bec laboratories, inc.

US EPA RECORDS CENTER REGION 5
436298

Headquarters/
Laboratory
705 front street
toledo, ohio 43605
phone (419) 693-5307
fax: (419) 691-0418

Environmental
Laboratory
1632 enterprise parkway
twinsburg, ohio 44087
phone: (216) 425-8200
fax: (216) 425-1349

Sales Office
129 dixie way south
south bend, indiana 46637
phone: (219) 272-2200

Sales Office
77 west elmwood drive
suite 123
dayton, ohio 45459
phone (513) 438-1711

Medical Products Division
615 front street
toledo, ohio 43605
phone: (419) 693-5307
fax: (419) 691-1227

October 25, 1996

Ecology and Environment, Inc.
6777 Engle Road
Cleveland, OH 44130

ATTN.: Mr. Dave Hendren

RE: QA II Documentation for KJ5100/S05-9610-805

Dear Mr. Hendren:

Enclosed is the QA II documentation requested for Project Name S05-9610-805 Project Number KJ5100 (B.E.C. Sample number 96T14933 through 96T14944).

If you have any further questions regarding the Quality Control data please do not hesitate to contact me at 1-419-693-5307.

Sincerely,

John F. Blair

John F. Blair
Quality Assurance Manager

Enclosures

QA II Documentation

Project : S05-9610-805

Project Number: KJ5100

General Chemistry & Metals Analysis

Prepared for:
Ecology & Environment, Inc.
6777 Engle Road
Cleveland, OH 44130

ATTN: Mr. Dave Hendren

Submitted by:
B.E.C. Laboratories, Inc.
705 Front Street
Toledo, Ohio 43605

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SECTION I
Narrative

Narrative
Ecology & Environment Inc.

Project: KJ5100 505-9610-805

BEC Sample Numbers 96T14933 to 96T14944

I. Chain of Custody

1) Samples were hand delivered in a cardboard box at ambient temperature.

2) Chain of Custody accompanied the samples and was properly filled out.

3) Chain of Custody seals were not used for this project.

4) Copies of the Chain of Custody can be found in section II of this document.

5) Copies of the analytical reports can be found in section III of this document.

II. pH Analysis

1) Due to the nature of these samples it was necessary to add water to determine the pH in all cases.

2) All pH's were either very high or very low.

3) pH meter calibration for 10/15/96 is included. Due to the low and high reading the meter was also checked @ a pH of 1.00 and 13.00 and found to be in calibration.

III. Cyanide & Reactive Cyanide & Flash Point

1) This analysis was run on two of the samples.

2) Batch Q.C. for total Cyanide showed a method blank of less than 0.1 mg/kg, method spike 82.2% recovery, duplicate results of 2.79 and 2.82 mg/kg for an RPD of 1.07% and a matrix spike recovery of 100.1%.

3) Batch Q.C. for Reactive Cyanide showed a method blank of less than 0.1 mg/kg, method spike 22.3% recovery, duplicate results of less than 0.1 mg/kg and a matrix spike recovery of 0.6%. Although these recoveries are low this is not unusual for Reactive Cyanide analysis.

4) Flash point was run on 96T14942 with a result of less than 74 degrees F p-xylene was analyzed on the instrument with a result of 79 degrees F which is within the 80 degree F +/- 1.5 degree F limits.

IV. Chloride Analysis

1) This was run on samples 96T14934 and 96T14936.

2) Batch Q.C. gave the following results: Method Blank less than 1 mg/L, method spike 108/4%, duplicates 19, 19 mg/l for an RPD of 0.0% and a matrix spike recovery of 107.1%.

3) Large dilutions were also necessary for this analyte due to high level of Chloride content.

V. Sulfate Analysis

1) This was run on sample number 96T14933.

2) Batch Q.C. gave the following results: Method Blank less than 2 mg/l, method spike 96.7%, duplicates 1720, 1740 mg/l for an RPD of 1.16% and a matrix spike of 95.5%.

3) As for other analytes dilution was necessary due to the high level of sulfate in the sample.

VI. Metals Analysis

1) Sample 96T14939 was run for Total Cr, Ni, and Zn. Dilution was necessary for Zn analysis.

2) ICP curves are included.

3) Batch Q.C. was as follows:

Element	Method Blank	Method Spike	R1 mg/kg	R2 mg/kg	RPD	Matrix Spike
Cr	< 0.05	81.1%	3.5	3.1	12.5%	77.6%
Ni	< 0.05	92.3%	5.8	4.8	18.9%	71.6%
Zn	< 0.05	85.5%	8.6	8.3	3.6%	75.1%

4) Printouts for the actual sample analysis are included.

Approved: John F. Blair Date: 10/25/96

Title: Qual. Assur. Manager

Section II
Chain of Custody

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

Activity Code:

PROJ. NO.: KJ5100
PROJECT NAME: 505-9610-805

SAMPLERS: (Print Name and Sign) KAREN M. WALDRON / Karen M Waldron

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS 16-oz	pH	Sulfate	Chloride	Flashpoint	Total Ni, Cr, Zn	Total Reactive CN	TAG NUMBERS	MATRIX
D01	10/11/96	1000		X	DRUM 01 - Room 1	1	X	X					96T14933	LIQUID
D02	10/11/96	1010		X	DRUM 02 - Room 1	1	X		X				934	LIQUID
D03	10/11/96	1012		X	DRUM 03 - Room 1	1	X						935	LIQUID
D04	10/11/96	1015		X	DRUM 04 - Room 1	1	X		X				936	LIQUID
V05	10/11/96	1018		X	Vat 05 - Room 1	1	X						937	LIQUID
V06	10/11/96	1021		X	Vat 06 - Room 1	1	X						938	LIQUID
V07	10/11/96	1025		X	Vat 07 - Room 1	1					X		939	SOLID
V08	10/11/96	1115		X	Vat 08 - Room 2	1						X	940	LIQUID
V09	10/11/96	1120		X	Vat 09 - Room 2	1	X						941	LIQUID
D10	10/11/96	1130		X	DRUM 10 - Room 3	1				X			942	LIQUID
D11	10/11/96	1145		X	DRUM 11 - Room 3	1						X	943	SOLID
V12	10/11/96	1200		X	VAT 12 - Room 3	1	X						944	LIQUID

Turnaround: 14 day Verbal, 21 day hard copy

Attn: Dave Hendren
ph: 312-578-9243
Fax: 312-663-0791

Ecology & Environment, Inc.
33 N. Dearborn Ste 900
Chicago IL 60602

Send Invoice To Dave Hendren

Results to Clev. OH. Per Dave H. at Ecology & Envir. AMT 10/15/96

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	10/15/96 8:47	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) / Date / Time
		[signature] 10/15/96 8:47a.m.

Ship To:
BEC Labs
705 Front Street
Toledo OH 43605
ATTN: N. HuFF (419-693-5307)

Airbill Number

Chain of Custody Seal Numbers

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

5-41516

SECTION III
Analytical Results

Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14933
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Drum 01 - Room 1 - Station # D01 - 10/11/96 @ 1000

RESULTS:

ANALYTE	METHOD	RESULT
Sulfate	SW-846, 9038	820,000 mg/Kg
pH in 10% S.U.	EPA-600, 150.1	less than 1 *

* Due to the characteristics of the sample it was necessary to add water for pH determination.

date completed:	tech:	approved by:
10/16/96	[illegible]	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14934
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Drum 02 - Room 1 - Station # D02 - 10/11/96 @ 1010

RESULTS:

ANALYTE	METHOD	RESULT
pH in 10% S.U.	SW-846, 9040	less than 1 *
Total Chloride	SW-846, 9252	380,000 mg/L

* Due to sample characteristics it was necessary to add water for the pH determination.

date completed	tech	approved by
10/18/96	LEY/TT	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14935
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Drum 03 - Room 1 - Station # D03 - 10/11/96 @ 1012

RESULTS:

ANALYTE	METHOD	RESULT
pH in 10% S.U.	SW-846, 9040A	greater than 13 *

* Due to the characteristics of the sample it was necessary to add water for the pH determination.

date completed:	tech:	approved by:
10/15/96	CSY	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14936

p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Drum 04 - Room 1 - Station # D04 - 10/11/96 @ 1015

RESULTS:

ANALYTE	METHOD	RESULT
pH in 10% S.U.	EPA-600, 150.1	11.67 *
Total Chloride	SW-846, 9252	170,000 mg/L

* Due to sample characteristics it was necessary to add water for the pH determination.

date completed:	tech:	approved by:
10/15/96	CEY/CJT	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14937
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Vat 05 - Room 1 - Station # V05 - 10/11/96 @ 1018

RESULTS:

ANALYTE	METHOD	RESULT
pH in 10% S.U.	SW-846, 9040A	12.67 *

* Due to the characteristics of the sample it was necessary to add water for the pH determination.

date completed:	tech:	approved by:
10/15/96	[illegible]	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14938
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Vat 06 - Room 1 - Station # V06 - 10/11/96 @ 1021

RESULTS:

ANALYTE	METHOD	RESULT
pH in 10% S.U.	SW-846, 9040A	less than 1 *

* Due to the characteristics of the sample it was necessary to add water for the pH determination.

date completed:	tech:	approved by:
10/15/96	[illegible]	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14939
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - solid - Vat 07 - Room 1 - Station # V07 - 10/11/96 @ 1025

RESULTS:

ANALYTE	METHOD	RESULT
Total Chromium	SW-846, 6010A	49 mg/Kg
Total Nickel	SW-846, 6010A	43 mg/Kg
Total Zinc	SW-846, 6010A	10,000 mg/Kg

date completed:	tech:	approved by:
10/21/96	BSD/EHS	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14940
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Vat 08 - Room 2 - Station # V08 - 10/11/96 @ 1115

RESULTS:

ANALYTE	METHOD	RESULT
Total Cyanide	SW-846, 9010	6500 mg/Kg
Reactive Cyanide	SW-846, 7.3.3.2	less than 0.1 mg/Kg

date completed:	tech:	approved by:
[illegible]	CSY/EMV	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14941
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Vat 09 - Room 2 - Station # V09 - 10/11/96 @ 1120

RESULTS:

ANALYTE	METHOD	RESULT
pH in 10% S.U.	SW-846, 9040A	less than 1 *

* Due to the characteristics of the sample it was necessary to add water for the pH determination.

date completed:	tech:	approved by:
10/15/96	CSY	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14942

p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Drum 10 - Room 3 - Station # D10 - 10/11/96 @ 1130

RESULTS:

ANALYTE	METHOD	RESULT
Flash Point - SETAFLASH	SW-846, 1020	less than 74°F

date completed:	tech:	approved by:
10/15/96	LMV	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14943
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - solid - Drum 11 - Room 3 - Station # D11 - 10/11/96 @ 1145

RESULTS:

ANALYTE	METHOD	RESULT
Total Cyanide	SW-846, 9010	53,000 mg/Kg
Reactive Cyanide	SW-846, 7.3.3.2	470 mg/Kg

date completed:	tech:	approved by:
10/16/96	[illegible]	

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Ecology and Environment, Inc.
6777 Engle Road

Cleveland, OH 44130
ATTN: Dave Hendren

HEADQUARTERS/LABORATORY
705 FRONT STREET
TOLEDO, OHIO 43605
PHONE: (419) 693-5307
FAX: (419) 691-0418

ENVIRONMENTAL LABORATORY
1632 ENTERPRISE PARKWAY
TWINSBURG, OHIO 44087
PHONE: (216) 425-8200
FAX: (216) 425-1349

lab no. 96T14944
p.o. no.

rev: 0

SAMPLE
DESCRIPTION: Project # KJ5100 - S05-9610-805 - grab - liquid - Vat 12 - Room 3 - Station # V12 - 10/11/96 @ 1200

RESULTS:

ANALYTE	METHOD	RESULT
pH in 10% S.U.	SW-846, 9040A	less than 1 *

* Due to the characteristics of the sample it was necessary to add water for the pH determination.

date completed:	tech:	approved by:
10/15/96	CSY	

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SECTION IV
Metals Raw Data & QC Data

Quality Control Data
Total Metals

Client:	Ecology & Environment, Inc.	**Date Sampled :**	10/11/96*
Project:	S05-9610-805	**Date Received :**	10/15/96
Project Number:	KJ5100	**Date Analyzed :**	10/17/96
Sample No.:	Vat 07 – Room 1 – Station #V07		
B.E.C. Sample No.:	96T14939		
Batch #:	MET 76-41		

Metals	Units	Method Blank mg/l	Method Spike **	Duplicate R1	Duplicate R2	RPD	Matrix Spike
Chromium	mg/kg	LT 0.05	81.1%	3.5	3.1	12.5%	77.6%
Nickel	mg/kg	LT 0.05	92.3%	5.8	4.8	18.9%	71.6%
Zinc	mg/kg	LT 0.05	85.5%	8.6	8.3	3.6%	75.1%

* Date per Chain-of-Custody
LT – Less than
NA – RPD results are not applicable when duplicate results are below the detection limit.
** Method Spike is a lab characterized imitation soil.

Approved: J. F. Blair

Date: 10/25/96

me	Conc.	Units	SD/RSD	1	2	3	4	5
< Sample ID: 96T14939/3 10-16-96 Seq: 497 17:17:43 16 Oct 1996 ICP								
g1	.024	PPM	.003	.020	.025	.027	.023	
2	.031	PPM	.047	.055	-.039	.062	.047	
2	.001	PPM	.000	.001	.001	.000	.001	
a1	.190	PPM	.001	.191	.189	.190	.190	
d1	.041	PPM	.002	.044	.040	.040	.040	
1	.012	PPM	.004	.006	.016	.012	.014	
Cr4	1.11	PPM	.007	1.12	1.10	1.11	1.12	
b1	.229	PPM	.012	.219	.233	.245	.221	
1	.608	PPM	.005	.609	.607	.603	.614	
1	-.051	PPM	.033	-.027	-.097	-.054	-.027	
l1	.029	PPM	.039	.079	-.000	.042	-.003	
Ni3	.975	PPM	.011	.979	.974	.961	.987	
1	.025	PPM	.015	.044	.030	.009	.017	
2	-.006	PPM	.004	-.011	-.006	-.003	-.004	
u1	32.3	PPM	.237	32.3	32.1	32.2	32.7	
2	91.9	PPM	.529	92.1	91.5	91.5	92.6	
n1	191.	PPM	.907	192.	190.	191.	192.	
l3	1.72	PPM	.014	1.72	1.72	1.70	1.74	
2	3290	PPM	33.1	3340	3290	3260	3270	
3	23.9	PPM	.151	23.9	23.8	23.7	24.1	
g4	6.60	PPM	.053	6.60	6.63	6.53	6.66	
1	6.38	PPM	.448	6.28	5.99	6.21	7.02	
1	.476	PPM	.012	.481	.473	.489	.462	

Sample ID: 96T14939 10-17-96 Seq: 564 11:10:18 17 Oct 1996 ICP
1/160

e	Conc	Units	SD/RSD	1	2	3	4	5
g1	-.007	PPM	.006	-.008	-.008	-.012	.001	
[illegible]	-.006	PPM	.073	.061	-.104	.037	-.019	
[illegible]	-.000	PPM	.000	.000	-.001	-.001	-.000	
a1	-.002	PPM	.000	-.002	-.002	-.003	-.002	
[illegible]	.001	PPM	.000	.002	.001	.001	.002	
[illegible]	.001	PPM	.004	-.003	.006	.000	-.001	
[illegible]4	.022	PPM	.002	.019	.023	.024	.022	
[illegible]	.022	PPM	.027	.016	.055	-.009	.026	
[illegible]	.012	PPM	.001	.011	.011	.011	.013	
[illegible]	.020	PPM	.017	.002	.042	.017	.019	
l1	-.011	PPM	.067	-.087	-.018	.076	-.015	
[illegible]	.023	PPM	.002	.025	.023	.023	.021	
[illegible]	.034	PPM	.072	.009	-.055	.076	.107	
2	-.003	PPM	.003	-.006	-.002	-.001	-.001	
[illegible]	.690	PPM	.011	.674	.698	.692	.697	
[illegible]	1.86	PPM	.053	1.78	1.86	1.87	1.91	
Zn1	4.47	PPM	.064	4.38	4.48	4.50	4.52	
l3	.028	PPM	.015	.048	.011	.026	.027	
[illegible]	90.9	PPM	1.41	88.8	91.2	91.3	92.1	
[illegible]	.697	PPM	.025	.730	.668	.699	.692	
g4	.208	PPM	.025	.227	.192	.233	.182	
	.093	PPM	.390	-.425	.067	.225	.505	
[illegible]	.014	PPM	.015	.006	.027	-.002	.026	

SectionV
Metals ICP Calibration Curves

.E.C. Laboratories Folder: pripl198 Page 1
14:59:25 16 Oct 1996 Protocol: priorplt

