  4.4491  615.47 ppb
               19.311  15.238 0.00000  4.6945  650.23 ppb

$Cd   226.502  10.186 0.00000  10.547-0.55099  11.006 ppb
               10.291 0.00000  10.535-0.42833  13.011 ppb

$Ba   233.527  33.808 0.30000  8.8520  32.153  543.51 ppb
               31.085 0.00000  8.8210  32.539  549.19 ppb

$Fe   259.940  11.150 0.00000 0.56500  44.560   37260 ppb
               11.360 0.00000 0.56500  44.790   37453 ppb

$Ag   328.068  21.673 0.00000  23.341 -1.4697 -6.3177 ppb
               21.687 0.00000  23.338 -1.4586 -6.1346 ppb

$Al   396.152  108.63  6.2260 0.00000  109.19   30809 ppb
               109.11  6.2320 0.00000  109.70   30952 ppb

----- 23:00:15  8/ 2/95 -----   Method: ILMO202
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BESISB

Sample 30011- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	13.16/ 49%	$Se	17.62/ 150%	$Cr	41.08/ 6.4%	$Pb	614.3/ 4.0%
$Cd	5.653/ 25%	$Ba	516.1/ 0.74%	$Fe	37360/ 0.36%	$Ag	4.981/ 3.4%
$Al	30860/ 0.33%						

Measurements for 30012- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4470	0.00000	3.0680	-0.65341	-12.620	ppb
		2.4890	0.00000	3.0400	-0.58006	22.716	ppb
$Se	196.026	1.9950	0.00000	5.7210	-0.87131	-10.067	ppb
		3.1210	0.00000	5.7880	-0.79947	15.940	ppb
$Cr	205.559	6.7930	0.00000	4.6290	2.6106	72.290	ppb
		6.7630	0.00000	4.5690	2.6457	73.916	ppb
$Pb	220.353	17.117	15.495	0.00000	2.1474	289.37	ppb
		17.089	15.481	0.00000	2.1331	287.34	ppb
$Cd	226.502	10.179	0.00000	10.529	-0.53945	11.194	ppb
		10.161	0.00000	10.568	-0.59921	10.217	ppb
$Ba	233.527	19.203	0.00000	8.9000	51.394	826.91	ppb
		18.916	0.00000	8.8530	51.094	822.48	ppb
$Fe	259.940	52.204	0.00000	6.57200	56.670	47404	ppb
		52.114	0.00000	6.57200	56.604	47349	ppb
$Ag	328.068	21.582	0.00000	23.132	-1.6608	-9.4474	ppb
		21.516	0.00000	23.506	-1.7727	-11.279	ppb
$Al	396.152	144.00	3.4520	0.00000	146.65	41396	ppb
		113.33	8.1160	0.00000	146.52	41357	ppb

----- 20:08:16 8/ 2/93 ----- Method: ILMO202

BESISG

Sample 30012- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	3.019/ 500%	$Se	2.936/ 630%	$Cr	63.63/ 1.8%	$Pb	263.5/ 0.54%
$Cd	2.532/ 26%	$Ba	821.7/ 0.38%	$Fe	47380/ 0.08%	$Ag	3.850/ 34%
$Al	41380/ 0.07%						

Measurements for 30013- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4970	0.00000	2.9890	-0.51655	52.499	ppb
		2.5190	0.00000	3.0180	-0.52408	48.965	ppb
$Se	196.026	1.9340	0.00000	5.6490	-0.85856	-5.4530	ppb
		5.0530	0.00000	5.6850	-0.76240	29.362	ppb
$Cr	205.559	6.2290	0.00000	4.5680	2.0212	45.032	ppb
		6.3210	0.00000	4.6080	2.0821	47.850	ppb
$Pb	220.353	11.017	15.245	0.00000	30.020	4238.3	ppb
		13.396	15.326	0.00000	29.299	4136.2	ppb
$Cd	226.502	10.373	0.00000	10.600	-0.41051	13.303	ppb
		10.531	0.00000	10.555	-0.19456	16.834	ppb
$Ba	233.527	12.587	0.00000	8.9140	43.082	704.48	ppb
		12.626	0.00000	8.8120	43.259	707.08	ppb
$Fe	259.940	51.692	0.00000	0.57300	56.107	46933	ppb
		51.712	0.00000	0.57400	56.161	46978	ppb
$Ag	328.068	21.630	0.00000	23.522	-1.6944	-9.9967	ppb
		21.678	0.00000	23.290	-1.4189	-5.4853	ppb
$Al	396.152	106.90	6.1530	0.00000	107.42	30309	ppb
		106.82	6.1110	0.00000	107.38	30299	ppb

----- 23:13:18 8/ 2/95 ----- Method: ILMO202

BPSP

Sample 30014- 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	50.73/	1.9%	$Se	11.95/	210%	$Cr	37.05/	5.4%	$Pb	4169/	1.7%
$Cd	7.0867/	35%	$Ba	705.8/	0.26%	$Fe	46960/	0.07%	$Ag	6.346/	50%
$Al	30350/	0.02%									

Measurements for 30014- - 1

Elements of SIMULTANEOUS

$As	188.979	2.6070	0.00000	3.0940	-0.51116	55.023	ppb
		2.5780	0.00000	3.1290	-0.58006	22.716	ppb
$Se	196.026	5.1640	0.00000	5.7850	-0.74966	33.977	ppb
		5.0890	0.00000	5.8120	-0.86783	-8.8087	ppb
$Cr	205.559	6.8760	0.00000	4.6670	2.6633	74.728	ppb
		6.8620	0.00000	4.7030	2.6024	71.910	ppb

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$Pb	220.353	30.292	15.239	0.00000	15.936	2242.9	ppb
		30.319	15.351	0.00000	15.879	2234.9	ppb
$Cd	226.502	10.666	0.00000	10.603	-0.10650	18.274	ppb
		10.666	0.00000	10.615	-0.11908	18.069	ppb
$Ba	233.527	17.980	0.00000	8.8670	49.902	804.93	ppb
		18.151	0.00000	8.9040	50.074	807.46	ppb
$Fe	259.940	65.369	0.00000	0.58700	71.084	59479	ppb
		66.017	0.00000	0.58600	71.796	60075	ppb
$Ag	328.068	21.711	0.00000	23.689	-1.7879	-11.528	ppb
		21.682	0.00000	23.604	-1.7340	-10.646	ppb
$Al	396.152	135.53	7.6620	0.00000	136.33	38478	ppb
		136.58	7.6770	0.00000	137.44	38791	ppb

----- 23:15:18 8/ 2/95 ----- Method: ILMO202

Sample 30014- BPSG 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	38.87/	59%	$Se	12.58/	240%	$Cr	61.36/	3.4%	$Pb	2216/	0.26%
$Cd	8.009/	2.7%	$Ba	806.2/	0.22%	$Fe	59780/	0.70%	$Ag	6.846/	11%
$Al	38640/	0.57%									

Measurements for 30015- - 1

Elements of SIMULTANEOUS

$As	188.979	2.7760	0.00000	3.1260	-0.36369	124.18	ppb
		2.7640	0.00000	3.2130	-0.47026	74.205	ppb
$Se	196.026	3.1110	0.00000	5.8230	-0.85161	-2.9362	ppb
		3.0650	0.00000	5.7530	-0.82728	5.8725	ppb
$Cr	205.559	7.1910	0.00000	4.7610	3.2738	102.96	ppb
		7.1390	0.00000	4.7070	3.2761	103.07	ppb
$Pb	220.353	66.177	15.301	0.00000	52.651	7444.6	ppb
		66.351	15.315	0.00000	53.055	7501.9	ppb
$Cd	226.502	10.613	0.00000	10.568	0.25202	24.137	ppb
		10.812	0.00000	10.179	0.17654	22.903	ppb
$Ba	233.527	73.17[illegible]	0.00000	8.8760	55.495	887.31	ppb
		72.38[illegible]	0.00000	8.7580	56.183	897.13	ppb
$Fe	259.940	77.93[illegible]	0.00000	0.59000	81.718	68387	ppb
		77.176	0.00000	0.59100	81.830	68480	ppb

$Ag	328.068	21.593	0.00000	23.333	-1.5490	-7.6162	ppb
		21.367	0.00000	23.277	-1.5185	-7.1168	ppb
$Al	396.152	147.15	8.8390	0.00000	147.58	41658	ppb
		147.36	8.8310	0.00000	147.70	41692	ppb

----- 23:23:19 8/ 2/95 ----- Method: ILMO202

Sample 30016- BPSB 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	99.19/	36%	$Se	1.168/	420%	$Cr	89.33/	0.07%	$Pb	7448/	0.54%
$Cd	11.89/	7.4%	$Ba	892.1/	0.80%	$Fe	68430/	0.10%	$Ag	13.16/	2.8%
$Al	11680/	0.06%									

Measurements for 30016- - 1

Elements of SIMULTANEOUS

$As	188.979	2.6470	0.00000	3.1460	-0.52408	48.965	ppb
		2.6710	0.00000	3.1320	-0.47995	69.662	ppb
$Se	196.026	3.1980	0.00000	3.8980	-0.84118	0.83893	ppb
		3.1720	0.00000	3.9810	-0.96747	-44.883	ppb
$Cr	205.559	7.6630	0.00000	1.8010	2.7254	77.600	ppb
		7.1600	0.00000	1.7970	2.8438	83.074	ppb
$Pb	220.353	21.072	15.219	0.00000	6.4911	904.77	ppb
		21.213	15.107	0.00000	6.4449	898.22	ppb
$Cd	228.802	10.579	0.00000	10.553	-0.14529	17.640	ppb
		10.132	0.00000	10.634	-0.38430	13.732	ppb
$Ba	233.527	33.165	0.00000	8.7630	60.696	963.91	ppb
		36.876	0.00000	8.8420	61.087	969.67	ppb
$Fe	259.940	74.411	0.00000	0.59400	80.991	67777	ppb
		74.651	0.00000	0.59400	81.255	67998	ppb
$Ag	328.068	21.516	0.00000	23.528	-1.8316	-12.244	ppb
		21.167	0.00000	23.525	-1.8723	-12.910	ppb
$Al	396.152	192.22	7.3110	0.00000	197.15	55664	ppb
		192.81	7.3330	0.00000	197.75	55834	ppb

----- 23:28:21 8/ 2/95 ----- Method: ILMO202

Sample 30016- RH3SB 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma

$As 59.31/ 25% $Se -22.02/ 150% $Cr 66.76/ 5.7% $Pb 868.0/ 0.54%

$Cd 1.115/ 67% $Ba 960.3/ 0.42% $Fe 67890/ 0.23% $Ag 7.789/ 5.4%

$Al 55750/ 0.22%

Measurements for 30017- - 1

Elements of SIMULTANEOUS

$As	188.979	2.1080	0.00000	2.9610	-0.58221	21.706	ppb
		2.3810	0.00000	2.9040	-0.54992	36.850	ppb
$Se	196.026	1.8780	0.00000	3.5510	-0.80990	12.164	ppb
		1.9320	0.00000	3.5080	-0.67435	61.242	ppb
$Cr	205.559	6.2730	0.00000	4.1980	2.1548	51.210	ppb
		6.2350	0.00000	1.4280	2.2157	54.028	ppb
$Pb	220.353	30.140	15.319	0.00000	16.057	2260.1	ppb
		30.609	15.059	0.00000	16.405	2309.4	ppb
$Cd	226.502	10.232	0.00000	10.433	-0.38326	13.749	ppb
		10.054	0.00000	10.458	-0.59606	10.269	ppb
$Ba	233.527	59.896	0.00000	8.7970	64.932	1026.3	ppb
		60.637	0.00000	8.6900	65.993	1041.9	ppb
$Fe	259.940	37.721	0.00000	0.55700	40.810	34119	ppb
		37.906	0.00000	0.55700	41.013	34289	ppb
$Ag	328.068	21.131	0.00000	21.059	-1.4321	-5.7017	ppb
		21.510	0.00000	23.025	-1.3203	-3.8705	ppb
$Al	396.152	102.31	0.6980	0.00000	103.13	29096	ppb
		101.28	0.0790	0.00000	103.64	29212	ppb

----- 14:53:21 8/ 2/93 ----- Method: ILMO202

RH35G

Sample 30017- 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	29.23/	17%	$Se	36.70/	95%	$Cr	15.78/	1.3%	$Pb	2267/	1.5%
$Cd	0.151/	10%	$Ba	1041/	1.1%	$Fe	34200/	0.35%	$Ag	5.475/	24%

$Al 29170/ 0.35%

Measurements for 30018- - 1

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Elements of SIMULTANEOUS

$As	188.979	3.5000	0.00000	3.5820	-0.07519	259.46	ppb
		3.5020	0.00000	3.5320	-0.01921	285.71	ppb
$Se	196.026	3.4970	0.00000	6.2310	-0.88405	-14.681	ppb
		3.1190	0.00000	6.2710	-0.98253	-50.336	ppb
$Cr	205.559	10.543	0.00000	5.2826	6.2629	241.20	ppb
		10.632	0.00000	5.1880	6.4539	250.03	ppb
$Pb	220.353	135.20	15.615	0.00000	184.88	26179	ppb
		195.52	15.732	0.00000	185.06	26204	ppb
$Cd	226.502	11.996	0.00000	10.929	0.94600	35.486	ppb
		11.964	0.00000	10.885	0.95858	35.692	ppb
$Ba	233.527	29.918	0.00000	8.9840	27.148	469.79	ppb
		29.730	0.00000	9.1280	26.694	463.10	ppb
$Fe	259.940	152.72	0.00000	0.66300	166.76	139620	ppb
		152.76	0.00000	0.66400	166.79	139650	ppb
$Ag	328.068	21.905	0.00000	24.065	-1.9759	-14.608	ppb
		21.971	0.00000	23.971	-1.8133	-11.944	ppb
$Al	396.152	109.27	16.573	0.00000	98.845	27886	ppb
		109.23	16.582	0.00000	98.810	27876	ppb

----- 23:38:20 8/ 2/95 ----- Method: ILMO202

Sample 30018- RH4SB 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	272.6/	6.8%	$Se	-42.51/	78%	$Cr	217.7/	2.9%	$Pb	26180/	0.07%
$Cd	11.65/	1.2%	$Ba	466.1/	1.0%	$Fe	139600/	0.02%	$Ag	28.61/	6.6%
$Al	27880/	0.0%									

Measurements for 30019- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4820	0.00000	2.9980	-0.54238	40.384	ppb
		2.1940	0.00000	3.0290	-0.56283	30.793	ppb
$Se	196.026	5.0380	0.00000	5.6030	-0.68478	57.466	ppb
		1.9630	0.00000	5.6130	-0.77630	24.329	ppb
$Cr	205.559	6.1950	0.00000	1.1920	2.4196	63.457	ppb
		6.3140	0.00000	1.1990	2.4711	65.841	ppb
$Pb	220.353	28.032	15.202	0.00000	13.561	1906.5	ppb
		28.008	15.109	0.00000	13.417	1886.0	ppb
$Cd	226.502	10.121	0.00000	10.506	-0.26165	15.737	ppb

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		10.446	0.00000	10.531	-0.25956	15.772	ppb
$Ba	233.527	38.065	0.00000	8.7670	37.597	623.69	ppb
		37.963	0.00000	8.7230	37.524	622.62	ppb
$Fe	259.940	48.653	0.00000	0.57100	52.778	44144	ppb
		48.489	0.00000	0.57000	52.599	43995	ppb
$Ag	328.068	21.836	0.00000	23.465	-1.4362	-5.7683	ppb
		21.760	0.00000	23.483	-1.5318	-7.3332	ppb
$Al	396.152	109.73	6.2690	0.00000	110.32	31128	ppb
		109.25	6.2590	0.00000	109.81	30986	ppb

----- 23:43:20 8/ 2/95 ----- Method: ILMO202

RH5SG

Sample 30019- 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	35.59/	19%	$Se	10.90/	57%	$Cr	55.84/	3.1%	$Pb	1878/	0.77%
$Cd	3.262/	0.51%	$Ba	623.2/	0.12%	$Fe	44070/	0.24%	$Ag	6.670/	17%
$Al	31060/	0.32%									

Measurements for 30020- - 1

Elements of SIMULTANEOUS

$As	188.979	2.4210	0.00000	2.9270	-0.53162	45.432	ppb
		2.4710	0.00000	2.9520	-0.50471	58.051	ppb
$Se	196.026	1.8850	0.00000	5.5160	-0.76124	29.782	ppb
		1.8530	0.00000	5.5320	-0.81685	9.6476	ppb
$Cr	205.559	0.0140	0.00000	1.4020	1.9638	42.377	ppb
		0.1530	0.00000	1.4320	2.0915	48.284	ppb
$Pb	220.353	27.159	15.154	0.00000	12.807	1799.6	ppb
		27.291	15.403	0.00000	12.687	1782.6	ppb
$Cd	226.502	10.167	0.00000	10.478	-0.50276	11.794	ppb
		10.142	0.00000	10.436	-0.48075	12.154	ppb
$Ba	233.527	42.397	0.00000	8.8140	30.394	517.60	ppb
		42.401	0.00000	8.7350	30.786	523.38	ppb
$Fe	259.940	58.055	0.00000	0.55900	41.174	34424	ppb
		58.173	0.00000	0.56100	41.301	34531	ppb
$Ag	328.068	21.696	0.00000	23.251	-1.3610	-4.5364	ppb
		21.627	0.00000	23.201	-1.3803	-4.8527	ppb
$Al	396.152	80.915	6.2350	0.00000	79.665	22467	ppb
		81.227	6.2520	0.00000	79.948	22547	ppb

----- 23:48:21 8/ 2/95 ----- Method: ILMO202

Sample 30020- RH65B 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	51.71/	17%	$Se	19.71/	72%	$Cr	38.43/	11%	$Pb	1778/	0.68%
$Cd	6.113/	3.9%	$Ba	520.5/	0.79%	$Fe	34480/	0.22%	$Ag	5.649/	3.6%
$Al	22510/	0.25%									

