US EPA RECORDS CENTER REGION 5
436238

ecology & environment, inc.

6777-N Engle Road
Middleburg Hts., Ohio 44130
Tel: 216-243-3330
FAX: 216-243-6923

Fax Cover Sheet

TO:

Company/Location:	U.S. EPA
Contact Name:	Steve Renninger
Fax Number:	(513) 403 - 1502

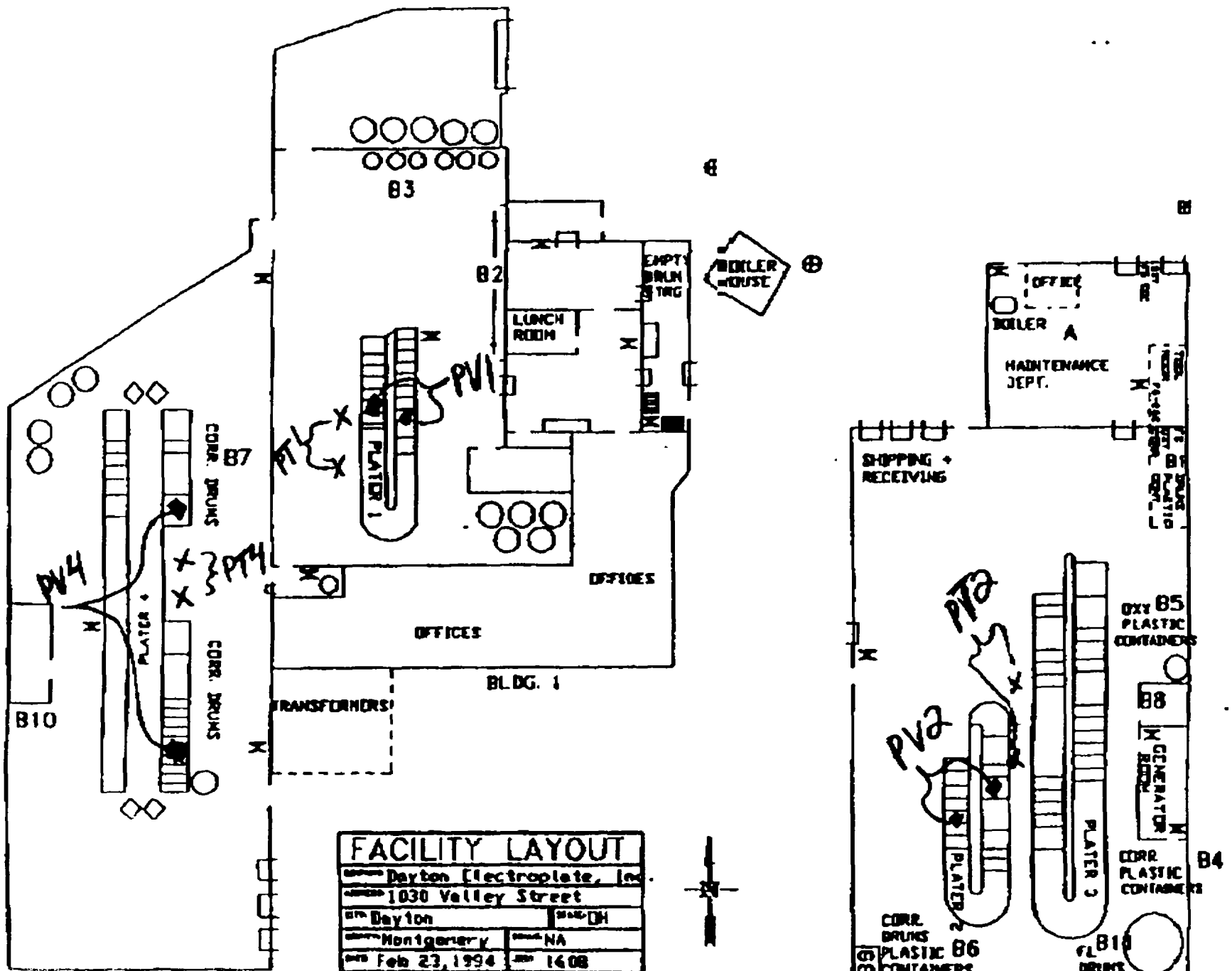
FROM:

Sender:	Jeff Kimble
Project Charge No:	
Message:	Sample locations and results for Dayton Electroplate.

Number of pages:	3
Date/Time Sent:	04/21

If there are any problems with this transmission, please call:

at (216) 243-3330 immediately.


B3
B2
LUNCH ROOM
EMPTY DRUM STRG
BOILER HOUSE
PV1
PT1
PLATER 1
CORR. DRUMS
B7
PV4
PT4
PLATER 4
CORR. DRUMS
B10
OFFICES
OFFICES
BLDG. 1
TRANSFORMERS
BLDG. 3
OFFICE
BOILER
A
MAINTENANCE DEPT.
SHIPPING + RECEIVING
B1
PT2
PV2
OXY PLASTIC CONTAINERS
B5
B8
GENERATOR ROOM
PLATER 2
PLATER 3
CORR. PLASTIC CONTAINERS
B4
CORR. DRUMS
PLASTIC CONTAINERS
B6
FL DRUMS
B11
FACILITY LAYOUT
Dayton Electroplate, Inc.
1030 Valley Street
Dayton
OH
Montgomery
NA
Feb 23, 1994
1608

DAYTON ELECTROPLATE SITE
DAYTON, OHIO
TCLP LEAD, CADMIUM, CHROMIUM
April 10, 1997
(units = ppm)

SAMPLE ID	TCLP Pb	TCLP Cd	TCLP Cr
PT1-1	<EQL	<EQL	2.1
PT1-2	<EQL	<EQL	0.178
PT1-3	<EQL	0.131	<EQL
PV1-1	<EQL	<EQL	0.106
PV1-2	<EQL	<EQL	<EQL
PV1-3	<EQL	0.199	0.089
PT2-1	<EQL	<EQL	<EQL
PT2-2	<EQL	<EQL	<EQL
PT2-3	<EQL	<EQL	<EQL
PV2-1	<EQL	<EQL	10.9
PV2-2	<EQL	<EQL	<EQL
PV2-3	<EQL	<EQL	0.936
PT4-1	<EQL	<EQL	<EQL
PT4-2	<EQL	<EQL	<EQL
PT4-3	<EQL	<EQL	0.073
PV4-1	<EQL	<EQL	0.96
PV4-2	<EQL	<EQL	0.131
PV4-3	<EQL	<EQL	2.84

State of Ohio Environmental Protection Agency

OHIO EPA

Division of Emergency and Remedial Response

MAILING ADDRESS:
Ohio EPA / DERR
P.O. Box 1049
Columbus, Ohio 43216-1049

LOCATION ADDRESS:
Ohio EPA / DERR
1800 WaterMark Dr.
Columbus, Ohio 43215-1099

General DERR phone number 614-644-2924

George V. Voinovich, Governor

FACSIMILE INFORMATION

ROUTE TO: Tom Campbell PHONE #:

COMPANY NAME:

COMPANY FAX #:

FROM: Cliff Morton UNIT:

NUMBER OF PAGES: 10 (INCLUDING THIS PAGE)

DERR FACSIMILE NUMBER (1 of 3) 614-644-3250
OFFICE NUMBERS

( ) 614-644-3196 (ER)
(X) 614-644-3042 (SIU)
( ) 614-644-3063 (PCB/CRO/RS/SPCC)
( ) 614-644-2924 (DERR)
( ) 614-644-2260 (SERC/ RTK)

SPECIAL INSTRUCTIONS:

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NOTE TO RECEIVER:

Interoffice MEMORANDUM

to: Diane Crosby, DERR CO
from: RC Richard Ciotola, QA Officer DES
subject: Sediment samples S1464 - S1466
date: June 18, 1997

The results for sediment samples S1464 - S1466 are estimated. These three samples were analyzed on 6/13/97. Cyanide values exceeded the calibration curve of the instrument. Samples were diluted and reanalyzed on the same day. Sample S1464 was analyzed in duplicate. The relative percent difference (RPD) of the duplicates exceeded the laboratory's acceptance criteria. The analyst feels that the poor duplication may be result of a heterogeneous sample matrix. Other matrix interferences may also be present. S1466 was oily, and turned green during the distillation process. The other two samples also turned green during the preparation. Other quality control data from this analysis were within the control limits. If you have any questions or comments please feel free to contact me (614.644.4267).

Interoffice
MEMORANDUM

to: Diane Crosby, DERR CO
from: RC Richard Ciotola, QA Officer DES
subject: Sediment samples S1464 - S1466
date: June 18, 1997

The results for sediment samples S1464 - S1466 are estimated. These three samples were analyzed on 6/13/97. Cyanide values exceeded the calibration curve of the instrument. Samples were diluted and reanalyzed on the same day. Sample S1464 was analyzed in duplicate. The relative percent difference (RPD) of the duplicates exceeded the laboratory's acceptance criteria. The analyst feels that the poor duplication may be result of a heterogeneous sample matrix. Other matrix interferences may also be present. S1466 was oily, and turned green during the distillation process. The other two samples also turned green during the preparation. Other quality control data from this analysis were within the control limits. If you have any questions or comments please feel free to contact me (614.644.4267).

LIMS Number

Date Received MM 06 DD 06 YY 97

External ID 970605-SI
Dayton Electroplate

Client Name (check one)		OEPA District (check one)	
DAPC	☐	CO	☑
DOAGW	☐	CDO	☐
DERR	☑	NEDO	☐
DHWM	☐	NWDO	☐
DSW	☐	SEDO	☐
DSIWM	☐	SWDO	☐
ODNR	☐	Other	
Other			

Bill to (Project) DERR

Collection Date

Grab (or) ☒ MM 6 / DD 5 / YY 97 HH MM 09 / 30 - 1030

Composite ☐ Begin ~~6/5/97~~ / End ~~6/5/97~~ /

Frequency & Duration of Composite Sample

Sample Type (check one)		Matrix (check one)	
Ambient	☐	Air Canister	☐
Complaint	☐	Air Filter	☐
Compliance	☐	Air Foam(PUF)	☐
Litigation	☑	Drinking water	☐
NPS	☐	Filter Cartridge	☐
Survey	☐	Ground water	☐
Other		Oil	☐
		Paint	☐
Field QC		Particulate	☐
Field Duplicate	☐	Sediment/Soil	☑
Field Blank	☐	Surface water	☐
Trip Blank	☐	Tissue Baseline	☐
		Tissue Contam.	☐
		Waste water	☐
		Other	

Collected By Cliff Morton

Report Analysis to Diane Crosby

County

Container Information		
Number	Type	Preservative
	Air Canister	
	Air Filter	
	Air Foam(PUF)	
	Amber 525	N/P
	Amber 525	HCl or Na_2SO_3
	Amber BNA	
	Amber Pest/PCB	
	Cubitainer	NaOH
	Cubitainer	HNO_3
	Cubitainer	HNO_3_Filt
	Cubitainer	H_2SO_4
	Cubitainer	H_2SO_4_Filt
	Cubitainer	N/P
	Cubitainer	N/P_Filt
	Jar	H_2SO_4_Phenol
	Jar	H_2SO_4_O&G
1	Sed	~~Fecal~~ Cu
1	Sed	Metals
	Sterile(Bacteria)	
	Vial	HCl &/or $Na_2S_2O_3$
	Vial	N/P

Field Measurements	
Parameter	Results
Chlorine, mg/l F50050	
Cond, umho/cm F94	
DO mg/l P299	
Flow, cfs P61	
Gage Ht, ft	
pH, su P400	
Temp, °C P10	
Other	

Sample Location
Dayton Electroplate
Manhole - 1A

Field Comments

Lab Comments
* Cyanide results returned (See toc)

Fish Matrix, Additional Information

Latitude/Longitude

Common Name

Fish Type
Whole Body Composite (WBC) ☐
Skin On Fillet Composite (SOFC) ☐
Skin Off Fillet Composite (SFFC) ☐
Whole Body (WB) ☐
Skin On Fillet (SOF) ☐
Skin Off Fillet (SFF) ☐

On-Site Information
Date Fish Ground MM / DD / YY
Date Received / /
Ground By

IH

	BOD-20,mg/L	P324			
	BOD-5,mg/L	P310			
	BOD-ULT,mg/L	P318			
	CBOD-20,mg/L	P80007			
	CBOD-5,mg/L	P80082			
	CBOD-ULT,mg/L	P319			
	COD,mg/L	P340			
	Conductivity,umhos/cm	P95			
	Oil&Grease,mg/L	P556			
	pH,su	P403			
	Solids_Diss(Filt),mg/L	P70300			
	Solids_Susp(nonfilt),mg/L	P530			
	Solids_Total,mg/L	P500			
	TOC,mg/L	P680			

Bacteria Parameters	Storet	Results	Date	Analyst
E. coli,#/100ml	P31648			
Fecal Strep(..,#/100ml	P31679			
Fecal Coliform,#/100ml	P31616			
Total Coliform,#/100ml	P31501			
MMO-MUG, P/A				

Nutrient Parameters	Storet	Results	Date	Analyst
Acidity,Total CaCO3,mg/L	P70508			
Alkalinity(Total CaCO3,mg/L	P410			
Ammonia,mg/L	P610			
Chloride,mg/L	P940			
Cyanide_Free (WAD),ug/L	P718			
✓ Cyanide_Total,ug/L µg/g	P720	93.9	6/30/97	*
Fluoride,mg/L	P951			
Nitrate+Nitrite,mg/L	P630			
Nitrite,mg/L	P615			
Phenolics,ug/L	P32730			
Phenolics,4-amino-ant,ug/L	P32730			
Phosphorous, Diss,mg/L	P666			
Phosphorous, Diss(L),mg/L	P666			
Phosphorous, Total,mg/L	P665			
Phosphorous, Total (L),mg/L	P665			
Sulfate,mg/L	P945			
TKN(Total Kjeldahl Nitrogen),mg/L	P625			

ICP-Flame(Higher Level MDL)					
	Aluminum, total,ug/L	P1005			
	Barium, total,ug/L	P1007			
	Calcium, total,mg/L	P910			
✓	Chromium, total,ug/L µg/g	P1034	513	6-12	BK
	Copper, total,ug/L	P1042			
	Iron, total,ug/L	P1045			
	~~Lead, total,ug/L~~				
	Magnesium, total,mg/L	P927			
	Manganese, total,ug/L	P1055			
	Nickel, total,ug/L	P1067			
	Potassium, total,mg/L	P937			
*	Silica, total,mg/L	P955			
	Sodium, total,mg/L	P929			
	Strontium, total,ug/L	P1082			
✓	Zinc, total,ug/L µg/g	P1092	4110	6-12	BK
	Hardness, Total,mg/L	P900			

Non-ICP(Lower Level MDL)					
*	Antimony, total,ug/L	P1097			
	Arsenic, total,ug/L	P1002			
*	Beryllium, total,ug/L	P1012			
✓	Cadmium, total ug/L µg/g	P1027	31.1	6-12	BK
*	Cobalt, total,ug/L	P1037			
	Copper, LL, total,ug/L	P1042			
*	CR6+, Diss Hexa Chrom, ug/L	P1920			
✓	Lead, total,ug/L µg/g	P1051	100	6/10	BS
*	Mercury, total,ug/L	P71920			
	Selenium, total,ug/L	P1147			
*	Silver, total,ug/L	P1077			
*	Thallium, total,ug/L	P1059			
*	Tin, total,ug/L	P1102			
*	Vanadium, total,ug/L	P1087			

Miscellaneous	Storet	Results	Date	Analyst
% Lipids,%				
% Solids,%	P70318			
Turbidity,ntu	P52079			
Toxicity(Bioassay)		Reported Separately		
Particle Size		Reported Separately		

Inorganics Data Approved By RC On 970618

Organic Tests (Reported Separately)

Waste Water Analysis	Date	Analyst
VOC, 624 (incl. up to 10 TICs)		
BNA, 625 (incl. up to 10 TICs)		
BN (PAH's), 625 (incl. up to 10 TICs)		
Acid (Phenols), 625 (incl. up to 10 TICs)		
Organochl. Pesticides, 608		
PCB's, 608		
Chlordane, 608		
Toxaphene, 608		
Additional TIC's (up to 20 TICs)		
Drinking Water Analysis		
VOC's, 524.2 (incl. up to 10 TICs)		
Herbicides, 525.2 (incl. up to 10 TICs)		
Organochl. Pesticides, 505		
PCB, 508A		
Chlordane, 505		
Toxaphene, 505		

SW846 Analysis	Date	Analyst
VOC, 8260 (incl. up to 10 TICs)		
BNA, 8270 (incl. up to 10 TICs)		
BN (PAH's), 8270 (incl. up to 10 TICs)		
Acid (Phenols), 8270 (incl. up to 10 TICs)		
Organochl. Pesticides, 8080		
PCB's, 8080		
Chlordane, 8080		
Toxaphene, 8080		
Additional TIC's (up to 20 TICs)		
Air Analysis		
Air Canister, TO-14 (incl. up to 10 TICs)		
Canister Clean, TO-14		
Air Foam (PUF), TO-13 (incl. up to 10 TICs)		
Additional TIC's (up to 20 TICs)		