Line	Conc.	Units	SD/RSD	1	2	3	4	5

** Peak Seq: 446 14:59:25 16 Oct 1996

XAp = 215 YAp = 141 Intensity = 7402824

** Peak Seq: 447 15:00:02 16 Oct 1996

XAp = 215 YAp = 141 Intensity = 7409364

.E.C. Laboratories Folder: pripl198 Page 2
15:13:10 16 Oct 1996 Protocol: priorplt

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 448		15:13:10 16 Oct 1996 ICP		
As2	.000	PPM		167	637	783	79	
			Ave. Int. =	417	S. D. =	346		
B 2	.000	PPM		-2209	-585	135	-3443	
			Ave. Int. =	-1526	S. D. =	1611		
Ba1	.000	PPM		108023	98199	108125	97389	
			Ave. Int. =	102934	S. D. =	5945		
C 1	.000	PPM		-1811	-8795	-2611	415	
			Ave. Int. =	-3201	S. D. =	3943		
Ca1	.000	PPM		631	1491	1797	-121	
			Ave. Int. =	950	S. D. =	868		
Cr4	.000	PPM		127	-5423	-703	-4505	
			Ave. Int. =	-2626	S. D. =	2747		
F 1	.000	PPM		-643	-241	373	-2065	
			Ave. Int. =	-644	S. D. =	1035		
Mn1	.000	PPM		5173	8307	19075	11077	
			Ave. Int. =	10908	S. D. =	5955		
S 1	.000	PPM		-263	939	815	1455	
			Ave. Int. =	737	S. D. =	722		
Tl1	.000	PPM		-137	395	215	-317	
			Ave. Int. =	39	S. D. =	324		
Ni3	.000	PPM		4509	517	2295	1679	
			Ave. Int. =	2250	S. D. =	1677		
S 1	.000	PPM		261	599	895	903	
			Ave. Int. =	665	S. D. =	304		
V 2	.000	PPM		141557	130133	139771	133773	
			Ave. Int. =	136309	S. D. =	5295		
C 1	.000	PPM		6067	-861	-71	545	
			Ave. Int. =	1420	S. D. =	3151		
Fe2	.000	PPM		14161	19081	32729	16641	
			Ave. Int. =	20653	S. D. =	8297		
Zn1	.000	PPM		2533	797	2781	3341	
			Ave. Int. =	2363	S. D. =	1097		
A 3	.000	PPM		12111	7345	12033	9735	
			Ave. Int. =	10306	S. D. =	2261		
Na2	.000	PPM		-2831	-3887	-8085	-5895	
			Ave. Int. =	-5175	S. D. =	2319		
C 3	.000	PPM		33976	29000	39898	32186	
			Ave. Int. =	33765	S. D. =	4577		
Mg4	.000	PPM		24925	23597	26629	24237	
			Ave. Int. =	24847	S. D. =	1306		
K 1	.000	PPM		-1419	-1825	-1569	-1927	
			Ave. Int. =	-1685	S. D. =	233		
Mo1	.000	PPM		1495	855	1965	1557	
			Ave. Int. =	1468	S. D. =	459		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 2				Seq: 449		15:14:04 16 Oct 1996 ICP		
As2	.000	PPM		-49	-785	229	-389	
			Ave. Int. =	-249	S. D. =	438		
Be2	.000	PPM		-4561	-3339	-2315	-2145	
			Ave. Int. =	-3090	S. D. =	1113		
Ba1	.000	PPM		109989	105887	100735	104013	
			Ave. Int. =	105156	S. D. =	3862		
Cd1	.000	PPM		-5081	-7227	-9067	-8571	
			Ave. Int. =	-7487	S. D. =	1782		
Co1	.000	PPM		-355	373	811	-665	
			Ave. Int. =	41	S. D. =	673		
Cr4	.000	PPM		-4815	943	-4537	-10881	
			Ave. Int. =	-4823	S. D. =	4831		
Pb1	.000	PPM		-225	-411	-35	-2219	
			Ave. Int. =	-723	S. D. =	1009		
Mn1	.000	PPM		14691	15125	13517	10955	
			Ave. Int. =	13572	S. D. =	1872		
Sb1	.000	PPM		1179	313	713	-173	
			Ave. Int. =	508	S. D. =	576		
Tl1	.000	PPM		169	-425	31	-385	
			Ave. Int. =	-153	S. D. =	297		
Ni3	.000	PPM		5085	2877	2109	3051	
			Ave. Int. =	3281	S. D. =	1271		
Se1	.000	PPM		687	653	679	455	
			Ave. Int. =	619	S. D. =	110		
V 2	.000	PPM		131645	133211	137457	134691	
			Ave. Int. =	134251	S. D. =	2473		
Cu1	.000	PPM		-867	373	1921	2299	
			Ave. Int. =	932	S. D. =	1460		
Fe2	.000	PPM		16521	22377	18471	18831	
			Ave. Int. =	19050	S. D. =	2439		
Zn1	.000	PPM		2791	2245	4327	2735	
			Ave. Int. =	3025	S. D. =	902		
Al3	.000	PPM		12761	15871	12049	13057	
			Ave. Int. =	13435	S. D. =	1679		
Na2	.000	PPM		-5639	-5221	-3151	-2477	
			Ave. Int. =	-4122	S. D. =	1545		
Ca3	.000	PPM		37432	31370	35426	33218	
			Ave. Int. =	34362	S. D. =	2634		
Mg4	.000	PPM		23067	25261	24277	21877	
			Ave. Int. =	23621	S. D. =	1468		
K 1	.000	PPM		-727	-1045	-1993	-804	
			Ave. Int. =	-1142	S. D. =	583		
Mo1	.000	PPM		-977	2411	1229	1311	
			Ave. Int. =	994	S. D. =	1420		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 3				Seq: 450		15:15:01 16 Oct 1996 ICP		
As2	.000	PPM		423	31	-57	-353	
			Ave. Int. =	11	S. D. =	320		
B2	.000	PPM		-2491	-2715	-2163	-4411	
			Ave. Int. =	-2945	S. D. =	1003		
Ba1	.000	PPM		112375	109335	109853	98597	
			Ave. Int. =	107540	S. D. =	6108		
Cd1	.000	PPM		-5611	-6889	-4849	-5623	
			Ave. Int. =	-5743	S. D. =	845		
Co1	.000	PPM		-1499	125	-65	-203	
			Ave. Int. =	-411	S. D. =	738		
Cr4	.000	PPM		-1423	2577	-9335	-6927	
			Ave. Int. =	-3777	S. D. =	5377		
P1	.000	PPM		77	-947	-1099	-1211	
			Ave. Int. =	-795	S. D. =	591		
Mn1	.000	PPM		10877	14101	8467	10267	
			Ave. Int. =	10928	S. D. =	2350		
S1	.000	PPM		-325	881	2407	445	
			Ave. Int. =	852	S. D. =	1150		
Tl1	.000	PPM		-413	-445	37	-677	
			Ave. Int. =	-375	S. D. =	298		
M3	.000	PPM		389	2109	415	2445	
			Ave. Int. =	1340	S. D. =	1091		
Se1	.000	PPM		-1	475	821	111	
			Ave. Int. =	352	S. D. =	373		
V 2	.000	PPM		139917	136347	144819	135211	
			Ave. Int. =	139074	S. D. =	4323		
Cu1	.000	PPM		2983	2797	4149	-2671	
			Ave. Int. =	1815	S. D. =	3050		
Fe2	.000	PPM		17761	13127	18393	19829	
			Ave. Int. =	17278	S. D. =	2899		
Zn1	.000	PPM		3789	1493	2045	2327	
			Ave. Int. =	2414	S. D. =	980		
Al3	.000	PPM		9607	11111	9687	11455	
			Ave. Int. =	10465	S. D. =	955		
Na2	.000	PPM		-5405	-5829	-3863	-5415	
			Ave. Int. =	-5128	S. D. =	866		
Na3	.000	PPM		35880	38064	42650	34632	
			Ave. Int. =	37807	S. D. =	3527		
Mg4	.000	PPM		24677	20901	24037	24637	
			Ave. Int. =	23563	S. D. =	1799		
K 1	.000	PPM		-1389	-335	-1101	-1121	
			Ave. Int. =	-987	S. D. =	454		
Mo1	.000	PPM		1735	1263	621	2183	
			Ave. Int. =	1451	S. D. =	669		

ne	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 2 Rep: 1				Seq: 451		15:18:10 16 Oct 1996 ICP		
As2	1.00	PPM		14589	15423	14637	16405	
			Ave. Int. =	15264	S. D. =	852		
2	1.00	PPM		3825348	3783126	3784390	3781244	
			Ave. Int. =	3793527	S. D. =	21253		
Ba1	1.00	PPM		8200223	8104945	8128737	8069307	
			Ave. Int. =	8125803	S. D. =	55299		
1	1.00	PPM		1750553	1737425	1746335	1723319	
			Ave. Int. =	1739408	S. D. =	12041		
Co1	1.00	PPM		192440	191150	190944	190478	
			Ave. Int. =	191253	S. D. =	840		
4	1.50	PPM		2235184	2200806	2216392	2206742	
			Ave. Int. =	2214781	S. D. =	15042		
1	1.00	PPM		57274	55170	56058	57436	
			Ave. Int. =	56485	S. D. =	1071		
Mn1	1.50	PPM		3745829	3704723	3713874	3693075	
			Ave. Int. =	3714375	S. D. =	22631		
1	1.00	PPM		20249	20029	18675	19269	
			Ave. Int. =	19556	S. D. =	722		
Tl1	1.00	PPM		4755	5105	4143	4561	
			Ave. Int. =	4641	S. D. =	401		
3	1.50	PPM		371789	366485	371613	366613	
			Ave. Int. =	369125	S. D. =	2976		
1	1.00	PPM		7237	6167	7383	7591	
			Ave. Int. =	7095	S. D. =	635		
V 2	1.50	PPM		2825548	2794404	2803506	2789618	
			Ave. Int. =	2803269	S. D. =	15931		
1	1.50	PPM		1090326	1077790	1076102	1070066	
			Ave. Int. =	1078571	S. D. =	8509		
Fe2	1.50	PPM		1148768	1148320	1146395	1131904	
			Ave. Int. =	1143847	S. D. =	8028		
1	1.50	PPM		492242	485290	492618	483744	
			Ave. Int. =	488474	S. D. =	4615		
3	1.50	PPM		147788	150484	153836	152874	
			Ave. Int. =	151246	S. D. =	2702		
Na2	10.0	PPM		112682	112348	114852	111258	
			Ave. Int. =	112785	S. D. =	1506		
3	10.0	PPM		10956331	10806847	10840631	10772808	
			Ave. Int. =	10844154	S. D. =	79746		
Mg4	10.0	PPM		532273	527065	529241	526086	
			Ave. Int. =	528666	S. D. =	2742		
1	10.0	PPM		8304	8614	9010	8552	
			Ave. Int. =	8620	S. D. =	292		
Mo1	1.00	PPM		77778	76964	79306	76498	
			Ave. Int. =	77637	S. D. =	1232		

me	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 2 Rep: 2 Seq: 452 15:19:07 16 Oct 1996 ICP

As2	1.00	PPM		16661	16587	14567	15157
			Ave. Int. =	15743	S. D. =	1046	
B 2	1.00	PPM		3763698	3731340	3782798	3783126
			Ave. Int. =	3765241	S. D. =	24357	
Ba1	1.00	PPM		8085885	7998841	8115059	8109059
			Ave. Int. =	8077211	S. D. =	53740	
C 1	1.00	PPM		1745369	1724255	1741639	1744689
			Ave. Int. =	1738988	S. D. =	9955	
Co1	1.00	PPM		190822	188598	190190	189542
			Ave. Int. =	189788	S. D. =	950	
Cr4	1.50	PPM		2219664	2189811	2220964	2213712
			Ave. Int. =	2211038	S. D. =	14499	
F 1	1.00	PPM		58594	58594	57506	56612
			Ave. Int. =	57827	S. D. =	958	
Mn1	1.50	PPM		3700123	3646745	3699547	3697381
			Ave. Int. =	3685949	S. D. =	26163	
S 1	1.00	PPM		19663	18677	18469	19379
			Ave. Int. =	19047	S. D. =	566	
Tl1	1.00	PPM		4569	4215	4159	4519
			Ave. Int. =	4366	S. D. =	208	
N 3	1.50	PPM		365693	361781	367087	369925
			Ave. Int. =	366122	S. D. =	3387	
S 1	1.00	PPM		7447	7501	7559	6669
			Ave. Int. =	7294	S. D. =	419	
V 2	1.50	PPM		2786364	2757700	2796450	2796266
			Ave. Int. =	2784195	S. D. =	18281	
C 1	1.50	PPM		1076228	1066064	1079446	1082464
			Ave. Int. =	1076051	S. D. =	7128	
Fe2	1.50	PPM		1137102	1124120	1132014	1139064
			Ave. Int. =	1133075	S. D. =	6668	
Z 1	1.50	PPM		487466	483650	491610	495752
			Ave. Int. =	489620	S. D. =	5223	
A 3	1.50	PPM		146372	148516	140668	149268
			Ave. Int. =	146206	S. D. =	3891	
Na2	10.0	PPM		110364	108964	112548	109764
			Ave. Int. =	110410	S. D. =	1536	
C 3	10.0	PPM		10783846	10716575	10829871	10812479
			Ave. Int. =	10785693	S. D. =	49833	
Mg4	10.0	PPM		525761	527185	527361	526155
			Ave. Int. =	526616	S. D. =	779	
K 1	10.0	PPM		8342	8220	9056	7930
			Ave. Int. =	8387	S. D. =	478	
Mo1	1.00	PPM		73924	75100	76092	75938
			Ave. Int. =	75264	S. D. =	994	

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 2 Rep: 3				Seq: 453		15:20:04 16 Oct 1996 ICP		
As2	1.00	PPM		13719	13845	14903	15285	
			Ave. Int. =	14438	S. D. =	775		
B 2	1.00	PPM		3715098	3723684	3768230	3768438	
			Ave. Int. =	3743863	S. D. =	28474		
Ba1	1.00	PPM		7972743	7992655	8058268	8042228	
			Ave. Int. =	8016474	S. D. =	40372		
C 1	1.00	PPM		1699306	1707913	1719247	1745703	
			Ave. Int. =	1718042	S. D. =	20168		
Co1	1.00	PPM		185424	188070	189542	187726	
			Ave. Int. =	187691	S. D. =	1704		
Cr4	1.50	PPM		2169795	2189523	2201760	2206872	
			Ave. Int. =	2191988	S. D. =	16489		
F 1	1.00	PPM		58794	58226	55690	56130	
			Ave. Int. =	57210	S. D. =	1530		
Mn1	1.50	PPM		3640313	3662923	3686291	3677869	
			Ave. Int. =	3666849	S. D. =	20158		
S 1	1.00	PPM		18635	19277	17327	18969	
			Ave. Int. =	18552	S. D. =	858		
Tl1	1.00	PPM		4397	4807	4571	4219	
			Ave. Int. =	4499	S. D. =	251		
N 3	1.50	PPM		361797	368004	369053	366175	
			Ave. Int. =	366257	S. D. =	3202		
S 1	1.00	PPM		6959	7261	7327	7303	
			Ave. Int. =	7213	S. D. =	171		
V 2	1.50	PPM		2727882	2759316	2780954	2772402	
			Ave. Int. =	2760139	S. D. =	23273		
Z 1	1.50	PPM		1050042	1065314	1065154	1071468	
			Ave. Int. =	1062995	S. D. =	9122		
Fe2	1.50	PPM		1126928	1124580	1136600	1136248	
			Ave. Int. =	1131089	S. D. =	6236		
Z 1	1.50	PPM		479081	483418	486056	491154	
			Ave. Int. =	484927	S. D. =	5050		
A 3	1.50	PPM		139554	138500	144636	142004	
			Ave. Int. =	141174	S. D. =	2736		
Na2	10.0	PPM		110306	110032	114292	111216	
			Ave. Int. =	111462	S. D. =	1954		
C 3	10.0	PPM		10616430	10680733	10769326	10796639	
			Ave. Int. =	10715782	S. D. =	82672		
Mg4	10.0	PPM		517489	521619	528465	527009	
			Ave. Int. =	523646	S. D. =	5051		
K 1	10.0	PPM		7458	8846	7654	8244	
			Ave. Int. =	8051	S. D. =	627		
Mo1	1.00	PPM		75404	75162	76722	77762	
			Ave. Int. =	76263	S. D. =	1212		

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Peak Seq: 454 15:21:53 16 Oct 1996