Measurements for CCV3- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3860	0.00000	2.8610	0.57823	565.88	ppb
		3.3430	0.00000	2.8570	0.53625	546.19	ppb
$Se	196.026	3.7520	0.00000	3.2910	0.50390	487.84	ppb
		3.8400	0.00000	3.2670	0.63366	534.82	ppb
$Cr	205.559	11.543	0.00000	4.2140	12.143	513.13	ppb
		11.518	0.00000	4.2060	12.088	510.58	ppb
$Pb	220.353	21.717	15.220	0.00000	7.1522	998.44	ppb
		21.739	15.355	0.00000	7.0362	982.00	ppb
$Cd	226.502	38.238	0.00000	10.419	28.959	493.58	ppb
		38.538	0.00000	10.501	29.219	497.83	ppb
$Ba	233.527	31.559	0.00000	8.8290	29.362	502.40	ppb
		31.713	0.00000	8.7670	29.671	506.94	ppb
$Fe	259.940	5.7740	0.00000	0.53200	5.8176	4807.4	ppb
		5.7830	0.00000	0.53100	5.8285	4816.6	ppb
$Ag	328.068	53.217	0.00000	22.830	31.107	527.21	ppb
		53.282	0.00000	23.013	30.987	525.25	ppb
$Al	396.152	8.1810	6.5800	0.00000	2.0452	534.12	ppb
		8.5410	6.6120	0.00000	2.0612	538.64	ppb

----- 23:53:23 8/ 2/95 ----- Method: ILMO202

Sample CCV3- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for
Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	550.0/	2.5%	$Se	511.3/	6.5%	$Cr	510.9/	0.35%	$Pb	989.9/	1.2%
$Cd	491.9/	0.61%	$Ba	504.7/	0.64%	$Fe	4812/	0.13%	$Ag	527.7/	0.26%
$Al	536.1/	0.80%									

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Measurements for CCB3- - 1

Elements of SIMULTANEOUS

$As	188.979	2.1960	0.00000	2.7340	-0.56606	29.278 ppb
		2.1890	0.00000	2.7360	-0.57575	24.735 ppb
$Se	196.026	4.5040	0.00000	5.1990	-0.83539	2.9362 ppb
		4.6050	0.00000	5.2030	-0.72301	43.624 ppb
$Cr	205.559	4.9170	0.00000	4.0760	1.0604	0.59609 ppb
		4.8610	0.00000	4.0730	[illegible]	[illegible] ppb
$Pb	220.353	14.612	14.994	0.0000	[illegible]	[illegible] ppb
		14.629	14.988	0.0000	[illegible]	[illegible] ppb
$Cd	226.502	9.2880	0.00000	10.280	-1.2125	0.18857 ppb
		9.2970	0.00000	10.242	-1.1632	0.99429 ppb
$Ba	233.527	4.2510	0.00000	8.6710	-4.[illegible]	1.[illegible] ppb
		4.2300	0.00000	8.5530	-4.[illegible]	2.[illegible] ppb
$Fe	259.940	0.53500	0.00000	0.52300	0.01153	5.[illegible] ppb
		0.53400	0.00000	0.52400	0.01034	3.[illegible] ppb
$Ag	328.068	21.518	0.00000	22.707	-0.98896	1.5565 ppb
		21.368	0.00000	22.553	-0.98189	1.6231 ppb
$Al	396.152	5.5040	5.3680	0.00000	[illegible]	[illegible] ppb
		5.5210	5.3810	0.00000	[illegible]	[illegible] ppb

----- 23:58:25 8/ 2/95 ----- Method: ILMO202

Sample CCB3- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	27.01/	12%	$Se	23.28/	120%	$Cr	-0.8408/	240%	$Pb	1.017/	[illegible]%
$Cd	0.5907/	96%	$Ba	1.930/	65%	$Fe	4.132/	31%	$Ag	1.591/	2.[illegible]%
$Al	2.109/	40%									

Measurements for 30021- - 1

Elements of SIMULTANEOUS

$As	188.979	2.7590	0.00000	3.1100	-0.36476	123.67 ppb
		2.8140	0.00000	3.1390	-0.33677	136.80 ppb
$Se	196.026	5.2350	0.00000	5.9860	-0.90027	-20.554 ppb
		5.2840	0.00000	5.9330	-0.78210	22.232 ppb

$Cr	205.559	7.1200	0.00000	1.9020	2.6739	75.216	ppb
		7.0930	0.00000	1.8600	2.6914	76.029	ppb
$Pb	220.353	91.893	15.414	0.00000	78.997	11177	ppb
		92.152	15.273	0.00000	79.408	11235	ppb
$Cd	226.502	11.117	0.00000	10.702	0.26250	24.309	ppb
		11.001	0.00000	10.733	0.10840	21.789	ppb
$Ba	233.527	87.061	0.00000	8.9230	98.830	1525.6	ppb
		87.808	0.00000	9.0020	99.668	1537.9	ppb
$Fe	259.940	91.729	0.00000	0.61200	99.952	83661	ppb
		92.313	0.00000	0.61000	100.63	84226	ppb
$Ag	328.068	21.774	0.00000	23.904	-1.9455	-14.109	ppb
		21.732	0.00000	23.843	-1.9058	-13.459	ppb
$Al	396.152	171.61	6.8200	0.00000	178.93	50516	ppb
		175.61	6.8410	0.00000	179.94	50801	ppb

----- 0:03:21 8/ 3/95 ----- Method: ILMO202

Sample 30021- RH6SB 1 =MEAS.= 3 for Seq., =MEAS.= 2 for Simul.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	130.2/ 7.1%	$Se	0.8389/+0***%	$Cr	58.83/ 0.84%	$Pb	11180/ 0.37%
$Cd	8.778/ 21%	$Ba	1532/ 0.57%	$Fe	83940/ 0.48%	$Ag	11.40/ 5.1%
$Al	50660/ 0.79%						

Results Memo: for 30022- 1

Elements of SIMULTANEOUS

$As	188.979	2.7870	0.00000	3.1330	-0.35938	126.20	ppb
		2.8100	0.00000	3.1450	-0.34754	131.75	ppb
$Se	196.026	3.2220	0.00000	3.9610	-0.81685	9.6476	ppb
		3.2080	0.00000	3.9960	-0.91314	-36.074	ppb
$Cr	205.559	7.1200	0.00000	1.8860	2.7430	78.413	ppb
		7.0930	0.00000	1.9740	2.7078	76.788	ppb
$Pb	220.353	91.893	15.414	0.00000	85.701	12127	ppb
		92.152	15.273	0.00000	85.347	12077	ppb
$Cd	226.502	11.117	0.00000	10.635	0.41451	26.794	ppb
		11.001	0.00000	10.635	0.32016	25.252	ppb
$Ba	233.527	87.061	0.00000	8.9680	108.31	1665.6	ppb
		87.808	0.00000	8.9820	107.95	1659.8	ppb

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$Fe	259.940	95.409	0.00000	0.61500	103.98	87037	ppb
		95.206	0.00000	0.61400	103.76	86851	ppb
$Ag	328.068	21.699	0.00000	23.891	-2.0085	-15.141	ppb
		21.727	0.00000	23.829	-1.9170	-13.643	ppb
$Al	396.152	182.14	6.8510	0.00000	186.90	52767	ppb
		181.79	6.8580	0.00000	186.51	52659	ppb

----- 0:08:24 8/ 3/95 ----- Method: ILMO202

RH6ASB

Sample 30022- 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	129.0/	3.0%	$Se	-13.21/	250%	$Cr	60.21/	1.9%	$Pb	12070/	0.29%
$Cd	11.24/	9.5%	$Ba	1663/	0.25%	$Fe	86940/	0.15%	$Ag	11.69/	8.7%
$Al	52710/	0.15%									

Measurements for 30023- - 1

Elements of SIMULTANEOUS

$As	188.979	2.3660	0.00000	2.9190	-0.58221	21.706	ppb
		2.3940	0.00000	2.8920	-0.52301	49.470	ppb
$Se	196.026	4.9340	0.00000	5.4660	-0.64655	71.309	ppb
		4.8580	0.00000	5.5690	-0.85393	-3.7752	ppb
$Cr	205.559	5.9840	0.00000	4.3760	1.9591	42.160	ppb
		6.0010	0.00000	4.4550	1.8865	38.800	ppb
$Pb	220.353	20.774	15.392	0.00000	6.0075	836.26	ppb
		20.648	15.132	0.00000	6.1451	855.75	ppb
$Cd	226.502	9.9550	0.00000	10.376	-0.61388	9.9772	ppb
		9.7150	0.00000	10.534	-1.0311	3.1543	ppb
$Ba	233.527	33.385	0.00000	8.7270	31.779	538.00	ppb
		33.565	0.00000	8.7650	31.958	540.63	ppb
$Fe	259.940	31.247	0.00000	0.55600	33.714	28175	ppb
		31.374	0.00000	0.55400	33.856	28294	ppb
$Ag	328.068	21.643	0.00000	23.219	-1.3823	-4.8860	ppb
		21.609	0.00000	23.278	-1.4769	-6.4342	ppb
$Al	396.152	92.824	5.9520	0.00000	92.632	26131	ppb
		93.039	5.9460	0.00000	92.867	26197	ppb

----- 0:13:24 8/ 3/95 ----- Method: ILMO202

RH6SG

Sample 30023- 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	35.59/	55%	$Se	33.77/	160%	$Cr	34.83/	6.9%	$Pb	830.3/	1.7%
$Cd	1.766/	270%	$Ba	539.3/	0.34%	$Fe	28240/	0.30%	$Ag	2.810/	38%
$Al	26160/	0.18%									

Measurements for 30024- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5410	0.00000	3.0350	-0.51870	51.489	ppb
		2.5470	0.00000	2.9810	-0.45411	81.777	ppb
$Se	196.026	5.0880	0.00000	5.7040	-0.74388	38.074	ppb
		5.0420	0.00000	5.7140	-0.80874	12.584	ppb
$Cr	205.559	6.6000	0.00000	4.5370	2.4922	66.817	ppb
		6.7060	0.00000	4.6140	2.5262	68.388	ppb
$Pb	220.353	75.145	15.316	0.00000	61.904	8755.5	ppb
		75.211	15.156	0.00000	62.136	8788.4	ppb
$Cd	226.502	10.826	0.00000	10.507	0.16186	22.663	ppb
		10.809	0.00000	10.604	0.04236	20.709	ppb
$Ba	233.527	51.625	0.00000	8.7500	54.619	874.40	ppb
		51.821	0.00000	8.8690	54.716	875.82	ppb
$Fe	259.940	65.755	0.00000	0.58700	71.508	59833	ppb
		66.084	0.00000	0.58700	71.868	60135	ppb
$Ag	328.068	21.739	0.00000	23.515	-1.5856	-8.2155	ppb
		21.692	0.00000	23.540	-1.6588	-9.4141	ppb
$Al	396.152	129.73	6.3330	0.00000	131.58	37135	ppb
		130.33	6.3390	0.00000	132.21	37314	ppb

----- 0:18:24 8/ 3/95 ----- Method: ILMO202

Sample 30024- RH 7SB 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	66.63/	32%	$Se	24.33/	68%	$Cr	55.61/	1.9%	$Pb	8750/	0.26%
$Cd	11.49/	12%	$Ba	875.1/	0.11%	$Fe	59980/	0.36%	$Ag	9.180/	8.5%
$Al	37220/	0.34%									

Measurements for 30025- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5880	0.00000	3.0430	-0.47672	71.176	ppb
		2.5240	0.00000	2.9990	-0.49825	61.080	ppb
$Se	196.026	1.9490	0.00000	5.5970	-0.78094	22.651	ppb
		1.9660	0.00000	5.7040	-0.88521	-15.101	ppb
$Cr	205.559	6.5980	0.00000	4.5370	2.4899	66.708	ppb
		6.6210	0.00000	1.6180	2.4219	63.565	ppb
$Pb	220.353	73.239	15.271	0.00000	59.993	8484.9	ppb
		73.486	15.389	0.00000	60.126	8503.6	ppb
$Cd	226.502	10.713	0.00000	10.484	0.06752	21.120	ppb
		10.739	0.00000	10.579	-0.00482	19.937	ppb
$Ba	233.527	49.813	0.00000	8.8520	52.222	839.09	ppb
		49.970	0.00000	8.7780	52.509	843.32	ppb
$Fe	259.940	63.816	0.00000	0.58500	69.384	58055	ppb
		63.771	0.00000	0.58400	69.336	58014	ppb
$Ag	328.068	21.728	0.00000	23.527	-1.6090	-8.5984	ppb
		21.631	0.00000	23.404	-1.5826	-8.1655	ppb
$Al	396.152	126.65	6.2780	0.00000	128.35	36223	ppb
		126.73	6.2750	0.00000	128.43	36247	ppb

----- 0:23:24 8/ 4/93 ----- Method: ILM0202

Sample 40025- RH7ASB 1 #MEAS.= 3 for Seq., #MEAS.= 2 fo
r Simul.

EL	CONC/ sigma EL		EL	CONC/ sigma EL		EL	CONC/ sigma EL		EL	CONC/ sigma
$As	60.13/	11%	$Se	3.775/	710%	$Cr	53.53/	4.1%	$Pb	8472/ 0.16%
$Cd	10.50/	7.8%	$Ba	811.2/	0.36%	$Fe	58040/	0.05%	$Ag	9.028/ 3.3%
$Al	36210/	0.05%								

Measurements for 40025.D- - 1

Elements of SIMULTANEOUS

$As	188.979	2.5730	0.00000	2.9990	-0.44550	85.815	ppb
		2.5360	0.00000	3.0640	-0.53377	14.422	ppb
$Se	196.026	4.9120	0.00000	5.6630	-0.86551	-7.9698	ppb
		5.0170	0.00000	5.6300	-0.74039	37.332	ppb
$Cr	205.559	6.6670	0.00000	1.6950	2.3856	61.885	ppb
		6.6130	0.00000	4.6320	2.3962	62.373	ppb
$Pb	220.353	72.532	15.115	0.00000	59.397	8400.3	ppb

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		72.541	15.261	0.00000	59.284	8384.3	ppb
$Cd	226.502	10.917	0.00000	10.476	0.28976	24.754	ppb
		10.759	0.00000	10.661	-0.06981	18.874	ppb
$Ba	233.527	18.270	0.00000	8.7560	50.405	812.34	ppb
		18.100	0.00000	8.7800	50.538	814.29	ppb
$Fe	259.940	61.553	0.00000	0.58300	66.906	55979	ppb
		61.917	0.00000	0.58400	67.304	56312	ppb
$Ag	328.068	21.896	0.00000	23.459	-1.3691	-4.6696	ppb
		21.895	0.00000	23.478	-1.3894	-5.0025	ppb
$Al	396.152	119.97	6.3030	0.00000	121.20	34203	ppb
		120.49	6.2940	0.00000	121.76	34361	ppb

----- 0:28:23 8/ 3/95 ----- Method: ILMO202

RH 7ASB (DUP)

Sample 30025.D- (RPD) - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Stmt.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	65.12/	15%	$Se	11.68/	220%	$Cr	(5.04) 50.90/	0.58%	$Pb	(1.19) 8372/	0.14%
$Cd	(14.6) 12.27/	11%	$Ba	(3.38) 813.3/	0.17%	$Fe	56150/	0.42%	$Ag	(ICRDL 12.01/	1.4%
$Al	34280/	0.33%									

Measurements for 30025 S- - 1

Elements of SIMULANEOUS

$As	188.979	6.8816	0.00000	3.1010	4.0822	2209.0	ppb
		6.9160	0.00000	3.1010	4.1198	2226.7	ppb
$Se	196.026	10.030	0.00000	5.9600	4.6851	2001.7	ppb
		10.139	0.00000	5.8970	4.8844	2073.8	ppb
$Cr	205.559	11.272	0.00000	4.7800	7.6818	306.83	ppb
		11.363	0.00000	4.7890	7.7779	311.27	ppb
$Pb	220.353	77.919	15.609	0.00000	64.482	9120.8	ppb
		77.883	15.512	0.00000	64.483	9120.9	ppb
$Cd	226.502	14.160	0.00000	10.716	3.4378	76.235	ppb
		14.181	0.00000	10.729	3.4462	76.372	ppb
$Ba	233.527	168.15	0.00000	9.1520	200.21	3018.8	ppb
		169.03	0.00000	9.1880	201.26	3034.3	ppb
$Fe	259.940	69.111	0.00000	0.59500	75.510	63186	ppb
		69.821	0.00000	0.59500	75.956	63560	ppb
$Ag	328.068	25.585	0.00000	23.915	1.6813	45.289	ppb
		25.119	0.00000	23.933	1.7301	46.088	ppb

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$Al  396.152  151.93  6.4610 0.00000  155.10   43783 ppb
              152.66  6.4520 0.00000  155.89   44005 ppb

-----  0:34:24  8/ 1/95 -----   Method: ILMO202
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Sample 30025 S- (REC) RH7ASB (SPIKE) 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	2218/	0.56%	$Se	2038/	2.5%	$Cr (121)	296.4/	1.0%	$Pb (4X)	9094/	0.00%
$Cd (110)	65.53/	0.08%	$Ba (109)	3027/	0.36%	$Fe	63370/	0.42%	$Ag (111)	64.70/	1.0%
$Al	43890/	0.36%									