Organics Data Reported By _____ On _____

External ID 970605 - SI
Dayton Electroplate

LIMS Number
Date Received MM 06 DD 05 YY 97

Client Name(check one)
DAPC
DDAGW
DERR ✓
DHWM
DSW
DSIWM
DDNR
Other

OEPA Distri : (check one)
CO ✓
CDO
NEDO
NWDO
SEDO
SWDO
Other

Bill to (Project) DERR

Collection Date
Grab ✗ (or) Composite
MM 6 DD 5 YY 97 HH 0930 MM 1030
Begin 6/5/97 /
End 6/5/97 /
Frequency & Duration of Composite Sample

Sample Type(check one)
Ambient
Complaint
Compliance
Litigation ✓
NPS
Survey
Other

Field QC
Field Duplicate
Field Blank
Trip Blank

Matrix(check one)
Air Canister
Air Filter
Air Foam(PUF)
Drinking water
Filter Cartridge
Ground water
Oil
Paint
Particulate
Sediment/Soil ✓
Surface water
Tissue Base Line
Tissue Contam
Waste water
Other

Collected By Cliff Morton
Report Analysis to Diane Crosby
County

Container Information

Number	Type	Preservative
	Air Canister	
	Air Filter	
	Air Foam(PUF)	
	Amber S2S	N/P
	Amber S2S	HCl or Na_2SO_3
	Amber BNA	
	Amber Pest/PCB	
	Cubitainer	NaOH
	Cubitainer	HNO_3
	Cubitainer	HNO_3_Filt
	Cubitainer	H_2SO_4
	Cubitainer	H_2SO_4_Filt
	Cubitainer	N/P
	Cubitainer	N/P_Filt
	Jar	H_2SO_4_Phenol
	Jar	H_2SO_4_O&G
1	Sed	~~Free~~ CN
1	Sed	Metals
	Sterile(Bacteria)	
	Vial	HCl & or $Na_2S_2O_3$
	Vial	N/P

Field Measurements

Parameter	Results
Chlorine,mg/l P50060	
Cond,umhos/cm P94	
DO,mg/l P299	
Flow,cfs P51	
Gage,Ht, ft	
pH, su P400	
Temp,°C P10	
Other	

Sample Location
Dayton Electroplate
Manhole 2A

Field Comments

Lab Comments
* Cyanide result estimated (see IOC)

Fish Matrix, Additional Information

Latitude/Longitude

Common Name

Fish Type
Whole Body Composite (WBC)
Skin On Fillet Composite (SOFC)
Skin Off Fillet Composite (SFFC)
Whole Body (WB)
Skin On Fillet (SOF)
Skin Off Fillet (SFF)

Off-Site Information
Date Fish Ground MM / DD / YY
Date Received / /
Ground By

2A

	BOD-20,mg/L	P324			
	BOD-5,mg/L	P310			
	BOD-ULT,mg/L	P319			
	CBOD-20,mg/L	P80087			
	CBOD-5,mg/L	P80082			
	CBOD-ULT,mg/L	P318			
	COD,mg/L	P340			
	Conductivity,umhos/cm	P95			
	Oil&Grease,mg/L	P556			
	pH,su	P403			
	Solids_Diss(filt),mg/L	P70300			
	Solids_Susp(non-filt),mg/L	P530			
	Solids_Total,mg/L	P500			
	TOC,mg/L	P680			

Bacteria Parameters	Stored	Results	Date	Analyst
E. coli,#/100ml	P31648			
Fecal Strep.,#/100ml	P31679			
Fecal Coliform,#/100ml	P31616			
Total Coliform,#/100ml	P31501			
MMO-MUG, P/A				

Nutrient Parameters	Stored	Results	Date	Analyst
Acidity Total CaCO3,mg/L	P70508			
Alkalinity Total CaCO3,mg/L	P410			
Ammonia,mg/L	P610			
Chloride,mg/L	P940			
Cyanide_Free (WAD),ug/L	P718			
✓ Cyanide_Total,ug/L 97/6/17	P720	326	13	55 ✗
Fluoride,mg/L	P951			
Nitrate+Nitrite,mg/L	P630			
Nitrite,mg/L	P615			
Phenolics,ug/L	P32730			
Phenolics w/man dist,ug/L	P32730			
Phosphorous, Diss,mg/L	P666			
Phosphorous, Diss ortho,mg/L	P668			
Phosphorous, Total,mg/L	P665			
Phosphorous, Total ortho,mg/L	P685			
Sulfate,mg/L	P945			
TKN(Total Kjeldahl Nitrogen),mg/L	P625			

ICP/Flame(Higher Level MDL)					
	Aluminum, total,ug/L	P1005			
	Barium, total,ug/L	P1007			
	Calcium, total,mg/L	P916			
✓	Chromium, total,ug/L 97/6/17	P1034	469	6-12	BR
	Copper, total,ug/L	P1042			
	Iron, total,ug/L	P1045			
	~~Potassium, total,mg/L~~				
	Magnesium, total,mg/L	P927			
	Manganese, total,ug/L	P1055			
	Nickel, total,ug/L	P1067			
	Potassium, total,mg/L	P937			
*	Silica, total,mg/L	P954			
	Sodium, total,mg/L	P929			
	Strontium, total,ug/L	P1082			
✓	Zinc, total,ug/L 97/6/17	P1092	3200	6-12	BR
	Hardness, Total,mg/L	P900			

Non-ICP(Lower Level MDL)					
*	Antimony, total,ug/L	P1097			
	Arsenic, total,ug/L	P1002			
*	Beryllium, total,ug/L	P1012			
✓	Cadmium, total,ug/L 97/6/17	P1027	143	6-12	BR
*	Cobalt, total,ug/L	P1037			
	Copper, LL, total,ug/L	P1042			
*	CR^{+6}, Diss Hexa Chrom, ug/L	P1220			
✓	Lead, total,ug/L 97/6/17	P1051	68	6/10	PS
*	Mercury, total,ug/L	P71900			
	Selenium, total,ug/L	P1147			
*	Silver, total,ug/L	P1077			
*	Thallium, total,ug/L	P1059			
*	Tin, total,ug/L	P1102			
*	Vanadium, total,ug/L	P1087			

Miscellaneous	Stored	Results	Date	Analyst
% Lipids,%				
% Solids,%	P70318			
Turbidity,ntu	P92079			
Toxicity(Bioassay)		Reported Separately		
Particle Size		Reported Separately		

Inorganics Data Approved By RC On 970618

Organic Tests (Reported Separately)

Waste Water Analysis	Date	Analyst
VOC, 624 (incl. up to 10 TICs)		
BNA, 625 (incl. up to 10 TICs)		
BN (PAH's), 625 (incl. up to 10 TICs)		
Acid (Phenols), 625 (incl. up to 10 TICs)		
Organochl. Pesticides, 608		
PCB's, 608		
Chlordane, 608		
Toxaphene, 608		
Additional TIC's (up to 20 TICs)		
Drinking Water Analysis		
VOC's, 524.2 (incl. up to 10 TICs)		
Herbicides, 525.2 (incl. up to 10 TICs)		
Organochl. Pesticides, 505		
PCB, 508A		
Chlordane, 505		
Toxaphene, 505		

SW846 Analysis	Date	Analyst
VOC, 8260 (incl. up to 10 TICs)		
BNA, 8270 (incl. up to 10 TICs)		
BN (PAH's), 8270 (incl. up to 10 TICs)		
Acid (Phenols), 8270 (incl. up to 10 TICs)		
Organochl. Pesticides, 8080		
PCB's, 8080		
Chlordane, 8080		
Toxaphene, 8080		
Additional TIC's (up to 20 TICs)		
Air Analysis		
Air Canister, TO-14 (incl. up to 10 TICs)		
Canister Clean, TO-14		
Air Foam (PUF), TO-13 (incl. up to 10 TICs)		
Additional TIC's (up to 20 TICs)		

Organics Data Reported By _____ On _____

LIMS Number

Date Received MM 06 DD 05 YY 97

External ID 970605-SC
Dayton Electroplate

Client Name(check one)
- OAPC
- ODAGW
- OERR ✓
- OHWM
- OSW
- OSIWM
- ODNR
- Other

OEPA District (check one)
- CO ✓
- CDO
- NEDO
- NWDO
- SEDO
- SWDO
- Other

Bill to (Project) DERR

Collection Date
Grab ☒ (or) Composite ☐
MM 6 DD 5 YY 97 ~~PM 1:30~~ MM 9:30 – 10:30 DC
Begin 6/5/97 /
End 6/5/97 /
Frequency & Duration of Composite Sample

Sample Type(check one)
- Ambient
- Complaint
- Compliance
- Litigation ✓
- NPS
- Survey
- Other

Field QC
- Field Duplicate
- Field Blank
- Trip Blank

Matrix(check one)
- Air Canister
- Air Filter
- Air Foam(PUF)
- Drinking water
- Filter Cartridge
- Ground water
- Oil
- Paint
- Particulate
- Sediment/Soil ✓
- Surface water
- Tissue Base
- Tissue Consumer
- Waste water
- Other

Collected By Cliff Morton

Report Analysis to Diane Crosby

County

Container Information		
Number	Type	Preservative
	Air Canister	
	Air Filter	
	Air Foam(PUF)	
	Amber 525	N/P
	Amber 525	HCl or Na_2SO_3
	Amber BNA	
	Amber Pest/PCB	
	Cubitainer	NaOH
	Cubitainer	HNO_3
	Cubitainer	HNO_3_Fil
	Cubitainer	H_2SO_4
	Cubitainer	H_2SO_4_Fil
	Cubitainer	N/P
	Cubitainer	N/P_Fil
	Jar	H_2SO_4_Phenol
	Jar	H_2SO_4_O&G
	Sed	~~Fresh~~ CN
1	Sed	Metals
	Sterile/Bacteria	
	Vial	HCl &/or $Na_2S_2O_3$
	Vial	N/P

Field Measurements	
Parameter	Results
Chlorine,mg/l P5080	
Cond.umhos/cm 094	
DO,mg/l P299	
Flow,cfs 551	
Gage.Ht, ft	
pH, su E400	
Temp, °C 010	
Other	

Sample Location
Dayton Electroplate
Manhole 3A

Field Comments
* Cyanide result estimated (See Loc)

Lab Comments

Fish Matrix, Additional Information

Latitude/Longitude

Common Name

Fish Type
- Whole Body Composite (WBC)
- Skin On Fillet Composite (SOFC)
- Skin Off Fillet Composite (SFFC)
- Whole Body (WB)
- Skin On Fillet (SOF)
- Skin Off Fillet (SFF)

Off-Site Information
- Date Fish Ground MM / DD / YY
- Date Received / /
- Ground By

3A

	BOD-20,mg/L	P326			
	BOD-5,mg/L	P310			
	BOD-ULT,mg/L	P319			
	CBOD-20,mg/L	P80087			
	CBOD-5,mg/L	P80082			
	CBOD-ULT,mg/L	P319			
	COD,mg/L	P340			
	Conductivity,umhos/cm	P95			
	Oil&Grease,mg/L	P556			
	pH,s	P403			
	Solids_Diss(Filt),mg/L	P70300			
	Solids_Suspd(non-filt),mg/L	P530			
	Solids_Total,mg/L	P500			
	TOC,mg/L	P680			

Bacteria Parameters	Storet	Results	Date	Analyst
	E. coli,#/100ml	P31648		
	Fecal Strept.,#/100ml	P31673		
	Fecal Coliform,#/100ml	P31616		
	Total Coliform,#/100ml	P31501		
	MMO-MUG, P/A			

Nutrient Parameters	Storet	Results	Date	Analyst
	Acidity,Total CaCO3,mg/L	P70508		
	Alkalinity,Total CaCO3,mg/L	P410		
	Ammonia,mg/L	P610		
	Chloride,mg/L	P940		
	Cyanide_Free (WAD),ug/L	P718		
✓	Cyanide_Total,ug/L µg/L	P720	104	0 3/97
	Fluoride,mg/L	P951		
	Nitrate+Nitrite,mg/L	P630		
	Nitrite,mg/L	P615		
	Phenolics,ug/L	P32730		
	Phenolics w/mod dist,ug/L	P32730		
	Phosphorous, Diss,mg/L	P666		
	Phosphorous, Diss LL,mg/L	P666		
	Phosphorous, Total,mg/L	P665		
	Phosphorous, Total LL,mg/L	P665		
	Sulfate,mg/L	P945		
	TKN(Total Kjeldahl Nitrogen),mg/L	P625		

ICP Metals (Higher Lower MDL)					
	Aluminum, total,ug/L	P1005			
	Barium, total,ug/L	P1007			
	Calcium, total,mg/L	P916			
✓	Chromium, total,ug/L µg/L	P1034	7990	6-12	BK
	Copper, total,ug/L	P1042			
	Iron, total,ug/L	P1045			
	~~Lead,total,ug/L~~				
	Magnesium, total,mg/L	P927			
	Manganese, total,ug/L	P1055			
	Nickel, total,ug/L	P1067			
	Potassium, total,mg/L	P937			
*	Silica, total,mg/L	P956			
	Sodium, total,mg/L	P929			
	Strontium, total,ug/L	P1082			
✓	Zinc, total,ug/L µg/L	P1092	27800	6-12	BK
	Hardness, Total,mg/L	P900			

Non-ICP (Lower Lower MDL)					
*	Antimony, total,ug/L	P1097			
	Arsenic, total,ug/L	P1002			
*	Beryllium, total,ug/L	P1012			
✓	Cadmium, total,ug/L µg/L	P1027	70.1	6-12	BK
*	Cobalt, total,ug/L	P1037			
	Copper, LL, total,ug/L	P1042			
*	CR^{+6}, Diss Hexa Chrom, ug/L	P1220			
✓	Lead, total,ug/L µg/L	P1051	2900	6-12	BK
*	Mercury, total,ug/L	P71900			
	Selenium, total,ug/L	P1147			
*	Silver, total,ug/L	P1077			
*	Thallium, total,ug/L	P1059			
*	Tin, total,ug/L	P1102			
*	Vanadium, total,ug/L	P1087			

Miscellaneous	Storet	Results	Date	Analyst
	% Lipids,%			
	% Solids,%	P70318		
	Turbidity,ntu	P32079		
	Toxicity(Bioassay)	Reported Separately		
	Particle Size	Reported Separately		

Inorganics Data Approved By RC On 970618

Organic Tests (Reported Separately)

Waste Water Analysis	Date	Analyst
VOC, 624 (incl. up to 10 TICs)		
BNA, 625 (incl. up to 10 TICs)		
BN (PAH's), 625 (incl. up to 10 TICs)		
Acid (Phenols), 625 (incl. up to 10 TICs)		
Organochl. Pesticides, 608		
PCB's, 608		
Chlordane, 608		
Toxaphene, 608		
Additional TIC's (up to 20 TICs)		
Drinking Water Analysis		
VOC's, 524.2 (incl. up to 10 TICs)		
Herbicides, 525.2 (incl. up to 10 TICs)		
Organochl. Pesticides, 505		
PCB, 508A		
Chlordane, 505		
Toxaphene, 505		

SW846 Analysis	Date	Analyst
VOC, 8260 (incl. up to 10 TICs)		
BNA, 8270 (incl. up to 10 TICs)		
BN (PAH's), 8270 (incl. up to 10 TICs)		
Acid (Phenols), 8270 (incl. up to 10 TICs)		
Organochl. Pesticides, 8080		
PCB's, 8080		
Chlordane, 8080		
Toxaphene, 8080		
Additional TIC's (up to 20 TICs)		
Air Analysis		
Air Canister, TO-14 (incl. up to 10 TICs)		
Canister Clean, TO-14		
Air Foam (PUF), TO-13 (incl. up to 10 TICs)		
Additional TIC's (up to 20 TICs)		

Organics Data Reported By _____ On _____

External ID 970605 - SE
Dayton Electroplate

Lims Number

Date Received MM 06 DD 05 YY 97

9 30-1030

Client Name(check one)		OEPA District(check one)	
DAPC	☐	CO	☑
DDAGW	☐	CDO	☐
DERR	☑	NEDO	☐
DHWM	☐	NWDO	☐
DSW	☐	SEDO	☐
DSIWM	☐	SWDO	☐
ODNR	☐	Other	
Other			

Bill to (Project) DERR

Collection Date

	MM	DD	YY	HH DC MM
Grab (or) ☒	6	5	97	9 /
Composite ☐ Begin	6	5	97	/
End	6	5	97	/

Frequency & Duration of Composite Sample

Sample Type(check one)		Matrix(check one)	
Ambient	☐	Air Canister	☐
Complaint	☐	Air Filter	☐
Compliance	☐	Air Foam(PUF	☐
Litigation	☑	Drinking water	☐
NPS	☐	Filter Cartridge	☐
Survey	☐	Ground water	☐
Other		Oil	☐
		Paint	☐
Field QC		Particulate	☐
Field Duplicate	☐	~~Sediment/Soil~~	☑
Field Blank	☐	Surface water	☐
Trip Blank	☐	Tissue Base Unit	☐
Equip blank	☑	Tissue Consumer	☐
		Waste water	☐
		Other	