XAp = 215 YAp = 141 Intensity = 7390514

ne	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 3 Rep: 1				Seq: 455		15:23:13 16 Oct 1996 ICP		
As2	3.00	PPM		45581	44485	44943	43921	
			Ave. Int. =	44733	S. D. =	703		
2	3.00	PPM		11004747	11211419	11223107	11211421	
			Ave. Int. =	11162674	S. D. =	105428		
Ba1	3.00	PPM		23300902	23737400	23745546	23702175	
			Ave. Int. =	23621506	S. D. =	214563		
1	3.00	PPM		5062177	5144463	5142175	5142481	
			Ave. Int. =	5122824	S. D. =	40444		
Co1	3.00	PPM		552171	563627	561611	563613	
			Ave. Int. =	560256	S. D. =	5472		
4	4.50	PPM		6434987	6554676	6579273	6555948	
			Ave. Int. =	6531221	S. D. =	65145		
1	3.00	PPM		170185	171049	171791	172347	
			Ave. Int. =	171343	S. D. =	937		
Mn1	4.50	PPM		10785645	10967168	10987218	10981232	
			Ave. Int. =	10930316	S. D. =	96813		
1	3.00	PPM		54395	54627	53509	54949	
			Ave. Int. =	54370	S. D. =	617		
Tl1	3.00	PPM		13183	12579	14399	13557	
			Ave. Int. =	13430	S. D. =	762		
3	4.50	PPM		1061335	1079384	1082048	1079431	
			Ave. Int. =	1075550	S. D. =	9558		
1	3.00	PPM		19429	20759	19821	19407	
			Ave. Int. =	19854	S. D. =	633		
V 2	4.50	PPM		7833207	7970735	7997165	7973431	
			Ave. Int. =	7943635	S. D. =	74570		
1	4.50	PPM		3113158	3176866	3156856	3171820	
			Ave. Int. =	3154675	S. D. =	28953		
Fe2	4.50	PPM		3284452	3338369	3345036	3346154	
			Ave. Int. =	3328503	S. D. =	29568		
1	4.50	PPM		1416907	1455037	1451469	1449435	
			Ave. Int. =	1443212	S. D. =	17689		
3	4.50	PPM		408202	416400	417042	417600	
			Ave. Int. =	414811	S. D. =	4433		
Na2	30.0	PPM		334045	343981	343501	337407	
			Ave. Int. =	339734	S. D. =	4831		
3	30.0	PPM		31531656	32096853	32133220	32116611	
			Ave. Int. =	31969585	S. D. =	292331		
Mg4	30.0	PPM		1509581	1529039	1526063	1528157	
			Ave. Int. =	1523210	S. D. =	9171		
1	30.0	PPM		26362	26730	26406	25988	
			Ave. Int. =	26372	S. D. =	304		
Mo1	3.00	PPM		214188	224754	225764	223934	
			Ave. Int. =	222160	S. D. =	5367		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 3 Rep: 2				Seq: 456		15:24:07 16 Oct 1996 ICP		
As2	3.00	PPM		45677	47247	45197	43623	
			Ave. Int. =	45436	S. D. =	1492		
e2	3.00	PPM		11085088	11130392	11122446	11070292	
			Ave. Int. =	11102055	S. D. =	28957		
Ba1	3.00	PPM		23452716	23548817	23512118	23425460	
			Ave. Int. =	23484778	S. D. =	55961		
d1	3.00	PPM		5107321	5120937	5113255	5093843	
			Ave. Int. =	5108839	S. D. =	11446		
Co1	3.00	PPM		558997	556779	553387	554877	
			Ave. Int. =	556010	S. D. =	2427		
r4	4.50	PPM		6486935	6516188	6535844	6475453	
			Ave. Int. =	6503605	S. D. =	27496		
b1	3.00	PPM		167945	170623	170257	170287	
			Ave. Int. =	169778	S. D. =	1233		
Mn1	4.50	PPM		10874084	10921848	10888454	10848542	
			Ave. Int. =	10883232	S. D. =	30581		
o1	3.00	PPM		54255	54889	53999	54943	
			Ave. Int. =	54522	S. D. =	468		
Tl1	3.00	PPM		13041	13851	13683	13895	
			Ave. Int. =	13618	S. D. =	395		
i3	4.50	PPM		1074873	1075091	1075299	1067032	
			Ave. Int. =	1073074	S. D. =	4032		
e1	3.00	PPM		21847	20069	20887	19463	
			Ave. Int. =	20567	S. D. =	1034		
V 2	4.50	PPM		7905218	7952790	7943796	7907818	
			Ave. Int. =	7927406	S. D. =	24420		
u1	4.50	PPM		3144324	3156292	3144320	3122156	
			Ave. Int. =	3141773	S. D. =	14243		
Fe2	4.50	PPM		3306542	3317522	3316124	3298702	
			Ave. Int. =	3309723	S. D. =	8820		
n1	4.50	PPM		1431933	1444963	1444355	1433949	
			Ave. Int. =	1438800	S. D. =	6820		
l3	4.50	PPM		411776	416146	413050	408544	
			Ave. Int. =	412379	S. D. =	3147		
Na2	30.0	PPM		337551	341135	335039	338717	
			Ave. Int. =	338111	S. D. =	2534		
a3	30.0	PPM		31889924	31956509	31899508	31747633	
			Ave. Int. =	31873394	S. D. =	88843		
Mg4	30.0	PPM		1514719	1520343	1516685	1510431	
			Ave. Int. =	1515545	S. D. =	4129		
1	30.0	PPM		27008	25968	26856	25616	
			Ave. Int. =	26362	S. D. =	677		
Mo1	3.00	PPM		220356	224254	224028	222830	
			Ave. Int. =	222867	S. D. =	1787		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 3 Rep: 3				Seq: 457		15:25:04 16 Oct 1996 ICP		
As2	3.00	PPM		45461	45373	45813	43727	
			Ave. Int. =	45094	S. D. =	931		
B 2	3.00	PPM		11177328	11062758	11016635	11051804	
			Ave. Int. =	11077131	S. D. =	69635		
Ba1	3.00	PPM		23610969	23310385	23236336	23277142	
			Ave. Int. =	23358708	S. D. =	170879		
C 1	3.00	PPM		5149060	5092353	5083995	5108361	
			Ave. Int. =	5108442	S. D. =	28904		
Co1	3.00	PPM		559533	553451	557773	557451	
			Ave. Int. =	557052	S. D. =	2569		
Cr4	4.50	PPM		6566457	6470103	6461085	6489567	
			Ave. Int. =	6496803	S. D. =	47933		
P 1	3.00	PPM		170689	168081	172747	171667	
			Ave. Int. =	170796	S. D. =	1996		
Mn1	4.50	PPM		10963150	10820387	10807773	10847292	
			Ave. Int. =	10859651	S. D. =	70941		
S 1	3.00	PPM		56571	53485	53205	52421	
			Ave. Int. =	53921	S. D. =	1823		
Tl1	3.00	PPM		13615	13631	13667	12707	
			Ave. Int. =	13405	S. D. =	466		
N 3	4.50	PPM		1077303	1069179	1065907	1064337	
			Ave. Int. =	1069182	S. D. =	5778		
S 1	3.00	PPM		20909	19519	20197	19717	
			Ave. Int. =	20086	S. D. =	618		
V 2	4.50	PPM		7988461	7883335	7874265	7884297	
			Ave. Int. =	7907590	S. D. =	54103		
u1	4.50	PPM		3159830	3120690	3116948	3123502	
			Ave. Int. =	3130243	S. D. =	19907		
Fe2	4.50	PPM		3343186	3302996	3300756	3297014	
			Ave. Int. =	3310988	S. D. =	21607		
n1	4.50	PPM		1448821	1439557	1428899	1430979	
			Ave. Int. =	1437064	S. D. =	9095		
3	4.50	PPM		420338	411082	419536	409850	
			Ave. Int. =	415202	S. D. =	5501		
Na2	30.0	PPM		337455	340087	339223	338325	
			Ave. Int. =	338773	S. D. =	1135		
a3	30.0	PPM		32117982	31765855	31638971	31744345	
			Ave. Int. =	31816788	S. D. =	208310		
Mg4	30.0	PPM		1535543	1513277	1507607	1516303	
			Ave. Int. =	1518183	S. D. =	12122		
1	30.0	PPM		26858	26556	26552	26714	
			Ave. Int. =	26670	S. D. =	146		
Mo1	3.00	PPM		224836	219644	221894	222620	
			Ave. Int. =	222249	S. D. =	2140		

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 1 Seq: 458 15:28:12 16 Oct 1996 ICP

As2	7.00	PPM		108797	106352	106522	105938	
			Ave. Int. =	106902	S. D. =	1287		
B 2	7.00	PPM		26587756	26539356	26474251	26325401	
			Ave. Int. =	26481691	S. D. =	114101		
Ba1	7.00	PPM		56084857	56021756	55970140	55525157	
			Ave. Int. =	55900478	S. D. =	254573		
C 1	7.00	PPM		11984908	11951291	11905750	11859182	
			Ave. Int. =	11925283	S. D. =	54719		
Co1	7.00	PPM		1315501	1311885	1311087	1303855	
			Ave. Int. =	1310582	S. D. =	4879		
Cr4	10.5	PPM		15428280	15404388	15375053	15265523	
			Ave. Int. =	15368311	S. D. =	71900		
F 1	7.00	PPM		403047	401071	397957	399309	
			Ave. Int. =	400346	S. D. =	2206		
Mn1	10.5	PPM		25982435	25901780	25815934	25699311	
			Ave. Int. =	25849865	S. D. =	121227		
S 1	7.00	PPM		128319	129483	128845	129691	
			Ave. Int. =	129085	S. D. =	624		
Tl1	7.00	PPM		31831	32569	31559	32703	
			Ave. Int. =	32166	S. D. =	557		
N 3	10.5	PPM		2514405	2509757	2503373	2495093	
			Ave. Int. =	2505657	S. D. =	8370		
S 1	7.00	PPM		46839	48813	47463	46781	
			Ave. Int. =	47474	S. D. =	945		
V 2	10.5	PPM		18715540	18682637	18580335	18495715	
			Ave. Int. =	18618557	S. D. =	100105		
Cu1	10.5	PPM		7455551	7449737	7429558	7393680	
			Ave. Int. =	7432132	S. D. =	27950		
Fe2	10.5	PPM		7854768	7824686	7810438	7779680	
			Ave. Int. =	7817393	S. D. =	31202		
Zn1	10.5	PPM		3408584	3400184	3385935	3380405	
			Ave. Int. =	3393777	S. D. =	12918		
Al3	10.5	PPM		983082	979232	972322	971026	
			Ave. Int. =	976416	S. D. =	5721		
Na2	70.0	PPM		822242	817762	822034	814394	
			Ave. Int. =	819108	S. D. =	3760		
Ca3	70.0	PPM		76013041	75759075	75428004	75114858	
			Ave. Int. =	75578745	S. D. =	391172		
Mg4	70.0	PPM		3615192	3604448	3579594	3564700	
			Ave. Int. =	3590984	S. D. =	23006		
K 1	70.0	PPM		64695	65433	65591	64639	
			Ave. Int. =	65090	S. D. =	493		
Mo1	7.00	PPM		533665	524971	528811	523915	
			Ave. Int. =	527841	S. D. =	4416		

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 2 Seq: 459 15:29:09 16 Oct 1996 ICP

As2	7.00	PPM		104888	107586	102370	105456
			Ave. Int. =	105075	S. D. =	2145	
B 2	7.00	PPM		26128356	26179169	26274193	26339183
			Ave. Int. =	26230225	S. D. =	94497	
Ba1	7.00	PPM		55216768	55276650	55485743	55613296
			Ave. Int. =	55398114	S. D. =	184049	
C 1	7.00	PPM		11777905	11810381	11869612	11878700
			Ave. Int. =	11834150	S. D. =	48203	
Co1	7.00	PPM		1295903	1298421	1303541	1306843
			Ave. Int. =	1301177	S. D. =	4936	
Cr4	10.5	PPM		15166721	15203944	15229964	15310659
			Ave. Int. =	15227822	S. D. =	61019	
P 1	7.00	PPM		398933	399015	398767	400991
			Ave. Int. =	399427	S. D. =	1048	
Mn1	10.5	PPM		25619570	25598090	25704328	25727938
			Ave. Int. =	25662482	S. D. =	63307	
S 1	7.00	PPM		129393	126343	128823	130403
			Ave. Int. =	128741	S. D. =	1727	
Tl1	7.00	PPM		31887	31043	32575	31279
			Ave. Int. =	31696	S. D. =	685	
N 3	10.5	PPM		2479003	2480973	2503645	2496277
			Ave. Int. =	2489975	S. D. =	11944	
S 1	7.00	PPM		46973	47797	47284	48661
			Ave. Int. =	47679	S. D. =	738	
V 2	10.5	PPM		18385019	18410920	18486545	18545373
			Ave. Int. =	18456964	S. D. =	73001	
C 1	10.5	PPM		7348111	7347845	7368871	7401304
			Ave. Int. =	7366533	S. D. =	25187	
Fe2	10.5	PPM		7757184	7750614	7772248	7781160
			Ave. Int. =	7765302	S. D. =	13921	
Z 1	10.5	PPM		3358525	3373937	3388589	3383351
			Ave. Int. =	3376101	S. D. =	13192	
A 3	10.5	PPM		963962	969824	970106	977466
			Ave. Int. =	970340	S. D. =	5531	
Na2	70.0	PPM		807560	817568	815560	816512
			Ave. Int. =	814300	S. D. =	4568	
C 3	70.0	PPM		74568695	74715853	75048276	75101592
			Ave. Int. =	74858604	S. D. =	257840	
Mg4	70.0	PPM		3547112	3550420	3567218	3575706
			Ave. Int. =	3560114	S. D. =	13621	
K 1	70.0	PPM		63582	64821	66185	64869
			Ave. Int. =	64864	S. D. =	1063	
Mo1	7.00	PPM		522715	521777	524107	528649
			Ave. Int. =	524312	S. D. =	3046	

me	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 3 Seq: 460 15:30:06 16 Oct 1996 ICP

As2	7.00	PPM		108653	107115	107739	104386
			Ave. Int. =	106973	S. D. =	1837	
B 2	7.00	PPM		26271084	26097164	26461315	26150791
			Ave. Int. =	26245089	S. D. =	161455	
Ba1	7.00	PPM		55414854	55044011	55730009	55089005
			Ave. Int. =	55319470	S. D. =	319704	
C 1	7.00	PPM		11866660	11784905	11974211	11818423
			Ave. Int. =	11861050	S. D. =	82567	
Co1	7.00	PPM		1303637	1294551	1313815	1300324
			Ave. Int. =	1303082	S. D. =	8081	
C 4	10.5	PPM		15241210	15165377	15371227	15206368
			Ave. Int. =	15246046	S. D. =	89023	
P 1	7.00	PPM		401407	395503	400423	396967
			Ave. Int. =	398575	S. D. =	2796	
Mn1	10.5	PPM		25705823	25536658	25836242	25537690
			Ave. Int. =	25654103	S. D. =	145138	
S 1	7:00	PPM		128407	125845	130301	128953
			Ave. Int. =	128377	S. D. =	1866	
Tl1	7.00	PPM		31137	32989	31574	32025
			Ave. Int. =	31931	S. D. =	793	
N 3	10.5	PPM		2497491	2474461	2505813	2481421
			Ave. Int. =	2489797	S. D. =	14388	
S 1	7.00	PPM		47021	45999	48931	48009
			Ave. Int. =	47490	S. D. =	1263	
V 2	10.5	PPM		18511737	18383499	18623985	18411246
			Ave. Int. =	18482617	S. D. =	109165	
C 1	10.5	PPM		7382644	7325817	7424368	7329671
			Ave. Int. =	7365625	S. D. =	46967	
Fe2	10.5	PPM		7792830	7732846	7844392	7764174
			Ave. Int. =	7783561	S. D. =	47379	
Z 1	10.5	PPM		3388231	3363060	3397182	3347477
			Ave. Int. =	3373988	S. D. =	22826	
Al3	10.5	PPM		971232	960464	979312	966000
			Ave. Int. =	969252	S. D. =	8019	
Na2	70.0	PPM		816600	810128	819426	809546
			Ave. Int. =	813925	S. D. =	4865	
C 3	70.0	PPM		74993786	74478678	75641235	74588821
			Ave. Int. =	74925630	S. D. =	525973	
Mg4	70.0	PPM		3565978	3546832	3591798	3549324
			Ave. Int. =	3563483	S. D. =	20702	
K 1	70.0	PPM		64615	63196	66869	64219
			Ave. Int. =	64725	S. D. =	1549	
Mo1	7.00	PPM		526081	521121	531113	524451
			Ave. Int. =	525692	S. D. =	4162	

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 5 Rep: 1 Seq: 461 15:33:15 16 Oct 1996 ICP