Measurements for 30025 L- - 1

Elements of SIMULTANEOUS

```
$As  188.979  2.3590 0.00000  2.8580-0.52408  48.965 ppb
              2.2610 0.00000  2.7900-0.55638  33.821 ppb

$Se  196.026  1.7160 0.00000  5.3330-0.71027  48.238 ppb
              4.6850 0.00000  5.2730-0.71142  47.819 ppb

$Cr  205.559  5.3350 0.00000  4.1300  1.4869  20.321 ppb
              5.2700 0.00000  4.1920  1.3381  13.439 ppb

$Pb  220.353  26.597  15.367 0.00000  12.011  1686.8 ppb
              26.572  11.977 0.00000  12.386  1739.9 ppb

$Cd  226.502  9.7130 0.00000  10.379-0.83927  6.2915 ppb
              9.6230 0.00000  10.431 -1.0196  3.3429 ppb

$Ba  233.527  13.511 0.00000  8.6780  6.9238  171.91 ppb
              13.471 0.00000  8.7270  6.8160  170.32 ppb

$Fe  259.940  13.188 0.00000 0.53900  13.937   11609 ppb
              13.255 0.00000 0.53600  14.014   11673 ppb

$Ag  328.068  21.709 0.00000  22.893-0.98388  1.6398 ppb
              21.697 0.00000  22.830-0.93201  2.4888 ppb

$Al  396.152  24.622  5.6420 0.00000  25.592  7187.5 ppb
              29.663  5.6140 0.00000  25.623  7196.3 ppb

-----  0:38:25  8/ 1/95 -----   Method: ILMO202
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Sample 30025 L- RH7ASB (Serial Dilution) 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	11.39/	26%	$Se	48.03/	0.62%	$Cr	14.55/	33%	$Pb	1709/	2.2%

CONC 1 std

$Cd 2.638/ 7% $Ba 171.1/ 0.66% $Fe 11640/ 0.39% $Ag 5.556/ 11%

$Al 7192/ 0.09%

Measurements for CCV4- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3160	0.00000	2.8650	0.53087	543.66 ppb
		3.3680	0.00000	2.8860	0.53194	544.17 ppb
$Se	196.026	7.8900	0.00000	5.2260	0.73909	572.99 ppb
		7.7530	0.00000	5.1820	0.63134	533.98 ppb
$Cr	205.559	14.601	0.00000	4.2380	12.218	516.60 ppb
		14.681	0.00000	4.2110	12.343	522.39 ppb
$Pb	220.353	21.721	15.283	0.00000	7.0916	989.85 ppb
		21.851	15.132	0.00000	7.3801	1030.7 ppb
$Cd	226.502	38.620	0.00000	10.319	29.496	502.36 ppb
		38.569	0.00000	10.385	29.373	500.35 ppb
$Ba	233.527	31.630	0.00000	8.6310	29.775	508.48 ppb
		31.636	0.00000	8.7420	29.593	505.80 ppb
$Fe	259.940	5.8380	0.00000	0.52900	5.8910	4868.9 ppb
		5.8410	0.00000	0.53100	5.8954	4872.6 ppb
$Ag	328.068	53.168	0.00000	22.787	31.406	532.11 ppb
		53.240	0.00000	22.695	31.573	534.84 ppb
$Al	396.152	8.4750	6.6100	0.00000	2.0037	522.37 ppb
		8.5090	6.6070	0.00000	2.0131	533.51 ppb

----- 0:13:24 4/ 3/95 ----- Method: ILM0202

Sample CCV4- - 1 =MEAS.= 3 for Seq., =MEAS.= 2 for Simult.

EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma	EL	CONC/ sigma
$As	513.9/ 0.07%	$Se	553.5/ 5.0%	$Cr	518.5/ 0.79%	$Pb	1010/ 2.9%
$Cd	500.5/ 0.28%	$Ba	507.1/ 0.37%	$Fe	4871/ 0.05%	$Ag	534.9/ 0.36%
$Al	527.9/ 1.5%						

Measurements for CCB4- - 1

Elements of SIMULTANEOUS

$As	188.979	2.1760	0.00000	2.7760	-0.63281	-2.0192 ppb
		2.2100	0.00000	2.7440	-0.56176	31.297 ppb

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$Se   196.026   4.5710 0.00000   5.0870-0.62453   79.279 ppb
                4.5260 0.00000   5.1050-0.70100   51.594 ppb

$Cr   205.559   4.9000 0.00000   4.0430   1.0791   1.4631 ppb
                4.8320 0.00000   4.0500 0.99126  -2.6011 ppb

$Pb   220.353   11.425   15.119 0.00000-0.23019 -47.489 ppb
                11.572   14.895 0.00000 0.15068   6.4725 ppb

$Cd   226.502   9.4280 0.00000   10.294 -1.0804   2.3486 ppb
                9.3350 0.00000   10.279 -1.1621   1.0114 ppb

$Ba   233.527   4.1990 0.00000   8.5590 -4.6019   2.1513 ppb
                4.1950 0.00000   8.5750 -4.6270   1.7820 ppb

$Fe   259.940 0.53300 0.00000 0.52600 0.07905 0.45912 ppb
              0.53100 0.00000 0.52500 0.08124   2.2956 ppb

$Ag   328.068   21.180 0.00000   22.549-0.86698   3.5542 ppb
                21.368 0.00000   22.618 -1.0510 0.54104 ppb

$Al   396.152   5.5580   5.4120 0.00060 0.14967 -1.5062 ppb
                5.5090   5.3970 0.00000 0.13474 -5.7237 ppb

-----  0:43:21  3/ 2/95 -----   Method: ILMO202

Sample CCBI-           -                  1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As   11.64/  160% $Se   65.41/    30% $Cr -0.5693/  510% $Pb  -20.51/  190%

$Cd   1.620/   56% $Ba   1.967/    13% $Fe   1.377/   94% $Ag   2.048/  100%

$Al  -3.615/   22%

Measurement  for CCBI-                 -                  1

---------------------------------------------
  Elements of SIMULTANEOUS

$As   188.979   1.3640 0.00000   4.8830-0.54561   38.869 ppb
                4.3190 0.00000   4.9170-0.59836   14.134 ppb

$Se   196.026   8.3210 0.00000   9.2460 -1.1019 -93.540 ppb
                8.2530 0.00000   9.2590 -1.1957 -127.52 ppb

$Cr   205.559   9.7850 0.00000   8.6710   1.3803   15.390 ppb
                9.7290 0.00000   8.6980   1.2830   10.892 ppb

$Pb   220.353   20.118   17.662 0.00000   3.0344   415.04 ppb
                20.108   17.516 0.00000   3.1433   430.46 ppb

$Cd   226.502   12.885 0.00000   11.822 0.94181   35.417 ppb
                12.995 0.00000   11.798   1.0823   37.714 ppb
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$Ba   233.527   5.0650 0.00000   9.0710 -4.1581   8.6883 ppb
                5.0110 0.00000   9.0860 -4.2032   8.0236 ppb

$Fe   259.940   187.22 0.00000 0.69700   204.53   171260 ppb
                188.21 0.00000 0.69500   205.66   172200 ppb

$Ag   328.068   20.160 0.00000   21.201 -3.5830 -40.928 ppb
                20.178 0.00000   24.199 -3.5627 -40.595 ppb

$Al   396.152   1613.0   18.363 0.00000   1700.1   480350 ppb
                1621.2   18.419 0.00000   1708.8   482800 ppb

-----  0:53:24  8/ 3/95 -----    Method: ILMO202

Sample ICSAE-              -                          1 #MEAS.=  3 for Seq., #MEAS.= 2 fo
r Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As    26.50/    6% $Se   -110.5/   22% $Cr   -21.21/   16% $Pb   133.8/  7.4%

$Cd    7.371/   20% $Ba    8.356/  5.6% $Fe   171700/ 0.39% $Ag   10.76/  4.0%

$Al   181600/ 0.36%

Measurement for ICSABE-              -                    1

-------------------------------------------------
  Elements of SIMULTANEOUS

$As   188.979   1.3170 0.00000   4.9170-0.63281 -2.0192 ppb
                1.3320 0.00000   4.8980-0.59621  15.144 ppb

$Se   196.026   8.3190 0.00000   9.1730 -1.0196 -63.758 ppb
                8.3140 0.00000   9.1200-0.96399 -43.624 ppb

$Cr   205.559   18.426 0.00000   8.7250  11.442  480.72 ppb
                18.501 0.00000   8.7360  11.517  484.19 ppb

$Pb   220.453   26.562   17.570 0.00000   9.7136  1361.3 ppb
                26.180   17.919 0.00000   9.2711  1298.6 ppb

$Cd   226.502   64.118 0.00000   11.904  54.878  917.44 ppb
                64.136 0.00000   11.938  54.599  912.88 ppb

$Ba   233.527   29.873 0.00000   9.2350  26.739  463.77 ppb
                29.930 0.00000   9.2120  26.827  465.06 ppb

$Fe   259.940   183.49 0.00000 0.69500  200.88  168210 ppb
                184.00 0.00000 0.69500  201.00  168310 ppb

$Ag   328.068   78.828 0.00000   21.425  55.519  927.02 ppb
                78.863 0.00000   21.510  55.407  925.19 ppb

$Al   396.152   1577.4   18.313 0.00000   1662.2   469630 ppb
                1577.3   18.285 0.00000   1662.3   469680 ppb

-----  0:58:26  8/ 3/95 -----    Method: ILMO202
```

Sample ICSABF- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	6.562/	190%	$Se	-53.69/	27%	$Cr	448.8/	0.54%	$Pb	1048/	4.2%
$Cd	886.6/	0.37%	$Ba	461.4/	0.20%	$Fe	168300/	0.04%	$Ag	976.6/	0.13%
$Al	169706/	0.61%									

Measurements for CRIB- 1

Elements of SIMULTANEOUS

$As	188.979	2.6790	0.00000	2.7960	-0.11287	241.80	ppb
		2.6460	0.00000	2.7520	-0.10103	247.35	ppb
$Se	196.026	3.0990	0.00000	3.1930	-0.13910	255.03	ppb
		3.0590	0.00000	3.2140	-0.20977	229.45	ppb
$Cr	205.559	3.3100	0.00000	4.1330	1.4541	18.804	ppb
		3.4390	0.00000	4.0970	1.5302	22.326	ppb
$Pb	220.353	17.571	15.113	0.00000	3.0057	410.97	ppb
		17.677	15.121	0.00000	3.1063	425.22	ppb
$Cd	226.502	10.011	0.00000	10.444	-0.62646	9.7715	ppb
		9.9310	0.00000	10.394	-0.65477	9.3086	ppb
$Ba	233.527	26.708	0.00000	8.7370	23.396	414.52	ppb
		26.801	0.00000	8.7270	23.525	416.42	ppb
$Fe	259.940	0.75900	0.00000	0.32700	0.32569	207.06	ppb
		0.76000	0.00000	0.32600	0.32788	208.90	ppb
$Ag	328.068	22.730	0.00000	22.925	0.02141	18.104	ppb
		22.853	0.00000	22.743	0.33144	23.181	ppb
$Al	396.152	7.2120	3.6870	0.00000	1.6412	419.94	ppb
		7.2100	3.6850	0.00000	1.6412	419.94	ppb

----- 1:03:25 8/ 3/95 ----- Method: ILMO202

Sample CRIB- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	211.6/	1.6%	$Se	242.2/	7.5%	$Cr	20.52/	12%	$Pb	417.8/	2.4%
$Cd	9.503/	3.4%	$Ba	115.5/	0.32%	$Fe	208.0/	0.62%	$Ag	20.71/	17%
$Al	419.9/	0.00%									

Measurements for CCV5- - 1

Elements of SIMULTANEOUS

$As	188.979	3.3570	0.00000	2.9200	0.48350	521.45	ppb
		3.3890	0.00000	2.8950	0.54486	550.23	ppb
$Se	196.026	5.9020	0.00000	5.3380	0.62323	531.04	ppb
		5.8470	0.00000	5.3190	0.58153	515.94	ppb
$Cr	205.559	14.818	0.00000	4.2900	12.411	525.54	ppb
		14.844	0.00000	4.4290	12.279	519.41	ppb
$Pb	220.353	22.095	15.643	0.00000	7.1060	991.89	ppb
		22.220	15.458	0.00000	7.4243	1037.0	ppb
$Cd	226.502	38.963	0.00000	10.523	29.641	504.74	ppb
		38.710	0.00000	10.556	29.373	500.35	ppb
$Ba	233.527	31.759	0.00000	8.7990	29.701	507.39	ppb
		31.951	0.00000	8.8450	29.837	509.40	ppb
$Fe	259.940	5.8120	0.00000	0.53100	5.8932	4870.8	ppb
		5.8660	0.00000	0.53300	5.9118	4886.4	ppb
$Ag	328.068	31.650	0.00000	23.012	31.362	531.39	ppb
		31.614	0.00000	23.023	31.315	530.61	ppb
$Al	396.152	8.5920	6.6830	0.00000	2.0719	541.65	ppb
		8.5820	6.6620	0.00000	2.0623	538.94	ppb

----- 11:08:25 07/ 3/95 ----- Method: ILM0202

Sample Data- - 1 #MEAS.= 3 for Seq., #MEAS.= 2 for Simul.

EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma	EL	CONC/	sigma
$As	537.5/	3.8%	$Se	523.5/	2.0%	$Cr	521.5/	0.83%	$Pb	1014/	3.1%
$Cd	501.7/	0.62%	$Ba	508.1/	0.28%	$Fe	4879/	0.23%	$Ag	532.5/	0.10%
$Al	540.1/	0.35%									

Measurements for CCB5- - 1

Elements of SIMULTANEOUS

$As	188.979	2.2030	0.00000	2.7390-0.56391		30.288	ppb
		2.2070	0.00000	2.8290-0.65649		-13.125	ppb
$Se	196.026	1.6500	0.00000	3.2040-0.69520		53.691	ppb
		1.6270	0.00000	3.1620-0.65002		70.050	ppb
$Cr	205.559	1.0116	0.00000	1.0040	1.1729	5.7984	ppb

```
                  1.9429 0.00000   4.0030   1.1565   5.0397 ppb

$PL   220.353   11.850   15.201 0.00000 0.12191   2.3999 ppb
                14.617   15.271 0.00000-0.15833 -37.308 ppb

$Cd   226.502   9.1190 0.00000   10.434 -1.2366-0.20572 ppb
                9.1610 0.00000   10.340 -1.0940   2.1257 ppb

$Ba   233.527   4.2180 0.00000   8.5740 -4.5969   2.2252 ppb
                4.2500 0.00000   8.5800 -4.5643   2.7053 ppb

$Fe   259.940 0.53400 0.00000 0.52700 0.07905 0.45912 ppb
              0.53200 0.00000 0.52700 0.07686 -1.3773 ppb

$Ag   328.068   21.667 0.00000   22.699-0.82937   4.1702 ppb
                21.725 0.00000   22.665-0.73586   5.7017 ppb

$Al   396.152   5.5890   5.4620 0.00000 0.15071 -1.2050 ppb
                5.5880   5.4420 0.00000 0.17099   4.5187 ppb

-----   1:13:26   8/ 3/95 -----    Method: ILM0202

Sample CCB5-                -                    1 #MEAS.=  3 for Seq., #MEAS.= 2 for
 Simul.

EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma EL      CONC/ sigma

$As   3.581/  360% $Se   61.87/   19% $Cr   5.419/  9.9% $Pb  -17.45/  160%

$Cd  0.9601/  170% $Ba   2.465/   14% $Fe -0.4591/  280% $Ag   4.936/   22%

$Al   1.657/  210%

Please Wait: Stop Plasma
```

Run #2

RAW DATA
8/04/95
JGM/RLH

⊙ 9501.648 As (30006-30025)

⊙ PBS 1066, LCSS 8/01

ANALYZE

08/04/95
14:44:45

Method Name: 9508041444 Read delay: 45 Rinse time: 0
Format Name: clpf Replicates: 2 Data Disp: SPEC4
Comments: Standard Condition Default Values

Result Name:	9508041444	Store Result:	Yes	No	Append
Spectr Name:	9508041444	Store Spectrum:	Yes	No	Append
Source Name:	XL1300	Global Source:	Yes	No	
IEC Name:	stdcond	InterElem Corr:	Off	On	
		Resolution:	Low	Normal	High
		Scanning:	Off	On	
		Processing Mode:	Peak	Area	Multcomp.Spec.Fit
		Integration Mode:	Auto	Manual	
		Auto Int Samp Time:	Min: 0.2	Max: 50	

Command?

F5	F6	F7	F8	F9	F10	F11	F12
Manual			Calib Spectrom	Repro-cessing	MSF Data	IEC Data	Optimize

STDS PREPARED 8/4/95 @0900 BLM 8/4/95

08/04/95 14:48
blank
rep 1 ASILM sf -12.9
rep 2 ASILM sf -16.2

08/04/95 14:49
blank
ASILM av -14.56 sf sd 2.298 %cv 15.78

08/04/95 14:51
#1 standard
rep 1 ASILM sf 619.9
rep 2 ASILM sf 625.2

08/04/95 14:52
#1 standard
ASILM av 622.54 sf sd 3.712 %cv 0.60 conc 1000.0

08/04/95 14:55
ICV
rep 1 ASILM conc 986.21 ppb
rep 2 ASILM conc 1006.94 ppb

08/04/95 14:55
ICV
ASILM av 996.57 ppb sd 14.657 %cv 1.47

08/04/95 14:58
ICB
rep 1 ASILM conc -1.66 ppb
rep 2 ASILM conc 0.98 ppb

08/04/95 14:59
ICB
ASILM av -0.34 ppb sd 1.872 %cv 552.5

08/04/95 15:01
CCV1
rep 1 ASILM conc 487.52 ppb
rep 2 ASILM conc 487.56 ppb

08/04/95 15:02
CCV1
ASILM av 487.54 ppb sd 0.029 %cv 0.01

08/04/95 15:07
CCB1
rep 1 ASILM conc 1.38 ppb
rep 2 ASILM conc 0.67 ppb

08/04/95 15:08
CCB1
ASILM av 1.12 ppb sd 0.361 %cv 32.22

08/04/95 15:10
ICSAI

rep	1	ASILM	conc	9.86	ppb	
rep	2	ASILM	conc	5.18	ppb	

08/04/95 15:11
ICSAI

ASILM	av	7.52	ppb	sd	3.308	%cv 43.98

08/04/95 15:13
ICSABI

rep	1	ASILM	conc	12.67	ppb	
rep	2	ASILM	conc	13.86	ppb	

08/04/95 15:14
ICSABI

ASILM	av	13.26	ppb	sd	0.843	%cv 6.35

08/04/95 15:15
CRII

rep	1	ASILM	conc	22.51	ppb	
rep	2	ASILM	conc	24.65	ppb	

08/04/95 15:16
CRII

ASILM	av	23.58	ppb	sd	1.506	%cv 6.39

08/04/95 15:18
PBS 1066

rep	1	ASILM	conc	2.82	ppb	
rep	2	ASILM	conc	1.57	ppb	

08/04/95 15:19 PBS1
PBS 1066

ASILM	av	2.20	ppb	sd	0.883	%cv 40.19

08/04/95 15:25
LCSS 8/01

rep	1	ASILM	conc	342.49	ppb	
rep	2	ASILM	conc	344.30	ppb	

08/04/95 15:26 LCSS1
LCSS 8/01

ASILM	av	343.40	ppb	sd	1.276	%cv 0.37

08/04/95 15:28
30006

rep	1	ASILM	conc	25.79	ppb	
rep	2	ASILM	conc	24.66	ppb	

08/04/95 15:29 RHISB
30006

ASILM	av	25.23	ppb	sd	0.802	%cv 3.18

08/04/95 15:31
30007

	rep	1	ASILM	conc	28.26 ppb	
	rep	2	ASILM	conc	26.76 ppb	

08/04/95 15:32 RH1SG
30007

ASILM	av	27.51 ppb		sd	1.065 %cv	3.87

08/04/95 15:34
30008

	rep	1	ASILM	conc	29.68 ppb	
	rep	2	ASILM	conc	28.74 ppb	

08/04/95 15:35 RH2SG
30008

ASILM	av	29.21 ppb		sd	0.668 %cv	2.29

08/04/95 15:38
30009

	rep	1	ASILM	conc	35.38 ppb	
	rep	2	ASILM	conc	33.60 ppb	

08/04/95 15:39 RH2SB
30009

ASILM	av	34.49 ppb		sd	1.261 %cv	3.66

08/04/95 15:40
30010

	rep	1	ASILM	conc	32.21 ppb	
	rep	2	ASILM	conc	30.53 ppb	

08/04/95 15:41 BES1SP
30010

ASILM	av	31.37 ppb		sd	1.185 %cv	3.78

08/04/95 15:43
CCV2

	rep	1	ASILM	conc	532.66 ppb	
	rep	2	ASILM	conc	527.95 ppb	

[08/04/95 15:44
CCV2

ASILM	av	530.30 ppb		sd	3.327 %cv	0.63]