Collected By Cliff Moron

Report Analysis to Diane Crosby

County

Container Information		
Number	Type	Preservative
	Air Canister	
	Air Filter	
	Air Foam(PUF)	
	Amber 525	N/P
	Amber 525	HCl or Na_2SO_3
	Amber BNA	
	Amber Pest/PCB	
	Cubitainer	NaOH
	Cubitainer	HNO_3
	Cubitainer	HNO_3_Filt
	Cubitainer	H_2SO_4
	Cubitainer	H_2SO_4_Filt
	Cubitainer	N/P
	Cubitainer	N/P_Filt
	Jar	H_2SO_4_Phenol
	Jar	H_2SO_4_O&G
1	Sed	~~Fresh~~ CN
1	Sed	Metals
	Sterile(Bacteria)	
	Vial	HCl &/or $Na_2S_2O_3$
	Vial	N/P

Field Measurements	
Parameter	Results
Chlorine,mg/l P50060	
Cond,uH/ho/cm P94	
DO,mg/l P299	
Flow,cfs P81	
Gage,Ht, ft	
pH, su P400	
Temp,°C P10	
Other	

Sample Location
Dayton Electroplate
Equipment Blank

Field Comments

Lab Comments
* Zn verified on 6/12/97

Fish Matrix, Additional Information

Latitude/Longitude

Common Name

Fish Type
Whole Body Composite (WBC) ☐
Skin On Fillet Composite (SOFC) ☐
Skin Off Fillet Composite (SFFC) ☐
Whole Body (WB) ☐
Skin On Fillet (SOF) ☐
Skin Off Fillet (SFF) ☐

Off-Site Information	MM	DD	YY
Date Fish Ground		/	/
Date Received		/	/
Ground By			

	BOD-20,mg/L	P326			
	BOD-5,mg/L	P310			
	BOD-ULT,mg/L	P319			
	CBOD-20,mg/L	P80082			
	CBOD-5,mg/L	P80082			
	CBOD-ULT,mg/L	P319			
	COD,mg/L	P340			
	Conductivity,uhmos/cm	P95			
	Oil&Grease,mg/L	P556			
	pH,su	P403			
	Solids_Diss(Filt),mg/L	P70300			
	Solids_Suspd(nonfilt),mg/L	P530			
	Solids_Total,mg/L	P500			
	TOC,mg/L	P680			

	Bacteria Parameters	Storet	Results	Date	Analyst
	E. coli,#/100ml	P31648			
	Fecal Strept.,#/100ml	P31679			
	Fecal Coliform,#/100ml	P31616			
	Total Coliform,#/100ml	P31501			
	MMC-MUG, P/A				

	Nutrient Parameters	Storet	Results	Date	Analyst
	Acidity,Total CaCO3,mg/L	P70508			
	Alkalinity,Total CaCO3,mg/L	P410			
	Ammonia,mg/L	P610			
	Chloride,mg/L	P940			
	Cyanide_Free (WAD),ug/L	P718			
✓	Cyanide_Total,ug/L	P720	<10	[illegible]	5
	Fluoride,mg/L	P951			
	Nitrate+Nitrite,mg/L	P630			
	Nitrite,mg/L	P615			
	Phenolics,ug/L	P32730			
	Phenolics w/man dist,ug/L	P32730			
	Phosphorous, Diss,mg/L	P666			
	Phosphorous, Diss LL,mg/L	P666			
	Phosphorous, Total,mg/L	P665			
	Phosphorous, Total LL,mg/L	P665			
	Sulfate,mg/L	P945			
	TKN(Tot Kjeldahl Nitrogen),mg/L	P625			

	ICP Metals (Higher Level MDL)				
	Aluminum, total,ug/L	P1005			
	Barium, total,ug/L	P1007			
	Calcium, total,mg/L	P916			
✓	Chromium, total,ug/L	P1034	<30	6-12	BL
	Copper, total,ug/L	P1042			
	Iron, total,ug/L	P1045			
	~~Lead, total,ug/L~~				
	Magnesium, total,mg/L	P927			
	Manganese, total,ug/L	P1055			
	Nickel, total,ug/L	P1067			
	Potassium, total,mg/L	P937			
*	Silica, total,mg/L	P956			
	Sodium, total,mg/L	P929			
	Strontium, total,ug/L	P1082			
✓	Zinc, total,ug/L	P1092	12*	6-12	BL
	Hardness, Total,mg/L	P900			

	Non-ICP (Lower Level MDL)				
*	Antimony, total,ug/L	P1097			
	Arsenic, total,ug/L	P1002			
*	Beryllium, total,ug/L	P1012			
✓	Cadmium, total,ug/L	P1027	<5	6-12	BL
*	Cobalt, total,ug/L	P1037			
	Copper, LL, total,ug/L	P1042			
*	CR^{+6}, Dissolved Hexa Chrom, ug/L	P1032			
✓	Lead, total,ug/L	P1051	<2	6/10	PS
*	Mercury, total,ug/L	P71900			
	Selenium, total,ug/L	P1147			
*	Silver, total,ug/L	P1077			
*	Thallium, total,ug/L	P1059			
*	Tin, total,ug/L	P1102			
*	Vanadium, total,ug/L	P1087			

	Miscellaneous	Storet	Results	Date	Analyst
	% Lipids,%				
	% Solids,%	P70331			
	Turbidity,ntu	P82079			
	Toxicity(Bioassay)		Reported Separately		
	Particle Size		Reported Separately		

Equip Blank

Inorganics Data Approved By RC On 970618

Organic Tests (Reported Separately)

	Waste Water Analysis	Date	Analyst
	VOC, 624 (incl. up to 10 TICs)		
	BNA, 625 (incl. up to 10 TICs)		
	BN (PAH's), 625 (incl. up to 10 TICs)		
	Acid (Phenols), 625 (incl. up to 10 TICs)		
	Organochl. Pesticides, 608		
	PCB's, 608		
	Chlordane, 608		
	Toxaphene, 608		
	Additional TIC's (up to 20 TICs)		
	Drinking Water Analysis		
	VOC's, 524.2 (incl. up to 10 TICs)		
	Herbicides, 525.2 (incl. up to 10 TICs)		
	Organochl. Pesticides, 505		
	PCB, 508A		
	Chlordane, 505		
	Toxaphene, 505		

	SW846 Analysis	Date	Analyst
	VOC, 8260 (incl. up to 10 TICs)		
	BNA 8270 (incl. up to 10 TICs)		
	BN (PAH's), 8270 (incl. up to 10 TICs)		
	Acid (Phenols), 8270 (incl. up to 10 TICs)		
	Organochl. Pesticides, 8080		
	PCB's, 8080		
	Chlordane, 8080		
	Toxaphene, 8080		
	Additional TIC's (up to 20 TICs)		
	Air Analysis		
	Air Canister, TO-14 (incl. up to 10 TICs)		
	Canister Clean, TO-14		
	Air Foam (PUF), TO-13 (incl. up to 10 TICs)		
	Additional TIC's (up to 20 TICs)		

Organics Data Reported By _____ On _____

ROSS Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

Ecology & Environment
260 Northland Blvd.
Suite 125B
Cincinnati, Ohio 45246
Attn: Tom Campbell/Fax 513-771-9315

Work Order #: 97-05-144
Client Code: SMITH_TECH
Report Date: 05/27/97
Work ID: Concrete cores for TCLP Chrom
Date Received: 05/20/97

Purchase Order: 8391

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Concrete core PV2-4	02	Concrete core PV2-5
03	Concrete core PV2-6	04	Concrete core PV2-7
05	Concrete core PV2-8	06	Concrete core PV2-9
07	Concrete core PV2-10	08	Concrete core PV2-11

Enclosed are the analytical results for the samples listed above. Analyses were performed by the methods referenced in the Test Methodologies section, while any special circumstances are described in the Report Comments section. Unless otherwise noted, sample results are not moisture-corrected. Most analytes are reported relative to an Estimated Quantitation Limit (EQL), which is the lowest concentration that can be reliably measured under routine laboratory conditions. Questions or comments concerning the enclosed results should be directed to your Client Services Representative.

Certificate approved by
Carol L. Turner

REPORT COMMENTS

The holding time for all ICP metals analyses is 180 days from collection.

Work Order # 97-05-144 **Ross Analytical Services, Inc** **Reported: 05/27/97**

INORGANIC QC SUMMARY

Laboratory Control Sample

Target	LCS4798 % Recovery
Chromium	102

Matrix Spike
Performed on the TCLP leachate of Concrete Core PV2-4 (Lab No. 01)

Target	MS % Recovery
Chromium	98

TEST METHODOLOGIES

The bottle leaching step of TCLP (for metals and semivolatile organics) was performed by EPA Method 1311. Matrix spikes, if any, were added at the time of digestion or extraction for further analyses.

Metals were determined in aqueous samples and leachates by digestion with nitric and hydrochloric acids as in EPA Method 3010A, followed by Inductively Coupled Plasma Emission Spectroscopy as in EPA Method 6010A unless noted otherwise.

Work Order # 97-05-144 **Ross Analytical Services, Inc** **Reported: 05/27/97**

Sample Description Concrete core PV2-4 Lab No. 01
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	28.5		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-5 Lab No. 02
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	2.64		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-6 Lab No. 03
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.439		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-7 Lab No. 04
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.388		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-8 Lab No. 05
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/22/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.149		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-9 Lab No. 06
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.851		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-10 Lab No. 07
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.153		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-11 Lab No. 08
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.542		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

MDL'S AND EQL'S

Excel File: icpmdl.xls
Client: INT_MDL
W.O.#: NA

Method: 6010A
Date Completed: 06/05/96

Matrix: Water
TJA Enviro 36

Element	Run Date	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Standard Deviation	MDL 3.143*SD(7)	True Value	EQL (ug/L)	Mean	Average % Rec	% RSD
Aluminum	6/4/96	117.35	118.09	120.8	128.39	135.34	121.53	118.04	6.69149	21.03	100	100	122.7914	122.79	5.45
Antimony	6/4/96	93.53	87.93	96.98	101.5	87.26	88.57	93.32	5.26355	16.54	100	100	92.7271	92.73	5.68
Arsenic	6/4/96	183.37	199.22	200.19	189.08	185.56	201.83	181.21	8.70770	27.37	200	100	191.4943	95.75	4.55
Barium	6/4/96	4.32	4.23	4.14	4.23	4.14	4.05	3.95	0.12375	0.39	4	4	4.1514	103.79	2.98
Beryllium	6/4/96	2.02	1.82	1.91	2.03	2.06	2.04	1.94	0.08753	0.28	2	2	1.9743	98.71	4.43
Boron	6/5/96	31.83	29.57	30.84	29.57	31.93	31.46	28.69	1.28031	4.02	25	50	30.5557	122.22	4.19
Cadmium	6/4/96	4.81	4.62	5.29	4.72	5	4.62	4.72	0.24261	0.76	5	5	4.8257	96.51	5.03
Calcium	6/4/96	216.18	220.8	215.92	233.62	261.32	239.19	220.15	16.57442	52.09	200	200	229.5971	114.80	7.22
Chromium	6/4/96	10.49	10.14	10.83	12.89	13.07	9.27	8.76	1.66097	5.22	10	10	10.7786	107.79	15.41
Cobalt	6/4/96	12.2	12.2	11.26	12.21	13.14	10.31	11.26	0.92077	2.89	10	10	11.7971	117.97	7.81
Copper	6/4/96	24.61	23.38	22.15	22.15	24.2	21.32	21.32	1.33957	4.21	20	20	22.7329	113.66	5.89
Iron	6/4/96	117.08	114.96	111.61	112.51	151.94	112.34	113.92	14.55840	45.76	100	100	119.1943	119.19	12.21
Lead	6/4/96	44.39	50.3	46.9	54.54	65.54	47.7	47.74	7.14669	22.46	50	50	51.0157	102.03	14.01
Lithium	6/5/96	8.79	10.16	9.78	9.78	8.72	9.93	8.49	0.68395	2.15	10	20	9.3786	93.79	7.29
Magnesium	6/4/96	109.37	110.72	108.68	110.1	121.04	99.31	118.92	7.17549	22.55	100	100	111.1629	111.16	6.45
Manganese	6/4/96	4.36	4.86	4.53	5.54	5.54	4.86	4.7	0.46363	1.46	5	5	4.9129	98.26	9.44
Molybdenum	6/4/96	11.58	9.92	10.25	10.91	9.26	9.59	10.91	0.82670	2.60	10	10	10.3457	103.46	7.99
Nickel	6/4/96	21.08	21.25	18.69	20.86	21.22	19.61	19.12	1.08943	3.42	20	20	20.2614	101.31	5.38
Potassium	6/4/96	148.48	177.13	135.46	195.37	182.34	158.9	153.69	21.13021	66.41	200	200	164.4814	82.24	12.85
Selenium	6/4/96	87.72	88.21	104.73	74.6	82.62	86.27	103.52	10.90052	34.26	100	100	89.6671	89.67	12.16
Silicon	6/5/96	264.59	264.54	263.82	273.02	295.41	270.58	257.85	12.24755	38.49	250	500	269.9729	107.99	4.54
Silver	6/5/96	9.22	8.89	9.23	8.11	10.01	8.76	9.52	0.60213	1.89	10	10	9.1057	91.06	6.61
Sodium	6/4/96	479.79	487.01	499.63	611.48	517.67	510.46	501.44	44.30678	139.26	500	500	515.3543	103.07	8.60
Strontium	6/6/96	6.02	5.99	5.84	5.72	5.46	5.65	5.87	0.19797	0.62	5	20	5.7929	115.86	3.42
Thallium	6/6/96	114.12	120.45	103.35	119.46	134.37	181.77	127.26	25.36167	79.71	125	200	128.6829	102.95	19.71
Tin	6/4/96	101.41	100.74	99.07	107.77	103.75	107.43	107.09	3.58587	11.27	100	100	103.8943	103.89	3.45
Titanium	6/4/96	14.65	18.37	14.66	12.76	16.46	18.35	14.63	2.10956	6.63	20	50	15.6971	78.49	13.44
Vanadium	6/4/96	9.3	8.92	10.5	10.15	10.5	9.76	9.65	0.59810	1.88	10	10	9.8257	98.26	6.09
Zinc	6/5/96	21.37	19.66	21.37	24.95	22.51	23.65	20.81	1.79611	5.65	20	20	22.0457	110.23	8.15
Zirconium	6/5/96	23.68	27.63	28.65	27.76	29.2	21.97	27.13	2.69594	8.47	30	30	26.5743	88.58	10.14

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RAW DATA

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	BLANK	MA2397A	ICP97	05/23/97	17:54		X	IR
2	STD2	MA2397A	ICP97	05/23/97	17:58		X	IR
3	STD1	MA2397A	ICP97	05/23/97	18:01		X	IR
4	HSTD2	MA2397A	ICP97	05/23/97	18:05	ED	Q	CONC
5	HSTD1	MA2397A	ICP97	05/23/97	18:09	ED	Q	CONC
6	ICV	MA2397A	ICP97	05/23/97	18:14	ED	Q	CONC
7	ICB	MA2397A	ICP97	05/23/97	18:18	ED	B	CONC
8	CRI	MA2397A	ICP97	05/23/97	18:22	ED	S	CONC
9	ICSAI	MA2397A	ICP97	05/23/97	18:26	ED	S	CONC
10	ICSABI	MA2397A	ICP97	05/23/97	18:30	ED	S	CONC
11	CCV	MA2397A	ICP97	05/23/97	18:34	ED	Q	CONC
12	CCB	MA2397A	ICP97	05/23/97	18:38	ED	B	CONC
13	PBW 4679	MA2397A	ICP97	05/23/97	18:42	ED	S	CONC
14	BBLK 0071	MA2397A	ICP97	05/23/97	18:46	ED	S	CONC
15	LCSW 4798	MA2397A	ICP97	05/23/97	18:50	ED	S	CONC
16	97-05-144-01A	MA2397A	ICP97	05/23/97	18:55	ED	S	CONC
17	97-05-144-01A S	MA2397A	ICP97	05/23/97	18:59	ED	S	CONC
18	ZZZZZZ	MA2397A	ICP97	05/23/97	19:05	ED	S	CONC
19	97-05-144-02A	MA2397A	ICP97	05/23/97	19:09	ED	S	CONC
20	97-05-144-03A	MA2397A	ICP97	05/23/97	19:13	ED	S	CONC
21	97-05-144-04A	MA2397A	ICP97	05/23/97	19:18	ED	S	CONC
22	CCV	MA2397A	ICP97	05/23/97	19:22	ED	Q	CONC
23	CCB	MA2397A	ICP97	05/23/97	19:26	ED	B	CONC
24	97-05-144-05A	MA2397A	ICP97	05/23/97	19:30	ED	S	CONC
25	97-05-144-06A	MA2397A	ICP97	05/23/97	19:34	ED	S	CONC
26	97-05-144-07A	MA2397A	ICP97	05/23/97	19:38	ED	S	CONC
27	97-05-144-08A	MA2397A	ICP97	05/23/97	19:42	ED	S	CONC
28	ICSAF	MA2397A	ICP97	05/23/97	19:46	ED	S	CONC
29	ICSABF	MA2397A	ICP97	05/23/97	19:51	ED	S	CONC
30	CCV	MA2397A	ICP97	05/23/97	19:54	ED	Q	CONC
31	CCB	MA2397A	ICP97	05/23/97	19:59	ED	B	CONC
32	PBS 4682	MA2397A	ICP97	05/23/97	20:42	ED	S	CONC
33	LCSS 4801	MA2397A	ICP97	05/23/97	20:46	ED	S	CONC
34	97-05-173-01B	MA2397A	ICP97	05/23/97	20:51	ED	S	CONC
35	97-05-173-01B S	MA2397A	ICP97	05/23/97	20:55	ED	S	CONC
36	97-05-173-01B SD	MA2397A	ICP97	05/23/97	20:59	ED	S	CONC
37	97-05-173-01B A	MA2397A	ICP97	05/23/97	21:03	ED	S	CONC
38	97-05-173-01B AD	MA2397A	ICP97	05/23/97	21:07	ED	S	CONC
39	ZZZZZZ	MA2397A	ICP97	05/23/97	21:11	ED	S	CONC
40	97-05-182-01A 1:10	MA2397A	ICP97	05/23/97	21:15	ED	S	CONC
41	CCV	MA2397A	ICP97	05/23/97	21:19	ED	Q	CONC
42	CCB	MA2397A	ICP97	05/23/97	21:23	ED	B	CONC
43	97-05-182-01A	MA2397A	ICP97	05/23/97	21:43	ED	S	CONC
44	97-05-182-01A S	MA2397A	ICP97	05/23/97	21:47	ED	S	CONC
45	97-05-182-01A SD	MA2397A	ICP97	05/23/97	21:51	ED	S	CONC
46	97-05-182-01A A	MA2397A	ICP97	05/23/97	21:55	ED	S	CONC
47	97-05-182-01A AD	MA2397A	ICP97	05/23/97	21:59	ED	S	CONC
48	ZZZZZZ	MA2397A	ICP97	05/23/97	22:03	ED	S	CONC
49	97-05-182-02A	MA2397A	ICP97	05/23/97	22:07	ED	S	CONC
50	97-05-182-03A	MA2397A	ICP97	05/23/97	22:11	ED	S	CONC
51	CCV	MA2397A	ICP97	05/23/97	22:15	ED	Q	CONC
52	CCB	MA2397A	ICP97	05/23/97	22:20	ED	B	CONC
53	97-05-182-04A	MA2397A	ICP97	05/23/97	22:24	ED	S	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	97-05-182-05A 1:25	MA2397A	ICP97	05/23/97	22:46	ED	S	CONC
55	97-05-172-01A A	MA2397A	ICP97	05/23/97	22:50	ED	S	CONC
56	97-05-172-01A AD	MA2397A	ICP97	05/23/97	22:54	ED	S	CONC
57	ICSAF	MA2397A	ICP97	05/23/97	22:59	ED	S	CONC
58	ICSABF	MA2397A	ICP97	05/23/97	23:03	ED	S	CONC
59	CCV	MA2397A	ICP97	05/23/97	23:07	ED	Q	CONC
60	CCB	MA2397A	ICP97	05/23/97	23:11	ED	B	CONC