As2	10.0	PPM		148795	150307	148131	151501
			Ave. Int. =	149684	S. D. =	1516	
B 2	10.0	PPM		36522638	36766913	36879091	36894907
			Ave. Int. =	36765887	S. D. =	171884	
Ba1	10.0	PPM		76700200	77192513	77285102	77450370
			Ave. Int. =	77157046	S. D. =	322699	
C 1	10.0	PPM		16392276	16528760	16558811	16583947
			Ave. Int. =	16515949	S. D. =	85479	
Co1	10.0	PPM		1804555	1817081	1822875	1822281
			Ave. Int. =	1816698	S. D. =	8503	
C 4	15.0	PPM		21207269	21307630	21329158	21381366
			Ave. Int. =	21306356	S. D. =	72953	
P 1	10.0	PPM		554167	557509	560541	557775
			Ave. Int. =	557498	S. D. =	2610	
Mn1	15.0	PPM		35659964	35939455	35947044	35989614
			Ave. Int. =	35884019	S. D. =	150993	
S 1	10.0	PPM		180454	180788	178988	181704
			Ave. Int. =	180484	S. D. =	1128	
Tl1	10.0	PPM		44513	45433	43973	45785
			Ave. Int. =	44926	S. D. =	831	
N 3	15.0	PPM		3455852	3481087	3473053	3498127
			Ave. Int. =	3477030	S. D. =	17568	
S 1	10.0	PPM		66122	66788	66890	67546
			Ave. Int. =	66837	S. D. =	583	
V 2	15.0	PPM		25651199	25832532	25858045	25908461
			Ave. Int. =	25812559	S. D. =	112104	
C 1	15.0	PPM		10215881	10292426	10305909	10336286
			Ave. Int. =	10287626	S. D. =	51226	
Fe2	15.0	PPM		10815527	10908027	10922051	10935037
			Ave. Int. =	10895161	S. D. =	54223	
Zn1	15.0	PPM		4691061	4742132	4748052	4740710
			Ave. Int. =	4730489	S. D. =	26477	
Al3	15.0	PPM		1349814	1358280	1366694	1377587
			Ave. Int. =	1363094	S. D. =	11868	
Na2	100.	PPM		1136774	1146950	1142892	1149332
			Ave. Int. =	1143987	S. D. =	5495	
Ca3	100.	PPM		104376505	105052425	105087756	105314332
			Ave. Int. =	104957755	S. D. =	404500	
Mg4	100.	PPM		5009806	5035478	5049968	5052191
			Ave. Int. =	5036861	S. D. =	19499	
K 1	100.	PPM		92505	90377	92021	91791
			Ave. Int. =	91674	S. D. =	914	
Mo1	10.0	PPM		733961	738194	738496	736938
			Ave. Int. =	736897	S. D. =	2070	

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 5 Rep: 2 Seq: 462 15:34:12 16 Oct 1996 ICP

As2	10.0	PPM		150191	148937	148077	152029
			Ave. Int. =	149809	S. D. =	1716	
B 2	10.0	PPM		36591460	36462554	36611540	37195395
			Ave. Int. =	36715237	S. D. =	326841	
Ba1	10.0	PPM		76759484	76444000	76674920	78064166
			Ave. Int. =	76985643	S. D. =	731274	
C 1	10.0	PPM		16482422	16406100	16448982	16698511
			Ave. Int. =	16509004	S. D. =	130143	
Co1	10.0	PPM		1811707	1807265	1811249	1839881
			Ave. Int. =	1817526	S. D. =	15037	
C 4	15.0	PPM		21219701	21125944	21225650	21607032
			Ave. Int. =	21294582	S. D. =	213247	
P 1	10.0	PPM		554303	558871	557493	563093
			Ave. Int. =	558440	S. D. =	3645	
Mn1	15.0	PPM		35774510	35605869	35781222	36365031
			Ave. Int. =	35881658	S. D. =	332304	
S 1	10.0	PPM		179900	179424	179752	181732
			Ave. Int. =	180202	S. D. =	1039	
Tl1	10.0	PPM		45183	45523	44843	45859
			Ave. Int. =	45352	S. D. =	437	
N 3	15.0	PPM		3470277	3442682	3466779	3526475
			Ave. Int. =	3476553	S. D. =	35470	
S 1	10.0	PPM		65610	67538	65776	67522
			Ave. Int. =	66612	S. D. =	1063	
V 2	15.0	PPM		25667311	25602400	25719855	26133060
			Ave. Int. =	25780657	S. D. =	239797	
C 1	15.0	PPM		10252082	10204291	10240730	10410984
			Ave. Int. =	10277022	S. D. =	91606	
Fe2	15.0	PPM		10841855	10796391	10857650	11037116
			Ave. Int. =	10883253	S. D. =	105811	
Z 1	15.0	PPM		4715268	4698500	4711374	4791100
			Ave. Int. =	4729061	S. D. =	41976	
Al3	15.0	PPM		1356256	1351502	1354654	1380677
			Ave. Int. =	1360772	S. D. =	13416	
Na2	100.	PPM		1139424	1137330	1138763	1152492
			Ave. Int. =	1142002	S. D. =	7048	
C 3	100.	PPM		104522138	103985248	104492945	106188339
			Ave. Int. =	104797168	S. D. =	959646	
Mg4	100.	PPM		5027832	4997235	5028486	5106316
			Ave. Int. =	5039967	S. D. =	46574	
K 1	100.	PPM		90935	90579	91371	92213
			Ave. Int. =	91275	S. D. =	705	
Mo1	10.0	PPM		733715	731267	736075	747088
			Ave. Int. =	737036	S. D. =	6983	

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 5 Rep: 3 Seq: 463 15:35:09 16 Oct 1996 ICP

As2	10.0	PPM		149741	152973	151749	149157
			Ave. Int. =	150905	S. D. =	1770	
B 2	10.0	PPM		36761655	36956561	36769585	36383366
			Ave. Int. =	36717792	S. D. =	240456	
Ba1	10.0	PPM		77063957	77470372	76889190	76246612
			Ave. Int. =	76917533	S. D. =	509251	
C 1	10.0	PPM		16534843	16643598	16570955	16368330
			Ave. Int. =	16529432	S. D. =	116535	
Co1	10.0	PPM		1819443	1825801	1818945	1804155
			Ave. Int. =	1817086	S. D. =	9168	
C 4	15.0	PPM		21305232	21466658	21353420	21120006
			Ave. Int. =	21311329	S. D. =	144384	
F 1	10.0	PPM		560639	563973	563279	556573
			Ave. Int. =	561116	S. D. =	3352	
Mn1	15.0	PPM		35948488	36130291	35943254	35625846
			Ave. Int. =	35911970	S. D. =	209637	
S 1	10.0	PPM		181554	182278	178522	180464
			Ave. Int. =	180705	S. D. =	1635	
Tl1	10.0	PPM		44339	43631	43777	43469
			Ave. Int. =	43804	S. D. =	378	
N 3	15.0	PPM		3480693	3504471	3481965	3460892
			Ave. Int. =	3482005	S. D. =	17816	
S 1	10.0	PPM		66940	66916	66522	66930
			Ave. Int. =	66827	S. D. =	204	
V 2	15.0	PPM		25861885	25976126	25859005	25574513
			Ave. Int. =	25817882	S. D. =	171170	
C 1	15.0	PPM		10297870	10349604	10268136	10172781
			Ave. Int. =	10272098	S. D. =	74276	
Fe2	15.0	PPM		10906010	10992944	10916491	10814885
			Ave. Int. =	10907583	S. D. =	72941	
Z 1	15.0	PPM		4743164	4766076	4733518	4703076
			Ave. Int. =	4736459	S. D. =	26110	
Al3	15.0	PPM		1361910	1371459	1364093	1353312
			Ave. Int. =	1362694	S. D. =	7470	
Na2	100.	PPM		1149612	1158198	1144494	1133684
			Ave. Int. =	1146497	S. D. =	10244	
C 3	100.	PPM		105023691	105564140	104953866	103853233
			Ave. Int. =	104848733	S. D. =	717517	
Mg4	100.	PPM		5059190	5063288	5062356	5005409
			Ave. Int. =	5047561	S. D. =	28156	
K 1	100.	PPM		91549	92237	90809	91011
			Ave. Int. =	91402	S. D. =	639	
Mo1	10.0	PPM		742928	744842	736507	734401
			Ave. Int. =	739670	S. D. =	5004	

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 464 15:40:48 16 Oct 1996 ICP

Ag1	.000	PPM	2269	2101	527	805		
			Ave. Int. =	1426	S. D. =	887		

*** Standard: 1 Rep: 2 Seq: 465 15:41:36 16 Oct 1996 ICP

Ag1	.000	PPM	1531	-1011	-5071	-1601		
			Ave. Int. =	-1538	S. D. =	2719		

*** Standard: 1 Rep: 3 Seq: 466 15:42:24 16 Oct 1996 ICP

Ag1	.000	PPM	1335	-1231	2393	1291		
			Ave. Int. =	947	S. D. =	1539		

*** Peak Seq: 467 15:44:04 16 Oct 1996

XAp = 215 YAp = 141 Intensity = 7593713

*** Standard: 5 Rep: 1 Seq: 468 15:45:24 16 Oct 1996 ICP

Ag1	1.00	PPM	319258	302288	285838	279594		
			Ave. Int. =	296745	S. D. =	17801		

*** Standard: 5 Rep: 2 Seq: 469 15:46:12 16 Oct 1996 ICP

Ag1	1.00	PPM	269404	266626	269376	250385		
			Ave. Int. =	263948	S. D. =	9135		

*** Standard: 5 Rep: 3 Seq: 470 15:47:00 16 Oct 1996 ICP

Ag1	1.00	PPM	240149	239381	238911	229109		
			Ave. Int. =	236888	S. D. =	5211		

*** Standard: 6 Rep: 1 Seq: 471 15:50:01 16 Oct 1996 ICP

Ag1	2.00	PPM	590292	565190	557784	517367		
			Ave. Int. =	557658	S. D. =	30249		

*** Standard: 6 Rep: 2 Seq: 472 15:50:49 16 Oct 1996 ICP

Ag1	2.00	PPM	523155	551901	540687	553615		
			Ave. Int. =	542340	S. D. =	14016		

*** Standard: 6 Rep: 3 Seq: 473 15:51:37 16 Oct 1996 ICP

Ag1	2.00	PPM	559132	556832	560784	540109		
			Ave. Int. =	554214	S. D. =	9542		

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Update Intercept Seq: 474 15:54:38 16 Oct 1996 ICP

			Corr.	Avg.	SD/RSD	Old
g1	.000	PPM	-.016	.016	.010	.016
s2	.000	PPM	.022	-.022	.027	-.022
2	.000	PPM	.021	-.021	.000	-.021
1	.000	PPM	.028	-.028	.001	-.028
d1	.000	PPM	.048	-.048	.000	-.048
1	.000	PPM	.039	-.039	.006	-.039
4	.000	PPM	.051	-.051	.003	-.051
b1	.000	PPM	.041	-.041	.031	-.041
n1	.000	PPM	.037	-.037	.001	-.037
1	.000	PPM	-.003	.003	.027	.003
1	.000	PPM	-.003	.003	.061	.003
i3	.000	PPM	.067	-.067	.004	-.067
1	.000	PPM	-.025	.025	.033	.025
2	.000	PPM	.027	-.027	.001	-.027
u1	.000	PPM	.045	-.045	.004	-.045
2	.000	PPM	.039	-.039	.003	-.039
1	.000	PPM	.033	-.033	.001	-.033
l3	.000	PPM	-.005	.005	.047	.005
a2	.000	PPM	.021	-.021	.042	-.021
3	.000	PPM	.241	-.241	.003	-.241
g4	.000	PPM	-.017	.017	.023	.017
K 1	.000	PPM	-.080	.080	.378	.080
1	.000	PPM	.005	-.005	.009	-.005

*** Check Standard: 2 Ck2 Seq: 475 15:59:08 16 Oct 1996 ICP

ne	Flag	%Rcv.	Found	True	Units	SD/RSD
g1	H	136.	1.36	1.00	PPM	.058
Ba1		107.	1.07	1.00	PPM	.017
Al3		107.	1.07	1.00	PPM	.028

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3 Seq: 476 16:02:44 16 Oct 1996 ICP

ne	Flag	%Rcv.	Found	True	Units	SD/RSD
As2		108.	1.08	1.00	PPM	.080
Be2		103.	1.03	1.00	PPM	.008
1		108.	1.08	1.00	PPM	.007
1	H	110.	1.10	1.00	PPM	.006
Cr4		110.	1.10	1.00	PPM	.004
1		110.	1.10	1.00	PPM	.037
1		105.	1.05	1.00	PPM	.006
Sb1		98.9	.989	1.00	PPM	.048
Tl1		104.	1.04	1.00	PPM	.067
3	H	110.	1.10	1.00	PPM	.008
Se1		104.	1.04	1.00	PPM	.041
V 2		106.	1.06	1.00	PPM	.006
1		104.	1.04	1.00	PPM	.011
2		108.	1.08	1.00	PPM	.005
Zn1		108.	1.08	1.00	PPM	.006
1	H	111.	1.11	1.00	PPM	.022

*** Check Standard: 4 Ck4 Seq: 477 16:05:46 16 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
2		97.3	48.7	50.0	PPM	1.10
3		101.	50.7	50.0	PPM	.788
Mg4		104.	10.4	10.0	PPM	.200
1		98.9	9.89	10.0	PPM	.298

*** Peak Seq: 478 16:09:29 16 Oct 1996

Ap = 214 YAp = 140 Intensity = 7624478

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Update Intercept Seq: 479 16:10:50 16 Oct 1996 ICP

			Corr.	Avg.	SD/RSD	Old
Ag1	.000	PPM	.001	-.001	.002	-.001
As2	.000	PPM	.005	-.005	.026	.016
B 2	.000	PPM	.021	-.021	.000	.000
Ba1	.000	PPM	.023	-.023	.001	.005
Cd1	.000	PPM	.049	-.049	.001	-.001
1	.000	PPM	.039	-.039	.004	.000
4	.000	PPM	.053	-.053	.003	-.002
Pb1	.000	PPM	.062	-.062	.019	-.022
1	.000	PPM	.038	-.038	.001	-.001
1	.000	PPM	.009	-.009	.036	-.012
Tl1	.000	PPM	.033	-.033	.064	-.036
Ni3	.000	PPM	.072	-.072	.007	-.072
1	.000	PPM	-.028	.028	.041	.003
2	.000	PPM	.034	-.034	.001	-.008
Cu1	.000	PPM	.051	-.051	.003	-.006
2	.000	PPM	.033	-.033	.004	.006
1	.000	PPM	.037	-.037	.004	-.004
Al3	.000	PPM	-.011	.011	.034	.007
Na2	.000	PPM	.052	-.052	.034	-.032
3	.000	PPM	.234	-.234	.002	.007
Mg4	.000	PPM	-.044	.044	.024	.027
K 1	.000	PPM	.173	-.173	.759	-.254
1	.000	PPM	-.010	.010	.016	.015

*** Check Standard: 2 Ck2 Seq: 480 16:13:54 16 Oct 1996 ICP

ne	Flag	%Rcv.	Found	True	Units	SD/RSD
1	L	83.7	.837	1.00	PPM	.072
Ba1		106.	1.06	1.00	PPM	.010
Al3		101.	1.01	1.00	PPM	.063

*** Update Slope Seq: 481 16:20:01 16 Oct 1996 ICP

			% Corr.	Avg.	SD/RSD	Old
1	1.00	PPM	42.9	.700	.057	.700

*** Check Standard: 2 Ck2 Seq: 482 16:23:30 16 Oct 1996 ICP

ne	Flag	%Rcv.	Found	True	Units	SD/RSD
1		107.	1.07	1.00	PPM	.092
Ba1		105.	1.05	1.00	PPM	.008
Al3		105.	1.05	1.00	PPM	.021

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3 Seq: 483 16:26:44 16 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
As2		105.	1.05	1.00	PPM	.038
Be2		104.	1.04	1.00	PPM	.007
Cd1	H	112.	1.12	1.00	PPM	.003
Co1	H	112.	1.12	1.00	PPM	.007
Cr4	H	112.	1.12	1.00	PPM	.011
Pb1	H	113.	1.13	1.00	PPM	.024
Mn1		107.	1.07	1.00	PPM	.006
Sb1		102.	1.02	1.00	PPM	.058
Tl1		109.	1.09	1.00	PPM	.071
Ni3	H	112.	1.12	1.00	PPM	.011
Se1		109.	1.09	1.00	PPM	.052
V 2		108.	1.08	1.00	PPM	.005
Cu1		105.	1.05	1.00	PPM	.006
Fe2	H	110.	1.10	1.00	PPM	.007
Zn1		109.	1.09	1.00	PPM	.014
Mo1	H	114.	1.14	1.00	PPM	.019