08/04/95 15:46
CCB2

	rep	1	ASILM	conc	7.17 ppb	
	rep	2	ASILM	conc	0.84 ppb	

[08/04/95 15:47
CCB2

ASILM	av	4.01 ppb		sd	4.471 %cv	111.6]

08/04/95 15:49
30011

rep	1	ASILM	conc	23.61	ppb
rep	2	ASILM	conc	21.95	ppb

08/04/95 15:50 BESISB
30011

ASILM	av	22.78	ppb	sd	1.175 %cv	5.16

08/04/95 15:52
30012

rep	1	ASILM	conc	22.74	ppb
rep	2	ASILM	conc	17.68	ppb

08/04/95 15:52 BESISG
30012

ASILM	av	20.21	ppb	sd	3.572 %cv	17.68

08/04/95 15:56
30013

rep	1	ASILM	conc	48.82	ppb
rep	2	ASILM	conc	45.24	ppb

08/04/95 15:56 BPSP
30013

ASILM	av	47.03	ppb	sd	2.532 %cv	5.38

08/04/95 15:59
30014

rep	1	ASILM	conc	35.53	ppb
rep	2	ASILM	conc	34.75	ppb

08/04/95 16:00 BPSG
30014

ASILM	av	35.14	ppb	sd	0.550 %cv	1.57

08/04/95 16:03
30015

rep	1	ASILM	conc	97.60	ppb
rep	2	ASILM	conc	98.43	ppb

08/04/95 16:04 BPSB
30015

ASILM	av	98.01	ppb	sd	0.587 %cv	0.60

08/04/95 16:07
30016

rep	1	ASILM	conc	40.81	ppb
rep	2	ASILM	conc	36.52	ppb

08/04/95 16:08 RH3SB
30016

ASILM	av	38.67	ppb	sd	3.036 %cv	7.85

08/04/95 16:11
30017

	rep	1	ASILM	conc	27.61	ppb
	rep	2	ASILM	conc	26.66	ppb

08/04/95 16:11 RH35G
30017

ASILM	av	27.13	ppb	sd	0.670	%cv	2.47

08/04/95 16:17
30018

rep	1	ASILM	conc	257.76	ppb	
rep	2	ASILM	conc	268.83	ppb	

08/04/95 16:18 RH45B
30018

ASILM	av	263.30	ppb	sd	7.822	%cv	2.97

08/04/95 16:25
30019

rep	1	ASILM	conc	40.30	ppb	
rep	2	ASILM	conc	41.81	ppb	

08/04/95 16:26 RH55G
30019

ASILM	av	41.06	ppb	sd	1.071	%cv	2.61

08/04/95 16:29
30020

rep	1	ASILM	conc	38.19	ppb	
rep	2	ASILM	conc	32.47	ppb	

08/04/95 16:30 RH55B
30020

ASILM	av	35.33	ppb	sd	4.049	%cv	11.46

08/04/95 16:32
CCV3

rep	1	ASILM	conc	521.01	ppb	
rep	2	ASILM	conc	508.86	ppb	

08/04/95 16:33
CCV3

ASILM	av	514.94	ppb	sd	8.594	%cv	1.67

08/04/95 16:35
CCV3

rep	1	ASILM	conc	-0.90	ppb	
rep	2	ASILM	conc	2.76	ppb	

08/04/95 16:36
~~CCV3~~ CCB3

ASILM	av	0.93	ppb	sd	2.586	%cv	277.8

8/5/95

08/04/95 16:39
30021

	rep	1	ASILM	conc	104.17 ppb	
	rep	2	ASILM	conc	119.28 ppb	

08/04/95 16:40 RH6SB
30021

ASILM	av	111.72 ppb		sd	10.680 %cv	9.56

08/04/95 16:51
30022

	rep	1	ASILM	conc	125.07 ppb	
	rep	2	ASILM	conc	117.00 ppb	

08/04/95 16:52 RH6ASB
30022

ASILM	av	121.04 ppb		sd	5.703 %cv	4.71

08/04/95 16:57
30023

	rep	1	ASILM	conc	21.69 ppb	
	rep	2	ASILM	conc	19.68 ppb	

08/04/95 16:58 RH6SG
30023

ASILM	av	20.68 ppb		sd	1.426 %cv	6.89

08/04/95 17:01
30024

	rep	1	ASILM	conc	52.65 ppb	
	rep	2	ASILM	conc	53.48 ppb	

08/04/95 17:02 RH7SB
30024

ASILM	av	53.07 ppb		sd	0.588 %cv	1.11

08/04/95 17:04
30025

	rep	1	ASILM	conc	51.03 ppb	
	rep	2	ASILM	conc	60.54 ppb	

08/04/95 17:04 RH7ASB
30025

ASILM	av	55.79 ppb		sd	6.727 %cv	12.06

08/04/95 17:07
30025D

	rep	1	ASILM	conc	54.89 ppb	
	rep	2	ASILM	conc	52.88 ppb	

08/04/95 17:08 RH7ASB (DUP) RPD
30025D

ASILM	av	53.88 ppb	3.3%	sd	1.421 %cv	2.64

08/04/95 17:11
300255

	rep	1	ASILM	conc	2136.28	ppb	
	rep	2	ASILM	conc	2150.90	ppb	

08/04/95 17:12 RH7ASB(SPIKE) REC
300255

ASILM	av	2143.59	ppb	106%	sd	10.332	%cv	0.48

08/04/95 17:16
30025L

rep	1	ASILM	conc	7.84	ppb		
rep	2	ASILM	conc	14.96	ppb		

08/04/95 17:17 RH7ASB(Serial Dilution)
30025L

ASILM	av	11.40	ppb	sd	5.031	%cv	44.12

08/04/95 17:19
CCV4

rep	1	ASILM	conc	487.13	ppb		
rep	2	ASILM	conc	489.35	ppb		

08/04/95 17:20
CCV4

ASILM	av	488.24	ppb	sd	1.570	%cv	0.32

08/04/95 17:25
CCB4

rep	1	ASILM	conc	0.64	ppb		
rep	2	ASILM	conc	4.71	ppb		

08/04/95 17:26
CCB4

ASILM	av	2.68	ppb	sd	2.878	%cv	107.4

08/04/95 17:30
ICSAF

rep	1	ASILM	conc	-0.45	ppb		
rep	2	ASILM	conc	6.98	ppb		

08/04/95 17:31
ICSAF

ASILM	av	3.27	ppb	sd	5.254	%cv	160.7

08/04/95 17:33
ICSABF

rep	1	ASILM	conc	13.88	ppb		
rep	2	ASILM	conc	19.41	ppb		

08/04/95 17:34
ICSABF

ASILM	av	16.65	ppb	sd	3.908	%cv	23.48

08/04/95 17:37
CRIF

	rep	1	ASILM	conc	25.14	ppb	
	rep	2	ASILM	conc	25.20	ppb	
08/04/95 17:37 CRIF							
ASILM	av	25.17	ppb	sd	0.046	%cv	0.18
08/04/95 17:40 CCV5							
	rep	1	ASILM	conc	531.87	ppb	
	rep	2	ASILM	conc	530.08	ppb	
08/04/95 17:41 CCV5							
ASILM	av	530.98	ppb	sd	1.260	%cv	0.24
08/04/95 17:45 CCB5							
	rep	1	ASILM	conc	-4.34	ppb	
	rep	2	ASILM	conc	1.69	ppb	
08/04/95 17:46 CCB5							
ASILM	av	-1.32	ppb	sd	4.262	%cv	322.2

Se

Run #1

950168 (30006 - 30028

Element File: SE_CLP_1.GEL Element: Se Wavelength: 196.0
Date: 08/02/95 Time: 23:19 Slit: 2.0 L
Data File: 0802CS21.DAT ID/Wt File: 0802CS21.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 49
Remark 1: SE CLP-5100A GFAA
Remark 2: CALIBRATION STANDARDS S25,S50 IN BOOK #1011
Remark 3: CALIBRATION STANDARDS S10 BY AUTO DILUTION
Remark 4: SE ICV IN BOOK #1011 PAGE #21

rev: pdw 8.3.95

Se ID: S0 Seq. No.: 00001 A/S Pos.: 37 Date: 08/02/95

Replicate 1 Time: 23:19
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.004

Auto-zero performed.

Se ID: S5 Seq. No.: 00002 A/S Pos.: 3 Date: 08/02/95

Replicate 1 Time: 23:21
Peak Area (A-s): 0.018 Peak Height (A): 0.036
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.014

Standard number 1 applied. [5.00]
Correlation coefficient: 1.00000 Slope: 0.0028

Se ID: S10 Seq. No.: 00003 A/S Pos.: 36 Date: 08/02/95

Replicate 1 Time: 23:24
Peak Area (A-s): 0.037 Peak Height (A): 0.062
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 11.97

Standard number 2 applied. [10.00]
Correlation coefficient: 0.97671 Slope: 0.0033

Se ID: S25 Seq. No.: 00004 A/S Pos.: 38 Date: 08/02/95

Replicate 1 Time: 23:27
Peak Area (A-s): 0.094 Peak Height (A): 0.144
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 27.43

Standard number 3 applied. [25.00]
Correlation coefficient: 0.99674 Slope: 0.0036

Se ID: S50 Seq. No.: 00005 A/S Pos.: 40 Date: 08/02/95

Replicate 1 Time: 23:29

Peak Area (A-s): 0.185 Peak Height (A): 0.263
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.181
Concentration (ug/L): 50.94

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99934 Slope: 0.0036

Se ID: ICV Seq. No.: 00006 A/S Pos.: 1 Date: 08/02/95

Replicate 1 Time: 23:43
Peak Area (A-s): 0.077 Peak Height (A): 0.116
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 20.24

Replicate 2 Time: 23:46
Peak Area (A-s): 0.075 Peak Height (A): 0.110
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 19.66

Mean Conc (ug/L): 19.95 SD: 0.415 RSD(%): 2.08

Se ID: ICB Seq. No.: 00007 A/S Pos.: 2 Date: 08/02/95

Replicate 1 Time: 23:48
Peak Area (A-s): 0.007 Peak Height (A): 0.012
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.94

Replicate 2 Time: 23:51
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.66

Mean Conc (ug/L): 0.14 SD: 1.131 RSD(%): 800.77

Se ID: ACCV Seq. No.: 00008 A/S Pos.: 36 Date: 08/02/95

Replicate 1 Time: 23:54
Peak Area (A-s): 0.094 Peak Height (A): 0.135
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 25.14

Replicate 2 Time: 23:56
Peak Area (A-s): 0.093 Peak Height (A): 0.138
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 24.90

Mean Conc (ug/L): 25.02 SD: 0.172 RSD(%): 0.69

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00009 A/S Pos.: 37 Date: 08/02/95

Replicate 1 Time: 23:59
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.10

Replicate 2 Time: 00:02
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.36

Mean Conc (ug/L): -0.13 L2.0 SD: 0.324 RSD(%): 250.91

QC sample is within range -5.00 - 5.00

Se ID: CRA Seq. No.: 00010 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 00:04
Peak Area (A-s): 0.020 Peak Height (A): 0.040
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 4.43

Replicate 2 Time: 00:07
Peak Area (A-s): 0.023 Peak Height (A): 0.037
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 5.43

Mean Conc (ug/L): 4.93 SD: 0.705 RSD(%): 14.30

Se ID: PBS#1067-2 PBS1 Seq. No.: 00011 A/S Pos.: 4 Date: 08/03/95

Replicate 1 Time: 00:10
Peak Area (A-s): 0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.09 Corrected Conc (ug/L): -0.09

Replicate 2 Time: 00:12
Peak Area (A-s): 0.006 Peak Height (A): 0.012
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.81 Corrected Conc (ug/L): 0.81

Mean Conc (ug/L): 0.36 SD: 0.634 RSD(%): 174.51
Corrected Conc (ug/L): 0.36 L0.20

Se ID: PBS#1067-2 Seq. No.: 00012 A/S Pos.: 4 Date: 08/03/95

Replicate 1 Time: 00:15
Peak Area (A-s): 0.038 Peak Height (A): 0.069
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 9.64 Corrected Conc (ug/L): 9.64

Replicate 2 Time: 00:18
Peak Area (A-s): 0.041 Peak Height (A): 0.062
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 10.26 Corrected Conc (ug/L): 10.26

Mean Conc (ug/L): 9.95 SD: 0.443 RSD(%): 4.45
Corrected Conc (ug/L): 9.95

Recovery is 95.9%

Se ID: LCSS8/1-#2 Seq. No.: 00013 A/S Pos.: 5 Date: 08/03/95

Sample abs. is greater than that of the largest standard.
Replicate 1 Time: 00:20
Peak Area (A-s): 0.530 Peak Height (A): 0.597
Background Pk Area (A-s): 0.185 Background Pk Height (A): 0.151
Blank Corrected Pk Area (A-s): 0.526
Concentration (ug/L): 145.65 Corrected Conc (ug/L): 145.65

Sample abs. is greater than that of the largest standard.
Replicate 2 Time: 00:23
Peak Area (A-s): 0.528 Peak Height (A): 0.601
Background Pk Area (A-s): 0.185 Background Pk Height (A): 0.157
Blank Corrected Pk Area (A-s): 0.525
Concentration (ug/L): 145.32 Corrected Conc (ug/L): 145.32

Sample abs. is greater than that of the largest standard.
Mean Conc (ug/L): 145.49 SD: 0.238 RSD(%): 0.16
Corrected Conc (ug/L): 145.49

see serum over-range - dilution not performed

Se ID: LCSS8/1-#2 Seq. No.: 00014 A/S Pos.: 5 Date: 08/03/95

Sample abs. is greater than that of the largest standard.
Replicate 1 Time: 00:26
Peak Area (A-s): 0.564 Peak Height (A): 0.676
Background Pk Area (A-s): 0.188 Background Pk Height (A): 0.174
Blank Corrected Pk Area (A-s): 0.561
Concentration (ug/L): 155.23 Corrected Conc (ug/L): 155.23

rev: pm 8-3-95

Sample abs. is greater than that of the largest standard.
Replicate 2 Time: 00:28
Peak Area (A-s): 0.561 Peak Height (A): 0.666
Background Pk Area (A-s): 0.189 Background Pk Height (A): 0.175
Blank Corrected Pk Area (A-s): 0.558
Concentration (ug/L): 154.36 Corrected Conc (ug/L): 154.36

Sample abs. is greater than that of the largest standard.
Mean Conc (ug/L): 154.80 SD: 0.618 RSD(%): 0.40
Corrected Conc (ug/L): 154.80

Recovery is 93.1%

Se ID: 648-30006 Seq. No.: 00015 A/S Pos.: 6 Date: 08/03/95

RH15B

Replicate 1 Time: 00:31
Peak Area (A-s): 0.009 Peak Height (A): 0.017
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.56 Corrected Conc (ug/L): 1.56

Replicate 2 Time: 00:34
Peak Area (A-s): 0.008 Peak Height (A): 0.014
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.10 Corrected Conc (ug/L): 1.10

Mean Conc (ug/L): 1.33 SD: 0.324 RSD(%): 24.30
Corrected Conc (ug/L): 1.33 $\times 10 \cdot 2 = 13.5$ mg/kg

Se ID: 648-30006 Seq. No.: 00016 A/S Pos.: 6 Date: 08/03/95

Replicate 1 Time: 00:37
Peak Area (A-s): 0.048 Peak Height (A): 0.061
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 12.20 Corrected Conc (ug/L): 12.20

Replicate 2 Time: 00:39
Peak Area (A-s): 0.046 Peak Height (A): 0.062
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 11.69 Corrected Conc (ug/L): 11.69

Mean Conc (ug/L): 11.95 SD: 0.354 RSD(%): 2.96
Corrected Conc (ug/L): 11.95

Recovery is 106.1%

Se ID: ACCV Seq. No.: 00017 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 00:42
Peak Area (A-s): 0.095 Peak Height (A): 0.136
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.095
Concentration (ug/L): 26.27

Replicate 2 Time: 00:44
Peak Area (A-s): 0.099 Peak Height (A): 0.143
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 26.53

Mean Conc (ug/L): 26.40 ✓ SD: 0.184 RSD(%): 0.70

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00018 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 00:47
Peak Area (A-s): 0.005 Peak Height (A): 0.016
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.53

Replicate 2 Time: 00:50
Peak Area (A-s): 0.009 Peak Height (A): 0.013
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.49

Mean Conc (ug/L): 1.01 2.0 SD: 0.679 RSD(%): 66.93

QC sample is within range -5.00 - 5.00

Se ID: 648-30007 Seq. No.: 00019 A/S Pos.: 7 Date: 08/03/95

RHISG

Replicate 1 Time: 00:52
Peak Area (A-s): 0.016 Peak Height (A): 0.019
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.33 Corrected Conc (ug/L): 3.33

Replicate 2 Time: 00:55
Peak Area (A-s): 0.012 Peak Height (A): 0.013
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 2.39 Corrected Conc (ug/L): 2.39

Mean Conc (ug/L): 2.86 SD: 0.665 RSD(%): 23.23
Corrected Conc (ug/L): 2.86

Se ID: 648-30007 Seq. No.: 00020 A/S Pos.: 7 Date: 08/03/95

Replicate 1 Time: 00:58
Peak Area (A-s): 0.052 Peak Height (A): 0.074
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 13.48 Corrected Conc (ug/L): 13.48