CALBLK/ICB/CCB: MST042997A
STD1: MST052097A
STD2: MST032697A
ICV: MST051397D
CRI: MST052297C
ICSA: MST052297A
ICSAB: MST052297B
CCV: MST032097A
PSQC31: (RN 3033)

Table : MA2397A

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Method: ICP97 Standard: BLANK

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Avge	-.01435	.00220	-.01260	-.00010	.00090	.00130	-.00040
SDev	.00120	.00424	.00255	.00000	.00014	.00144	.00170
%RSD	8.3769	192.85	20.203	.00000	15.713	110.96	424.26
#1	-.01520	-.00080	-.01440	-.00010	.00100	.00232	.00080
#2	-.01350	.00520	-.01080	-.00010	.00080	.00028	-.00160

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Avge	.02000	-.00120	.00010	.00060	.00405	-.00110	.00005
SDev	.00028	.00057	.00014	.00000	.00120	.00014	.00021
%RSD	1.4142	47.140	141.42	.00000	29.681	12.856	424.26
#1	.02020	-.00160	.00020	.00060	.00320	-.00120	-.00010
#2	.01980	-.00080	.00000	.00060	.00490	-.00100	.00020

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Avge	.00190	.00080	-.00020	.00120	.00035	.00240	.00605
SDev	.00014	.00028	.00000	.00156	.00035	.00085	.00049
%RSD	7.4432	35.355	.00000	129.64	101.02	35.355	8.1814
#1	.00180	.00100	-.00020	.00010	.00010	.00300	.00640
#2	.00200	.00060	-.00020	.00230	.00060	.00180	.00570

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Avge	-.00020	.01640	.03130	-.00085	.00040	-.00040	.00100
SDev	.00000	.00057	.00014	.00205	.00141	.00113	.00085
%RSD	.00000	3.4493	.45182	241.25	353.55	282.84	84.853
#1	-.00020	.01680	.03120	.00060	.00140	.00040	.00040
#2	-.00020	.01600	.03140	-.00230	-.00060	-.00120	.00160

Elem	Ti3248	Zr2677
Avge	.00010	.00120
SDev	.00014	.00170
%RSD	141.42	141.42
#1	.00020	.00000
#2	.00000	.00240

Method: ICP97 Standard: STD2

Elem	Al3082	Ca3158	Fe2599	Mg2790	K_7664	Na5889
Avge	6.8494	36.070	89.451	14.132	3.5982	5.1260
SDev	.0113	.058	.232	.032	.0192	.0040
%RSD	.16518	.16114	.25912	.22416	.53255	.07725
#1	6.8414	36.029	89.287	14.109	3.5847	5.1232
#2	6.8574	36.111	89.615	14.154	3.6118	5.1288

Method: ICP97 Standard: STD1

Elem	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265	Cr2677

SDev	.00877	.0035	.00325	.0045	.00478	.0065	.0057
%RSD	1.1261	.32403	.34138	.27846	.54464	.24512	.55481
#1	.78480	1.0936	.95050	1.6220	.87428	2.6494	1.0156
#2	.77240	1.0886	.95510	1.6284	.88104	2.6586	1.0236

Elem	Co2286	Cu3247	Pb2203	Li6707	Mn2576	Mo2020	Ni2316
Avge	.15510	.44690	.15720	1.2611	.94860	.47470	1.2032
SDev	.00071	.00156	.00085	.0051	.00424	.00099	.0046
%RSD	.45590	.34810	.53978	.40371	.44726	.20854	.38201
#1	.15460	.44580	.15660	1.2575	.94560	.47400	1.1999
#2	.15560	.44800	.15780	1.2647	.95160	.47540	1.2064

Elem	Se1960	Si2881	Sr4215	Ag3280	Tl3775	Sn1899	V_2924
Avge	.74750	.37925	2.1405	1.1134	.16340	.59640	1.3804
SDev	.01259	.00078	.0045	.0054	.00863	.00368	.0062
%RSD	1.6838	.20509	.20811	.48267	5.2795	.61652	.45077
#1	.75640	.37870	2.1374	1.1096	.15730	.59900	1.3760
#2	.73860	.37980	2.1437	1.1172	.16950	.59380	1.3848

Elem	Zn2138	Ti3248	Zr2677
Avge	.93450	.09750	.72090
SDev	.00297	.00071	.00325
%RSD	.31780	.72523	.45120
#1	.93240	.09800	.72320
#2	.93660	.09700	.71860

Method: ICP97 Sample Name: HSTD2 Operator: ED
Run Time: 05/23/97 13:05:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.37	.01154	.03477	.00231	.00082	-.00870	-.00499
SDev	.04	.00839	.00220	.00000	.00002	.00279	.00256
%RSD	.03900	72.691	6.3405	.00000	2.0471	32.078	51.298
#1	100.40	.00581	.03633	.00231	.00081	-.00673	-.00318
#2	100.34	.01747	.03321	.00231	.00083	-.01068	-.00680
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	100.00						
Range	5.0000						

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.96	.00193	.00003	-.00143	100.74	.04824	.00135
SDev	.07	.00222	.00184	.00127	.02	.00334	.00022
%RSD	.07072	115.30	6277.9	89.149	.01336	6.9283	16.633
#1	100.91	.00350	-.00127	-.00053	100.73	.05060	.00119
#2	101.01	.00036	.00133	-.00233	100.76	.04587	.00151

Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value	100.00				100.00		
Range	5.0000				5.0000		
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.59	.00295	.00759	.00267	100.53	.02760	.01066
SDev	.02	.00000	.00238	.00119	.06	.01707	.00491
%RSD	.02194	.03188	31.386	44.361	.06452	61.836	46.043
#1	100.57	.00295	.00927	.00351	100.48	.03967	.01413
#2	100.60	.00295	.00590	.00183	100.57	.01553	.00719
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value	100.00				100.00		
Range	5.0000				5.0000		
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00120	.00289	100.29	.12205	-.03899	-.00122	.01169
SDev	.00013	.00027	.11	.00064	.00570	.00018	.00091
%RSD	10.770	9.4898	.10517	.89166	15.399	15.130	7.8047
#1	.00111	.00308	100.37	.12265	-.04101	-.00135	.01234
#2	.00129	.00269	100.22	.12145	-.03296	-.00109	.01105
Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value			100.00				
Range			5.0000				
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	-.01725	.02568					
SDev	.00302	.00218					
%RSD	17.490	8.4975					
#1	-.01512	.02414					
#2	-.01938	.02723					
Errors	NOCHECK	NOCHECK					
Value							
Range							

Method: ICP97 Sample Name: HSTD1 Operator: ED
Run Time: 05/23/97 18:09:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9582	1.9983	2.0435	2.0164	2.0141	2.0219	2.0260
SDev	.0017	.0229	.0377	.0125	.0154	.0028	.0147
%RSD	.08706	1.1448	1.8450	.61827	.76498	.13785	.72566
#1	1.9570	1.9821	2.0168	2.0076	2.0032	2.0199	2.0156

#2	1.9594	2.0145	2.0702	2.0252	2.0250	2.0239	2.0364
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0467	2.0135	2.0168	2.0035	2.0548	2.0320	1.9967
SDev	.0081	.0189	.0183	.0165	.0145	.0093	.0094
%RSD	.39645	.93796	.90672	.82258	.70721	.45755	.47180
#1	2.0410	2.0001	2.0038	1.9919	2.0445	2.0255	1.9900
#2	2.0525	2.0268	2.0297	2.0152	2.0650	2.0386	2.0033
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000		2.0000	2.0000
Range		5.0000	5.0000	5.0000		5.0000	5.0000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0271	2.0116	2.0093	2.0166	2.0415	2.0352	2.0107
SDev	.0044	.0122	.0173	.0108	.0393	.0091	.0088
%RSD	.21689	.60832	.85908	.53319	1.9254	.44785	.43674
#1	2.0302	2.0029	1.9971	2.0090	2.0137	2.0287	2.0045
#2	2.0240	2.0202	2.0215	2.0242	2.0693	2.0416	2.0169
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000		2.0000	2.0000
Range		5.0000	5.0000	5.0000		5.0000	5.0000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0024	2.0086	1.9530	2.0394	2.0148	2.0136	2.0171
SDev	.0117	.0147	.0111	.0180	.0400	.0138	.0225
%RSD	.58392	.73311	.56853	.88023	1.9840	.68346	1.1154
#1	1.9942	1.9982	1.9452	2.0521	1.9865	2.0039	2.0012
#2	2.0107	2.0190	1.9609	2.0267	2.0430	2.0233	2.0330
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000		2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000		5.0000	5.0000	5.0000	5.0000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	2.0272	2.0237					
SDev	.0008	.0183					
%RSD	.01499	.90205					
#1	2.0274	2.0366					
#2	2.0270	2.0108					
Errors	QC Pass	QC Pass					
Value	2.0000	2.0000					
Range	5.0000	5.0000					

Method: ICP97 Sample Name: ICV Operator: ED
Run Time: 05/23/97 18:14:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.016	1.0141	1.0414	.99454	1.0121	.98692	1.0071
SDev	.002	.0149	.0148	.00165	.0017	.00484	.0000
%RSD	.00848	1.4855	1.3765	.16415	.16998	.49031	.00016
#1	25.014	1.0036	1.0516	.99570	1.0133	.99065	1.0071
#2	25.017	1.0246	1.0313	.98339	1.0109	.98350	1.0071
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.683	1.0094	1.0085	1.0175	20.564	1.0151	1.0134
SDev	.002	.0003	.0055	.0006	.011	.0153	.0012
%RSD	.00772	.02797	.54626	.06229	.05559	1.5082	.12172
#1	25.682	1.0096	1.0103	1.0180	20.572	1.0043	1.0143
#2	25.684	1.0092	1.0026	1.0171	20.556	1.0260	1.0126
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	1.0000	1.0000	1.0000	20.000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.276	1.0017	1.0204	1.0103	20.259	1.0428	Q.88373
SDev	.004	.0015	.0018	.0024	.033	.0064	.01506
%RSD	.01971	.14891	.17507	.23562	.16492	.61760	1.7043
#1	20.278	1.0027	1.0192	1.0120	20.283	1.0473	Q.89438
#2	20.273	1.0006	1.0217	1.0086	20.235	1.0382	Q.87308
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	20.000	1.0000	1.0000	1.0000	20.000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0012	1.0292	25.028	1.0074	1.0026	1.0089	1.0267
SDev	.0015	.0003	.044	.0599	.0180	.0030	.0012
%RSD	.15176	.02642	.17745	5.9425	1.8002	.30132	.11762
#1	1.0023	1.0290	24.997	1.0497	1.0153	1.0111	1.0275
#2	1.0001	1.0294	25.059	.96506	.98981	1.0068	1.0258
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	25.000	1.0000	1.0000	1.0000	1.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.0081	1.0539
SDev	.0061	.0005
%RSD	.60227	.04410
#1	1.0038	1.0535
#2	1.0124	1.0542
Errors	QC Pass	QC Pass
Value	1.0000	1.0000
Range	10.000	10.000

Method: ICP97 Sample Name: ICB Operator: ED
Run Time: 05/23/97 18:18:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00214	-.01161	.00791	.00052	.00061	.00161	-.00000
SDev	.01028	.00254	.00607	.00044	.00039	.00026	.00000
%RSD	480.55	21.863	76.742	84.353	63.592	16.119	38.821
#1	.00941	-.01341	.00362	.00084	.00088	.00142	-.00001
#2	-.00513	-.00982	.01220	.00021	.00033	.00179	-.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00306	.00668	-.00130	.00269	.00570	.01575	.00103
SDev	.00275	.00000	.00001	.00127	.00181	.00348	.00000
%RSD	89.811	.04253	.41184	47.188	31.751	21.767	.00000
#1	.00112	.00668	-.00129	.00359	.00698	.01817	.00103
#2	.00501	.00668	-.00130	.00179	.00442	.01332	.00103
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01132	.00127	.00165	.00186	.02918	.00858	-.01187
SDev	.00713	.00060	.00119	.00179	.01672	.01289	.00113
%RSD	62.975	47.133	70.302	91.582	53.375	150.24	9.6760
#1	.01636	.00189	.00253	.00323	.04030	.01769	-.01087
#2	.00628	.00084	.00084	.00069	.01807	-.00054	-.01247
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Ni3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00056	.00310	-.00186	.08972	.00942	.00132	.00020
SDev	.00000	.00024	.00000	.01860	.00094	.00019	.00151
%RSD	.01918	7.6830	.00000	20.732	9.9957	14.773	755.91
#1	.00056	.00328	-.00196	.07656	.01009	.00115	.00127
#2	.00056	.00293	-.00196	.10257	.00876	.00146	-.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.00004	-.00024
SDev	.00308	.00494
%RSD	8850.4	2033.0
#1	-.00221	.00325
#2	.00212	-.00374
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: CRI Operator: ED
Run Time: 05/23/97 18:22:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19627	.16679	.38254	.00840	.00445	.10622	.00959
SDev	.00514	.00290	.00212	.00000	.00003	.00052	.00043
%RSD	2.6189	1.7404	.55292	.00000	.60105	.49372	4.4500
#1	.19264	.16885	.38404	.00840	.00443	.10585	.00929
#2	.19991	.16474	.38105	.00840	.00447	.10659	.00989
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.40000	.40000	.80000	.01600	.00800	.20000	.02000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40233	.02212	.02322	.05377	.21623	.10308	.03933
SDev	.00038	.00362	.00183	.00508	.00324	.00867	.00056
%RSD	.09451	16.345	7.8651	9.4401	1.4986	8.4089	1.4256
#1	.40260	.02468	.02451	.05736	.21852	.10921	.03973
#2	.40207	.01956	.02193	.05018	.21394	.09695	.03894

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.80000	.04000	.04000	.08000	.40000	.20000	.08000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20528	.01076	.02486	.03847	.40301	.20963	.89807
SDev	.00492	.00030	.00060	.00099	.05306	.02426	.00525
%RSD	2.3988	2.7705	2.3994	2.5715	13.167	11.573	.58427
#1	.20877	.01055	.02444	.03917	.44053	.22679	.89436
#2	.20180	.01097	.02528	.03777	.36549	.19248	.90178

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.40000	.02000	.04000	.08000	.80000	.40000	2.0000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03913	.01959	.89701	.51288	.20831	.01857	.04838
SDev	.00013	.00103	.01110	.04670	.00477	.00001	.00242
%RSD	.33770	5.2355	1.2378	9.1050	2.2888	.02583	5.0036
#1	.03904	.01888	.90486	.54590	.21168	.01858	.05009
#2	.03922	.02031	.88916	.47986	.20494	.01857	.04667