*** Update Slope Seq: 484 16:30:11 16 Oct 1996 ICP

			% Corr.	Avg.	SD/RSD	Old
Al2	3.00	PPM	-7.52	3.24	.056	3.24
Be2	3.00	PPM	-3.06	3.09	.022	3.09
Ba1	3.00	PPM	.610	2.98	.019	2.98
Cd1	3.00	PPM	-6.03	3.19	.023	3.19
Co1	3.00	PPM	-5.59	3.18	.019	3.18
Cr4	4.50	PPM	-6.08	4.79	.024	4.79
Pb1	3.00	PPM	-5.76	3.18	.009	3.18
Mn1	4.50	PPM	-4.65	4.72	.027	4.72
Sb1	3.00	PPM	-3.71	3.12	.046	3.12
Tl1	3.00	PPM	-7.70	3.25	.080	3.25
Ni3	4.50	PPM	-6.89	4.83	.029	4.83
Se1	3.00	PPM	-7.69	3.25	.107	3.25
V 2	4.50	PPM	-4.47	4.71	.033	4.71
Cu1	4.50	PPM	-.319	4.51	.031	4.51
Fe2	4.50	PPM	-5.88	4.78	.027	4.78
Zn1	4.50	PPM	-6.61	4.82	.021	4.82
Al3	4.50	PPM	-2.73	4.63	.061	4.63
Na2	30.0	PPM	.973	29.7	.225	29.7
Ca3	30.0	PPM	-1.99	30.6	.186	30.6
Mg4	30.0	PPM	-4.13	31.3	.133	31.3
K 1	30.0	PPM	-1.44	30.4	.287	30.4
Na1	3.00	PPM	-11.3	3.38	.030	3.38

*** Peak Seq: 485 16:31:58 16 Oct 1996

XAp = 213 YAp = 140 Intensity = 7647395

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Update Intercept Seq: 486 16:33:18 16 Oct 1996 ICP

			Corr.	Avg.	SD/RSD	Old
As2	.000	PPM	-.004	.004	.053	.009
Be2	.000	PPM	.021	-.020	.001	.001
B1	.000	PPM	.027	-.027	.000	-.004
Cd1	.000	PPM	.046	-.043	.001	.003
Co1	.000	PPM	.040	-.037	.003	-.001
Cr4	.000	PPM	.051	-.048	.003	.001
P1	.000	PPM	.043	-.041	.012	.018
Mn1	.000	PPM	.037	-.035	.001	.001
Sb1	.000	PPM	.017	-.016	.016	-.007
T1	.000	PPM	.052	-.048	.025	-.018
Ni3	.000	PPM	.064	-.059	.005	.008
Se1	.000	PPM	-.024	.022	.049	-.004
V2	.000	PPM	.033	-.032	.001	.001
Cr1	.000	PPM	.046	-.046	.001	.005
Fe2	.000	PPM	.036	-.034	.002	-.003
Zn1	.000	PPM	.039	-.036	.003	-.001
Al3	.000	PPM	-.006	.006	.024	-.005
Na2	.000	PPM	.073	-.074	.192	-.021
Ca3	.000	PPM	.234	-.229	.002	-.000
Mg4	.000	PPM	-.042	.040	.028	-.002
K1	.000	PPM	-.117	.115	.573	.286
Mo1	.000	PPM	.006	-.006	.006	-.015

*** Check Standard: 2 Ck2 Seq: 487 16:39:15 16 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Ag1	H	115.	1.15	1.00	PPM	.072
Ba1		105.	1.05	1.00	PPM	.008
Al3		97.5	.975	1.00	PPM	.051

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3 Seq: 488 16:42:15 16 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
As2		96.9	.969	1.00	PPM	.047
Be2		97.3	.973	1.00	PPM	.002
[illegible]1		101.	1.01	1.00	PPM	.003
[illegible]1		101.	1.01	1.00	PPM	.002
Cr4		100.	1.00	1.00	PPM	.002
[illegible]1		98.0	.980	1.00	PPM	.017
[illegible]1		96.7	.967	1.00	PPM	.004
Sb1		94.8	.948	1.00	PPM	.044
Tl1		104.	1.04	1.00	PPM	.087
[illegible]3		97.8	.978	1.00	PPM	.012
Se1		94.8	.948	1.00	PPM	.100
V 2		97.9	.979	1.00	PPM	.004
[illegible]1		102.	1.02	1.00	PPM	.008
[illegible]2		98.9	.989	1.00	PPM	.006
Zn1		97.6	.976	1.00	PPM	.003
[illegible]1		95.3	.953	1.00	PPM	.018

*** Check Standard: 2 Ck2 Seq: 489 16:45:17 16 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
[illegible]1		103.	1.03	1.00	PPM	.030
Ba1		103.	1.03	1.00	PPM	.009
Al3		95.6	.956	1.00	PPM	.014

*** Check Standard: 4 Ck4 Seq: 490 16:48:17 16 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Na2		99.8	49.9	50.0	PPM	.425
[illegible]3		99.1	49.6	50.0	PPM	.351
Mg4		100.	10.0	10.0	PPM	.077
K 1		96.5	9.65	10.0	PPM	.255

.E.C. Laboratories Folder: pripl198 Page 1
09:23:44 17 Oct 1996 Protocol: priorplt

Lane	Conc.	Units	SD/RSD	1	2	3	4	5

* * Peak Seq: 521 09:23:44 17 Oct 1996

XAp = 216 YAp = 141 Intensity = 7285214

* * Peak Seq: 522 09:24:23 17 Oct 1996

XAp = 216 YAp = 141 Intensity = 7321908

.E.C. Laboratories Folder: pripl198 Page 2
09:40:18 17 Oct 1996 Protocol: priorplt

ne	Conc.	Units	SD/RSD	1	2	3	4	5
* * Standard: 1 Rep: 1				Seq: 523		09:40:18 17 Oct 1996 ICP		
As2	.000	PPM		965	15	653	-723	
			Ave. Int. =	228	S. D. =	747		
B 2	.000	PPM		-1585	-4513	-3393	-953	
			Ave. Int. =	-2611	S. D. =	1636		
Ba1	.000	PPM		103254	104309	101614	104972	
			Ave. Int. =	103537	S. D. =	1464		
Cd1	.000	PPM		-5235	-2777	893	-1875	
			Ave. Int. =	-2249	S. D. =	2530		
C 1	.000	PPM		-505	583	-433	927	
			Ave. Int. =	143	S. D. =	721		
Cr4	.000	PPM		-4063	-5951	-6825	-2903	
			Ave. Int. =	-4936	S. D. =	1779		
F 1	.000	PPM		-899	-1643	-2185	1847	
			Ave. Int. =	-720	S. D. =	1791		
Mn1	.000	PPM		13593	12961	11289	8497	
			Ave. Int. =	11585	S. D. =	2277		
S 1	.000	PPM		767	129	-297	-295	
			Ave. Int. =	76	S. D. =	502		
T 1	.000	PPM		-533	-101	223	63	
			Ave. Int. =	-87	S. D. =	325		
Ni3	.000	PPM		2805	565	2359	2815	
			Ave. Int. =	2136	S. D. =	1069		
S 1	.000	PPM		703	413	583	823	
			Ave. Int. =	631	S. D. =	175		
V 2	.000	PPM		147929	154739	157825	154281	
			Ave. Int. =	153694	S. D. =	4153		
C 1	.000	PPM		267	5257	5897	2785	
			Ave. Int. =	3552	S. D. =	2568		
F 2	.000	PPM		26791	22711	30577	23247	
			Ave. Int. =	25832	S. D. =	3645		
Zn1	.000	PPM		4637	4277	2725	4439	
			Ave. Int. =	4020	S. D. =	875		
A 3	.000	PPM		11911	10567	13345	13743	
			Ave. Int. =	12392	S. D. =	1449		
Na2	.000	PPM		-4611	-2691	-4051	-3435	
			Ave. Int. =	-3697	S. D. =	825		
C 3	.000	PPM		33830	41428	45196	38662	
			Ave. Int. =	39779	S. D. =	4785		
Mg4	.000	PPM		22132	21150	23916	21790	
			Ave. Int. =	22247	S. D. =	1185		
K 1	.000	PPM		-1083	-1183	-1505	-977	
			Ave. Int. =	-1187	S. D. =	228		
P 1	.000	PPM		1279	1573	1071	1567	
			Ave. Int. =	1373	S. D. =	243		

.E.C. Laboratories Folder: pripl198 Page 3
09:41:13 17 Oct 1996 Protocol: priorplt

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 2				Seq: 524		09:41:13 17 Oct 1996 ICP		
As2	.000	PPM		1181	-436	827	-1227	
			Ave. Int. =	86	S. D. =	1117		
Be2	.000	PPM		-3081	-3569	-891	-179	
			Ave. Int. =	-1930	S. D. =	1649		
Ba1	.000	PPM		115312	113598	102148	106164	
			Ave. Int. =	109306	S. D. =	6208		
Cd1	.000	PPM		335	-583	-603	1223	
			Ave. Int. =	93	S. D. =	871		
Co1	.000	PPM		711	-145	837	-1292	
			Ave. Int. =	28	S. D. =	982		
Cr4	.000	PPM		-703	-9343	-6527	-1015	
			Ave. Int. =	-4397	S. D. =	4246		
Pb1	.000	PPM		-705	-3377	-729	-353	
			Ave. Int. =	-1291	S. D. =	1401		
Mn1	.000	PPM		9601	7857	9921	15105	
			Ave. Int. =	10621	S. D. =	3124		
Sb1	.000	PPM		1211	675	471	99	
			Ave. Int. =	614	S. D. =	464		
Tl1	.000	PPM		-9	-377	35	-141	
			Ave. Int. =	-123	S. D. =	185		
Ni3	.000	PPM		2703	2749	-585	3535	
			Ave. Int. =	2101	S. D. =	1831		
Se1	.000	PPM		317	-209	751	375	
			Ave. Int. =	309	S. D. =	395		
V 2	.000	PPM		157241	164203	159185	160745	
			Ave. Int. =	160344	S. D. =	2945		
Cu1	.000	PPM		5285	6235	-3689	2999	
			Ave. Int. =	2708	S. D. =	4475		
Fe2	.000	PPM		21217	20033	18753	35665	
			Ave. Int. =	23917	S. D. =	7896		
Zn1	.000	PPM		4173	3869	4165	4845	
			Ave. Int. =	4263	S. D. =	413		
Al3	.000	PPM		12229	4657	12479	5649	
			Ave. Int. =	8754	S. D. =	4178		
Na2	.000	PPM		-4521	-3267	-1955	-3791	
			Ave. Int. =	-3384	S. D. =	1082		
Ca3	.000	PPM		58630	43886	40372	36958	
			Ave. Int. =	44962	S. D. =	9541		
Mg4	.000	PPM		23836	21836	22044	20966	
			Ave. Int. =	22171	S. D. =	1205		
K 1	.000	PPM		-881	-1057	-1101	-1361	
			Ave. Int. =	-1100	S. D. =	198		
Sb1	.000	PPM		1447	2047	2373	2437	
			Ave. Int. =	2076	S. D. =	453		

ne	Conc.	Units	SD/RSD	1	2	3	4	5
* Standard: 1 Rep: 3				Seq: 525		09:42:09 17 Oct 1996 ICP		
As2	.000	PPM		-851	-969	543	501	
			Ave. Int. =	-194	S. D. =	828		
B 2	.000	PPM		-5163	-2859	-2113	-2947	
			Ave. Int. =	-3271	S. D. =	1316		
Ba1	.000	PPM		99614	104564	108248	110046	
			Ave. Int. =	105618	S. D. =	4607		
Cd1	.000	PPM		263	487	-305	2551	
			Ave. Int. =	749	S. D. =	1247		
C 1	.000	PPM		637	-9	159	-257	
			Ave. Int. =	133	S. D. =	377		
Cr4	.000	PPM		951	-6473	-12855	-1337	
			Ave. Int. =	-4929	S. D. =	6129		
P 1	.000	PPM		-755	-2209	405	-2521	
			Ave. Int. =	-1270	S. D. =	1356		
Mn1	.000	PPM		7737	5833	6827	6434	
			Ave. Int. =	6708	S. D. =	799		
S 1	.000	PPM		959	263	-245	-323	
			Ave. Int. =	164	S. D. =	591		
T 1	.000	PPM		-639	3	-505	-319	
			Ave. Int. =	-365	S. D. =	278		
Ni3	.000	PPM		3549	2535	1191	3629	
			Ave. Int. =	2726	S. D. =	1138		
S 1	.000	PPM		495	1173	-1	487	
			Ave. Int. =	539	S. D. =	482		
V 2	.000	PPM		157035	157075	160169	161913	
			Ave. Int. =	159048	S. D. =	2409		
C 1	.000	PPM		6211	2983	4081	4713	
			Ave. Int. =	4497	S. D. =	1348		
F 2	.000	PPM		26753	19113	18793	18199	
			Ave. Int. =	20715	S. D. =	4043		
Zn1	.000	PPM		3445	4661	2911	2621	
			Ave. Int. =	3410	S. D. =	901		
13	.000	PPM		13697	10007	11871	11943	
			Ave. Int. =	11880	S. D. =	1507		
Na2	.000	PPM		-4691	-4401	-1867	-3787	
			Ave. Int. =	-3687	S. D. =	1270		
a3	.000	PPM		36782	42094	49468	31522	
			Ave. Int. =	39967	S. D. =	7665		
Mg4	.000	PPM		22646	20078	22446	21374	
			Ave. Int. =	21636	S. D. =	1179		
K 1	.000	PPM		-305	-587	-745	-1477	
			Ave. Int. =	-779	S. D. =	500		
1	.000	PPM		1039	39	2199	1965	
			Ave. Int. =	1311	S. D. =	985		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
* * Standard: 2 Rep: 1				Seq: 526		09:45:18 17 Oct 1996 ICP		
As2	1.00	PPM		13077	15399	13821	14783	
			Ave. Int. =	14270	S. D. =	1027		
B 2	1.00	PPM		3801317	3916468	3871898	3863896	
			Ave. Int. =	3863395	S. D. =	47409		
Ba1	1.00	PPM		8205612	8464003	8371204	8383817	
			Ave. Int. =	8356159	S. D. =	108453		
C 1	1.00	PPM		1644442	1688422	1677964	1662598	
			Ave. Int. =	1668357	S. D. =	19148		
C 1	1.00	PPM		184012	189078	186538	187498	
			Ave. Int. =	186782	S. D. =	2123		
Cr4	1.50	PPM		2180939	2231328	2207881	2203403	
			Ave. Int. =	2205888	S. D. =	20654		
P 1	1.00	PPM		57189	55557	57943	55077	
			Ave. Int. =	56442	S. D. =	1349		
Mn1	1.50	PPM		3654284	3753727	3714290	3708196	
			Ave. Int. =	3707624	S. D. =	40888		
S 1	1.00	PPM		18559	19205	19221	18433	
			Ave. Int. =	18855	S. D. =	417		
T 1	1.00	PPM		4013	4831	4535	4399	
			Ave. Int. =	4445	S. D. =	340		
Ni3	1.50	PPM		357621	367669	369011	362741	
			Ave. Int. =	364261	S. D. =	5183		
S 1	1.00	PPM		7583	7711	7493	6885	
			Ave. Int. =	7418	S. D. =	366		
V 2	1.50	PPM		2824006	2886994	2871434	2866970	
			Ave. Int. =	2862351	S. D. =	26966		
C 1	1.50	PPM		1081538	1106160	1099302	1103664	
			Ave. Int. =	1097666	S. D. =	11119		
Fe2	1.50	PPM		1121826	1155612	1146386	1145436	
			Ave. Int. =	1142315	S. D. =	14410		
Zn1	1.50	PPM		490120	496704	496320	496778	
			Ave. Int. =	494981	S. D. =	3247		
L 3	1.50	PPM		149285	152831	151159	148455	
			Ave. Int. =	150433	S. D. =	1959		
Na2	10.0	PPM		111392	115304	116120	115734	
			Ave. Int. =	114638	S. D. =	2189		
a3	10.0	PPM		10326444	10605970	10503219	10505739	
			Ave. Int. =	10485343	S. D. =	116240		
Mg4	10.0	PPM		495076	511268	500634	504378	
			Ave. Int. =	502839	S. D. =	6796		
K 1	10.0	PPM		9148	8450	8622	8584	
			Ave. Int. =	8701	S. D. =	307		
b1	1.00	PPM		79272	80264	78272	77546	
			Ave. Int. =	78839	S. D. =	1185		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
** Standard: 2 Rep: 2				Seq: 527		09:46:15 17 Oct 1996 ICP		
As2	1.00	PPM		14469	15669	13783	14341	
			Ave. Int. =	14566	S. D. =	794		
B 2	1.00	PPM		3850648	3831950	3766890	3795307	
			Ave. Int. =	3811199	S. D. =	37428		
Ba1	1.00	PPM		8342388	8296449	8118342	8187481	
			Ave. Int. =	8236165	S. D. =	101931		
Cd1	1.00	PPM		1662582	1660812	1635752	1645032	
			Ave. Int. =	1651045	S. D. =	12891		
C 1	1.00	PPM		187282	187980	183540	183484	
			Ave. Int. =	185572	S. D. =	2395		
Cr4	1.50	PPM		2190421	2207625	2148699	2159611	
			Ave. Int. =	2176589	S. D. =	27207		
P 1	1.00	PPM		53885	56847	56695	55669	
			Ave. Int. =	55774	S. D. =	1364		
Mn1	1.50	PPM		3691394	3684644	3618925	3636317	
			Ave. Int. =	3657820	S. D. =	35693		
S 1	1.00	PPM		19363	18711	18453	16471	
			Ave. Int. =	18250	S. D. =	1246		
T 1	1.00	PPM		4119	4211	4573	4693	
			Ave. Int. =	4399	S. D. =	277		
Ni3	1.50	PPM		362603	362389	357013	361885	
			Ave. Int. =	360973	S. D. =	2657		
S 1	1.00	PPM		6831	7741	7357	7125	
			Ave. Int. =	7264	S. D. =	384		
V 2	1.50	PPM		2855066	2864946	2795950	2816144	
			Ave. Int. =	2833027	S. D. =	32477		
C 1	1.50	PPM		1093852	1087386	1071412	1082942	
			Ave. Int. =	1083898	S. D. =	9453		
Fe2	1.50	PPM		1139954	1140012	1115652	1124820	
			Ave. Int. =	1130110	S. D. =	12000		
Zn1	1.50	PPM		496122	495474	482290	483986	
			Ave. Int. =	489468	S. D. =	7347		
A 3	1.50	PPM		150869	149559	147725	145437	
			Ave. Int. =	148398	S. D. =	2358		
Na2	10.0	PPM		114760	114760	115654	113464	
			Ave. Int. =	114660	S. D. =	902		
C 3	10.0	PPM		10458386	10454843	10222232	10295290	
			Ave. Int. =	10357688	S. D. =	118069		
Mg4	10.0	PPM		497660	501194	490364	489260	
			Ave. Int. =	494620	S. D. =	5753		
K 1	10.0	PPM		7866	8370	7926	7430	
			Ave. Int. =	7898	S. D. =	385		
Mo1	1.00	PPM		79504	76968	76792	78046	
			Ave. Int. =	77828	S. D. =	1248		