Replicate 2 Time: 01:00
Peak Area (A-s): 0.051 Peak Height (A): 0.069
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 13.01 Corrected Conc (ug/L): 13.01

Mean Conc (ug/L): 13.25 SD: 0.332 RSD(%): 2.51
Corrected Conc (ug/L): 13.25

Recovery is 103.9%

Se ID: 648-30008 Seq. No.: 00021 A/S Pos.: 8 Date: 08/03/95

RH25G

Replicate 1 Time: 01:03
Peak Area (A-s): 0.014 Peak Height (A): 0.021
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 2.79 Corrected Conc (ug/L): 2.79

Replicate 2 Time: 01:06
Peak Area (A-s): 0.014 Peak Height (A): 0.018
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.91 Corrected Conc (ug/L): 2.91

Mean Conc (ug/L): 2.85 SD: 0.090 RSD(%): 3.17
Corrected Conc (ug/L): 2.85

Se ID: 648-30008 Seq. No.: 00022 A/S Pos.: 8 Date: 08/03/95

Replicate 1 Time: 01:08
Peak Area (A-s): 0.049 Peak Height (A): 0.066
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 12.61 Corrected Conc (ug/L): 12.61

Replicate 2 Time: 01:11
Peak Area (A-s): 0.050 Peak Height (A): 0.067
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 12.90 Corrected Conc (ug/L): 12.90

Mean Conc (ug/L): 12.76 SD: 0.209 RSD(%): 1.64
Corrected Conc (ug/L): 12.76

Recovery is 99.1%

Se ID: 648-30009 Seq. No.: 00023 A/S Pos.: 9 Date: 08/03/95

RH25B

Replicate 1 Time: 01:14
Peak Area (A-s): 0.017 Peak Height (A): 0.019
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 3.66 Corrected Conc (ug/L): 3.66

Replicate 2 Time: 01:16
Peak Area (A-s): 0.008 Peak Height (A): 0.019
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.18 Corrected Conc (ug/L): 1.18

Mean Conc (ug/L): 2.42 SD: 1.756 RSD(%): 72.65
Corrected Conc (ug/L): 2.42

Se ID: 648-30009 Seq. No.: 00024 A/S Pos.: 9 Date: 08/03/95

Replicate 1 Time: 01:19
Peak Area (A-s): 0.047 Peak Height (A): 0.067
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 12.05 Corrected Conc (ug/L): 12.05

Replicate 2 Time: 01:22
Peak Area (A-s): 0.048 Peak Height (A): 0.064
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 12.22 Corrected Conc (ug/L): 12.22

Mean Conc (ug/L): 12.13 SD: 0.115 RSD(%): 0.94
Corrected Conc (ug/L): 12.13

Recovery is 97.2%

Se ID: 648-30010 Seq. No.: 00025 A/S Pos.: 10 Date: 08/03/95

BES1SP

Replicate 1 Time: 01:24
Peak Area (A-s): 0.011 Peak Height (A): 0.017
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.16 Corrected Conc (ug/L): 2.16

Replicate 2 Time: 01:27
Peak Area (A-s): 0.004 Peak Height (A): 0.012
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.18 Corrected Conc (ug/L): 0.18

Mean Conc (ug/L): 1.17 SD: 1.401 RSD(%): 119.43
Corrected Conc (ug/L): 1.17

LO.20

Se ID: 648-30010 Seq. No.: 00026 A/S Pos.: 10 Date: 08/03/95

Replicate 1 Time: 01:30
Peak Area (A-s): 0.044 Peak Height (A): 0.058
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 11.20 Corrected Conc (ug/L): 11.20

Replicate 2 Time: 01:32
Peak Area (A-s): 0.045 Peak Height (A): 0.060
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 11.45 Corrected Conc (ug/L): 11.45

Mean Conc (ug/L): 11.33 SD: 0.177 RSD(%): 1.56
Corrected Conc (ug/L): 11.33

Recovery is 101.6%

Se ID: ACCV Seq. No.: 00027 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 01:35
Peak Area (A-s): 0.093 Peak Height (A): 0.132
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 24.75

Replicate 2 Time: 01:37
Peak Area (A-s): 0.103 Peak Height (A): 0.144
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 27.54

Mean Conc (ug/L): 26.15 ✓ SD: 1.971 RSD(%): 7.54

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00028 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 01:40
Peak Area (A-s): 0.005 Peak Height (A): 0.015
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.42

Replicate 2 Time: 01:43
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.12

Mean Conc (ug/L): 0.27 L2 SD: 0.217 RSD(%): 80.57

QC sample is within range -5.00 - 5.00

Se ID: 648-30011 Seq. No.: 00029 A/S Pos.: 11 Date: 08/03/95

BESISB

Replicate 1 Time: 01:45
Peak Area (A-s): 0.007 Peak Height (A): 0.015
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.97 Corrected Conc (ug/L): 0.97

Replicate 2 Time: 01:48
Peak Area (A-s): 0.010 Peak Height (A): 0.019
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.67 Corrected Conc (ug/L): 1.67

Mean Conc (ug/L): 1.32 SD: 0.496 RSD(%): 37.51
Corrected Conc (ug/L): 1.32 / 0.20

W

132

Se ID: 648-30011 Seq. No.: 00030 A/S Pos.: 11 Date: 08/03/95

Replicate 1 Time: 01:50
Peak Area (A-s): 0.045 Peak Height (A): 0.069
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 11.54 Corrected Conc (ug/L): 11.54

Replicate 2 Time: 01:53
Peak Area (A-s): 0.047 Peak Height (A): 0.064
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 12.02 Corrected Conc (ug/L): 12.02

Mean Conc (ug/L): 11.78 SD: 0.340 RSD(%): 2.89
Corrected Conc (ug/L): 11.78

Recovery is 104.5%

Se ID: 648-30012 Seq. No.: 00031 A/S Pos.: 12 Date: 08/03/95
BESISG

Replicate 1 Time: 01:56
Peak Area (A-s): 0.005 Peak Height (A): 0.015
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.51 Corrected Conc (ug/L): 0.51

Replicate 2 Time: 01:58
Peak Area (A-s): 0.005 Peak Height (A): 0.015
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.43 Corrected Conc (ug/L): 0.43

Mean Conc (ug/L): 0.47 SD: 0.056 RSD(%): 11.89
Corrected Conc (ug/L): 0.47 40.20

Se ID: 648-30012 Seq. No.: 00032 A/S Pos.: 12 Date: 08/03/95

Replicate 1 Time: 02:01
Peak Area (A-s): 0.042 Peak Height (A): 0.061
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 10.66 Corrected Conc (ug/L): 10.66

Replicate 2 Time: 02:04
Peak Area (A-s): 0.041 Peak Height (A): 0.057
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 10.48 Corrected Conc (ug/L): 10.48

Mean Conc (ug/L): 10.57 SD: 0.134 RSD(%): 1.26
Corrected Conc (ug/L): 10.57

Recovery is 101.0%

Se ID: 648-30013 Seq. No.: 00033 A/S Pos.: 13 Date: 08/03/95
BPSP

Replicate 1 Time: 02:06

Peak Area (A-s): 0.009
Background Pk Area (A-s): 0.069
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.54

Peak Height (A): 0.018
Background Pk Height (A): 0.040

Corrected Conc (ug/L): 1.54

Replicate 2
Peak Area (A-s): 0.009
Background Pk Area (A-s): 0.069
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.64

Time: 02:09
Peak Height (A): 0.022
Background Pk Height (A): 0.036

Corrected Conc (ug/L): 1.64

Mean Conc (ug/L): 1.59
Corrected Conc (ug/L): 1.59

SD: 0.071

RSD(%): 4.48

LO.20

Se ID: 648-30013 Seq. No.: 00034 A/S Pos.: 13 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.048
Background Pk Area (A-s): 0.103
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.39

Time: 02:12
Peak Height (A): 0.068
Background Pk Height (A): 0.043

Corrected Conc (ug/L): 12.39

Replicate 2
Peak Area (A-s): 0.043
Background Pk Area (A-s): 0.096
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 11.03

Time: 02:14
Peak Height (A): 0.063
Background Pk Height (A): 0.046

Corrected Conc (ug/L): 11.03

Mean Conc (ug/L): 11.71
Corrected Conc (ug/L): 11.71

SD: 0.959

RSD(%): 8.19

Recovery is 101.2%

Se ID: 648-30014 Seq. No.: 00035 A/S Pos.: 14 Date: 08/03/95

BPSG

Replicate 1
Peak Area (A-s): 0.006
Background Pk Area (A-s): 0.097
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.69

Time: 02:17
Peak Height (A): 0.018
Background Pk Height (A): 0.048

Corrected Conc (ug/L): 0.69

Replicate 2
Peak Area (A-s): 0.014
Background Pk Area (A-s): 0.089
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.93

Time: 02:19
Peak Height (A): 0.021
Background Pk Height (A): 0.041

Corrected Conc (ug/L): 2.93

Mean Conc (ug/L): 1.81
Corrected Conc (ug/L): 1.81

SD: 1.582

RSD(%): 87.31

LO.20

134

Se ID: 648-30014 Seq. No.: 00036 A/S Pos.: 14 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.050
Background Pk Area (A-s): 0.098

Time: 02:22
Peak Height (A): 0.063
Background Pk Height (A): 0.042

Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 12.81 Corrected Conc (ug/L): 12.81

Replicate 2 Time: 02:25
Peak Area (A-s): 0.048 Peak Height (A): 0.059
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 12.31 Corrected Conc (ug/L): 12.31

Mean Conc (ug/L): 12.56 SD: 0.348 RSD(%): 2.77
Corrected Conc (ug/L): 12.56

Recovery is 107.5%

Se ID: ACCV Seq. No.: 00037 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 02:27
Peak Area (A-s): 0.094 Peak Height (A): 0.120
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 25.07

Replicate 2 Time: 02:30
Peak Area (A-s): 0.094 Peak Height (A): 0.126
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 24.95

Mean Conc (ug/L): 25.01 SD: 0.080 RSD(%): 0.32

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00038 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 02:32
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.81

Replicate 2 Time: 02:35
Peak Area (A-s): 0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.34

Mean Conc (ug/L): -0.57 12.0 SD: 0.328 RSD(%): 57.18

QC sample is within range -5.00 - 5.00

Se ID: 648-30015 Seq. No.: 00039 A/S Pos.: 15 Date: 08/03/95 135

BPSB

Replicate 1 Time: 02:38
Peak Area (A-s): 0.011 Peak Height (A): 0.024
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.045

Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.01 Corrected Conc (ug/L): 2.01

Replicate 2 Time: 02:40
Peak Area (A-s): 0.010 Peak Height (A): 0.020
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.91 Corrected Conc (ug/L): 1.91

Mean Conc (ug/L): 1.96 SD: 0.071 RSD(%): 3.61
Corrected Conc (ug/L): 1.96

Se ID: 648-30015 Seq. No.: 00040 A/S Pos.: 15 Date: 08/03/95

Replicate 1 Time: 02:43
Peak Area (A-s): 0.048 Peak Height (A): 0.068
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.35 Corrected Conc (ug/L): 12.35

Replicate 2 Time: 02:46
Peak Area (A-s): 0.051 Peak Height (A): 0.068
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 13.01 Corrected Conc (ug/L): 13.01

Mean Conc (ug/L): 12.68 SD: 0.467 RSD(%): 3.68
Corrected Conc (ug/L): 12.68

Recovery is 107.2%

Se ID: 648-30016 Seq. No.: 00041 A/S Pos.: 16 Date: 08/03/95

Replicate 1 Time: 02:48
Peak Area (A-s): 0.008 Peak Height (A): 0.021
Background Pk Area (A-s): 0.110 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.20 Corrected Conc (ug/L): 1.20

Replicate 2 Time: 02:51
Peak Area (A-s): 0.010 Peak Height (A): 0.018
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.66 Corrected Conc (ug/L): 1.66

Mean Conc (ug/L): 1.43 SD: 0.329 RSD(%): 22.99
Corrected Conc (ug/L): 1.43

Se ID: 648-30016 Seq. No.: 00042 A/S Pos.: 16 Date: 08/03/95

Replicate 1 Time: 02:54
Peak Area (A-s): 0.048 Peak Height (A): 0.061
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.36 Corrected Conc (ug/L): 12.36

Replicate 2 Time: 02:56
Peak Area (A-s): 0.048 Peak Height (A): 0.060
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.33 Corrected Conc (ug/L): 12.33

Mean Conc (ug/L): 12.35 SD: 0.022 RSD(%): 0.17
Corrected Conc (ug/L): 12.35

Recovery is 109.2%

Se ID: 648-30017 Seq. No.: 00043 A/S Pos.: 17 Date: 08/03/95

RH356

Replicate 1 Time: 02:59
Peak Area (A-s): 0.008 Peak Height (A): 0.020
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.13 Corrected Conc (ug/L): 1.13

Replicate 2 Time: 03:01
Peak Area (A-s): 0.011 Peak Height (A): 0.018
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.00 Corrected Conc (ug/L): 2.00

Mean Conc (ug/L): 1.57 SD: 0.621 RSD(%): 39.70
Corrected Conc (ug/L): 1.57

LO.20

Se ID: 648-30017 Seq. No.: 00044 A/S Pos.: 17 Date: 08/03/95

Replicate 1 Time: 03:04
Peak Area (A-s): 0.045 Peak Height (A): 0.067
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 11.51 Corrected Conc (ug/L): 11.51

Replicate 2 Time: 03:07
Peak Area (A-s): 0.050 Peak Height (A): 0.067
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 12.85 Corrected Conc (ug/L): 12.85

Mean Conc (ug/L): 12.18 SD: 0.945 RSD(%): 7.76
Corrected Conc (ug/L): 12.18

Recovery is 106.3%

Se ID: 648-30018 Seq. No.: 00045 A/S Pos.: 18 Date: 08/03/95

RH458

Replicate 1 Time: 03:10
Peak Area (A-s): 0.014 Peak Height (A): 0.017
Background Pk Area (A-s): 0.206 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.98 Corrected Conc (ug/L): 2.98

Replicate 2 Time: 03:12

Peak Area (A-s): 0.013 Peak Height (A): 0.017
Background Pk Area (A-s): 0.227 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 2.52 Corrected Conc (ug/L): 2.52

Mean Conc (ug/L): 2.75 SD: 0.324 RSD(%): 11.80
Corrected Conc (ug/L): 2.75

Se ID: 648-30018 Seq. No.: 00046 A/S Pos.: 18 Date: 08/03/95

Replicate 1 Time: 03:15
Peak Area (A-s): 0.038 Peak Height (A): 0.034
Background Pk Area (A-s): 0.224 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 9.63 Corrected Conc (ug/L): 9.63

Replicate 2 Time: 03:18
Peak Area (A-s): 0.041 Peak Height (A): 0.036
Background Pk Area (A-s): 0.223 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 10.31 Corrected Conc (ug/L): 10.31

Mean Conc (ug/L): 9.97 SD: 0.480 RSD(%): 4.81
Corrected Conc (ug/L): 9.97

Recovery is 72.3% (outside of specified limits)

Se ID: ACCV Seq. No.: 00047 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 03:20
Peak Area (A-s): 0.095 Peak Height (A): 0.112
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 25.26

Replicate 2 Time: 03:23
Peak Area (A-s): 0.095 Peak Height (A): 0.131
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 25.25

Mean Conc (ug/L): 25.26 SD: 0.001 RSD(%): 0.00

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00048 A/S Pos.: 27 Date: 08/03/95

Replicate 1 Time: 03:26
Peak Area (A-s): -0.000 Peak Height (A): 0.014
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.05

Replicate 2 Time: 03:28
Peak Area (A-s): -0.000 Peak Height (A): 0.011

Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.11

Mean Conc (ug/L): -1.08 SD: 0.048 RSD(%): 4.43

QC sample is within range -5.00 - 5.00

Se ID: 648-30019 Seq. No.: 00049 A/S Pos.: 19 Date: 08/03/95

RH55G

Replicate 1 Time: 03:31
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.59 Corrected Conc (ug/L): 0.59

Replicate 2 Time: 03:33
Peak Area (A-s): 0.005 Peak Height (A): 0.014
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.50 Corrected Conc (ug/L): 0.50

Mean Conc (ug/L): 0.55 SD: 0.068 RSD(%): 12.46
Corrected Conc (ug/L): 0.55

Se ID: 648-30019 Seq. No.: 00050 A/S Pos.: 19 Date: 08/03/95

Replicate 1 Time: 03:36
Peak Area (A-s): 0.042 Peak Height (A): 0.059
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 10.51 Corrected Conc (ug/L): 10.51

Replicate 2 Time: 03:39
Peak Area (A-s): 0.043 Peak Height (A): 0.064
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.039
Concentration (ug/L): 10.92 Corrected Conc (ug/L): 10.92

Mean Conc (ug/L): 10.71 SD: 0.291 RSD(%): 2.71
Corrected Conc (ug/L): 10.71

Recovery is 101.7%

Se ID: 648-30020 Seq. No.: 00051 A/S Pos.: 20 Date: 08/03/95

RH55B

Replicate 1 Time: 03:42
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.65 Corrected Conc (ug/L): 0.65

Replicate 2 Time: 03:44
Peak Area (A-s): 0.009 Peak Height (A): 0.016
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.037

Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 1.51 Corrected Conc (ug/L): 1.51

Mean Conc (ug/L): 1.08 SD: 0.606 RSD(%): 56.07
Corrected Conc (ug/L): 1.08 <1.0

Se ID: 648-30020 Seq. No.: 00052 A/S Pos.: 20 Date: 08/03/95

Replicate 1 Time: 03:47
Peak Area (A-s): 0.042 Peak Height (A): 0.063
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 10.64 Corrected Conc (ug/L): 10.64

Replicate 2 Time: 03:50
Peak Area (A-s): 0.044 Peak Height (A): 0.070
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 11.25 Corrected Conc (ug/L): 11.25

Mean Conc (ug/L): 10.94 SD: 0.436 RSD(%): 3.98
Corrected Conc (ug/L): 10.94

Recovery is 98.6%

Se ID: 648-30021 Seq. No.: 00053 A/S Pos.: 21 Date: 08/03/95

RH6SB

Replicate 1 Time: 03:52
Peak Area (A-s): 0.014 Peak Height (A): 0.026
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.91 Corrected Conc (ug/L): 2.91