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.08000	.04000	2.0000	1.0000	.40000	.04000	.08000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.01838	.05750
SDev	.00001	.00336
%RSD	.07237	5.8463
#1	.01837	.05512
#2	.01838	.05988

Errors	LC Pass	LC Pass
High	.20000	1.2000
Low	.00000	.00000

Method: ICP97 Sample Name: ICSAI Operator: ED
Run Time: 05/23/97 18:26:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	478.50	.03146	.08082	.00157	.00036	-.02551	-.00962
SDev	1.36	.03309	.02762	.00015	.00006	.00193	.00201
%RSD	.28377	105.17	34.173	9.4281	15.974	7.5691	20.897
#1	477.54	.00806	.10035	.00168	.00032	-.02687	-.00820
#2	479.46	.05486	.06129	.00147	.00040	-.02414	L-.01104

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00500	-.00400	-.10000	-.01000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	475.61	-.00151	-.00122	-.02254	183.55	.14301	.00024
SDev	.79	.00141	.00384	.00054	.37	.01299	.00045
%RSD	.16564	93.242	297.96	2.4144	.20397	9.0817	188.56
#1	476.05	-.00250	-.00380	-.02192	183.29	.13383	.00056
#2	479.17	-.00051	.00135	-.02215	183.82	.15219	-.00006

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	490.94	.00741	.00043	-.02287	-.02501	.07504	.02768
SDev	1.18	.00002	.00179	.00061	.06734	.01137	.00038
%RSD	.24100	.33067	416.05	1.3858	149.28	15.146	1.3834
#1	490.11	.00742	-.00083	-.02265	.00139	.06700	.02740
#2	491.78	.00739	.00169	-.02310	-.05142	.08308	.02795

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01498	-.00190	-.05300	.16262	-.07287	.00016	.01107
SDev	.00023	.00152	.00000	.11549	.02519	.00001	.00023
%RSD	1.5298	80.248	.00000	71.015	34.574	5.4979	2.0976
#1	-.01481	-.00082	-.05300	.24429	-.05506	.00017	.01091
#2	-.01514	-.00298	-.05300	.08096	-.09069	.00015	.01123

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.80000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.03218	.02968
SDev	.00599	.00722
%RSD	18.610	24.318
#1	-.03641	.02457
#2	-.02794	.03478

Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABI Operator: ED
Run Time: 05/23/97 18:30:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	479.22	.92993	1.8152	.45083	.45184	.86633	.84897
SDev	4.71	.00941	.0265	.00386	.00406	.00505	.00341
%RSD	.98347	1.0118	1.4589	.85590	.89890	.58318	.40178
#1	475.89	.92327	1.7965	.44811	.44897	.86276	.84655
#2	482.55	.93658	1.8339	.45356	.45472	.86990	.85138
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	477.97	.42740	.42106	.43459	183.40	1.0107	1.0069
SDev	4.80	.00428	.00003	.00721	1.71	.0208	.0107
%RSD	1.0052	1.0007	.00611	1.6596	.93211	2.0611	1.0580
#1	474.57	.42438	.42108	.42949	182.19	.99602	.99941
#2	481.37	.43042	.42104	.43969	184.61	1.0255	1.0145
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	490.98	.44071	.89284	.83720	4.7027	.99146	L.16969
SDev	4.77	.00378	.01429	.00544	.0059	.02162	.00449
%RSD	.97132	.85306	1.6001	.65016	.12537	2.1803	2.6459
#1	487.60	.43803	.88274	.83335	4.6986	.97618	L.17287
#2	494.35	.44338	.90294	.84105	4.7069	1.0067	L.16652
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	800.00	.80000	1.2000	1.2000	8.0000	1.2000	8.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Ti3775	Sn1899	V_3924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92280	.92523	4.8128	1.0383	.82234	.44496	.88080
SDev	.00806	.00884	.0527	.0008	.00242	.00487	.01005
%RSD	.88193	.93399	1.0958	.07866	.29409	1.0956	1.1403
#1	.91640	.91912	4.7756	1.0357	.82063	.44151	.87580
#2	.92921	.93134	4.8501	1.0369	.82405	.44841	.88800
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	[illegible]	[illegible]	8.0000	[illegible]	[illegible]	.80000	1.2000
Low	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.90187	.95367
SDev	.01187	.01045
%RSD	1.3268	1.0955
#1	.88341	.96106
#2	.91033	.94628
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: ED
Run Time: 05/28/97 18:34:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1938	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.938	2.0588	2.0812	2.0305	2.0575	1.9913	2.0302
SDev	.348	.0148	.0184	.0171	.0148	.0129	.0154
%RSD	.68305	.72320	.88503	.84053	.71993	.64730	.75825
#1	51.184	2.0483	2.0943	2.0428	2.0680	2.0004	2.0411
#2	50.692	2.0694	2.0682	2.0185	2.0471	1.9822	2.0193
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.116	2.0367	2.0529	2.0465	41.564	2.0396	2.0552
SDev	.232	.0103	.0000	.0139	.226	.0135	.0182
%RSD	.44493	.50392	.00044	.67968	.54355	.66228	.88399
#1	52.280	2.0440	2.0529	2.0564	41.714	2.0491	2.0680
#2	51.952	2.0294	2.0529	2.0367	41.404	2.0300	2.0423
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.170	2.0314	2.0670	2.0332	41.253	2.0904	1.9736
SDev	.235	.0134	.0036	.0108	.358	.0129	.0019
%RSD	.56976	.66070	.17304	.53156	.86706	.61822	.09875
#1	41.336	2.0409	2.0695	2.0408	41.506	2.0995	1.9750
#2	41.004	2.0219	2.0645	2.0255	41.000	2.0812	1.9722
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0366	2.0800	50.670	2.0229	2.0125	2.0416	2.0777
SDev	.0180	.0100	.378	.0602	.0009	.0110	.0115
%RSD	.88184	.48064	.74505	2.9743	.04607	.53923	.55202
#1	2.0493	2.0871	50.937	1.9803	2.0131	2.0494	2.0859
#2	2.0239	2.0729	50.403	2.0654	2.0118	2.0338	2.0696
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.0408	2.1511
SDev	.0035	.0150
%RSD	.17188	.69680
#1	2.0383	2.1617
#2	2.0433	2.1405
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: ED
Run Time: 05/23/97 18:38:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03339	-.00258	.02162	.00126	.00110	.00207	.00120
SDev	.00103	.00429	.01668	.00000	.00009	.00141	.00085
%RSD	3.0842	166.05	77.181	.00000	7.7611	68.381	70.952
#1	.03412	-.00562	.03341	.00126	.00116	.00306	.00060
#2	.03266	.00045	.00982	.00126	.00104	.00107	.00180
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03330	.00334	-.00125	.00359	.01537	.01574	.01127
SDev	.00002	.00528	.00367	.00000	.00144	.00013	.01034
%RSD	.06076	158.36	286.42	.06670	7.8167	.83715	28.517
#1	.03328	-.00040	.00131	.00359	.01735	.01581	.00103
#2	.03331	.00707	-.00368	.00358	.01338	.01567	.00151
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03966	.00169	.00421	.00382	.04030	.00215	-.00424
SDev	.00674	.00000	.00238	.00197	.02358	.00454	.00637
%RSD	18.995	.01538	56.487	51.438	58.519	211.53	150.22
#1	.03490	.00169	.00253	.00521	.02362	.00538	.00026
#2	.04443	.00169	.00589	.00243	.05698	-.00107	-.00874

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Ti3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00112	.00382	.00981	.07154	.00208	.00248	-.00132
SDev	.00013	.00107	.00555	.01930	.00188	.00015	.00059
%RSD	11.788	29.503	56.569	26.963	95.006	7.2304	44.970
#1	.00103	.00287	.01374	.08519	.00067	.00260	-.00090
#2	.00121	.00438	.00589	.05739	.00339	.00235	-.00174

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.00646	.00103
SDev	.00608	.01085
%RSD	94.208	1060.1
#1	-.01076	.00872
#2	-.00216	-.00667

Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: PBW 4679 Operator: ED
Run Time: 05/23/97 18:42:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00369	L-.00856	L.02640	L.00010	L.00013	L.00695	L.00030
SDev	.00831	.00184	.01439	.00015	.00000	.00019	.00085
%RSD	225.44	21.539	54.508	141.42	3.1567	2.7052	285.89
#1	L.00219	L-.00986	L.01623	L-.00000	L.00013	L.00709	L.00090
#2	L-.00956	L-.00726	L.03658	L.00021	L.00013	L.00682	L-.00030

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.01529	L.00687	L.00257	L.00897	L.00945	L.01589	L.00040
SDev	.00669	.00028	.00181	.00001	.00144	.00692	.00135
%RSD	43.737	4.0388	70.359	.06091	15.226	43.570	339.41
#1	L-.02002	L.00707	L.00386	L.00896	L.01047	L.02079	L-.00056
#2	L-.01056	L.00668	L.00129	L.00897	L.00844	L.01100	L.00135

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00349	L.00063	L.00800	L.00018	L.00834	L.00643	L.00351
SDev	.00001	.00030	.00060	.00311	.04127	.00455	.00150
%RSD	.19287	46.993	7.4427	1687.0	494.97	70.732	42.908
#1	L-.00349	L.00042	L.00842	L-.00202	L-.02085	L.00965	L.00244
#2	L-.00350	L.00085	L.00758	L.00238	L.03752	L.00322	L.00457

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00087	L.00274	L-.03826	L.15789	L.00268	L.00064	L.00277
SDev	.00000	.00131	.00278	.04748	.01330	.00122	.00215
%RSD	.06870	47.829	7.0711	31.346	656.18	191.51	77.406
#1	L.00087	L.00367	L-.04122	L.12443	L-.00738	L-.00023	L.00429
#2	L.00087	L.00181	L-.03729	L.09155	L.01143	L.00150	L.00126

Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	L.00422	L.00124					
SDev	.00905	.00014					
%RSD	214.51	11.366					
#1	L.01062	L.00134					
#2	L-.00218	L.00114					

Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: BBLK 0071 Operator: EP
Run Time: 05/23/97 18:46:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00888	L-.01212	L.01205	.06874	L.00002	L.00627	L-.00037
SDev	.00214	.00472	.00839	.00104	.00016	.00038	.00043
%RSD	57.161	38.940	69.665	1.5114	695.16	6.0933	116.01
#1	L.00582	L-.00873	L.00611	.06800	L-.00009	L.00655	L-.00007
#2	L.00218	L-.01548	L.01798	.06947	L.00014	L.00600	L-.00067
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01108	L.00492	L-.00061	L.00938	.26881	L.01522	L.00103
SDev	.00627	.00083	.00183	.00064	.00047	.00350	.00045
%RSD	56.507	16.903	20025.	6.7847	.17891	19.289	43.514
#1	L.01553	L.00551	L.00125	L.00891	.26647	L.02070	L.00135
#2	L.00666	L.00433	L-.00130	L.00981	.26714	L.01574	L.00071
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01353	L.00169	L.00337	L.00152	L.17232	L.00402	L.03357
SDev	.00196	.00000	.00000	.00150	.02948	.00569	.00338
%RSD	14.467	.01103	.01513	98.311	17.107	141.43	10.076
#1	L.01215	L.00169	L.00337	L.00046	L.15148	L.00804	L.03118
#2	L.01492	L.00169	L.00337	L.00258	L.19317	L-.00000	L.03597
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00262	L.00128	265.29	L.04860	L-.00907	L.00146	L.01266
SDev	.00013	.00026	.73	.02552	.00048	.00122	.00153
%RSD	5.0610	20.418	.27414	52.520	5.2526	83.913	12.095
#1	L.00252	L.00108	264.77	L.03055	L-.00940	L.00232	L.01374
#2	L.00271	L.00145	265.80	L.06664	L-.00873	L.00059	L.01158
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Units	ppm	ppm
Avge	L-.00221	L.00342
SDev	.00000	.00170
%RSD	.16134	49.719
#1	L-.00222	L.00462
#2	L-.00221	L.00222
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: LCSW 4798 Operator: ED
Run Time: 05/23/97 18:50:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.064	1.0071	1.0239	1.0010	1.0153	.97128	1.0033
SDev	.235	.0305	.0244	.0099	.0105	.00753	.0105
%RSD	.93615	3.0283	2.3824	.99331	1.0383	.77551	1.0412
#1	24.898	.98551	1.0067	.99402	1.0078	.96595	1.0009
#2	25.230	1.0286	1.0412	1.0081	1.0228	.97661	1.0157
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.828	1.0213	1.0142	.99948	20.985	1.0263	1.0092
SDev	.195	.0097	.0055	.00820	.189	.0272	.0100
%RSD	.75503	.94910	.54212	.82039	.90066	2.6543	.98903
#1	25.690	1.0144	1.0181	.99366	20.832	1.0070	1.0021
#2	25.966	1.0281	1.0103	1.0053	21.099	1.0456	1.0162
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.274	1.0105	1.0280	1.0100	20.159	1.0342	.81725
SDev	.144	.0087	.0125	.0096	.171	.0307	.01286
%RSD	.70855	.85613	1.2169	.94936	.84813	2.9720	1.5740
#1	20.173	1.0044	1.0192	1.0032	20.038	1.0125	.80815
#2	20.376	1.0167	1.0369	1.0168	20.280	1.0559	.82635
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0088	1.0244	24.700	.98184	1.0187	1.0128	1.0187
SDev	.0090	.0056	.186	.02318	.0129	.0078	.0100
%RSD	.89682	.55041	.75296	2.3623	1.2684	.77125	.97917
#1	1.0019	1.0204	24.569	.99773	1.0225	1.0068	1.0117
#2	1.0147	1.0284	24.831	.96495	1.0046	1.0178	1.0258
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Tl3248	Cr2677
Units	ppm	ppm
Avge	1.0205	1.0264
SDev	.0056	.0214
%RSD	.55212	2.0881
#1	1.0168	1.0112
#2	1.0243	1.0415
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-05-144-01A Operator: ED
Run Time: 05/23/97 18:55:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04946	L.00902	L.00590	.05216	.00232	L.03701	L-.00018
SDev	.00926	.00040	.00197	.00015	.00015	.00162	.00149
%RSD	18.717	4.4856	33.358	.28455	6.6175	4.3925	830.35
#1	L.04292	L.00931	L.00451	.05205	.00221	L.03816	L.00088
#2	L.05601	L.00874	L.00729	.05226	.00243	L.03586	L-.00124
Errors	LC Low	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	142.21	5.6914	L.00019	L.00912	1.3320	L.01228	L.00293
SDev	1.62	.0653	.00180	.00063	.0100	.00532	.00045
%RSD	1.1398	1.1473	945.54	6.9241	.74757	43.333	15.259
#1	141.06	5.6452	L-.00108	L.00868	1.3250	L.00852	L.00325
#2	143.35	5.7375	L.00146	L.00957	1.3390	L.01604	L.00262
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.07007	L.00401	L.00767	L.00351	2.4389	L-.00536	2.2396
SDev	.00195	.00030	.00000	.00114	.0039	.02275	.0264
%RSD	2.7853	7.4396	.00841	32.409	.16116	424.31	1.1738
#1	L.06869	L.00422	L.00767	L.00271	2.4417	L.01073	2.2210
#2	L.07145	L.00380	L.00767	L.00432	2.4361	L-.02145	2.2583
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25273	L.00105	279.00	L-.00277	L-.00772	L-.00262	L.00479
SDev	.00251	.00052	2.69	.02556	.00332	.00097	.00061
%RSD	.99442	49.583	.96409	923.11	42.943	36.875	12.846
#1	.25095	L.00068	277.10	L-.02085	L-.00538	L-.00331	L.00523
#2	.25451	L.00142	280.90	L.01531	L-.01007	L-.00194	L.00436
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	8.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr3677
Units	ppm	ppm
Avge	L-.01650	.29177
SDev	.00001	.00216
%RSD	.07888	.74061
#1	L-.01651	.29330
#2	L-.01649	.29024
Errors	LC Low	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-05-144-01A S Operator: ED
Run Time: 05/23/97 18:59:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.03428	L.00988	4.9205	25.279	.00433	L.03531	.95744
SDev	.00206	.01286	.0195	.338	.00009	.00168	.00543
%RSD	8.0115	130.14	.39537	1.3374	2.0857	4.7688	.56769
#1	L.03282	L.01897	4.9066	25.040	.00427	L.03650	.95380
#2	L.03574	L.00079	4.9343	25.519	.00439	L.03412	.96128
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00

Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2288	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	143.29	10.579	L.00117	L.00848	.20179	4.8251	L.00262
SDev	1.19	.077	.00008	.00190	.00055	.0224	.00022
%RSD	.83340	.72976	7.0335	22.428	.27345	.46507	8.5710
#1	142.44	10.525	L.00123	L.00983	.20140	4.8092	L.00278
#2	144.13	10.634	L.00111	L.00714	.20218	4.8409	L.00246
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.07153	L.00253	L.00395	L.00205	2.4111	1.0266	2.2645
SDev	.01373	.00060	.00297	.00146	.0079	.0084	.0280
%RSD	19.186	23.588	75.321	71.251	.32604	.81355	1.2353
#1	L.08129	L.00295	L.00605	L.00309	2.4056	1.0207	2.2447
#2	L.06137	L.00211	L.00185	L.00102	2.4167	1.0325	2.2843
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25516	3.7943	281.32	L.02356	L-.00111	L-.00508	L.00303
SDev	.00273	.0309	2.78	.05017	.00760	.00098	.00122
%RSD	1.0691	.81363	.98969	212.97	682.78	19.241	40.364
#1	.25323	3.7725	279.35	L.05903	L-.00648	L-.00577	L.00216
#2	.25709	3.8161	283.28	L-.01192	L.00426	L-.00439	L.00389
Errors	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	L-.00913	.52899					
SDev	.00004	.01170					
%RSD	.39416	2.2117					
#1	L-.00911	.52072					
#2	L-.00916	.53727					
Errors	LC Low	LC Pass					
High	100.00	75.000					
Low	.02000	.03000					

Method: ICP97 Sample Name: ZZZZZZ Operator: ED

Run Time: 05/23/97 19:05:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.01092	L-.00437	L.01963	L.00126	L-.00001	L-.00059	L-.00008
SDev	.00411	.00686	.00842	.00089	.00022	.00065	.00075
%RSD	37.671	157.00	42.876	70.711	2451.9	109.60	983.21
#1	L-.01382	L-.00922	L.02558	L.00063	L-.00017	L-.00013	L-.00060
#2	L-.00801	L.00048	L.01368	L.00189	L.00015	L-.00105	L.00045
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00251	L.00452	L-.00130	L.00090	L.00006	L.01697	L.00063
SDev	.01058	.00360	.00002	.00253	.00001	.00861	.00213
%RSD	421.56	79.655	1.4881	281.64	24.776	50.751	335.88
#1	L-.00497	L.00197	L-.00128	L-.00089	L.00005	L.01088	L-.00087
#2	L.00999	L.00707	L-.00131	L.00269	L.00007	L.02306	L.00214
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1961	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00351	L.00084	L-.00188	L.00381	L.01529	L.02486	L-.00131
SDev	.00134	.00000	.00477	.00040	.07861	.00755	.00454
%RSD	381.438	.13570	252.59	11.261	514.26	30.748	346.87
#1	L.00481	L.00084	L-.00505	L.00379	L-.04080	L.01860	L-.00451
#2	L.00220	L.00084	L.00169	L.00383	L.07087	L.03008	L.00191
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.01000	.20000	.10000	.01000

Elem	Sr4215	Ag3280	Na5889	Ti3776	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00009	L.00219	L.03141	L.10837	L.00069	L-.00014	L-.00174
SDev	.00013	.00155	.01388	.11809	.00380	.00064	.00101
%RSD	141.13	70.861	44.194	109.39	550.35	449.92	.43564
#1	L.00000	L.00109	L.02188	L.02416	L-.00199	L-.00060	L-.00176
#2	L.00019	L.00328	L.04122	L.19258	L.00337	L.00081	L-.00172
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	8.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Tl3243	Zr2677
Units	ppm	ppm

Avge	L-.00003	L-.00120
SDev	.00900	.00640
%RSD	30332.	535.02
#1	L-.00639	L-.00572
#2	L.00633	L.00333
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-05-144-02A Operator: ED
Run Time: 05/23/97 19:09:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04151	L-.01061	L.02566	.13454	L.00036	L.01603	L-.00027
SDev	.01236	.00430	.00480	.00059	.00006	.00149	.00011
%RSD	29.734	40.560	18.706	.44125	16.995	9.2958	39.794
#1	L.05025	L-.00757	L.02227	.13412	L.00040	L.01708	L-.00034
#2	L.03277	L-.01366	L.02906	.13496	L.00032	L.01497	L-.00019
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	153.20	.52808	L.00104	L.00444	.16804	L.02035	L.00182
SDev	.96	.00554	.00002	.00380	.00009	.01891	.00067
%RSD	.62735	1.0501	1.8927	85.550	.05318	92.950	36.893
#1	152.52	.53200	L.00102	L.00713	.16810	L.03372	L.00230
#2	153.88	.52416	L.00105	L.00176	.16797	L.00697	L.00135
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.09274	L.00105	L.00422	L.00198	3.8800	L.01153	2.8149
SDev	.01521	.00030	.00238	.00193	.0059	.01175	.0361
%RSD	16.402	28.355	56.505	97.387	.15196	101.97	1.2827
#1	.10350	L.00127	L.00591	L.00062	3.8759	L.00322	2.7894
#2	L.08199	L.00084	L.00253	L.00334	3.8542	L.01984	2.8404
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20591	L-.00010	271.38	L.02101	L-.01013	L.00026	L.00469
SDev	.00208	.00130	1.48	.03358	.00000	.00104	.00001
%RSD	1.0084	1237.3	.54519	159.84	.02467	399.36	.22686
#1	.20445	L.00081	270.33	L.04475	L-.01014	L.00100	L.00468
#2	.20738	L-.00102	272.43	L-.00274	L-.01013	L-.00047	L.00469
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00407	.03021
SDev	.00899	.00808
%RSD	221.02	26.729
#1	L.01042	.03592
#2	L-.00229	L.02450
Errors	LC Low	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-05-144-03A Operator: ED
Run Time: 05/23/97 19:13:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.03926	L-.00493	L.01018	.12541	L.00008	L.02037	L-.00045
SDev	.00728	.01125	.00576	.00104	.00015	.00014	.00043
%RSD	18.531	228.16	56.562	.82840	191.43	.66842	95.769
#1	L.04441	L.00302	L.00611	.12467	L.00018	L.02028	L-.00075
#2	L.03412	L-.01238	L.01426	.12614	L-.00003	L.02047	L-.00014
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	149.20	.08784	L.00254	L.00525	.58258	L.00993	L.00159
SDev	.29	.00473	.00181	.00126	.00231	.00180	.00011
%RSD	.19642	5.3790	71.241	24.056	.39611	18.162	7.0711
#1	149.00	.08118	L.00382	L.00614	.58421	L.01120	L.00151
#2	149.41	.08450	L.00126	L.00436	.58095	L.00865	L.00167
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

00028

Elem	Mg2781	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.07316	L.00211	L.00337	L.00192	2.6710	L.00687	3.1383
SDev	.00222	.00000	.00119	.00048	.0023	.00227	.0422
%RSD	3.0460	.00227	35.289	25.110	.07358	32.615	1.3292
#1	L.07592	L.00211	L.00421	L.00226	2.6896	L.00857	3.1682
#2	L.07150	L.00211	L.00253	L.00158	2.6724	L.00536	3.2284
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11236	L.00092	273.68	L.05952	L-.00508	L.00192	L.00228
SDev	.00025	.00100	.57	.00880	.00881	.00120	.00153
%RSD	.22499	108.08	.20995	14.786	187.66	62.649	67.004
#1	.11218	L.00022	274.08	L.05380	L.00068	L.00107	L.00120
#2	.11254	L.00163	273.27	L.06574	L-.00478	L.00277	L.00336
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L-.00438	L.01024
SDev	.00905	.00380
%RSD	206.53	37.124
#1	L.00202	L.00755
#2	L-.01078	L.01293
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-05-144-04A Operator: ED
Run Time: 05/23/97 19:18:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01592	L-.00847	L.01285	.14818	L.00003	L.02268	L-.00033
SDev	.00514	.00544	.00205	.00030	.00015	.00091	.00128
%RSD	32.278	64.241	15.955	.20032	497.70	3.9990	390.35
#1	L.01955	L-.01231	L.01430	.14797	L-.00008	L.02203	L-.00123
#2	L.01229	L-.00462	L.01140	.14839	L.00014	L.02332	L.00058
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	143.64	.07764	L-.00134	L.00208	.71126	L.00250	L.00206
SDev	1.11	.00028	.00000	.00063	.00292	.01204	.00056
%RSD	.77152	.36051	.05866	30.393	.41080	481.97	27.196
#1	142.86	.07744	L-.00134	L.00164	.70919	L-.00602	L.00167
#2	144.43	.07783	L-.00134	L.00253	.71332	L.01102	L.00246
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14378	L.00274	L.00253	L.00244	2.7405	L.00134	4.2721
SDev	.00007	.00030	.00119	.00088	.0216	.00796	.0312
%RSD	.04661	10.883	47.081	35.883	.78887	593.98	.73149
#1	.14383	L.00295	L.00169	L.00306	2.7252	L-.00429	4.2500
#2	.14374	L.00253	L.00337	L.00182	2.7558	L.00697	4.2942
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10945	L-.00084	274.93	L-.01164	L-.00337	L.00261	L.00448
SDev	.00108	.00181	1.88	.03709	.00572	.00101	.00039
%RSD	.98658	527.69	.61135	318.71	169.77	38.882	8.8048
#1	.10869	L-.00162	273.74	L-.03786	L-.00741	L.00332	L.00465
#2	.11021	L.00094	276.12	L.01459	L.00068	L.00189	L.00422
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3148	Zr3677
Units	ppm	ppm
Avge	L-.00650	L.00471
SDev	.00002	.00283
%RSD	.38185	60.206
#1	L-.00652	L.00671
#2	L-.00648	L.00270
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: CCV Operator: ED
Run Time: 05/23/97 19:22:06

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1858	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.148	2.0877	2.1355	2.0581	2.0640	1.9945	2.0726
SDev	.197	.0036	.0037	.0107	.0085	.0034	.0037
%RSD	.38424	.17009	.17367	.51919	.40703	.16887	.17830
#1	51.284	2.1002	2.1378	2.0657	2.0900	1.9969	2.0752
#2	51.007	2.0851	2.1327	2.0506	2.0730	1.9921	2.0699
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.666	2.0721	2.0761	2.0410	42.129	2.0829	2.0261
SDev	.182	.0158	.0000	.0076	.130	.0259	.0082
%RSD	.34638	.76375	.00060	.37127	.30827	1.2417	.40407
#1	52.795	2.0833	2.0761	2.0468	42.220	2.0646	2.0319
#2	52.537	2.0609	2.0761	2.0356	42.037	2.1012	2.0203
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.400	2.0529	2.0859	2.0606	41.109	2.1406	2.0204
SDev	.092	.0063	.0089	.0076	.006	.0072	.0069
%RSD	.22258	.30521	.42820	.36968	.01912	.33687	.34050
#1	41.465	2.0574	2.0922	2.0660	41.103	2.1457	2.0253
#2	41.335	2.0485	2.0796	2.0552	41.114	2.1355	2.0156
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0477	2.0937	49.555	2.0047	2.0562	2.0521	2.1154
SDev	.0106	.0008	.183	.0460	.0190	.0090	.0045
%RSD	.51583	.03772	.36970	2.2957	.92318	.43973	.21326
#1	2.0552	2.0943	49.685	1.9722	2.0697	2.0585	2.1186
#2	2.0402	2.0932	49.426	2.0373	2.0428	2.0457	2.1122
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.0899	2.1268

SDev	.0028	.0024
%RSD	.13285	.11164
#1	2.1019	2.1282
#2	2.0979	2.1249
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: ED
Run Time: 05/23/97 19:26:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01669	.01002	.01097	.00115	.00113	.00243	.00068
SDev	.01439	.01123	.00477	.00044	.00034	.00142	.00053
%RSD	86.196	112.16	43.461	38.569	30.081	58.442	78.732
#1	.02686	.00207	.00760	.00147	.00137	.00343	.00105
#2	.00652	.01796	.01434	.00084	.00089	.00142	.00030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03525	.00373	.00000	.00404	.00820	.00609	.00071
SDev	.02627	.00416	.00184	.00190	.00457	.00341	.00022
%RSD	104.06	111.76	67241.	47.147	55.710	56.017	31.427
#1	.04382	.00078	.00131	.00269	.01143	.00368	.00056
#2	.00667	.00667	-.00130	.00538	.00497	.00851	.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02346	.00127	.00211	.00227	.01807	.03083	-.00131
SDev	.01000	.00000	.00060	.00119	.03145	.00872	.00449
%RSD	42.617	.00995	28.259	52.536	174.06	28.284	343.63
#1	.03053	.00127	.00253	.00311	.04030	.02466	.00187
#2	.01639	.00127	.00169	.00142	-.00417	.03700	-.00448
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.00193	.00826	.04711	.04730	-.00236	.00189	-.00197
SDev	.00053	.00180	.02498	.00800	.00237	.00061	.00030
%RSD	51.875	15.281	53.058	16.917	100.76	32.040	15.428
#1	.00140	.00882	.06477	.04164	-.00088	.00232	-.00218
#2	.00085	.00291	.02944	.05296	-.00404	.00146	-.00175
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.00220	.00418
SDev	.00602	.00059
%RSD	273.78	14.135
#1	-.00648	.00376
#2	.00206	.00460
Errors	LC Pass	LC Pass
High	.05000	.05000
Low	-.05000	-.05000

Method: ICP97 Sample Name: 97-05-144-05A Operator: ED
Run Time: 05/23/97 19:30:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11066	L-.00974	L.01821	.16812	L-.00007	L.01869	L-.00025
SDev	.00716	.00106	.00469	.00059	.00008	.00150	.00085
%RSD	6.4710	10.903	25.784	.35311	107.33	8.0058	337.14
#1	.10559	L-.01049	L.01489	.16854	L-.00002	L.01763	L-.00085
#2	.11572	L-.00699	L.02153	.16770	L-.00013	L.01974	L.00035
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	154.23	.02988	L-.00004	L.00459	3.4547	L.01576	L.00056
SDev	.28	.00251	.00182	.00254	.0096	.00005	.00067
%RSD	.18314	8.3864	4642.0	55.219	.27674	.33503	121.22
#1	154.03	.02811	L.00125	L.00280	3.4479	L.01580	L.00008
#2	154.43	.03166	L-.00133	L.00639	3.4615	L.01573	L.00103
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04122	.01118	L.00758	L.00057	3.8036	L.00375	1.6744
SDev	.00524	.00030	.00357	.00138	.0314	.00379	.0083
%RSD	12.702	2.6761	47.097	242.27	.82672	100.94	.49562
#1	L.04492	.01097	L.00506	L-.00041	3.7814	L.00643	1.6685
#2	L.03752	.01139	.01011	L.00154	3.8258	L.00107	1.6803
Errors	LC Low	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12263	L-.00026	269.21	L.08156	L-.00840	L.00065	L.00307
SDev	.00028	.00025	.06	.03079	.00525	.00023	.00182
%RSD	.22447	94.169	.02062	37.751	62.478	35.583	59.441
#1	.12283	L-.00009	269.17	L.05978	L-.01212	L.00049	L.00178
#2	.12244	L-.00044	269.25	L.10333	L-.00469	L.00081	L.00436
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L-.00034	L.00661
SDev	.00298	.00964
%RSD	888.00	145.76
#1	L.00177	L.01348
#2	L-.00244	L-.00020
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-05-144-06A Operator: ED
Run Time: 05/23/97 19:34:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12734	L.00223	L.02338	.12341	L.00022	L.01380	L.00005
SDev	.00000	.01124	.00888	.00089	.00005	.00103	.00042
%RSD	.00134	503.41	37.978	.72154	21.323	7.4670	918.38
#1	.12733	L.01018	L.01710	.12404	L.00019	L.01452	L.00035
#2	.12734	L-.00571	L.02966	.12278	L.00026	L.01307	L-.00025
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	156.23	.17023	L-.00266	L.00412	1.8371	L.01471	L.00222
SDev	.30	.00223	.00182	.00000	.0073	.01211	.00011
%RSD	.51249	1.3074	68.557	.09833	.44488	82.345	5.0508
#1	156.50	.17180	L-.00137	L.00411	1.8423	L.02327	L.00230
#2	155.96	.16865	L-.00395	L.00412	1.8320	L.00614	L.00214
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2381
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.05129	L.00485	L.00379	L.00111	3.5874	L.00697	1.9410
SDev	.00287	.00030	.00059	.00375	.0590	.00756	.0000
%RSD	5.5874	6.1518	15.651	339.24	1.6528	108.76	.00075
#1	L.05332	.00506	L.00421	L-.00155	3.6090	L.00161	1.9410
#2	L.04927	L.00464	L.00337	L.00378	3.5257	L.01239	1.9410
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11522	L.00054	268.54	L.04959	L-.00271	L.00322	L.01123
SDev	.00010	.00050	.65	.01396	.01808	.00082	.00032
%RSD	.08443	92.439	.24065	28.153	667.76	25.501	2.8555
#1	.11515	L.00019	269.00	L.03972	L.01008	L.00380	L.01146
#2	.11529	L.00089	268.08	L.05946	L-.01550	L.00264	L.01100
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L-.00873	L.01389
SDev	.00304	.00577
%RSD	34.879	41.535
#1	L-.00658	L.00981
#2	L-.01088	L.01797
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-05-144-07A Operator: ED
Run Time: 05/23/97 19:38:31
Comment:

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04221	L-.01564	L.01755	.13475	L.00013	L.01360	L-.00003
SDev	.00931	.00511	.00806	.00119	.00001	.00051	.00032
%RSD	22.046	32.654	45.926	.88113	10.197	3.7632	959.93
#1	L.04879	L-.01203	L.02325	.13391	L.00014	L.01396	L.00019
#2	L.03563	L-.01925	L.01185	.13559	L.00012	L.01324	L-.00026
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	149.75	.03067	L-.00003	L.00304	.43791	L.02673	L.00127
SDev	1.06	.00111	.00182	.00063	.00292	.00521	.00123
%RSD	.70495	3.6272	6977.1	20.843	.66661	19.505	97.227
#1	149.00	.02988	L.00126	L.00349	.43585	L.03042	L.00040
#2	150.50	.03145	L-.00132	L.00259	.43997	L.02305	L.00214
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.05382	L.00253	L.00337	L.00063	3.2811	L.00938	2.5194
SDev	.01305	.00000	.00119	.00041	.0079	.00417	.0264
%RSD	24.251	.01894	35.338	65.820	.23980	44.455	1.0488
#1	L.06305	L.00253	L.00253	L.00033	3.2866	L.00643	2.5007
#2	L.04459	L.00253	L.00421	L.00092	3.2755	L.01233	2.5380
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Ti3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11216	L.00053	263.79	L.03525	L-.00200	L-.00007	L.00274
SDev	.00102	.00206	2.00	.04496	.00095	.00021	.00214
%RSD	.90572	386.32	.75767	127.53	47.661	295.52	77.899
#1	.11144	L-.00092	262.37	L.00346	L-.00132	L-.00022	L.00123
#2	.11287	L.00199	265.20	L.06704	L-.00267	L.00008	L.00425
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	8.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.02000	.10000	.01000	.02000

Elem	Ti3349	Zr2677
Units	ppm	ppm
Avge	L-.00434	L.00105
SDev	.00303	.00183

%RSD	89.249	154.87
#1	L-.00231	L.00220
#2	L-.00848	L-.00010
Errors	LC Low	LC Low
High	100.00	75.000
Low	.03000	.03000

Method: ICP97 Sample Name: 97-05-144-08A Operator: ED
Run Time: 05/28/97 19:42:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04877	L-.01075	L.01203	.14198	L-.00010	L.04087	L-.00092
SDev	.00211	.00692	.01078	.00044	.00001	.00081	.00085
%RSD	4.3238	64.388	89.228	.31356	6.6004	.78712	92.345
#1	L.04728	L-.00586	L.00444	.14167	L-.00010	L.04078	L-.00081
#2	L.05026	L-.01565	L.01962	.14239	L-.00011	L.04095	L-.00152
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	152.04	.10844	L.00123	L.00178	L.05494	L.00990	L.00190
SDev	.43	.00111	.00366	.00127	.00080	.02220	.00011
%RSD	.28178	1.0260	297.36	71.266	1.4532	224.23	5.8926
#1	151.73	.10765	L.00382	L.00088	L.05438	L-.00580	L.00198
#2	152.34	.10923	L-.00136	L.00268	L.05551	L.02560	L.00182
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.05669	L.00105	L.00421	L-.00076	3.5618	L.01260	2.9373
SDev	.01706	.00030	.00119	.00029	.0197	.00114	.0090
%RSD	30.084	28.292	28.289	38.713	.55177	9.0396	.30785
#1	L.06875	L.00084	L.00505	L-.00096	3.5479	L.01179	2.9309
#2	L.04463	L.00127	L.00337	L-.00055	3.5757	L.01340	2.9437
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12258	L-.00078	270.61	L.01238	L-.00571	L-.00028	L.00171

SDev	.00045	.00181	.00	.04411	.00050	.00163	.00366
%RSD	.36363	231.49	.00103	356.14	8.7127	555.51	213.45
#1	.12236	L-.00206	270.61	L-.01880	L-.00606	L.00086	L-.00087
#2	.12289	L.00050	270.62	L.04357	L-.00536	L-.00145	L.00430
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L-.00430	L.00266
SDev	.00301	.00138
%RSD	69.972	51.824
#1	L-.00643	L.00363
#2	L-.00217	L.00168
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ICSAF Operator: ED
Run Time: 05/23/97 19:46:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1938	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	479.81	.02687	.14313	.00126	.00012	-.03132	-.00959
SDev	7.80	.00474	.08154	.00030	.00020	.00123	.00121
%RSD	1.5848	17.637	56.969	23.570	166.19	3.9289	12.523
#1	484.98	.03022	.20079	.00105	.00026	-.03045	L-.01044
#2	474.23	.02352	.08547	.00147	-.00002	-.03219	-.00874
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00800	-.00400	-.10000	-.01000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	482.99	.00106	-.00123	-.02320	186.48	.12765	.00087
SDev	5.79	.00067	.00000	.00242	2.27	.00848	.00000
%RSD	1.1989	63.193	.13616	10.435	1.2187	6.6402	.00000
#1	487.08	.00059	-.00124	-.02492	188.08	.13384	.00087
#2	478.89	.00154	-.00123	-.02148	184.87	.12166	.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	484.13	.00818	-.00421	-.01898	.03753	.07611	.03754
SDev	8.34	.00048	.00119	.00090	.05110	.00455	.00150
%RSD	1.2840	5.8528	28.285	4.7564	136.15	5.9737	3.9996
#1	498.61	.00851	-.00508	-.01834	.00139	.07933	.03860
#2	489.64	.00786	-.00338	-.01962	.07365	.07290	.03648
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	800.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01501	.00248	.00589	.11075	-.08461	.00156	.01485
SDev	.00023	.00015	.00555	.14111	.01141	.00277	.00039
%RSD	1.5050	6.0065	94.282	127.42	13.482	177.93	2.7424
#1	-.01517	.00237	.00198	.01098	-.07655	-.00040	.01407
#2	-.01485	.00258	.00981	.21053	-.09268	.00352	.01483
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.50000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.02788	.01562
SDev	.00002	.00243
%RSD	.07599	15.523
#1	-.02789	.01734
#2	-.02786	.01391
Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABF Operator: ED
Run Time: 05/23/97 19:50:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	485.31	.95351	1.8666	.45881	.46243	.87167	.87483
SDev	.07	.00586	.0103	.00059	.00109	.00298	.00640
%RSD	.01422	.61420	.55110	.12939	.23480	.34180	.73172
#1	485.27	.95765	1.8738	.45923	.46319	.86957	.87936
#2	485.36	.94937	1.8593	.45839	.46166	.87378	.87030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	800.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	487.18	.44754	.43911	.43794	188.20	1.0352	.99195
SDev	.86	.00276	.00001	.00263	.40	.0121	.00157
%RSD	.17579	.61695	.00158	.60102	.21260	1.1669	.15828
#1	487.79	.44559	.43911	.43608	188.48	1.0437	.99084
#2	486.57	.44949	.43912	.43981	187.91	1.0266	.99306
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	499.11	.45995	.92526	.85529	4.7847	1.0266	L.18872
SDev	.33	.00029	.00059	.00164	.0039	.0357	.00713
%RSD	.06541	.06336	.06415	.19193	.08215	3.4726	3.7807
#1	499.34	.46015	.92484	.85645	4.7820	1.0518	L.19377
#2	498.88	.45974	.92568	.85413	4.7875	1.0014	L.18368
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	600.00	.60000	1.2000	1.2000	6.0000	1.2000	6.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93487	.94700	4.7873	.96973	.84956	.45197	.92694
SDev	.00049	.00492	.0056	.00261	.00191	.00179	.00218
%RSD	.05295	.51913	.11596	.26924	.22481	.39705	.23586
#1	.93522	.95048	4.7913	.97157	.84821	.45324	.92540
#2	.93452	.94353	4.7834	.96788	.85091	.45071	.92848
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	1.2000	6.0000	1.2000	1.2000	.60000	1.2000
Low	.80000	.80000	4.0000	.80000	.80000	.40000	.80000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.92880	.96233
SDev	.00598	.00645
%RSD	.64529	.66988
#1	.93103	.96689
#2	.92257	.95777
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: ED
Run Time: 05/23/97 19:54:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.744	2.0229	2.0782	1.9731	2.0190	1.9836	2.0209
SDev	.320	.0086	.0217	.0157	.0161	.0018	.0127
%RSD	.64360	.43521	1.0448	.79729	.79537	.09194	.63000
#1	49.970	2.0292	2.0945	1.9843	2.0304	1.9848	2.0299
#2	49.517	2.0167	2.0638	1.9620	2.0077	1.9823	2.0119
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.218	2.0254	2.0089	1.9803	41.005	2.0254	1.9532
SDev	.205	.0064	.0293	.0114	.239	.0025	.0143
%RSD	.40018	.31633	1.4581	.57354	.58304	.12406	.73769
#1	51.360	2.0299	2.0287	1.9883	41.174	2.0272	1.9637
#2	51.070	2.0208	1.9891	1.9723	40.836	2.0237	1.9427
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.380	1.9975	2.0350	2.0171	39.700	2.0778	1.9706
SDev	.205	.0095	.0131	.0088	.153	.0284	.0031
%RSD	.50806	.47788	.64364	.43614	.38614	1.3683	.15495
#1	40.525	2.0042	2.0442	2.0233	39.808	2.0577	1.9728
#2	40.235	1.9907	2.0257	2.0109	39.591	2.0979	1.9685
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9812	2.0431	47.542	1.9869	2.0093	1.9896	2.0766
SDev	.0152	.0074	.278	.1448	.0314	.0084	.0051
%RSD	.76650	.36421	.58388	7.3642	1.5616	.42315	.24518
#1	1.9920	2.0484	47.738	1.8644	2.0315	1.9955	2.0802
#2	1.9705	2.0378	47.345	2.0693	1.9871	1.9836	2.0730
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.0551	2.0633
SDev	.0153	.0033
%RSD	.74679	.16143

#1	2.0442	2.0610
#2	2.0660	2.0657
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: ED
Run Time: 05/23/97 19:59:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01961	-.00494	.01596	.00042	.00085	.00069	.00083
SDev	.00830	.00545	.00915	.00030	.00003	.00105	.00011
%RSD	42.302	110.28	57.351	70.711	3.9872	151.69	12.812
#1	.01374	-.00109	.02243	.00021	.00087	.00143	.00090
#2	.02547	-.00880	.00949	.00063	.00083	-.00005	.00075
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02415	.00491	-.00130	.00448	.00911	.00967	.00016
SDev	.00278	.00083	.00364	.00127	.00078	.00182	.00101
%RSD	11.527	16.878	280.92	28.417	8.5475	18.865	636.40
#1	.02612	.00549	-.00387	.00538	.00966	.00838	-.00056
#2	.02218	.00432	.00128	.00358	.00856	.01096	.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03609	.00084	.00211	-.00184	.04864	.02520	-.00316
SDev	.01191	.00000	.00178	.00006	.02752	.00227	.00565
%RSD	32.987	.02216	84.789	3.3786	56.569	9.0124	178.73
#1	.02767	.00084	.00084	-.00180	.06810	.02360	.00083
#2	.04451	.00084	.00337	-.00189	.02918	.02681	-.00716
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00065	.00346	.05300	.07116	-.01041	.00232	-.00109
SDev	.00000	.00183	.00000	.03789	.00809	.00121	.00152

%RSD	.01883	52.808	.00000	58.247	77.787	52.146	188.14
#1	.00088	.00217	.05800	.09795	-.01813	.00318	-.00001
#2	.00085	.00478	.05300	.04437	-.00488	.00148	-.00216
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.00211	-.00018
SDev	.00808	.00484
%RSD	287.38	2570.1
#1	-.00217	.00310
#2	.00635	-.00346
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

ROSS ANALYTICAL SERVICES, INC.
SW-846 3010A Total Metals in Aqueous Samples
ICP Digestion Procedure

Method: EPA SW-846 3010A	Logbook # IP- 3
Matrix: Waters, Wastewaters, TCLP Extracts	Page # 96
Test Code: 3010	Analyst: DL
Start Date & Time: 5/23/97 0845	Checker: DL
Finish Date & Time: 5/23/97 1245	Storage: RT2D
Client(s): DONS PORT Smith-Tech Borgess-NIPL	

QC TRACKING			WO # RASI ID	INITIAL VOLUME (mL)	SPIKE ADDED (uL)	FINAL VOLUME (mL)	COMMENTS
Preparation Blank Tracking #			PBW- 4679	50		50	
Laboratory Control Standard Tracking #			LCSW- 4798		500		
No.	MS	MSD					
1			97-05-157-01A				
2			97-05-144-01A	10			
	X		-01A		*500		
3			-02A				
4			-03A				
5			-04A				
6			-05A				
7			-06A				
8			-07A				
9			-08A				
			~~DL 5/23/97 -09A~~				
			BBLK-0071				TCLP Blank for 144-01A→08
10			97-05-149-01C	100		25	
11			-02C				
12			-03C				
13			-04C				
14			-05C				
15			-06C				
16			-07C				
17			Dup -08C				
18	X		-09C		500		
19		X	-10C		500		

For Prep Use Only: WATERS	1.5 mL conc. HNO3	1.5 mL conc. HNO3	5 mL 1:1 HCl
	✓	✓	✓

HNO3-K49060
HCl- L14073

LCS & MS Spike Solution ID
RN3033 ~~*RN2883 TCLP~~ DL 5/23/

TCLP * RN2961

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER SLS

	B1	B2	97-05-144-01A	2	3	4	5
LAB NUMBER	BULK 0021		97-05-144-01A	97-05-144-02A	97-05-144-03A	97-05-144-04A	97-05-144-05A
CLIENT			Smith. Tech	→	→	→	→
MATRIX			Concrete/crushed	→	→	→	→
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *			100%	→	→	→	→
WEIGHT LEACHED			100.0 g	→	→	→	→
VOL EXTR FLUID	2000 ml		2000 ml	→	→	→	→
FLUID TYPE (1 or 2)	1		1	→	→	→	→
FLUID pH	4.89		4.89	→	→	→	→
EXT NO. | RPM	A | 30	|	A | 30	A | 30	A | 30	A | 30	A | 30
pH OF LEACHATE	5		7	12	11	11	11
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START|STOP: DATE	5/22/97 | 5/23/97	|	5/22/97 | 5/23/97	→ |	→ |	→ |	→ |
TIME	4:00p | 8:00a	|	4:00p | 8:00a	→ |	→ |	→ |	→ |
TEMP	21.5° | 21.5°	|	21.5° | 21.5	→ |	→ |	→ |	→ |
ANALYST	SJ | SJ	|	SJ | SJ	→ |	→ |	→ |	→ |

* from Preliminary Determinations page

P:BOT_EXT.WK3

Ross Analytical Services, Inc.

TCLP Bottle Logbook # 3, page 000125 B

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TCLP BOTTLE EXTRACTION SUMMARY

97-05-144

CHECKER

	B1	B2		2	3	4	5
LAB NUMBER	6BLK 0071		97-05-144-08A	97-05-144-08A	97-05-144-08A		
CLIENT			Smith Tech	→	→		
MATRIX			Concrete/crushed	→	→		
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *			100%	→	→		
WEIGHT LEACHED			100.0g	→	→		
VOL EXTR FLUID	2000 ml		2000 ml	→	→		
FLUID TYPE (1 or 2)	1		1	→	→		
FLUID pH	4.89		4.89	→	→		
EXT NO. | RPM	A | 30	|	B | 30	B | 30	B | 30	|	|
pH OF LEACHATE	5		11	11	11		
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START|STOP: DATE	5/22/97 | 5/23/97	|	5/22/97 | 5/23/97	→ |	→ |	|	|
TIME	4:00p | 8:00a	|	4:00p | 8:00a	→ |	→ |	|	|
TEMP	21.5° | 21.5	|	21.5° | 21.5	→ |	→ |	|	|
ANALYST	SJ | SJ	|	SJ | SJ	→ |	→ |	|	|

* from Preliminary Determinations page

P:BOT_EXT.WK3

000126

Ross Analytical Services, Inc.

TCLP Bottle Logbook # 3, page _____ B

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97-05-144

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
8391	Dayton Electroplate

SAMPLERS: *(Print Name and Sign)*
Thomas C. Campbell *Thomas C Campbell*

Activity Code:

Billing To:
Eva Tabb/Smith Env. Inc.
1030 Valley Street
Dayton OH 45404

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: TCLP Chrome							TAG NUMBERS
PV2-4	5/19	1330		X	Plater # 2 Core #1	1	X							QA/QC LEVEL II
PV2-5	↓	↓		X	Core #2	1	X							
PV2-6	↓	↓		X	Core #4	1	X							7 Day Turn-Around-Time
PV2-7	↓	1510		X	Core #3	1	X							
PV2-8	↓	↓		X	Core #5	1	X							
PV2-9	↓	↓		X	Core #6	1	X							
PV2-10	↓	↓		X	Core #7	1	X							
PV2-11	↓	1545		X	Core #8	1	X							

Send Results To:
Tom Campbell
260 Northland Blvd Ste 125B
Cincinnati OH 45246
Phone: 513-771-9314
Fax: 513-771-9315

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Thomas C Campbell	5/19/97 1830	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time
		5/20/97 1030

Ship To:
Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway
Strongsville OH 44136

ATTN:

Airbill Number 4050912460

Chain of Custody Seal Numbers

000055

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

Printed on Recycled Paper/Printed with Soy-Based Ink

5-27387

FedEx *USA Airbill* Tracking Number 4050912460

936955 **Recipient's Copy** 0C042/00090

1 From

Date 5/14/97

Sender's Name Eva Tubb Phone (937) 223-6755

Dept./Floor/Suite/Room

Company SMITH ENVIRONMENTAL TECH

Address 1030 VALLEY STREET

City DAYTON State OH Zip 45404

2 Your Internal Billing Reference Information 8391-17.4D

3 To

Recipient's Name Ross Analytical Services Phone 216 572-3200

Dept./Floor/Suite/Room

Company Ross Analytical Services

Address 16433 Foltz Industrial Parkway
(To "HOLD" at FedEx location, print FedEx address here)

City Strongsville State OH Zip 44136

For HOLD at FedEx Location check here
- [ ] Hold Weekday (Not available with FedEx First Overnight)
- [ ] Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

For Saturday Delivery check here
- [ ] (Extra Charge Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

4 0 5 0 9 1 2 4 6 0

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.
- [x] FedEx Priority Overnight (Next business morning)
- [ ] FedEx Standard Overnight (Next business afternoon)
- [ ] FedEx 2Day* (Second business day)
- [ ] FedEx First Overnight (Earliest next business morning delivery to select locations) (Additional charges apply)

*FedEx Letter Rate not available. Minimum charge One pound FedEx 2Day rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas
- [ ] FedEx Overnight Freight (Next business-day service for any distance)
- [ ] FedEx 2Day Freight (Second business-day service for any distance)
- [ ] FedEx Express Saver Freight (Up to 3 business-day service based upon distance)

(Call for delivery schedule. See back for detailed descriptions of freight products.)