Name	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 2 Rep: 3				Seq: 528		09:47:12 17 Oct 1996 ICP		
As2	1.00	PPM		14055	15535	14101	14341	
			Ave. Int. =	14508	S. D. =	696		
B 2	1.00	PPM		3823459	3817035	3726946	3788451	
			Ave. Int. =	3788973	S. D. =	44062		
Ba1	1.00	PPM		8269567	8269785	8039308	8197427	
			Ave. Int. =	8194022	S. D. =	108620		
C 1	1.00	PPM		1645896	1648546	1622058	1646792	
			Ave. Int. =	1640823	S. D. =	12558		
C 1	1.00	PPM		186450	185236	180178	185524	
			Ave. Int. =	184347	S. D. =	2827		
Cr4	1.50	PPM		2186675	2184985	2140307	2171569	
			Ave. Int. =	2170884	S. D. =	21476		
F 1	1.00	PPM		55941	54911	51799	57479	
			Ave. Int. =	55033	S. D. =	2400		
Mn1	1.50	PPM		3683236	3671468	3584037	3636141	
			Ave. Int. =	3643721	S. D. =	44538		
S 1	1.00	PPM		18493	17253	17899	19421	
			Ave. Int. =	18267	S. D. =	921		
Tl1	1.00	PPM		3639	4415	4169	4095	
			Ave. Int. =	4080	S. D. =	324		
Ni3	1.50	PPM		359957	360139	351133	359387	
			Ave. Int. =	357654	S. D. =	4359		
S 1	1.00	PPM		7199	7301	8119	6383	
			Ave. Int. =	7251	S. D. =	710		
V 2	1.50	PPM		2829914	2830090	2776118	2818824	
			Ave. Int. =	2813737	S. D. =	25627		
C 1	1.50	PPM		1088752	1088300	1059530	1078604	
			Ave. Int. =	1078797	S. D. =	13671		
Fe2	1.50	PPM		1142914	1134330	1103834	1120730	
			Ave. Int. =	1125452	S. D. =	17062		
Zn1	1.50	PPM		490240	487216	478948	491634	
			Ave. Int. =	487010	S. D. =	5682		
A 3	1.50	PPM		148749	145279	145269	151871	
			Ave. Int. =	147792	S. D. =	3175		
Na2	10.0	PPM		114224	114008	111080	111960	
			Ave. Int. =	112818	S. D. =	1544		
C 3	10.0	PPM		10410314	10376653	10154881	10303514	
			Ave. Int. =	10311341	S. D. =	113435		
Mg4	10.0	PPM		497500	497908	488324	498828	
			Ave. Int. =	495640	S. D. =	4909		
K 1	10.0	PPM		8386	8806	8562	8322	
			Ave. Int. =	8519	S. D. =	217		
M 1	1.00	PPM		79350	77512	75478	77336	
			Ave. Int. =	77419	S. D. =	1582		

ne	Conc.	Units	SD/RSD	1	2	3	4	5

** Peak Seq: 529 09:49:01 17 Oct 1996

XAp = 215 YAp = 141 Intensity = 7464047

ne	Conc.	Units	SD/RSD	1	2	3	4	5
** Standard: 3 Rep: 1				Seq: 530		09:50:21 17 Oct 1996 ICP		
As2	3.00	PPM		44367	43159	42597	45431	
			Ave. Int. =	43889	S. D. =	1266		
e2	3.00	PPM		11379951	11315789	11396630	11603171	
			Ave. Int. =	11423885	S. D. =	124501		
Ba1	3.00	PPM		24665755	24501866	24693163	25153632	
			Ave. Int. =	24753604	S. D. =	279741		
d1	3.00	PPM		4934601	4913352	4948575	5023602	
			Ave. Int. =	4955033	S. D. =	47952		
1	3.00	PPM		549385	544185	549103	558129	
			Ave. Int. =	550201	S. D. =	5800		
Cr4	4.50	PPM		6429995	6394776	6423749	6549934	
			Ave. Int. =	6449614	S. D. =	68618		
1	3.00	PPM		166213	162923	165037	167861	
			Ave. Int. =	165509	S. D. =	2077		
Mn1	4.50	PPM		10870628	10821925	10871608	11053239	
			Ave. Int. =	10904350	S. D. =	101933		
1	3.00	PPM		55859	55637	54751	56663	
			Ave. Int. =	55728	S. D. =	786		
1	3.00	PPM		13103	13275	13053	13891	
			Ave. Int. =	13331	S. D. =	386		
Ni3	4.50	PPM		1048880	1037138	1048912	1068960	
			Ave. Int. =	1050973	S. D. =	13211		
e1	3.00	PPM		20709	19901	20511	20135	
			Ave. Int. =	20314	S. D. =	364		
V 2	4.50	PPM		7998802	7964986	8009602	8171501	
			Ave. Int. =	8036223	S. D. =	92166		
u1	4.50	PPM		3242217	3235625	3254525	3310700	
			Ave. Int. =	3260767	S. D. =	34198		
e2	4.50	PPM		3284867	3279435	3289905	3352664	
			Ave. Int. =	3301718	S. D. =	34232		
Zn1	4.50	PPM		1432679	1421821	1435755	1461149	
			Ave. Int. =	1437851	S. D. =	16642		
13	4.50	PPM		412695	422279	422071	431119	
			Ave. Int. =	422041	S. D. =	7524		
Na2	30.0	PPM		348176	347950	347080	358304	
			Ave. Int. =	350378	S. D. =	5305		
a3	30.0	PPM		31102078	30974819	31209191	31729648	
			Ave. Int. =	31253934	S. D. =	331296		
Mg4	30.0	PPM		1433524	1431348	1440282	1450356	
			Ave. Int. =	1438878	S. D. =	8546		
K 1	30.0	PPM		26777	27915	27305	27093	
			Ave. Int. =	27273	S. D. =	480		
1	3.00	PPM		217065	217011	217401	225209	
			Ave. Int. =	219172	S. D. =	4029		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
* * Standard: 3 Rep: 2				Seq: 531		09:51:15 17 Oct 1996 ICP		
As2	3.00	PPM		43421	44445	43741	44393	
			Ave. Int. =	44000	S. D. =	502		
B2	3.00	PPM		11397600	11352272	11404780	11408310	
			Ave. Int. =	11390741	S. D. =	26030		
Ba1	3.00	PPM		24696851	24570895	24701571	24703197	
			Ave. Int. =	24668129	S. D. =	64878		
Cd1	3.00	PPM		4958759	4936169	4976881	4963503	
			Ave. Int. =	4958828	S. D. =	16943		
Co1	3.00	PPM		552921	545449	551975	551201	
			Ave. Int. =	550387	S. D. =	3366		
Cr4	4.50	PPM		6431147	6406829	6434427	6452547	
			Ave. Int. =	6431238	S. D. =	18798		
Pb1	3.00	PPM		164997	159885	167029	170811	
			Ave. Int. =	165681	S. D. =	4553		
Mn1	4.50	PPM		10855748	10853428	10889476	10888694	
			Ave. Int. =	10871837	S. D. =	19942		
Sb1	3.00	PPM		56099	53365	54769	55679	
			Ave. Int. =	54978	S. D. =	1210		
Tl1	3.00	PPM		13995	13103	13511	13397	
			Ave. Int. =	13502	S. D. =	371		
Ni3	4.50	PPM		1052552	1045994	1049904	1053552	
			Ave. Int. =	1050501	S. D. =	3376		
Se1	3.00	PPM		19797	20583	20207	20821	
			Ave. Int. =	20352	S. D. =	448		
V 2	4.50	PPM		8016092	7981794	8027785	8036333	
			Ave. Int. =	8015501	S. D. =	23954		
Cu1	4.50	PPM		3259661	3235341	3255465	3249373	
			Ave. Int. =	3249960	S. D. =	10622		
Fe2	4.50	PPM		3291211	3276067	3282379	3301169	
			Ave. Int. =	3287707	S. D. =	10915		
Zn1	4.50	PPM		1440853	1433437	1441751	1437303	
			Ave. Int. =	1438336	S. D. =	3789		
Al3	4.50	PPM		421157	415725	419229	427037	
			Ave. Int. =	420787	S. D. =	4735		
Na2	30.0	PPM		352360	349936	349921	347416	
			Ave. Int. =	349908	S. D. =	2019		
Ca3	30.0	PPM		31171911	31014086	31228599	31202265	
			Ave. Int. =	31154215	S. D. =	96248		
Mg4	30.0	PPM		1444330	1434266	1439548	1437666	
			Ave. Int. =	1438953	S. D. =	4199		
K 1	30.0	PPM		27653	26873	28123	27133	
			Ave. Int. =	27446	S. D. =	556		
Sb1	3.00	PPM		219469	217081	220361	220849	
			Ave. Int. =	219440	S. D. =	1673		

ne	Conc.	Units	SD/RSD	1	2	3	4	5
* * Standard: 3 Rep: 3				Seq: 532		09:52:12 17 Oct 1996 ICP		
As2	3.00	PPM		46511	44669	44921	44783	
			Ave. Int. =	45221	S. D. =	866		
B 2	3.00	PPM		11756775	11457278	11738920	11527892	
			Ave. Int. =	11620216	S. D. =	150346		
Ba1	3.00	PPM		25555443	24884839	25525416	24967424	
			Ave. Int. =	25233281	S. D. =	356475		
C 1	3.00	PPM		5059337	4958065	5048842	4970081	
			Ave. Int. =	5009081	S. D. =	52378		
C 1	3.00	PPM		564751	553425	564081	552449	
			Ave. Int. =	558677	S. D. =	6645		
Cr4	4.50	PPM		6626670	6458773	6607174	6479299	
			Ave. Int. =	6542979	S. D. =	86161		
F 1	3.00	PPM		167637	162235	165811	165317	
			Ave. Int. =	165250	S. D. =	2244		
Mn1	4.50	PPM		11198937	10920990	11175680	10972972	
			Ave. Int. =	11067145	S. D. =	140687		
S 1	3.00	PPM		59333	55365	55233	55089	
			Ave. Int. =	56255	S. D. =	2055		
T 1	3.00	PPM		14280	14401	13647	13623	
			Ave. Int. =	13988	S. D. =	410		
Ni3	4.50	PPM		1075200	1052944	1070280	1053186	
			Ave. Int. =	1062903	S. D. =	11536		
S 1	3.00	PPM		21359	19655	21541	19461	
			Ave. Int. =	20504	S. D. =	1098		
V 2	4.50	PPM		8252097	8078829	8241055	8099192	
			Ave. Int. =	8167793	S. D. =	91461		
C 1	4.50	PPM		3358118	3283759	3350162	3291847	
			Ave. Int. =	3320972	S. D. =	38579		
Fe2	4.50	PPM		3395696	3314713	3398384	3324154	
			Ave. Int. =	3358237	S. D. =	44985		
Zn1	4.50	PPM		1479880	1443335	1471021	1444935	
			Ave. Int. =	1459793	S. D. =	18450		
3	4.50	PPM		431725	424191	433727	426031	
			Ave. Int. =	428919	S. D. =	4534		
Na2	30.0	PPM		365128	352998	359684	354190	
			Ave. Int. =	358000	S. D. =	5573		
3	30.0	PPM		32057613	31283547	31964971	31337285	
			Ave. Int. =	31660854	S. D. =	407006		
Mg4	30.0	PPM		1479591	1446002	1470871	1447066	
			Ave. Int. =	1460883	S. D. =	16952		
K 1	30.0	PPM		28265	27407	28795	28229	
			Ave. Int. =	28174	S. D. =	573		
1	3.00	PPM		228817	221449	225291	216714	
			Ave. Int. =	223068	S. D. =	5196		

ne	Conc.	Units	SD/RSD	1	2	3	4	5
* * Standard: 4 Rep: 1				Seq: 533		09:55:21 17 Oct 1996 ICP		
As2	7.00	PPM		104410	103900	103142	104530	
			Ave. Int. =	103996	S. D. =		631	
B 2	7.00	PPM		26635704	26855206	26626120	26584534	
			Ave. Int. =	26675391	S. D. =		121917	
Ba1	7.00	PPM		57577926	58040358	57413597	57345002	
			Ave. Int. =	57594221	S. D. =		313070	
Cd1	7.00	PPM		11324778	11427980	11288985	11284419	
			Ave. Int. =	11331541	S. D. =		66778	
Co1	7.00	PPM		1266267	1281585	1267397	1263049	
			Ave. Int. =	1269575	S. D. =		8216	
Cr4	10.5	PPM		14931798	15024047	14876292	14872358	
			Ave. Int. =	14926124	S. D. =		70699	
Cu1	7.00	PPM		374437	383653	377215	379207	
			Ave. Int. =	378628	S. D. =		3879	
Fe1	10.5	PPM		25334[illegible]	25367195	25282655	25275709	
			Ave. Int. =	25365124	S. D. =		137283	
[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	
			Ave. Int. =	128703	S. D. =		1941	
Mn1	7.00	PPM		31777	32463	30823	31367	
			Ave. Int. =	31608	S. D. =		[illegible]	
[illegible]	10.5	PPM		2414153	2442289	2401889	2405961	
			Ave. Int. =	2416074	S. D. =		[illegible]	
			Ave. Int. =	46284	S. D. =		[illegible]	
[illegible]	[illegible]	PPM		184[illegible]	[illegible]	18492889	18448[illegible]	
			Ave. Int. =	18528518	S. D. =		105076	
[illegible]	10.5	PPM		7566431	7629145	7545819	[illegible]	
			Ave. Int. =	7565[illegible]	S. D. =		41943	
[illegible]	10.5	PPM		763[illegible]	[illegible]	7649[illegible]	7608444	
			Ave. Int. =	7641966	S. D. =		32152	
Zn1	10.5	PPM		3331651	3370545	3332467	3317219	
			Ave. Int. =	3337971	S. D. =		22818	
[illegible]	10.5	PPM		978703	[illegible]	970989	967205	
			Ave. Int. =	974966	S. D. =		6591	
[illegible]	70.0	PPM		832764	837721	[illegible]	[illegible]	
			Ave. Int. =	831734	S. D. =		4623	
[illegible]3	70.0	PPM		[illegible]	72991[illegible]	[illegible]	[illegible]	
			Ave. Int. =	72424659	S. D. =		40118[illegible]	
[illegible]	70.0	PPM		3341[illegible]	[illegible]	3354718	3340406	
			Ave. Int. =	3355301	S. D. =		20768	
[illegible]	70.0	PPM		[illegible]	66127	66479	65481	
			Ave. Int. =	65709	S. D. =		762	
[illegible]	7.00	PPM		[illegible]	516067	5088[illegible]	[illegible]443	
			Ave. Int. =	5106[illegible]	S. D. =		[illegible]	