Replicate 2 Time: 03:55
Peak Area (A-s): 0.015 Peak Height (A): 0.024
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 3.06 Corrected Conc (ug/L): 3.06

Mean Conc (ug/L): 2.98 SD: 0.101 RSD(%): 3.38
Corrected Conc (ug/L): 2.98

Se ID: 648-30021 Seq. No.: 00054 A/S Pos.: 21 Date: 08/03/95

Replicate 1 Time: 03:58
Peak Area (A-s): 0.054 Peak Height (A): 0.073
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.051
Concentration (ug/L): 13.99 Corrected Conc (ug/L): 13.99

Replicate 2 Time: 04:01
Peak Area (A-s): 0.046 Peak Height (A): 0.069
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 11.88 Corrected Conc (ug/L): 11.88

Mean Conc (ug/L): 12.93 SD: 1.487 RSD(%): 11.49
Corrected Conc (ug/L): 12.93

Recovery is 99.5%

Se ID: 648-30022 Seq. No.: 00055 A/S Pos.: 22 Date: 08/03/95

RH6ASB

Replicate 1 Time: 04:03
Peak Area (A-s): 0.014 Peak Height (A): 0.027
Background Pk Area (A-s): 0.110 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 2.93 Corrected Conc (ug/L): 2.93

Replicate 2 Time: 04:06
Peak Area (A-s): 0.015 Peak Height (A): 0.029
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.011
Concentration (ug/L): 3.08 Corrected Conc (ug/L): 3.08

Mean Conc (ug/L): 3.00 SD: 0.105 RSD(%): 3.51
Corrected Conc (ug/L): 3.00

Se ID: 648-30022 Seq. No.: 00056 A/S Pos.: 22 Date: 08/03/95

Replicate 1 Time: 04:09
Peak Area (A-s): 0.048 Peak Height (A): 0.066
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.36 Corrected Conc (ug/L): 12.36

Replicate 2 Time: 04:11
Peak Area (A-s): 0.042 Peak Height (A): 0.063
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 10.65 Corrected Conc (ug/L): 10.65

Mean Conc (ug/L): 11.50 SD: 1.211 RSD(%): 10.53
Corrected Conc (ug/L): 11.50

Recovery is 85.0%

Se ID: ACCV Seq. No.: 00057 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 04:14
Peak Area (A-s): 0.093 Peak Height (A): 0.128
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 24.83

Replicate 2 Time: 04:17
Peak Area (A-s): 0.092 Peak Height (A): 0.128
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 24.47

Mean Conc (ug/L): 24.65 SD: 0.255 RSD(%): 1.04

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00058 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 04:19
Peak Area (A-s): 0.002 Peak Height (A): 0.016
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.38

Replicate 2 Time: 04:22
Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): -0.007
Concentration (ug/L): -1.85

Mean Conc (ug/L): -1.11 SD: 1.038 RSD(%): 93.30

QC sample is within range -5.00 - 5.00

Se ID: 648-30023 Seq. No.: 00059 A/S Pos.: 23 Date: 08/03/95

RH65G

Replicate 1 Time: 04:24
Peak Area (A-s): 0.006 Peak Height (A): 0.014
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.75 Corrected Conc (ug/L): 0.75

Replicate 2 Time: 04:27
Peak Area (A-s): 0.011 Peak Height (A): 0.014
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.98 Corrected Conc (ug/L): 1.98

Mean Conc (ug/L): 1.37 SD: 0.867 RSD(%): 63.46
Corrected Conc (ug/L): 1.37

Se ID: 648-30023 Seq. No.: 00060 A/S Pos.: 23 Date: 08/03/95

Replicate 1 Time: 04:30
Peak Area (A-s): 0.044 Peak Height (A): 0.063
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 11.31 Corrected Conc (ug/L): 11.31

Replicate 2 Time: 04:33
Peak Area (A-s): 0.049 Peak Height (A): 0.060
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.49 Corrected Conc (ug/L): 12.49

Mean Conc (ug/L): 11.90 SD: 0.831 RSD(%): 6.98
Corrected Conc (ug/L): 11.90

Recovery is 105.3%

142

Se ID: 648-30024 Seq. No.: 00061 A/S Pos.: 24 Date: 08/03/95

RH7SB

Replicate 1
Peak Area (A-s): 0.014
Background Pk Area (A-s): 0.078
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 2.90

Time: 04:35
Peak Height (A): 0.020
Background Pk Height (A): 0.042
Corrected Conc (ug/L): 2.90

Replicate 2
Peak Area (A-s): 0.015
Background Pk Area (A-s): 0.076
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 3.20

Time: 04:38
Peak Height (A): 0.029
Background Pk Height (A): 0.042
Corrected Conc (ug/L): 3.20

Mean Conc (ug/L): 3.05
Corrected Conc (ug/L): 3.05

SD: 0.211 RSD(%): 6.91

Se ID: 648-30024 Seq. No.: 00062 A/S Pos.: 24 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.051
Background Pk Area (A-s): 0.077
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 13.24

Time: 04:41
Peak Height (A): 0.070
Background Pk Height (A): 0.036
Corrected Conc (ug/L): 13.24

Replicate 2
Peak Area (A-s): 0.052
Background Pk Area (A-s): 0.085
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 13.38

Time: 04:43
Peak Height (A): 0.067
Background Pk Height (A): 0.040
Corrected Conc (ug/L): 13.38

Mean Conc (ug/L): 13.31
Corrected Conc (ug/L): 13.31

SD: 0.094 RSD(%): 0.70

Recovery is 102.6%

Se ID: Q648-30025 Seq. No.: 00063 A/S Pos.: 25 Date: 08/03/95

RH7ASB

Replicate 1
Peak Area (A-s): 0.008
Background Pk Area (A-s): 0.081
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.24

Time: 04:46
Peak Height (A): 0.020
Background Pk Height (A): 0.039
Corrected Conc (ug/L): 1.24

Replicate 2
Peak Area (A-s): 0.017
Background Pk Area (A-s): 0.078
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 3.66

Time: 04:49
Peak Height (A): 0.028
Background Pk Height (A): 0.037
Corrected Conc (ug/L): 3.66

Mean Conc (ug/L): 2.45
Corrected Conc (ug/L): 2.45

SD: 1.707 RSD(%): 69.68

Se ID: Q648-30025 Seq. No.: 00064 A/S Pos.: 25 Date: 08/03/95

Replicate 1 Time: 04:51
Peak Area (A-s): 0.046 Peak Height (A): 0.068
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 11.82 Corrected Conc (ug/L): 11.82

Replicate 2 Time: 04:54
Peak Area (A-s): 0.046 Peak Height (A): 0.069
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 11.77 Corrected Conc (ug/L): 11.77

Mean Conc (ug/L): 11.80 SD: 0.032 RSD(%): 0.27
Corrected Conc (ug/L): 11.80

Recovery is 93.5%

Se ID: Q648-30025D Seq. No.: 00065 A/S Pos.: 26 Date: 08/03/95

RH7ASB (DUP)

Replicate 1 Time: 04:57
Peak Area (A-s): 0.010 Peak Height (A): 0.023
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.73 Corrected Conc (ug/L): 1.73

Replicate 2 Time: 04:59
Peak Area (A-s): 0.010 Peak Height (A): 0.022
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.84 Corrected Conc (ug/L): 1.84

Mean Conc (ug/L): 1.79 SD: 0.075 RSD(%): 4.18
Corrected Conc (ug/L): 1.79

10.20

Se ID: Q648-30025D Seq. No.: 00066 A/S Pos.: 26 Date: 08/03/95

Replicate 1 Time: 05:02
Peak Area (A-s): 0.044 Peak Height (A): 0.066
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 11.26 Corrected Conc (ug/L): 11.26

Replicate 2 Time: 05:05
Peak Area (A-s): 0.046 Peak Height (A): 0.070
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 11.77 Corrected Conc (ug/L): 11.77

Mean Conc (ug/L): 11.52 SD: 0.363 RSD(%): 3.15
Corrected Conc (ug/L): 11.52

Recovery is 97.3%

Se ID: ACCV Seq. No.: 00067 A/S Pos.: 35 Date: 08/03/95

Replicate 1 Time: 05:07

Peak Area (A-s): 0.091 Peak Height (A): 0.129
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 24.16

Replicate 2 Time: 05:10
Peak Area (A-s): 0.098 Peak Height (A): 0.136
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.094
Concentration (ug/L): 26.08

Mean Conc (ug/L): 25.12 SD: 1.360 RSD(%): 5.42

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00068 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 05:13
Peak Area (A-s): 0.005 Peak Height (A): 0.014
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.33

Replicate 2 Time: 05:15
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.72

Mean Conc (ug/L): -0.20 SD: 0.740 RSD(%): 378.69

QC sample is within range -5.00 - 5.00

Se ID: Q648-30025S Seq. No.: 00069 A/S Pos.: 27 Date: 08/03/95

RH7ASB (SPIKE)

Replicate 1 Time: 05:18
Peak Area (A-s): 0.029 Peak Height (A): 0.042
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 7.16 Corrected Conc (ug/L): 7.16

Replicate 2 Time: 05:20
Peak Area (A-s): 0.031 Peak Height (A): 0.041
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 7.69 Corrected Conc (ug/L): 7.69

Mean Conc (ug/L): 7.43 SD: 0.377 RSD(%): 5.08
Corrected Conc (ug/L): 7.43

Se ID: Q648-30025S Seq. No.: 00070 A/S Pos.: 27 Date: 08/03/95

Replicate 1 Time: 05:23
Peak Area (A-s): 0.068 Peak Height (A): 0.090
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 17.92 Corrected Conc (ug/L): 17.92

Replicate 2 Time: 05:26
Peak Area (A-s): 0.061 Peak Height (A): 0.087
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 15.87 Corrected Conc (ug/L): 15.87

Mean Conc (ug/L): 16.90 SD: 1.451 RSD(%): 8.59
Corrected Conc (ug/L): 16.90

Recovery is 94.7%

Se ID: 648-30026 Seq. No.: 00071 A/S Pos.: 28 Date: 08/03/95

Replicate 1 Time: 05:28
Peak Area (A-s): 0.005 Peak Height (A): 0.017
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.38 Corrected Conc (ug/L): 0.38

Replicate 2 Time: 05:31
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.72 Corrected Conc (ug/L): 0.72

Mean Conc (ug/L): 0.55 SD: 0.241 RSD(%): 43.66
Corrected Conc (ug/L): 0.55 40.00

Se ID: 648-30026 Seq. No.: 00072 A/S Pos.: 28 Date: 08/03/95

Replicate 1 Time: 05:34
Peak Area (A-s): 0.046 Peak Height (A): 0.061
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 11.66 Corrected Conc (ug/L): 11.66

Replicate 2 Time: 05:36
Peak Area (A-s): 0.044 Peak Height (A): 0.061
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 11.32 Corrected Conc (ug/L): 11.32

Mean Conc (ug/L): 11.49 SD: 0.245 RSD(%): 2.14
Corrected Conc (ug/L): 11.49

Recovery is 109.4%

Se ID: 648-30027 Seq. No.: 00073 A/S Pos.: 29 Date: 08/03/95

Replicate 1 Time: 05:39
Peak Area (A-s): 0.013 Peak Height (A): 0.024
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.040

Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 2.65 Corrected Conc (ug/L): 2.65

Replicate 2 Time: 05:42
Peak Area (A-s): 0.020 Peak Height (A): 0.030
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 4.53 Corrected Conc (ug/L): 4.53

Mean Conc (ug/L): 3.59 SD: 1.333 RSD(%): 37.10
Corrected Conc (ug/L): 3.59

Se ID: 648-30027 Seq. No.: 00074 A/S Pos.: 29 Date: 08/03/95

Replicate 1 Time: 05:44
Peak Area (A-s): 0.048 Peak Height (A): 0.073
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.36 Corrected Conc (ug/L): 12.36

Replicate 2 Time: 05:47
Peak Area (A-s): 0.048 Peak Height (A): 0.077
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 12.41 Corrected Conc (ug/L): 12.41

Mean Conc (ug/L): 12.39 SD: 0.031 RSD(%): 0.25
Corrected Conc (ug/L): 12.39

Recovery is 87.9%

Se ID: 648-30028 Seq. No.: 00075 A/S Pos.: 30 Date: 08/03/95

Replicate 1 Time: 05:50
Peak Area (A-s): 0.011 Peak Height (A): 0.020
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.99 Corrected Conc (ug/L): 1.99

Replicate 2 Time: 05:52
Peak Area (A-s): 0.008 Peak Height (A): 0.021
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.24 Corrected Conc (ug/L): 1.24

Mean Conc (ug/L): 1.61 SD: 0.530 RSD(%): 32.84
Corrected Conc (ug/L): 1.61 ~~0.10~~

Se ID: 648-30028 Seq. No.: 00076 A/S Pos.: 30 Date: 08/03/95

Replicate 1 Time: 05:55
Peak Area (A-s): 0.039 Peak Height (A): 0.063
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 9.84 Corrected Conc (ug/L): 9.84

Replicate 2 Time: 05:58
Peak Area (A-s): 0.044 Peak Height (A): 0.064
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 11.25 Corrected Conc (ug/L): 11.25

Mean Conc (ug/L): 10.55 SD: 1.000 RSD(%): 9.48
Corrected Conc (ug/L): 10.55

Recovery is 89.3%

Se ID: ACCV Seq. No.: 00077 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 06:00
Peak Area (A-s): 0.092 Peak Height (A): 0.128
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 24.59

Replicate 2 Time: 06:03
Peak Area (A-s): 0.099 Peak Height (A): 0.140
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 26.44

Mean Conc (ug/L): 25.52 ✓ SD: 1.311 RSD(%): 5.14

QC sample is within range 22.50 - 27.50

Se ID: CCB Seq. No.: 00078 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 06:05
Peak Area (A-s): 0.002 Peak Height (A): 0.016
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.41

Replicate 2 Time: 06:08
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.70

Mean Conc (ug/L): -0.56 SD: 0.204 RSD(%): 36.52

QC sample is within range -5.00 - 5.00

Se

Element File: SE_C_ZL1.GEL Element: Se Wavelength: 196.0
Date: 08/03/95 Time: 11:58 Slit: 2.00 L
Data File: 0803CS11.DAT ID/Wt File: 0803CS11.IDW
Technique: HGA Calib. Type: Linear Energy: 53

Se ID: S0 Seq. No.: 00002 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 11:58
Peak Area (A-s): 0.003 Peak Height (A): 0.028
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): -0.005

Auto-zero performed.

Se ID: S5 Seq. No.: 00003 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 12:01
Peak Area (A-s): 0.016 Peak Height (A): 0.036
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.014

Standard number 1 applied. [5.000]
Correlation coefficient: 1.00000 Slope: 0.0028

Se ID: S10 Seq. No.: 00004 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 12:04
Peak Area (A-s): 0.036 Peak Height (A): 0.074
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.034

Standard number 2 applied. [10.000]
Correlation coefficient: 0.97250 Slope: 0.0033

Se ID: S15 Seq. No.: 00005 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 12:06
Peak Area (A-s): 0.055 Peak Height (A): 0.084
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.053

Standard number 3 applied. [15.000]
Correlation coefficient: 0.98897 Slope: 0.0034

Se ID: S25 Seq. No.: 00006 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 12:09
Peak Area (A-s): 0.091 Peak Height (A): 0.127
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.069
Blank Corrected Pk Area (A-s): 0.088

Concentration (ug/L): 16.12 Corrected Conc (mg/kg): 3.225

Replicate 2 Time: 14:25
Peak Area (A-s): 0.057 Peak Height (A): 0.048
Background Pk Area (A-s): 0.152 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 15.50 Corrected Conc (mg/kg): 3.100

Mean Conc (ug/L): 15.81 SD: 0.440 RSD(%): 2.78
Corrected Conc (mg/kg): 3.162

Recovery is 111.6%

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Se ID: ACCV Seq. No.: 00026 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 14:28
Peak Area (A-s): 0.113 Peak Height (A): 0.122
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.110
Concentration (ug/L): 31.54 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 14:30
Peak Area (A-s): 0.114 Peak Height (A): 0.111
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 31.97 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 31.76 SD: 0.308 RSD(%): 0.97
Corrected Conc (mg/kg): ----------

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Se ID: CCB Seq. No.: 00027 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 14:33
Peak Area (A-s): 0.019 Peak Height (A): 0.026
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 4.58 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 14:36
Peak Area (A-s): 0.020 Peak Height (A): 0.021
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 5.04 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 4.81 SD: 0.325 RSD(%): 6.75
Corrected Conc (mg/kg): ----------

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Se ID: S0 Seq. No.: 00028 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 14:42
Peak Area (A-s): 0.018 Peak Height (A): 0.026
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.016
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Auto-zero performed.

Se ID: S5 Seq. No.: 00029 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 14:45
Peak Area (A-s): 0.036 Peak Height (A): 0.032
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.018

Standard number 1 applied. [5.000]
Correlation coefficient: 1.00000 Slope: 0.0036

Se ID: S10 Seq. No.: 00030 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 14:48
Peak Area (A-s): 0.052 Peak Height (A): 0.052
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.034

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99798 Slope: 0.0034

Se ID: S15 Seq. No.: 00031 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 14:50
Peak Area (A-s): 0.065 Peak Height (A): 0.067
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.047

Standard number 3 applied. [15.000]
Correlation coefficient: 0.99186 Slope: 0.0032

Se ID: S25 Seq. No.: 00032 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 14:53
Peak Area (A-s): 0.101 Peak Height (A): 0.098
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.083

Standard number 4 applied. [25.000]
Correlation coefficient: 0.99781 Slope: 0.0033

Se ID: S50 Seq. No.: 00033 A/S Pos.: 40 Date: 08/03/95

Replicate 1 Time: 14:56
Peak Area (A-s): 0.191 Peak Height (A): 0.196
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.173

Standard number 5 applied. [50.000]

Correlation coefficient: 0.99878 Slope: 0.0034

Se ID: ICV Seq. No.: 00036 A/S Pos.: 1 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.141
Background Pk Area (A-s): 0.171
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 35.88
Time: 15:19
Peak Height (A): 0.152
Background Pk Height (A): 0.094
Corrected Conc (mg/kg): ----------

Replicate 2
Peak Area (A-s): 0.084
Background Pk Area (A-s): 0.100
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 19.14
Time: 15:21
Peak Height (A): 0.087
Background Pk Height (A): 0.073
Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 27.51
Corrected Conc (mg/kg): ----------
SD: 11.840
RSD(%): 43.04

>20% Auto Ref

Se ID: ICV Seq. No.: 00037 A/S Pos.: 1 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.087
Background Pk Area (A-s): 0.094
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 20.25
Time: 15:24
Peak Height (A): 0.092
Background Pk Height (A): 0.067
Corrected Conc (mg/kg): ----------

Replicate 2
Peak Area (A-s): 0.086
Background Pk Area (A-s): 0.100
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 19.98
Time: 15:27
Peak Height (A): 0.091
Background Pk Height (A): 0.063
Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 20.12 ✓
Corrected Conc (mg/kg): ----------
SD: 0.190
RSD(%): 0.94

Se ID: ICB Seq. No.: 00038 A/S Pos.: 2 Date: 08/03/95

Replicate 1
Peak Area (A-s): 0.008
Background Pk Area (A-s): 0.082
Blank Corrected Pk Area (A-s): -0.010
Concentration (ug/L): -2.91
Time: 15:30
Peak Height (A): 0.014
Background Pk Height (A): 0.075
Corrected Conc (mg/kg): ----------

Replicate 2
Peak Area (A-s): 0.009
Background Pk Area (A-s): 0.089
Blank Corrected Pk Area (A-s): -0.009
Concentration (ug/L): -2.60
Time: 15:32
Peak Height (A): 0.012
Background Pk Height (A): 0.064
Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -2.76 ✓
Corrected Conc (mg/kg): ----------
SD: 0.225
RSD(%): 8.16

Se ID: ACCV Seq. No.: 00039 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 15:35
Peak Area (A-s): 0.098 Peak Height (A): 0.100
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 23.32 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 15:38
Peak Area (A-s): 0.096 Peak Height (A): 0.093
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.077
Concentration (ug/L): 22.63 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 22.97 ✓ SD: 0.490 RSD(%): 2.13
Corrected Conc (mg/kg): ----------

Se ID: CCB Seq. No.: 00040 A/S Pos.: 37 Date: 08/03/95

Replicate 1 Time: 15:40
Peak Area (A-s): 0.015 Peak Height (A): 0.018
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.10 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 15:43
Peak Area (A-s): 0.017 Peak Height (A): 0.022
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.51 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -0.80 ✓ SD: 0.415 RSD(%): 51.61
Corrected Conc (mg/kg): ----------

Se ID: CRA Seq. No.: 00041 A/S Pos.: 3 Date: 08/03/95

Replicate 1 Time: 15:46
Peak Area (A-s): 0.037 Peak Height (A): 0.030
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 5.44 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 15:48
Peak Area (A-s): 0.032 Peak Height (A): 0.041
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 4.01 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 4.73 SD: 1.013 RSD(%): 21.42
Corrected Conc (mg/kg): ----------

Se ID: ACCV Seq. No.: 00042 A/S Pos.: 36 Date: 08/03/95

Replicate 1 — Time: 15:51
Peak Area (A-s): 0.105 — Peak Height (A): 0.100
Background Pk Area (A-s): 0.102 — Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 25.54 — Corrected Conc (mg/kg): ----------

Replicate 2 — Time: 15:54
Peak Area (A-s): 0.103 — Peak Height (A): 0.102
Background Pk Area (A-s): 0.105 — Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.084
Concentration (ug/L): 24.71 — Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 25.12 — SD: 0.584 — RSD(%): 2.33
Corrected Conc (mg/kg): ----------

Se ID: CCB — Seq. No.: 00043 — A/S Pos.: 37 — Date: 08/03/95

Replicate 1 — Time: 15:56
Peak Area (A-s): 0.013 — Peak Height (A): 0.017
Background Pk Area (A-s): 0.090 — Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -1.58 — Corrected Conc (mg/kg): ----------

Replicate 2 — Time: 15:59
Peak Area (A-s): 0.013 — Peak Height (A): 0.019
Background Pk Area (A-s): 0.085 — Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -1.67 — Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -1.63 — SD: 0.060 — RSD(%): 3.67
Corrected Conc (mg/kg): ----------

Se ID: 648-30565.01 — Seq. No.: 00044 — A/S Pos.: 19 — Date: 08/03/95

Replicate 1 — Time: 16:02
Peak Area (A-s): 0.024 — Peak Height (A): 0.021
Background Pk Area (A-s): 0.180 — Background Pk Height (A): 0.107
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.77 — Corrected Conc (mg/kg): 0.353

Replicate 2 — Time: 16:04
Peak Area (A-s): 0.026 — Peak Height (A): 0.021
Background Pk Area (A-s): 0.178 — Background Pk Height (A): 0.119
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.25 — Corrected Conc (mg/kg): 0.449

Mean Conc (ug/L): 2.01 — SD: 0.339 — RSD(%): 16.90
Corrected Conc (mg/kg): 0.401

Se ID: 648-30565.01 — Seq. No.: 00045 — A/S Pos.: 19 — Date: 08/03/95

Replicate 1 — Time: 16:07

Peak Area (A-s): 0.045 Peak Height (A): 0.035
Background Pk Area (A-s): 0.187 Background Pk Height (A): 0.116
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 7.95 Corrected Conc (mg/kg): 1.589

Replicate 2 Time: 16:10
Peak Area (A-s): 0.047 Peak Height (A): 0.034
Background Pk Area (A-s): 0.199 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 8.56 Corrected Conc (mg/kg): 1.712

Mean Conc (ug/L): 8.25 SD: 0.433 RSD(%): 5.25
Corrected Conc (mg/kg): 1.650

Recovery is 62.5%

Se ID: 648-30566.01 Seq. No.: 00046 A/S Pos.: 20 Date: 08/03/95

Replicate 1 Time: 16:13
Peak Area (A-s): 0.020 Peak Height (A): 0.027
Background Pk Area (A-s): 0.207 Background Pk Height (A): 0.144
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.63 Corrected Conc (mg/kg): 0.126

Replicate 2 Time: 16:15
Peak Area (A-s): 0.022 Peak Height (A): 0.023
Background Pk Area (A-s): 0.209 Background Pk Height (A): 0.155
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.03 Corrected Conc (mg/kg): 0.206

Mean Conc (ug/L): 0.83 SD: 0.284 RSD(%): 34.26
Corrected Conc (mg/kg): 0.166

Se ID: 648-30566.01 Seq. No.: 00047 A/S Pos.: 20 Date: 08/03/95

Replicate 1 Time: 16:18
Peak Area (A-s): 0.047 Peak Height (A): 0.033
Background Pk Area (A-s): 0.208 Background Pk Height (A): 0.135
Blank Corrected Pk Area (A-s): 0.028
Concentration (ug/L): 8.31 Corrected Conc (mg/kg): 1.662

Replicate 2 Time: 16:21
Peak Area (A-s): 0.048 Peak Height (A): 0.037
Background Pk Area (A-s): 0.212 Background Pk Height (A): 0.143
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 8.82 Corrected Conc (mg/kg): 1.764

Mean Conc (ug/L): 8.57 SD: 0.360 RSD(%): 4.21
Corrected Conc (mg/kg): 1.713

Recovery is ~~77.4%~~ 86%

Se ID: 648-30567.01 Seq. No.: 00048 A/S Pos.: 21 Date: 08/03/95

Replicate 1 — Time: 16:24
Peak Area (A-s): 0.017 — Peak Height (A): 0.023
Background Pk Area (A-s): 0.124 — Background Pk Height (A): 0.114
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.36 — Corrected Conc (mg/kg): -0.073

Replicate 2 — Time: 16:26
Peak Area (A-s): 0.019 — Peak Height (A): 0.019
Background Pk Area (A-s): 0.151 — Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.33 — Corrected Conc (mg/kg): 0.066

Mean Conc (ug/L): -0.02 — SD: 0.491 — RSD(%): 3022
Corrected Conc (mg/kg): -0.003

Se ID: 648-30567.01 — Seq. No.: 00049 — A/S Pos.: 21 — Date: 08/03/95

Replicate 1 — Time: 16:29
Peak Area (A-s): 0.059 — Peak Height (A): 0.057
Background Pk Area (A-s): 0.132 — Background Pk Height (A): 0.127
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 11.80 — Corrected Conc (mg/kg): 2.360

Replicate 2 — Time: 16:32
Peak Area (A-s): 0.055 — Peak Height (A): 0.057
Background Pk Area (A-s): 0.127 — Background Pk Height (A): 0.109
Blank Corrected Pk Area (A-s): -0.037
Concentration (ug/L): 10.78 — Corrected Conc (mg/kg): 2.156

Mean Conc (ug/L): 11.29 — SD: 0.724 — RSD(%): 6.41
Corrected Conc (mg/kg): 2.258

Recovery is 113.1%

Se ID: 648-30568.01 — Seq. No.: 00050 — A/S Pos.: 22 — Date: 08/03/95

Replicate 1 — Time: 16:35
Peak Area (A-s): 0.017 — Peak Height (A): 0.019
Background Pk Area (A-s): 0.153 — Background Pk Height (A): 0.123
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.50 — Corrected Conc (mg/kg): -0.100

Replicate 2 — Time: 16:37
Peak Area (A-s): 0.019 — Peak Height (A): 0.019
Background Pk Area (A-s): 0.155 — Background Pk Height (A): 0.118
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.10 — Corrected Conc (mg/kg): 0.020

Mean Conc (ug/L): -0.20 — SD: 0.425 — RSD(%): 214.5
Corrected Conc (mg/kg): -0.040

Se ID: 648-30568.01 — Seq. No.: 00051 — A/S Pos.: 22 — Date: 08/03/95

Replicate 1 — Time: 16:40
Peak Area (A-s): 0.054 — Peak Height (A): 0.045
Background Pk Area (A-s): 0.162 — Background Pk Height (A): 0.114
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 10.40 — Corrected Conc (mg/kg): 2.081

Replicate 2 — Time: 16:43
Peak Area (A-s): 0.054 — Peak Height (A): 0.053
Background Pk Area (A-s): 0.152 — Background Pk Height (A): 0.107
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 10.61 — Corrected Conc (mg/kg): 2.122

Mean Conc (ug/L): 10.51 — SD: 0.146 — RSD(%): 1.39
Corrected Conc (mg/kg): 2.102

Recovery is 107.1%

Se ID: ACCV — Seq. No.: 00052 — A/S Pos.: 36 — Date: 08/03/95

Replicate 1 — Time: 16:46
Peak Area (A-s): 0.099 — Peak Height (A): 0.098
Background Pk Area (A-s): 0.102 — Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.081
Concentration (ug/L): 23.76 — Corrected Conc (mg/kg): ----------

Replicate 2 — Time: 16:49
Peak Area (A-s): 0.101 — Peak Height (A): 0.098
Background Pk Area (A-s): 0.102 — Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 24.23 — Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 24.00 — SD: 0.336 — RSD(%): 1.40
Corrected Conc (mg/kg): ----------

Se ID: CCB — Seq. No.: 00053 — A/S Pos.: 37 — Date: 08/03/95

Replicate 1 — Time: 16:51
Peak Area (A-s): 0.011 — Peak Height (A): 0.020
Background Pk Area (A-s): 0.087 — Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): -0.007
Concentration (ug/L): -2.18 — Corrected Conc (mg/kg): ----------

Replicate 2 — Time: 16:54
Peak Area (A-s): 0.009 — Peak Height (A): 0.017
Background Pk Area (A-s): 0.085 — Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): -0.009
Concentration (ug/L): -2.66 — Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -2.42 — SD: 0.335 — RSD(%): 13.83
Corrected Conc (mg/kg): ----------

Se ID: Q648-30569.01 — Seq. No.: 00054 — A/S Pos.: 23 — Date: 08/03/95

Replicate 1 Time: 16:57
Peak Area (A-s): 0.017 Peak Height (A): 0.019
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.40 Corrected Conc (mg/kg): -0.080

Replicate 2 Time: 16:59
Peak Area (A-s): 0.022 Peak Height (A): 0.021
Background Pk Area (A-s): 0.101 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.16 Corrected Conc (mg/kg): 0.232

Mean Conc (ug/L): 0.38 SD: 1.104 RSD(%): 290.2
Corrected Conc (mg/kg): 0.076

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Se ID: Q648-30569.01 Seq. No.: 00055 A/S Pos.: 23 Date: 08/03/95

Replicate 1 Time: 17:02
Peak Area (A-s): 0.056 Peak Height (A): 0.065
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 11.04 Corrected Conc (mg/kg): 2.208

Replicate 2 Time: 17:05
Peak Area (A-s): 0.053 Peak Height (A): 0.059
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.092
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 10.12 Corrected Conc (mg/kg): 2.024

Mean Conc (ug/L): 10.58 SD: 0.650 RSD(%): 6.15
Corrected Conc (mg/kg): 2.116

Recovery is 102.0%

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Se ID: Q648-30569.D Seq. No.: 00056 A/S Pos.: 24 Date: 08/03/95

Replicate 1 Time: 17:08
Peak Area (A-s): 0.025 Peak Height (A): 0.023
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.099
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.10 Corrected Conc (mg/kg): 0.421

Replicate 2 Time: 17:10
Peak Area (A-s): 0.021 Peak Height (A): 0.021
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.92 Corrected Conc (mg/kg): 0.184

Mean Conc (ug/L): 1.51 SD: 0.839 RSD(%): 55.52
Corrected Conc (mg/kg): 0.302

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Se ID: Q648-30569.D Seq. No.: 00057 A/S Pos.: 24 Date: 08/03/95
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Replicate 1 Time: 17:13
Peak Area (A-s): 0.060 Peak Height (A): 0.064
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 12.33 Corrected Conc (mg/kg): 2.465

Replicate 2 Time: 17:16
Peak Area (A-s): 0.055 Peak Height (A): 0.072
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.104
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 10.71 Corrected Conc (mg/kg): 2.142

Mean Conc (ug/L): 11.52 SD: 1.144 RSD(%): 9.93
Corrected Conc (mg/kg): 2.303

Recovery is 100.1%

Se ID: Q648-30569.S Seq. No.: 00058 A/S Pos.: 25 Date: 08/03/95

Replicate 1 Time: 17:18
Peak Area (A-s): 0.051 Peak Height (A): 0.054
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.099
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 9.53 Corrected Conc (mg/kg): 1.905

Replicate 2 Time: 17:21
Peak Area (A-s): 0.053 Peak Height (A): 0.052
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.103
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 10.15 Corrected Conc (mg/kg): 2.030

Mean Conc (ug/L): 9.84 SD: 0.442 RSD(%): 4.49
Corrected Conc (mg/kg): 1.968

Se ID: Q648-30569.S Seq. No.: 00059 A/S Pos.: 25 Date: 08/03/95

Replicate 1 Time: 17:24
Peak Area (A-s): 0.084 Peak Height (A): 0.102
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.066
Concentration (ug/L): 19.34 Corrected Conc (mg/kg): 3.869

Replicate 2 Time: 17:26
Peak Area (A-s): 0.085 Peak Height (A): 0.096
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L): 19.68 Corrected Conc (mg/kg): 3.937

Mean Conc (ug/L): 19.51 SD: 0.240 RSD(%): 1.23
Corrected Conc (mg/kg): 3.903

Recovery is 96.7%

Se ID: LCSS 8-1 #2 Seq. No.: 00060 A/S Pos.: 26 Date: 08/03/95

LCSS1

Replicate 1 Time: 17:29
Peak Area (A-s): 0.047 Peak Height (A): 0.045
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 8.44 Corrected Conc (mg/kg): 33.75

Replicate 2 Time: 17:32
Peak Area (A-s): 0.048 Peak Height (A): 0.050
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 8.75 Corrected Conc (mg/kg): 35.00

Mean Conc (ug/L): 8.59 SD: 0.221 RSD(%): 2.57
Corrected Conc (mg/kg): 34.37

Se ID: LCSS 8-1 #2 Seq. No.: 00061 A/S Pos.: 26 Date: 08/03/95

Replicate 1 Time: 17:34
Peak Area (A-s): 0.083 Peak Height (A): 0.092
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 18.93 Corrected Conc (mg/kg): 75.71

Replicate 2 Time: 17:37
Peak Area (A-s): 0.085 Peak Height (A): 0.082
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L): 19.62 Corrected Conc (mg/kg): 78.47

Mean Conc (ug/L): 19.27 SD: 0.488 RSD(%): 2.53
Corrected Conc (mg/kg): 77.09

Recovery is 106.8%

Se ID: ACCV Seq. No.: 00062 A/S Pos.: 36 Date: 08/03/95

Replicate 1 Time: 17:40
Peak Area (A-s): 0.101 Peak Height (A): 0.098
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 24.26 Corrected Conc (mg/kg): ----------

Replicate 2 Time: 17:42
Peak Area (A-s): 0.104 Peak Height (A): 0.101
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 25.10 Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): 24.68 SD: 0.596 RSD(%): 2.42
Corrected Conc (mg/kg): ----------

Replicate 1
Peak Area (A-s): 0.019
Background Pk Area (A-s): 0.081
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.32

Time: 17:45
Peak Height (A): 0.022
Background Pk Height (A): 0.057
Corrected Conc (mg/kg): ----------

Replicate 2
Peak Area (A-s): 0.013
Background Pk Area (A-s): 0.086
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -1.68

Time: 17:48
Peak Height (A): 0.017
Background Pk Height (A): 0.062
Corrected Conc (mg/kg): ----------

Mean Conc (ug/L): -0.68
Corrected Conc (mg/kg): ----------

SD: 1.413 RSD(%): 207.9

Project No. _____

Book No. 997 TITLE _____ Run #1

om Page No. _____ Hg

eat Performed: _____

ethod Number: _____

ate: 9-3-96

ork Performed By: MAH

stds rack in at 8:00 am, out at 9:00 am, 95°C
CCV/CCB rack in at 9:00 am, out at 9:30 am, 95°C.
RACK I in at 11:00 am, out at 11:30 am, 95°C

ob No.	ID No.	Vial	Peak	Conc.	DF	Amt	Units	Final Conc.	
	Blank		0						r = 0.99993
	0.5		11						y = 19.6x + 0.59
	1.0		21						x = -0.03
	5.0		97						
	10.0		197						
Time: 1530	ICV		99	5.03		100 mL	ug/L	5.03	V=5.0; 101% Rec
1532	ICB		0	<0.20				<0.20	
1534	CCV		22	1.09				1.09	
1536	CCB		0	<0.20				<0.20	
	CRA		5	0.225				0.225	
PBS1	PBS		0	<0.20		0.20g	ug/kg	<0.10	
LCSS1	LCSS		68	3.44	2	0.04g	mg/kg	17.22	LOT# 221 T=2.57 range 9.48-34.7
RACK I									
9501648	30006.01	16	6	<0.20		0.20g	mg/kg	<0.10	RH1SB
	30007.01	17	0	<0.20				<0.10	RH1SG
	30008.01	28	0	<0.20				<0.10	RH2SG
	30009.01	80	0	<0.20				<0.10	RH2SB
	30010.01	90	0	<0.20				<0.10	BES1SP
	30011.01	99	0	<0.20				<0.10	BES1SB
	30012.01	227	0	<0.20				<0.10	BES1SG
Time: 1620	CCV		23	1.14		100 mL	ug/L	1.14	
1622	CCB		0	<0.20				<0.20	
9501648	30013.01	60	2	<0.20		0.20g	mg/kg	<0.10	BPSP
	30014.01	236	1	<0.20				<0.10	BPSG
	30015.01	213	2	<0.20				<0.10	BPSB
	30016.01	77	1	<0.20				<0.10	RH3SB
	30017.01	101	2	<0.20				<0.10	RH3SG