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 2 Seq: 534 09:56:18 17 Oct 1996 ICP

As2	7.00	PPM	102756	101570	102012	102892	
			Ave. Int. =	102308	S. D. =	626	
Ba2	7.00	PPM	26514103	26229236	26486300	26348763	
			Ave. Int. =	26394601	S. D. =	131828	
Ba1	7.00	PPM	57203315	56585796	57245875	56889852	
			Ave. Int. =	56981210	S. D. =	307721	
Cd1	7.00	PPM	11274757	11123552	11260581	11189760	
			Ave. Int. =	11212163	S. D. =	69800	
Cd1	7.00	PPM	1266195	1245846	1255579	1254033	
			Ave. Int. =	1255413	S. D. =	8361	
Cr4	10.5	PPM	14846936	14648752	14723072	14742828	
			Ave. Int. =	14757897	S. D. =	84271	
Pb1	7.00	PPM	377597	367053	375965	372439	
			Ave. Int. =	373254	S. D. =	[illegible]	
Ni3	10.5						
			Ave. Int. =	25097855	S. D. =	134519	
Sb1	7.00	PPM	[illegible]	125619	126067	126829	
			Ave. Int. =	126963	S. D. =	1660	
					[illegible]	[illegible]	
Ni3	10.5		Ave. Int.	[illegible]			
			Ave. Int. =	2389506	S. D. =	15898	
Tl1	7.00	PPM	[illegible]	46349	46557	[illegible]	
			Ave. Int. =	46603	S. D. =	259	
V 2	10.5	PPM	18407227	18190041	183[illegible]	18318515	
			Ave. Int. =	18327093	S. D. =	99277	
Zn1	10.5	PPM	7526[illegible]	7437806	7503917	7475629	
			Ave. Int. =	7485946	S. D. =	38236	
Zn2	10.5	PPM	[illegible]	7510524	7584140	[illegible]	
			Ave. Int. =	7566420	S. D. =	[illegible]	
[illegible]	10.5	PPM	[illegible]	[illegible]	331[illegible]	[illegible]	
			Ave. Int. =	3310468	S. D. =	[illegible]	
					[illegible]	[illegible]	
			Ave. Int. =	964202	S. D. =	[illegible]	
[illegible]	70.0	PPM	827[illegible]	817050	[illegible]	[illegible]	
			Ave. Int.	[illegible]	S. D. =	[illegible]	
[illegible]	70.0	PPM	[illegible]	710[illegible]	[illegible]	[illegible]	
			Ave. Int.	[illegible]			

.E.C. Laboratories
[illegible] 17 Oct 1996

Folder: [illegible]
Protocol: priorplt

Name	Conc.	Units	SD/RSD	1	2	3	4	5
* Standard: 4 Rep: 3								
				Seq.	[illegible]	[illegible]		
			Ave. Int.					
[illegible]			Ave. Int.					
[illegible]		PPM	Ave. Int. =	57680284	S. D. =	431798		
				[illegible]	11324940	11282285	11433834	
[illegible]		PPM	Ave. Int. =	11339428	S. D. =	65593		
				[illegible]	1269819	1262027	1280531	

me	Conc.	Units	SD/RSD	1	2	3	4	5
k Standard: 5 Rep: 1				Seq: 536		10:00:25 17 Oct 1996 ICP		
As2	10.0	PPM		146775	151367	148921	146521	
			Ave. Int. =	148396	S. D. =	2254		
B 2	10.0	PPM		37437449	38476551	37861119	37199938	
			Ave. Int. =	37743764	S. D. =	559858		
Ba1	10.0	PPM		80569299	82758140	81349801	79979735	
			Ave. Int. =	81164244	S. D. =	1201660		
C 1	10.0	PPM		15748772	16161245	15916649	15677953	
			Ave. Int. =	15876155	S. D. =	214807		
C 1	10.0	PPM		1775858	1817633	1793554	1762026	
			Ave. Int. =	1787268	S. D. =	24006		
Cr4	15.0	PPM		20917943	21435844	21112060	20784405	
			Ave. Int. =	21062563	S. D. =	282887		
C 1	10.0	PPM		524565	545829	535405	525627	
			Ave. Int. =	532857	S. D. =	9930		
Mn1	15.0	PPM		35570345	36523854	35958134	35395076	
			Ave. Int. =	35861852	S. D. =	500124		
S 1	10.0	PPM		177722	186508	182714	178602	
			Ave. Int. =	181387	S. D. =	4049		
Tl1	10.0	PPM		43485	44111	44031	42445	
			Ave. Int. =	43518	S. D. =	768		
Ni3	15.0	PPM		3382276	3478325	3418069	3360738	
			Ave. Int. =	3409852	S. D. =	51409		
S 1	10.0	PPM		65121	68513	67519	65945	
			Ave. Int. =	66775	S. D. =	1527		
V 2	15.0	PPM		25946250	26698165	26270054	25803843	
			Ave. Int. =	26179578	S. D. =	396962		
C 1	15.0	PPM		10601115	10875984	10699611	10519815	
			Ave. Int. =	10674131	S. D. =	153339		
Fe2	15.0	PPM		10714928	11009201	10846238	10678446	
			Ave. Int. =	10812203	S. D. =	149800		
Zn1	15.0	PPM		4702630	4808538	4744078	4659647	
			Ave. Int. =	4728723	S. D. =	63400		
3	15.0	PPM		1373483	1419515	1390333	1370419	
			Ave. Int. =	1388438	S. D. =	22492		
Na2	100.	PPM		1176708	1211168	1191658	1170682	
			Ave. Int. =	1187554	S. D. =	18044		
C 3	100.	PPM		101341374	104056354	102426379	100615604	
			Ave. Int. =	102109928	S. D. =	1495816		
Mg4	100.	PPM		4738834	4862178	4791730	4714346	
			Ave. Int. =	4776772	S. D. =	65458		
K 1	100.	PPM		93661	95435	93471	92221	
			Ave. Int. =	93697	S. D. =	1323		
Mo1	10.0	PPM		722390	748542	733614	721198	
			Ave. Int. =	731436	S. D. =	12702		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 5 Rep: 2				Seq: 537		10:01:22 17 Oct 1996 ICP		
As2	10.0	PPM		144449	145607	144441	141879	
			Ave. Int. =	144094	S. D. =	1575		
Be2	10.0	PPM		36800922	37007662	37083200	36132748	
			Ave. Int. =	36756133	S. D. =	432379		
Ba1	10.0	PPM		79013660	79512832	79471105	77365443	
			Ave. Int. =	78840760	S. D. =	1009203		
Cd1	10.0	PPM		15542869	15571503	15670103	15242824	
			Ave. Int. =	15506825	S. D. =	184245		
Co1	10.0	PPM		1745690	1748260	1753010	1706718	
			Ave. Int. =	1738420	S. D. =	21351		
Cr4	15.0	PPM		20584086	20650479	20716428	20137383	
			Ave. Int. =	20522094	S. D. =	262103		
Cu1	10.0	PPM		520629	528269	524877	514621	
			Ave. Int. =	522099	S. D. =	5884		
Mn1	15.0	PPM		35023260	35181834	35270301	34383454	
			Ave. Int. =	34964712	S. D. =	400756		
Pb1	10.0	PPM		177840	179506	177870	175834	
			Ave. Int. =	177763	S. D. =	1503		
Tl1	10.0	PPM		42813	42951	43893	42511	
			Ave. Int. =	43042	S. D. =	596		
Ni3	15.0	PPM		3331094	3359290	3359340	3262056	
			Ave. Int. =	3327945	S. D. =	45896		
Se1	10.0	PPM		64839	64913	65049	63391	
			Ave. Int. =	64548	S. D. =	776		
V 2	15.0	PPM		25548406	25640135	25747964	25059201	
			Ave. Int. =	25498927	S. D. =	304284		
Zn1	15.0	PPM		10428855	10471029	10485233	10201133	
			Ave. Int. =	10396563	S. D. =	132468		
Fe2	15.0	PPM		10563649	10604571	10627941	10356734	
			Ave. Int. =	10538224	S. D. =	123876		
Mn1	15.0	PPM		4635469	4642909	4653839	4535810	
			Ave. Int. =	4617007	S. D. =	54654		
Al3	15.0	PPM		1354501	1360661	1365077	1337869	
			Ave. Int. =	1354527	S. D. =	11922		
Na2	100.	PPM		1158656	1162754	1169722	1127985	
			Ave. Int. =	1154779	S. D. =	18438		
Ca3	100.	PPM		99790435	100126312	100405879	97755148	
			Ave. Int. =	99519444	S. D. =	1202807		
Mg4	100.	PPM		4673130	4699292	4703394	4581406	
			Ave. Int. =	4664306	S. D. =	56869		
K 1	100.	PPM		92787	92583	91649	90883	
			Ave. Int. =	91976	S. D. =	881		
Mo1	10.0	PPM		714710	712598	720040	697640	
			Ave. Int. =	711247	S. D. =	9597		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 5 Rep: 3				Seq: 538		10:02:19 17 Oct 1996 ICP		
As2	10.0	PPM		148329	148289	147303	150383	
			Ave. Int. =	148576	S. D. =	1295		
B 2	10.0	PPM		37269906	37360934	37173151	37772367	
			Ave. Int. =	37394090	S. D. =	263583		
Ba1	10.0	PPM		79967111	79983673	79733934	81244088	
			Ave. Int. =	80232202	S. D. =	684160		
C d1	10.0	PPM		15695360	15764732	15646769	15882569	
			Ave. Int. =	15747358	S. D. =	102316		
Co1	10.0	PPM		1763548	1772010	1761658	1791554	
			Ave. Int. =	1772193	S. D. =	13670		
Cr4	15.0	PPM		20830827	20881773	20770439	21089660	
			Ave. Int. =	20893175	S. D. =	138670		
P 1	10.0	PPM		528749	528485	532381	533269	
			Ave. Int. =	530721	S. D. =	2459		
Mn1	15.0	PPM		35432908	35534746	35396828	35925527	
			Ave. Int. =	35572502	S. D. =	242487		
S 1	10.0	PPM		183620	178278	177882	181094	
			Ave. Int. =	180219	S. D. =	2681		
Tl1	10.0	PPM		44349	43557	44459	44179	
			Ave. Int. =	44136	S. D. =	403		
N 3	15.0	PPM		3368594	3377532	3363708	3422931	
			Ave. Int. =	3383191	S. D. =	27104		
S 1	10.0	PPM		65657	65393	65865	66257	
			Ave. Int. =	65793	S. D. =	365		
V 2	15.0	PPM		25893852	25973164	25821595	26283196	
			Ave. Int. =	25992952	S. D. =	203156		
Z 1	15.0	PPM		10555621	10573119	10527899	10713677	
			Ave. Int. =	10592579	S. D. =	82851		
Fe2	15.0	PPM		10689528	10711656	10651217	10847420	
			Ave. Int. =	10724955	S. D. =	85375		
n1	15.0	PPM		4681149	4679631	4655061	4739318	
			Ave. Int. =	4688790	S. D. =	35744		
l3	15.0	PPM		1377757	1378925	1371259	1392827	
			Ave. Int. =	1380192	S. D. =	9073		
Na2	100.	PPM		1172026	1172688	1170208	1192264	
			Ave. Int. =	1176797	S. D. =	10365		
a3	100.	PPM		100872279	101101733	100491329	102009070	
			Ave. Int. =	101118603	S. D. =	644816		
Mg4	100.	PPM		4721610	4743002	4711892	4772658	
			Ave. Int. =	4737291	S. D. =	26922		
1	100.	PPM		92839	93057	93375	94589	
			Ave. Int. =	93465	S. D. =	781		
o1	10.0	PPM		723336	723334	719824	737238	
			Ave. Int. =	725933	S. D. =	7716		

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Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------

*** Standard: 1 Rep: 1                Seq:  539     10:08:02 17 Oct 1996 ICP

Ag1    .000    PPM          -1441     -2197     -1443     -1285
                      Ave. Int. =    -1592 S. D. =      410

*** Standard: 1 Rep: 2                Seq:  540     10:08:51 17 Oct 1996 ICP

Ag1    .000    PPM           -677      2215       871     -1657
                      Ave. Int. =      188 S. D. =     1706

*** Standard: 1 Rep: 3                Seq:  541     10:09:39 17 Oct 1996 ICP

Ag1    .000    PPM           -465      -477     -1215       795
                      Ave. Int. =     -341 S. D. =      834

*** Peak                              Seq:  542     10:11:19 17 Oct 1996

XAp = 215  YAp = 141   Intensity =   7548068

*** Standard: 5 Rep: 1                Seq:  543     10:12:39 17 Oct 1996 ICP

Ag1    1.00    PPM         270721    257215    236825    226957
                      Ave. Int. =   247930 S. D. =    19739

*** Standard: 5 Rep: 2                Seq:  544     10:13:27 17 Oct 1996 ICP

Ag1    1.00    PPM         218617    224581    235097    241149
                      Ave. Int. =   229861 S. D. =    10151

*** Standard: 5 Rep: 3                Seq:  545     10:14:15 17 Oct 1996 ICP

Ag1    1.00    PPM         248771    255611    245123    252071
                      Ave. Int. =   250394 S. D. =     4489

*** Standard: 6 Rep: 1                Seq:  546     10:17:16 17 Oct 1996 ICP

Ag1    2.00    PPM         543690    554580    561034    534154
                      Ave. Int. =   548365 S. D. =    11873

*** Standard: 6 Rep: 2                Seq:  547     10:18:04 17 Oct 1996 ICP

Ag1    2.00    PPM         514840    513698    477804    443827
                      Ave. Int. =   487542 S. D. =    33839

*** Standard: 6 Rep: 3                Seq:  548     10:18:52 17 Oct 1996 ICP

Ag1    2.00    PPM         466842    495836    482780    441227
                      Ave. Int. =   471671 S. D. =    23505
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Update Intercept Seq: 549 10:21:53 17 Oct 1996 ICP

			Corr.	Avg.	SD/RSD	Old
Ag1	.000	PPM	-.025	.025	.006	.025
As2	.000	PPM	.028	-.028	.038	-.028
B 2	.000	PPM	.034	-.034	.000	-.034
Ba1	.000	PPM	.038	-.038	.001	-.038
Cd1	.000	PPM	.068	-.068	.001	-.068
Ca1	.000	PPM	.057	-.057	.005	-.057
Ca4	.000	PPM	.078	-.078	.003	-.078
Pb1	.000	PPM	.056	-.056	.019	-.056
Mn1	.000	PPM	.061	-.061	.001	-.061
S 1	.000	PPM	-.013	.013	.038	.013
Ti1	.000	PPM	.041	-.041	.061	-.041
Ni3	.000	PPM	.092	-.092	.005	-.092
S 1	.000	PPM	-.008	.008	.036	.008
V 2	.000	PPM	.048	-.048	.002	-.048
Cu1	.000	PPM	.057	-.057	.002	-.057
Fe2	.000	PPM	.073	-.073	.005	-.073
Zn1	.000	PPM	.064	-.064	.002	-.064
Al3	.000	PPM	.032	-.032	.015	-.032
Na2	.000	PPM	.234	-.234	.114	-.234
C 3	.000	PPM	.424	-.424	.001	-.424
Mg4	.000	PPM	.130	-.130	.033	-.130
K 1	.000	PPM	.067	-.067	.266	-.067
Mo1	.000	PPM	.029	-.029	.009	-.029

*** Check Standard: 2 Ck2 Seq: 550 10:27:56 17 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Ag1		101.	1.01	1.00	PPM	.090
Ba1		107.	1.07	1.00	PPM	.014
Al3		107.	1.07	1.00	PPM	.031

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3 Seq: 551 10:30:56 17 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
As2	H	111.	1.11	1.00	PPM	.060
Be2		105.	1.05	1.00	PPM	.014
Cd1		107.	1.07	1.00	PPM	.010
Co1	H	111.	1.11	1.00	PPM	.020
Cr4	H	112.	1.12	1.00	PPM	.015
Pb1		108.	1.08	1.00	PPM	.042
Mn1		107.	1.07	1.00	PPM	.012
Sb1		98.6	.986	1.00	PPM	.018
Tl1		98.3	.983	1.00	PPM	.124
Ni3	H	112.	1.12	1.00	PPM	.009
Se1	H	113.	1.13	1.00	PPM	.055
V 2		109.	1.09	1.00	PPM	.013
Cu1		106.	1.06	1.00	PPM	.011
Fe2	H	111.	1.11	1.00	PPM	.008
Zn1		108.	1.08	1.00	PPM	.014
Mo1	H	113.	1.13	1.00	PPM	.034