To Page No. 171

Witnessed & Understood by me, _____ Date 9/3/96

Invented by _____ Date 9-2-96

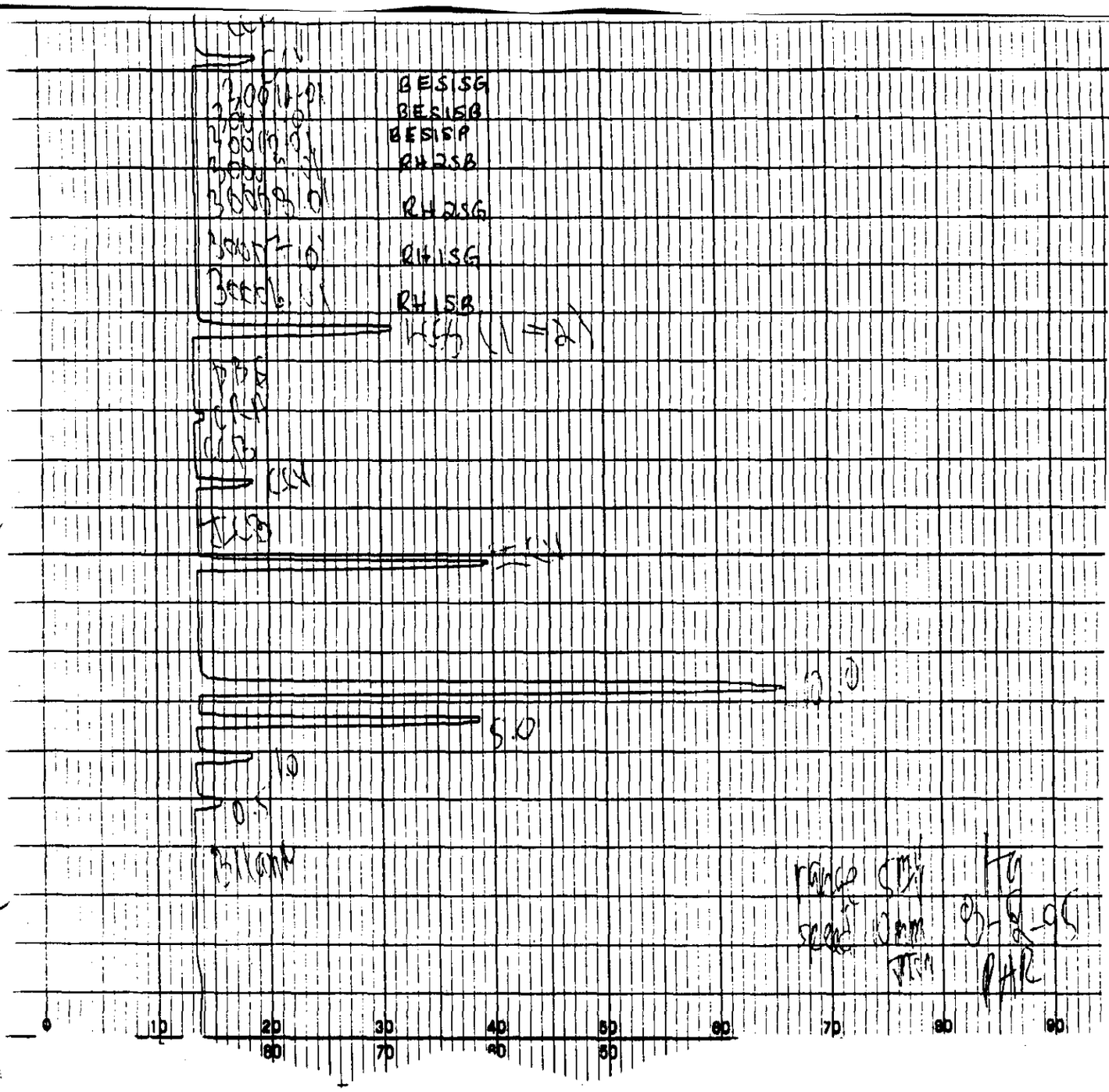
Recorded by PAR

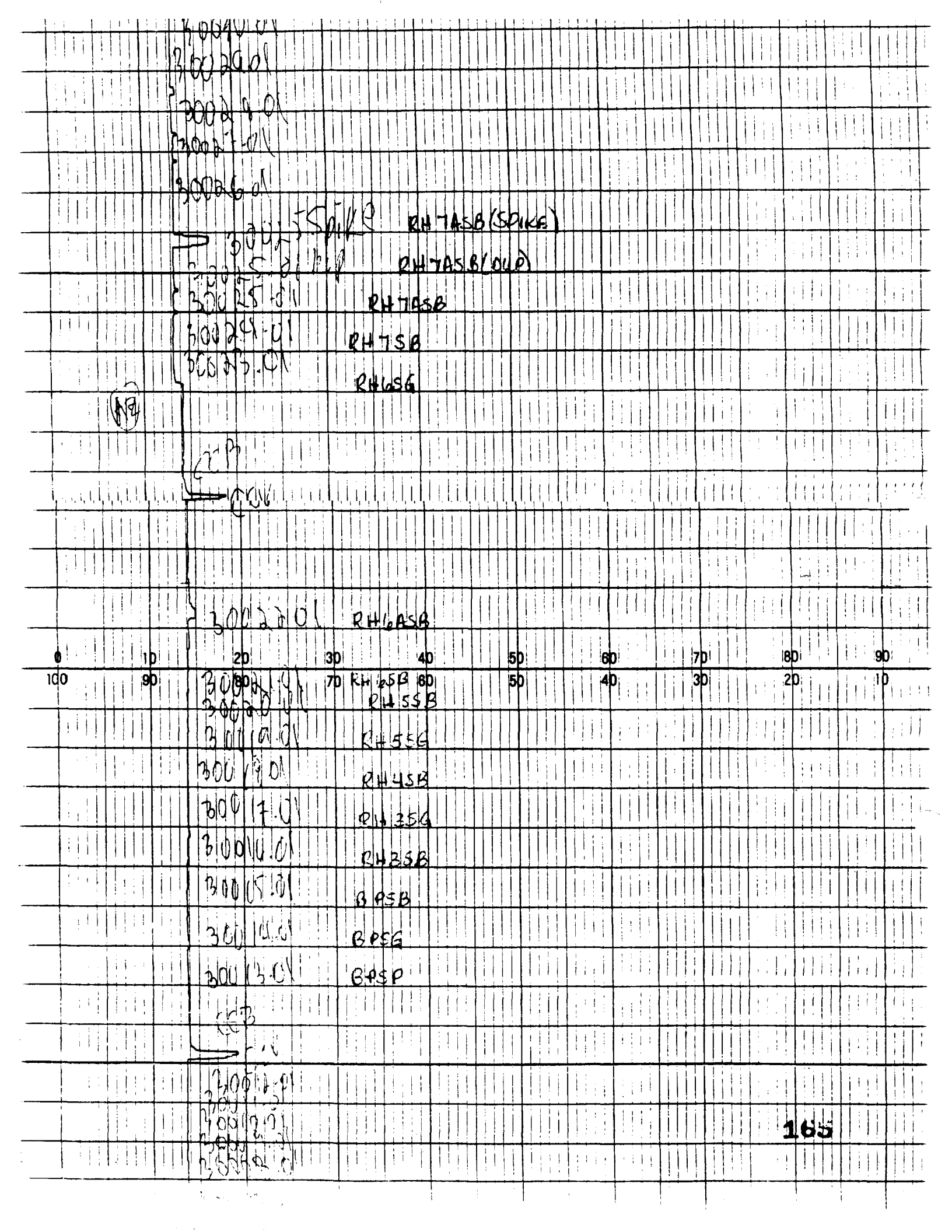
From Page No. 196 Hg ICP RACK II inst. 11:00am; out @ 11:30am, 95°C.
Test Perform:
Method:
Date: 8-2-95
Work Perform: DHC

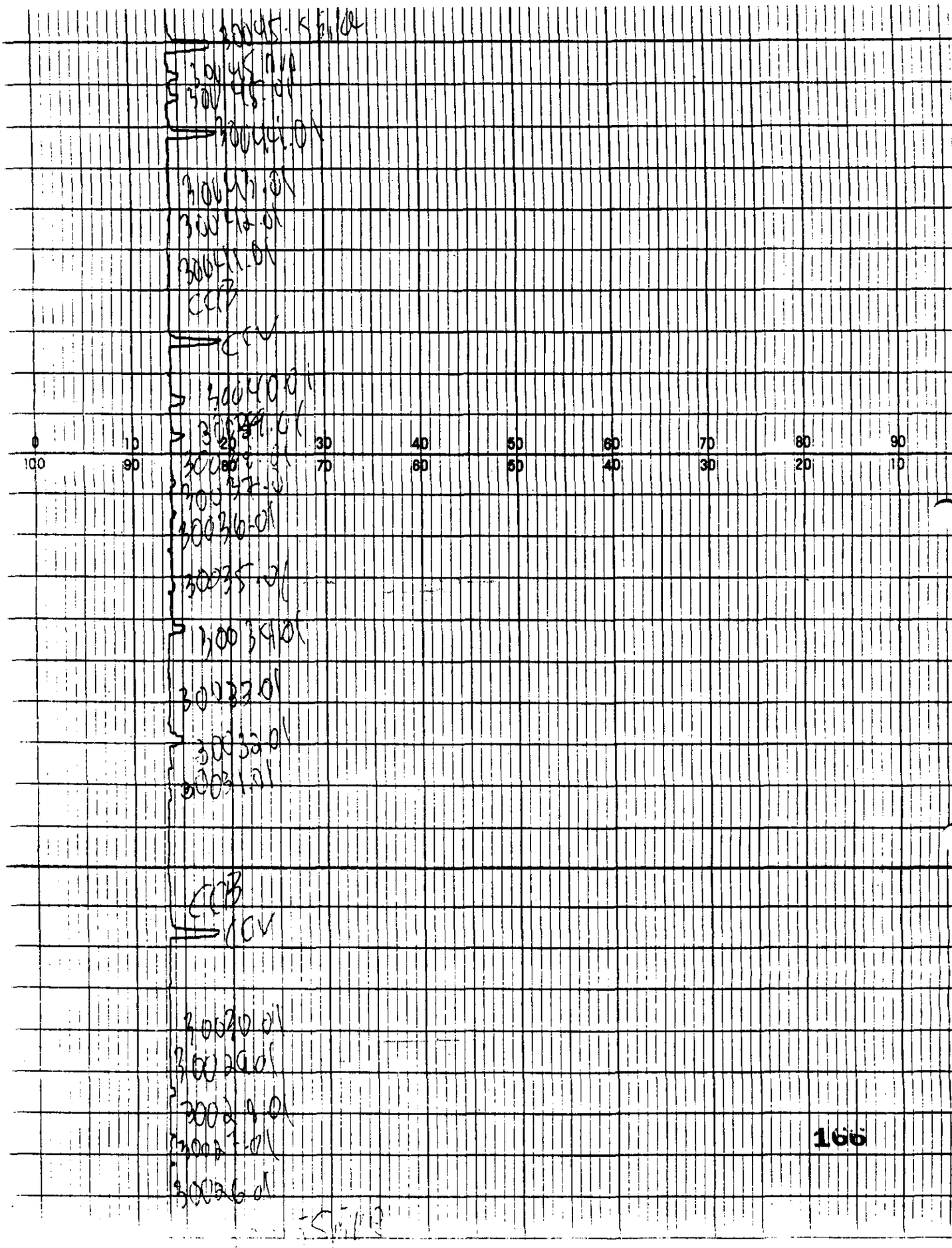
Job No. / ID No.			Level	Conc	DF	Amt	Unit	Final conc	
RACK II									
9501.648	30018.01	257	1	<0.20		0.2	mg/kg	<0.10	RH4SB
	30019.01	105	2	<0.20				<0.10	RH5SG
	30020.01	152	2	<0.20				<0.10	RH5SB
	30021.01	203	3	<0.20				<0.10	RH6SB
	30022.01	254	8	0.378				0.189	RH6ASB
time: 1624	CCV		22	1.14		100ml	mg/l	1.14	
1626	CCB		0	<0.20				<0.20	
9501.648	30023.01	305	1	<0.20		0.2	mg/kg	<0.10	RH6SG
	30024.01	53	2	<0.20				<0.10	RH7SB
	30025.01	75	2	<0.20				<0.10	RH7ASB
RH7ASB	30025.D	38	1	<0.20				<0.10	RPD = 10% (DUP)
RH7ASB	30025.S	216	17	0.938				0.419	$\frac{0.419}{0.50} \times 100 = 84\%$ (SPIKE)
	30026.01	230	1	<0.20				<0.10	
	30027.01	209	2	<0.20				<0.10	
RACK III	30028.01	267	1	<0.20				<0.10	
	30029.01	316	1	<0.20				<0.10	
	30030.01	359	1	<0.20				<0.10	
time: 1648	CCV		23	1.14		100ml	mg/l	1.14	
1650	CCB		0	<0.20				<0.20	
	30031.01	57	1	<0.20		0.2	mg/kg	<0.20	
	30032.01	351	8	0.378				0.189	
	30033.01	395	2	<0.20				<0.20	
	30034.01	7	9	0.429				0.215	
	30035.01	370	4	0.174				<0.10	

To Page No. 178

Witnessed & Understood by me, KAN Date 8/3/95 Invented by Recorded by PAR Date 8-2-95


BES1SG
BES1SB
BES1SP
RH2SB
RH2SG
RH1SG
RH1SB
0
10
20
30
40
50
60
70
80
90


RH7ASB (SPIKE)
RH7ASB (OLD)
RH7ASB
RH7SB
RH6SG
RH6ASB
RH5SB
RH5SG
RH4SB
RH3SG
RH3SB
BASB
BPSG
BPSP


0 10 20 30 40 50 60 70 80 90
100 90 80 70 60 50 40 30 20 10

[redacted]

Test Performed: METALS DIGESTION
Date: 8-1-95
Work Performed by: J. SEYMORE

Job Number	ID Number	pH (1 - 14)	Color	Clarity	Texture	Artifacts	Digestion Code (ICP)	Digestion Code (HGA)	Initial Weight or Volume	Final Weight or Volume	Color (Final)	Clarity (Final)	
9501648	30006.01						21	22	1.00	200ml	Y	C	RH1SB
	30007.01												RH1SG
	30008.01												RH2SG
	30009.01												RH2SB
	30010.01												BES1SP
	30011.01												BES1SB
	30012.01												BES1SG
	30013.01												BPSP
	30014.01												BPSG
	30015.01												BPSB
	30016.01												RH3SB
	30017.01												RH3SG
	30018.01												RH4SB
	30019.01												RH5SG
	30020.01												RH5SB
	30021.01												RH6SB
	30022.01												RH6ASB
	30023.01												RH6SG
	30024.01												RH7SB
	30025.01												RH7ASB
	30026.01 DUP												RH7ASB (DUP)
	30025.01 SPIKE Δ 7												RH7ASB (SPIKE
LRB1	PBS 1006 # 1												
LCS1	LCSS # 1												
LRB2	PBS 1006 # 2						22	22					
LCS2	LCSS # 2												
	30024.01						21	22					
	30027.01												
	30028.01												

Comments:

BALANCE MODEL
CALIBRATION SERIAL #
0.50g =
1.00g =
2.00g =

Circle one reference

REFERENCE	METHOD		
CLP			
SW846	3050 (SOLIDS)	3010 (ICP-WATER)	3020 (FURNACE-WATER)
OTHER	A added 2.0 ml of ICP spike (927-73) F added 2.0 ml of GFAA spike (1001-7-2)		

Approved by: [redacted] Date: 8/4/95

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recycled paper ecology and environment 0131191

METALS DIGESTION/EXTRACTION CODES

01 E.P. TOX Extraction Met
02 E.P. TOX Extraction Organics
03 E. P. TOX Extraction Miscellaneous
04 E.P. TOX Digestion ICP
05 TCLP Extraction Metals
06 TCLP Extraction Organics
07 TCLP ZHE Extraction Purgeables
08 TCLP Digestion ICP
09 California Wet Test Extraction Metals
10 California Wet Test Extraction Organics
11 California Wet Test Digestion/ICP
12 Metals Available ICP
13 E.P. TOX Cr +6
14 MMWEP Extraction Metals
15 MMWEP Extraction Wet Chem.
16 MMWEP Digestion ICP
17 MMWEP Digestion Furnace
18 Cal. Wet Test Cr +6
19 TCLP Cr +6
20
21 ICP/Flame
22 Furnace
23 CR +6
24 Total Recoverable ICP
25 Total Recoverable Furnace
26 Soluble Metals ICP
27 Soluble Metals Furnace
28 Metals on Air Filters
29 Miscellaneous

COLOR CODES

R Red
O Orange
G Green
Y Yellow
B Blue
BR Brown
BK Black
CL Clear

CLARITY CODES (LIQUID)

CL Cloudy
C Clear

TEXTURE CODES (SOLID)

H Homogeneous
M Mixture
F Fine Soil
G Granular Soil
SL Sludge
CY Clay
SD Sand

COMMENTS

1 Reactive
2 Effervescent
3 Phase Change
4 Precipitation
5 Other (Explain)

ARTIFACTS

1 Rocks
2 Sticks, Leaves
3 Shavings
4 Other (Explain)