*** Peak Seq: 552 10:33:16 17 Oct 1996

XAp = 213 YAp = 140 Intensity = 7576852

*** Check Standard: 4 Ck4 Seq: 553 10:34:36 17 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Na2		100.	50.2	50.0	PPM	.630
Ca3		103.	51.7	50.0	PPM	.739
Mg4		103.	10.3	10.0	PPM	.163
K 1		106.	10.6	10.0	PPM	.460

*** Check Standard: 3 Ck3 Seq: 554 10:41:39 17 Oct 1996 ICP

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
As2		108.	1.08	1.00	PPM	.096
Be2		107.	1.07	1.00	PPM	.017
Cd1	H	113.	1.13	1.00	PPM	.023
Co1		107.	1.07	1.00	PPM	.027
Cr4		105.	1.05	1.00	PPM	.020
Pb1	H	111.	1.11	1.00	PPM	.019
Mn1		108.	1.08	1.00	PPM	.018
Sb1		102.	1.02	1.00	PPM	.049
Tl1	H	110.	1.10	1.00	PPM	.035
Ni3		102.	1.02	1.00	PPM	.014
Se1		107.	1.07	1.00	PPM	.041
V 2		107.	1.07	1.00	PPM	.020
Cu1	H	110.	1.10	1.00	PPM	.016
Fe2		105.	1.05	1.00	PPM	.022
Zn1		109.	1.09	1.00	PPM	.015
Mo1		107.	1.07	1.00	PPM	.036

ne	Conc.	Units	SD/RSD	1	2	3	4	5

** Update Slope Seq: 555 10:46:03 17 Oct 1996 ICP

			% Corr.	Avg.	SD/RSD	Old
As2	3.00	PPM	-4.42	3.14	.060	3.14
Be2	3.00	PPM	-3.37	3.10	.010	3.10
B 1	3.00	PPM	-2.95	3.09	.011	3.09
Cd1	3.00	PPM	-5.23	3.17	.009	3.17
Co1	3.00	PPM	-4.39	3.14	.011	3.14
C 4	4.50	PPM	-4.71	4.72	.015	4.72
P 1	3.00	PPM	-3.11	3.10	.024	3.10
Mn1	4.50	PPM	-3.48	4.66	.016	4.66
Sb1	3.00	PPM	-4.87	3.15	.066	3.15
T 1	3.00	PPM	-4.19	3.13	.109	3.13
Ni3	4.50	PPM	-3.92	4.68	.026	4.68
Se1	3.00	PPM	-7.14	3.23	.096	3.23
V 2	4.50	PPM	-3.39	4.66	.018	4.66
Cu1	4.50	PPM	-2.86	4.63	.014	4.63
Fe2	4.50	PPM	-4.39	4.71	.019	4.71
Z 1	4.50	PPM	-4.02	4.69	.010	4.69
A 3	4.50	PPM	-2.49	4.61	.035	4.61
Na2	30.0	PPM	-2.11	30.6	.245	30.6
Ca3	30.0	PPM	-2.18	30.7	.106	30.7
M 4	30.0	PPM	-3.63	31.1	.109	31.1
K 1	30.0	PPM	-4.17	31.3	.423	31.3
Mo1	3.00	PPM	-6.82	3.22	.016	3.22

** Update Slope Seq: 556 10:49:09 17 Oct 1996 ICP

			% Corr.	Avg.	SD/RSD	Old
A 1	1.00	PPM	.420	.996	.071	.996

* * Check Standard: 2 Ck2 Seq: 557 10:54:05 17 Oct 1996 ICP

ine	Flag	%Rcv.	Found	True	Units	SD/RSD
Ag1		102.	1.02	1.00	PPM	.041
3 1		103.	1.03	1.00	PPM	.010
Al3		103.	1.03	1.00	PPM	.015

* * Peak Seq: 558 10:55:45 17 Oct 1996

XAp = 212 YAp = 140 Intensity = 7592380

ne	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3 Seq: 559 10:57:05 17 Oct 1996 ICP

ne	Flag	%Rcv.	Found	True	Units	SD/RSD
As2		99.1	.991	1.00	PPM	.032
3 2		99.2	.992	1.00	PPM	.003
1		100.	1.00	1.00	PPM	.011
Co1		101.	1.01	1.00	PPM	.015
Cr4		98.6	.986	1.00	PPM	.003
1		99.5	.995	1.00	PPM	.018
Mn1		97.7	.977	1.00	PPM	.005
Sb1		100.	1.00	1.00	PPM	.029
1		102.	1.02	1.00	PPM	.057
3		96.1	.961	1.00	PPM	.010
Se1		98.1	.981	1.00	PPM	.093
2		97.9	.979	1.00	PPM	.006
1		101.	1.01	1.00	PPM	.005
Fe2		98.2	.982	1.00	PPM	.008
Zn1		96.9	.969	1.00	PPM	.008
1		97.1	.971	1.00	PPM	.016

*** Check Standard: 4 Ck4 Seq: 560 11:00:08 17 Oct 1996 ICP

ne	Flag	%Rcv.	Found	True	Units	SD/RSD
2		98.9	49.4	50.0	PPM	.330
Ca3		101.	50.6	50.0	PPM	.260
Mg4		100.	10.0	10.0	PPM	.074
1		102.	10.2	10.0	PPM	.559

ne	Conc.	Units	SD/RSD	1	2	3	4	5

* Update Intercept Seq: 561 11:02:40 17 Oct 1996 ICP

			Corr.	Avg.	SD/RSD	Old
g1	.000	PPM	-.020	.020	.006	.020
2	.000	PPM	.018	-.018	.019	-.018
2	.000	PPM	.034	-.033	.000	-.033
a1	.000	PPM	.003	-.003	.015	-.003
d1	.000	PPM	.070	-.066	.001	-.066
1	.000	PPM	.061	-.059	.005	-.059
4	.000	PPM	.079	-.075	.002	-.075
b1	.000	PPM	.064	-.062	.013	-.062
1	.000	PPM	.061	-.058	.001	-.058
1	.000	PPM	.048	-.046	.072	-.046
Tl1	.000	PPM	.078	-.075	.043	-.075
i3	.000	PPM	.089	-.086	.004	-.086
1	.000	PPM	-.019	.018	.046	.018
2	.000	PPM	.055	-.053	.002	-.053
Cu1	.000	PPM	.063	-.061	.003	-.061
2	.000	PPM	.075	-.071	.003	-.071
1	.000	PPM	.062	-.060	.003	-.060
Al3	.000	PPM	-.020	.019	.052	.019
2	.000	PPM	.194	-.190	.180	-.190
3	.000	PPM	.387	-.379	.015	-.379
Mg4	.000	PPM	.102	-.098	.024	-.098
1	.000	PPM	.014	-.013	.386	-.013
1	.000	PPM	.003	-.003	.017	-.003

Section VI
General Chemistry Raw Data & QC Reports

Quality Control Data

Client:	Ecology and Environment		
Project :	S05-9610-805	Date Sampled	10/11/96*
Project No.:	KJ5100	Date Received in Lab	10/15/96
Sample Types:	Vat & Drum Samples	Date Analysis Completed	10/17/96
Station No.:	Drum 01, 02, 04, 10, 11 & Vat 08.		
B.E.C. Sample No.:	96T14933, 96T14934, 96T14936, 96T14940, 96T14942 & 96T14943.		

Test	Batch No.	Method Blank	Method Spike	Duplicate R_1	Duplicate R_2	RPD %	Matrix Spike	units
Total Chloride	457-45	LT 1 mg/l	101.48%	19.2	19.2	0.0%	100.32%	mg/l
Total Sulfate	457-48	LT 2 mg/l	96.7%	1720	1740	1.16%	95.52%	mg/l
Total Cyanide	446-44	LT 0.1	82.16%	2.79	2.82	1.07%	100.1%	mg/kg
Reactive Cyanide	446-47	LT 0.1	22.26%	LT 0.1	LT 0.1	NA	0.6%**	mg/kg
Flash Point		NA	Calibrated on 10/7/96 using p-xylene 79.0°F (Limits are 81 ± 1.5°F).					
pH Meter calibrated on 10/15/96 buffer values 3.99, 7.00 & 10.01 (Limits ±0.05 S.U. from true values).								S.U.

pH meter was standardized on the day of analysis.

* Date sampled per chain-of-custody

** Low recovery for Reactive Cyanide is typical for this procedure.

Approved By: J. F. Blair

Date: 10/25/96

Biological & Environmental Control Laboratories Inc.
Chemistry Department

Analytical Test: Reactive CN

RAW DATA RESULT LOG

Batch No: 446 - 47

Batch Start Date: 10/15/96

Matrix:

Batch End Date:

	SAMPLE #	weight (g)	ml distilled	Abs at 578nm		DATE ANALYZED	INITIALS
MBLK	QC Sand	10.12	25	0.001		10/15/96	CSY
MSPK	QC Sand	10.48	25	~~0.811~~ 0.652			
1	96T14940	10.57	25	~~0.027~~ 0.008			
DUP	96T1490	10.57	25	0.011			
SPIKE	96T14940	10.57	25	~~0.008~~ 0.027			
2	96T14943	10.07	~~0.5~~ 0.3	0.554		10/15/96	CSY
3							
4							
5							
6							
7							
8							
9							
10							

COMMENTS:

Spike = 2.0 IOC-2581 100 mg/L

V [illegible] 0.347 (1.17%) CSY 10/15/96

QA/QC:

METHOD BLANK = LT 0.1 mg/kg

SAMPLE	AMT ADDED	AMT RECOV.	% RECOV.
METH SPK.	200 mg	45.2 mg	22.26
R1 (RESULT)		0.0565 mg/kg	
R2 (RESULT)		0.0758 mg/kg	24 %RPD
MATRIX SPK	200 mg	12 mg	0.6

Approved by QA/QC: [illegible] 10/20/96

+ Sample Dup LT [illegible]

Page

Biological & Environmental Control Laboratories Inc.
Chemistry Department

Analytical Test: TOT CN w/s

RAW DATA RESULT LOG

Batch No: 446-44

Batch Start Date: 10-7-96

Matrix: solids

Batch End Date:

	SAMPLE #	wt. Sample	ml Dist	ABS @ 578nm		DATE ANALYZED	INITIALS
MBLK	QC Sand	10.10	25	0.005 LMV ~~0.007~~ 10-7-96		10-7-96	LMV
MSPK	QC Sand	10.06	25	0.248		10-7-96	LMV
1	96T14533	10.02	25	0.429		10-8-96	
DUP	96T14533	10.07	25	0.435			
SPIKE	96T14533	10.05	25	0.746			
2	96T14534	10.15	15	0.447			
3	96T14537	10.08	25	0.045		10-8 96	LMV
4	96T14689 7.34	10.22 ~~10.40~~	25	0.062		10-9-96	LMV
5	96T14781	10.19	25	0.007		10-14-96	LMV
6	96T14782	10.06	25	0.048		10-14-96	LMV
7	96T14940	10.27	1/25 = .2ml used = 0.008ml	0.353		10-16-96	
8	96T14943	10.47	1/50 = .1ml used = 0.002ml	.693			
9	96T14984	10.06	25	0.307		10-16-96	LMV
10							

COMMENTS:

Spk IOC-259 2ml 10 mg/L
STD 6ug = 0.354 10-7-96
" " = 0.345 10-8-96
" " = 0.357 10-9-96
" " = 0.357 10-14-96
" " = 0.321 10-16-96

QA/QC:

METHOD BLANK = LT 0.1 mg/kg

SAMPLE	AMT. ADDED	AMT RECOV.	% RECOV.
METH SPK.	20ug	16.4ug	82.16
R1 (RESULT)		2.793 mg/kg	
R2 (RESULT)		2.817 mg/kg	.86 %RPD
MATRIX SPK	20ug	20.0ug	100.14

Approved by QA/QC: J.F.B 10/20/96

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Biological & Environmental Control Laboratories Inc.
Chemistry Department

Analytical Test: SO_4^{2-}

RAW DATA RESULT LOG

Batch No: 457-48

Batch Start Date: 10/15/96

Matrix: Liquid

Batch End Date:

	SAMPLE #	ml Sample	NTU			DATE ANALYZED	INITIALS
MBLK	DI H_2O	100	0.42			10/15/96	AAT
MSPK	DI H_2O	100	94.5				
1	96T14760	1.0	83.7				
DUP	96T14760	1.0	84.8				
SPIKE	96T14760	1.0	179.4				
2	96T14933	1/1,00 → 1/10,000 used 20 ml = 0.002	149.4			10/15/96	AAT
R2 ✓ 3	96T14933	1/1000 used 2ml = 0.002ml	152.3			10/16/96	AAT
4	96T15120	2.0	173.2			10/21/96	AAT
5							
6							
7							
8							
9							
10							

COMMENTS:

Spk 10ml # 528 200ppm
✓ curve 98.2
✓ " 98.9
✓ " 96.4

QA/QC:

METHOD BLANK = LT 2.0 mg/L

SAMPLE	AMT ADDED	AMT RECOV.	% RECOV.
METH SPK.	2000 ug	1934 ug	96.7
R1 (RESULT)		1717.74 mg/L	
R2 (RESULT)		1739.82 mg/L	1.28 %RPD
MATRIX SPK	2000 ug	1910 ug	95.52

Approved by QA/QC: J.F.B. 10/20/96

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Biological & Environmental Control Laboratories Inc.

Chemistry Department

Analytical Test: CHLORIDE

RAW DATA RESULT LOG

Batch No: 457-45

Batch Start Date: 10-14-96

Matrix:

Batch End Date:

	SAMPLE #	ml Sample	ml $Hg(NO_3)_2$			DATE ANALYZED	INITIALS
MBLK	DI H_2O	50	0.05			10-14-96	GJB
MSPK	↓	50	8.85			↓	↓
1	96T14760	50	1.80			↓	↓
DUP	96T14760	50	1.80			↓	↓
SPIKE	96T14760	50	~~14.45~~ 10.45			↓	↓
2	96T14934	0.1 ml	70.1 ml			10-17-96	GJB
3	96T14936	.0075 ml ~~0.1 ml~~	2.4 ml			↓	↓
4	96T15120	50	1.7			10/22/96	
5							
6							
7							
8							
9							
10							

COMMENTS:

Spike 5.0 ml #531

Normality $Hg(NO_3)_2$ = 17.3 ml

Normality $Hg(NO_3)_2$ = 16.2 ml

N $Hg(NO_3)_2$ = 17.7 10/22/96

QA/QC: METHOD BLANK = LT1 mg/L

SAMPLE	AMT. ADDED	AMT RECOV.	% RECOV.
METH SPK.	88.6 ug	90.42 ug	101.48%
R1 (RESULT)		19.2 mg/L	
R2 (RESULT)		19.2 mg/L	0.00 %RPD
MATRIX SPK	88.6 ug	106.86 ug	100.32%

Approved by QA/QC: J.F.B. 10/20/96

Month: OCTOBER 1996

ORION SA720 pH METER

	Date Checked	pH 4.00	pH 7.00	pH 10.00	Temp	Slope	Initials
1	10/1/96	4.00	7.00	9.97	22.6	96.5	FG
2	10/2/96	4.01	7.00	9.99	22.7	96.8	JEB
3	10/3/96	4.01 ~~4.00~~ MT 10/3/96	7.01 ~~7.00~~	9.96 ~~9.96~~ MT 10/3/96	22.2°C	98.1	JEB/MT
4							
5							
6							
7	10/7/96	4.01	6.99	10.02	21.8°C	98.5	JEB
8	10/8/96	4.01	7.00	10.01	22.4°C	98.5	JEB
9	10/9/96	4.01	7.00	9.99	22.4°C	98.2	JEB
10	10/10/96	4.00	7.01	10.00	22.4°C	98.9	JEB
11	10/11/96	4.00	7.00	10.00	22.1	97.7	CY
12							
13							
14	10/14/96	4.00	7.00	10.01	22.3	96.4	CY
15	10/15/96	3.99	7.00	10.01	22.2	98.8	JEB
16							
17	10/17/96	4.00	7.00	9.99	21.9	99.8	CY
18	~~10/18/96~~ 10/21/96	4.00	7.00	10.01	22.4	97.8	CY
19		~~4.00~~	~~7.00~~		~~2~~ 10/21/96		
20						10/22/96	
21	10/21/96	4.00	7.00	10.05	22.4	~~92~~ 97.2	CY
22	10/22/96	4.00	7.00	10.03	22.6	97.8	CY
23	10/23/96	4.00	7.00	9.95	21.9	98.6	BSG
24							
25							
26							
27							
28							
29							
30							
31							
Acceptance Limits =		± 0.05 pH UNITS	± 0.05 pH UNITS	± 0.05 pH UNITS			

Refer to instructional manual if not within these limits