5 Packaging
- [ ] FedEx Letter
- [ ] FedEx Pak (Declared value limit $500)
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other Pkg.

6 Special Handling

Does this shipment contain dangerous goods?
- [ ] Yes (As per attached Shipper's Declaration)
- [ ] Yes (Shipper's Declaration not required)
- [ ] Dry Ice — Dry Ice, 9, UN 1845 III ____ x ____ kg 904 (Dangerous Goods Shipper's Declaration not required)
- [ ] CA Cargo Aircraft Only

7 Payment

Bill to:
- [x] Sender (Account no. in section 1 will be billed)
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

(Enter FedEx account no. or Credit Card no. below)

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	15	$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

Credit Card Auth.

8 Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

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Questions?
Call 1·800·Go·FedEx
(1-800-463-3339)

WCSL 0197
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ROSS ANALYTICAL SERVICES, INC.

SAMPLE RECEIPT REPORT

WORKORDER # 9205-143, 144

RECEIVED BY: [illegible] DATE/TIME: 3/26/92 1500 LOGIN DATE: 3/26/92

SAMPLES ARRIVED BY(Circle One) Fed-Ex UPS Other(specify)_____

SHIPPING DOCUMENTATION PRESENT? YES/NO
TRACKING NUMBER 4509162460

SHIPPING CONTAINER INTACT? YES/NO (If no, explain below)

CUSTODY SEALS PRESENT? YES/NO
CUSTODY SEALS INTACT? YES/NO
Where? Cooler/Bottles
Seal Nos._____

SAMPLE TEMPERATURE Room Temp

AQUEOUS SAMPLES FOR METALS, pH < 2? YES/NO/NA

AQUEOUS SAMPLES FOR WET TESTS, pH < 2? YES/NO/NA

AQUEOUS SAMPLES FOR CYANIDE, pH > 12? YES/NO/NA

AQUEOUS SAMPLES FOR VOA'S PRESERVED WITH HCl? YES/NO/NA (From COC, Do not take pH)

OTHER PRESERVATION REQUIREMENTS MET? YES/NO/NA SPECIFY:

SAMPLES INTACT? YES/NO/NA (If no, explain below)

SHIPPING CONTAINER: (Circle) Ross Client
Date Returned Bucket tossed out

COMMENTS:

97-CS-144

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: 8391

PROJECT NAME: Dayton Electroplate

Activity Code:

SAMPLERS: (Print Name and Sign) Thomas C Campbell — Thomas C Campbell

Billing To:
Eva Tabb / Smith Env. Inc.
1030 Valley Street
Dayton OH 45404

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: TCLP Chrome						TAG NUMBERS
PV2-4	5/19	1330		X	Plater #2 core #1	1	X						QA/QC LEVEL II
PV2-5				X	core #2	1	X						
PV2-6				X	core #4	1	X						7 day Turn-Around-Time
PV2-7		1510		X	core #9	1	X						
PV2-8				X	core #5	1	X						
PV2-9				X	core #6	1	X						
PV2-10				X	core #7	1	X						
PV2-11		1545		X	core #8	1	X						

Send Results To:
Tom Campbell
260 Northland Blvd Ste 125B
Cincinnati OH 45246
Phone: 513-771-9314
Fax: 513-771-9315

Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Thomas C Campbell	5/19/97 1830	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) / Date / Time
		[illegible] 5/20/97

Ship To:
Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway
Strongsville OH 44136

ATTN:

Airbill Number: 4050912460

Chain of Custody Seal Numbers

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

Printed on Recycled Paper/Printed with Soy-Based Ink

PAGE 1 Ross Analytical WORK SHEET ORD # 97-05-144
CLIENT: SMITH_TECH CON: L_STECH CAT: COMMERCIAL RCVD: 05/20/97 DUE: 05/27/97
PROJ: 05/20/97 10:46:18 STAT: TRANSMITTED 05/20/97

DASH	SAMPLE IDENTIFICATION	STORED	DEPT	START	DUE BY	TESTS in DEPT: MT-IP, FRACTIONS /
01A	Concrete core PV2-4	Solar Labs	MT IP	05/27	05/27	CHRO_T
02A	Concrete core PV2-5	Solar Labs	MT IP	05/27	05/27	CHRO_T
03A	Concrete core PV2-6	Solar Labs	MT IP	05/27	05/27	CHRO_T
04A	Concrete core PV2-7	Solar Labs	MT IP	05/27	05/27	CHRO_T
05A	Concrete core PV2-8	Solar Labs	MT IP	05/27	05/27	CHRO_T
06A	Concrete core PV2-9	Solar Labs	MT IP	05/27	05/27	CHRO_T
07A	Concrete core PV2-10	Solar Labs	MT IP	05/27	05/27	CHRO_T
08A	Concrete core PV2-11	Solar Labs	MT IP	05/27	05/27	CHRO_T

Copy of MDLs and raw data.

PAGE 1 Ross Analytical WORK SHEET ORD # 97-05-144
CLIENT: SMITH_TECH CON: L_STECH CAT: COMMERCIAL RCVD: 05/20/97 DUE: 05/27/97
PROJ: 05/20/97 10:46:18 STAT: TRANSMITTED 05/20/97

DASH	SAMPLE IDENTIFICATION	STORED	DEPT	START	DUE BY	TESTS in DEPT: MT-QC, FRACTIONS /
01A	Concrete core PV2-4	Solar Labs	MT QC	05/27	05/27	TCMETS
02A	Concrete core PV2-5	Solar Labs	MT QC	05/27	05/27	TCMETS
03A	Concrete core PV2-6	Solar Labs	MT QC	05/27	05/27	TCMETS
04A	Concrete core PV2-7	Solar Labs	MT QC	05/27	05/27	TCMETS
05A	Concrete core PV2-8	Solar Labs	MT QC	05/27	05/27	TCMETS
06A	Concrete core PV2-9	Solar Labs	MT QC	05/27	05/27	TCMETS
07A	Concrete core PV2-10	Solar Labs	MT QC	05/27	05/27	TCMETS
08A	Concrete core PV2-11	Solar Labs	MT QC	05/27	05/27	TCMETS

PAGE 1 **Ross Analytical** WORK ORDER ORD # 97-05-144

CLIENT: SMITH_TECH CON: L_STECH CAT: COMMERCIAL RCVD: 05/20/97 DUE: 05/27/97

PROJ: 05/20/97 10:46:10 STAT: TRANSMITTED 05/20/97

COMPANY	Smith Technology Corp.	INVOICE BY	R		DEPTS/		
FACIL		% SURCHARGE			TESTS		
		% DISC: ALL					
REP	Kerry Wallace	TEST/JOB					
PHONE	937-223-6765 Fax 937-223-6762	# REP/INV	1	1			
					CW	8	
WORK ID	Concrete cores for TCLP Chrom	SAMPLES	8		IP	8	
TAKEN		KEEP FOR	30				
QUOTE #		KEEP TIL	06/26/97		MT	16	
TYPE	Variuos	DISP	D				
REPORT	Ecology & Environment	QUOTED $					
TO	~~6777 Engle Road~~ 260 Northland Blvd	SAMPLE $	1400.00				
	~~Suite N~~ Suite 125B	MISC $					
Cincinnati	~~Middleburg Hts, Ohio 44130~~ 45246	TOTAL $	1400.00				
ATTEN	~~Jeff Kimble/Fax 216-243-6923~~	INV #					
	Tom Campbell Fax 513-771-9315						
✓INVOICE	Smith Technologies Corp.	CREATED	05/20/97				
TO	1030 Valley Street	WRITTEN	05/20/97				
	Dayton, Ohio 45404	TRANSMIT	05/20/97				
		COMPLETE					
ATTEN	Accounts Payable	REPORTED					
PO#	8391 Dayton Electroplate	INVOICED					

	TRANSMIT	REPORTED	INVOICED	TOTAL $
PREV				
FIRST				

WORK ORDER COMMENTS

Data Deliverable Information attached.

5/20/97 10:18

OK UMS 5/20/97 11:15a.

Ross Analytical

WORK ORDER

ORD # 97-05-144

CLIENT: SMITH_TECH **CON: L_STECH**

CAT: COMMERCIAL

RCVD: 05/20/97 DUE: 05/27/97

PROJ:

STAT: TRANSMITTED 05/20/97

DASH	SAMPLE IDENTIFICATION	JOB
01A	Concrete core PV2-4	
02A	Concrete core PV2-5	
03A	Concrete core PV2-6	
04A	Concrete core PV2-7	
05A	Concrete core PV2-8	
06A	Concrete core PV2-9	
07A	Concrete core PV2-10	
08A	Concrete core PV2-11	

SAMPLE FRACTIONS

DASH	SAMPLE IDENTIFICATION	JOB

Ross Analytical

WORK ORDER

ORD # 97-05-144

CLIENT: SMITH_TECH CON: L_STECH

CAT: COMMERCIAL

RCVD: 05/20/97 DUE: 05/27/97

PROJ:

FRACTION DESCRIPTIONS

STAT: TRANSMITTED 05/20/97

DASH# 01A ID Concrete core PV2-4 05/20/97 STORED Solar Labs JOB
CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS
IP-3010
SAMPLE AND WORK DESCRIPTION MT-CHRO_T

DASH# 02A ID Concrete core PV2-5 05/20/97 STORED Solar Labs JOB
CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS
IP-3010
SAMPLE AND WORK DESCRIPTION MT-CHRO_T

DASH# 03A ID Concrete core PV2-6 05/20/97 STORED Solar Labs JOB
CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS
IP-3010
SAMPLE AND WORK DESCRIPTION MT-CHRO_T

DASH# 04A ID Concrete core PV2-7 05/20/97 STORED Solar Labs JOB
CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS
IP-3010
SAMPLE AND WORK DESCRIPTION MT-CHRO_T

DASH# 05A ID Concrete core PV2-8 05/20/97 STORED Solar Labs JOB
CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS
IP-3010
SAMPLE AND WORK DESCRIPTION MT-CHRO_T

DASH# 06A ID Concrete core PV2-9 05/20/97 STORED Solar Labs JOB
CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS
IP-3010
SAMPLE AND WORK DESCRIPTION MT-CHRO_T

DASH# 07A ID Concrete core PV2-10 05/20/97 STORED Solar Labs JOB
CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS
IP-3010
SAMPLE AND WORK DESCRIPTION MT-CHRO_T

Ross Analytical

WORK ORDER

ORD # 97-05-144

CLIENT: SMITH_TECH CON: L_STECH

CAT: COMMERCIAL

RCVD: 05/20/97 DUE: 05/27/97

PROJ:

FRACTION DESCRIPTIONS

STAT: TRANSMITTED 05/20/97

DASH# 08A ID Concrete core PV2-11 05/20/97 STORED Solar Labs JOB

CATEGORY O WHEN COLLECTED 05/19/97 CW-BOTTLE MT-TCMETS

IP-3010

SAMPLE AND WORK DESCRIPTION MT-CHRO_T

Level I.

A QA Level One report must at a minimum include: method, rinsate and trip blank; surrogate recoveries; detection limits; quantitation limits; sample documentation; chain of custody; sample holding times. The contract laboratory is required to submit the method defined quantitation limits, except where Riedel specifically requests method detection limits (MDL's) or quantitation limits different from those defined in the method.

Level II.

A QA Level Two report must at a minimum include: method, rinsate and trip blank, surrogate recoveries, detection limits, quantitation limits, sample documentation, chain of custody, sample holding times, matrix spike, matrix spike duplicate, instrument calibration data, chromatograms.

Level III.

A QA Level Three must include at a minimum all those items identified in Level II plus mass spectra.

Level IV.

A QA Level Four must include all those items in Level II and III plus calculation of analytical precision, accuracy, and co-efficient of variation by analyzing eight (8) QA replicates from the critical samples collected. To generate accurate and precision data for 8 replicates from critical samples collected, there must be enough sample collected and spiked with known amounts of target analytes to perform 8 analysis. Furthermore, that same matrix must be analyzed in an unspiked form.

d. The laboratory is required to assist Riedel Environmental Services personnel in determining which detection limits and analytical methods should be used on the project.

7. Normal QA/QC data turnaround times.

QA/QC Level	Typical Turnaround Times
1	To be established on a site specific basis
2	to accommodate each site specific need.
3	
4	

NOTE: _____ will provide RES a variety of expedited turnaround times, depending on the number of samples, sample matrix, and requested analysis. Yes___ No___ Turnaround Time_____

8. Once awarded a specific contract, _____ shall keep and maintain errors and omissions liability or professional liability insurance policy of $1,000,000 each claim (or loss) with annual aggregate of $1,000,000 (increase to $2,000,000 pending cost to project) for a period of not less than two (2) years after date of final completion of work.

9. If the data generated by _____ is found in error due to the sole error of _____ _____ (i.e.: missed holding time, lost sample, switched sample, instrument malfunction, calculation

file name: info.xls
Rev. 3
May 9, 1996

WORKORDER CHECKLIST

Quotation Number _____

Package Level

Send QC Check Questionnaire ☐

☐ LEVEL III - "REGULAR" REPORT

- ☐ Bench Sheets/Summaries
- ☐ Raw Data - ___ Organics, ___ Inorganics

☒ LEVEL II - "REGULAR" REPORT + QC

- ☐ Duplicate analysis required + reported
  On Fraction # _____
- ☐ MS/MSD
  - ☐ Batch QC or QC specifically on Fraction # _____
- ☒ LCSs reported
  - ☐ CLP Form 3 or equivalent (Organics)
  - ☐ Target Form 1 (Default for Organics)
  - ☐ LIMS Form 1 (Organics)
  - ☒ LIMS QC Summary (Metals)
- ☒ Blanks reported
  - ☐ Target Form 1 (Default for Organics)
  - ☐ LIMS Form 1 (Organics)
  - ☒ LIMS QC Summary (Metals)
- ☐ Report estimated values (hits below EQL) - ___ Organics (Bs, Js), ___ Inorganics
- ☐ Sample data for organics reported from - ___ Target (Form 1), ___ LIMS (Form 1)
- ☐ Raw Data - ___ Organics, ___ Inorganics
- ☐ Report solids on a dry-weight basis

☐ LEVEL I - CLP "STYLE" PACKAGE

- ☐ Raw data
- ☐ WARD package (Metals)
- ☐ CLP forms (Organics)
- ☐ Organics - Data reported from - ___ Target (Form 1), ___ LIMS (Form 1)

☐ ALL CLP

☐ Other client information including special targets and additional reporting requirements.

Include MDL's, holding times, raw data

ANALYST SECTION:

Was there a Nonconformance Memo generated for this analysis or preparation? ___ Yes, ___ No, _____ Test Code

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER SLS

	B1	B2	97-05-144-01A	2	3	4	5
LAB NUMBER	BBLK 0071		97-05-144-01A	97-05-144-02A	97-05-144-03A	97-05-144-04A	97-05-144-05A
CLIENT			Smith. Tech	→	→	→	→
MATRIX			concrete/crushed	→	→	→	→
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *			100%	→	→	→	→
WEIGHT LEACHED			100.0 g	→	→	→	→
VOL EXTR FLUID	2000 ml		2000 ml	→	→	→	→
FLUID TYPE (1 or 2)	1		1	→	→	→	→
FLUID pH	4.89		4.89	→	→	→	→
EXT NO. | RPM	A | 30	|	A | 30	A | 30	A | 30	A | 30	A | 30
pH OF LEACHATE	5		7	12	11	11	11
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START|STOP: DATE	5/22/97 | 5/23/97	|	5/22/97 | 5/23/97	→ |	→ |	→ |	→ |
TIME	4:00p | 8:00a	|	4:00p | 8:00a	→ |	→ |	→ |	→ |
TEMP	21.5° | 21.5°	|	21.5° | 21.5	→ |	→ |	→ |	→ |
ANALYST	SJ | SJ	|	SJ | SJ	→ |	→ |	→ |	→ |

* from Preliminary Determinations page

P:BOT_EXT.WK3

Ross Analytical Services, Inc.

TCLP Bottle Logbook # 3, page 000125 B

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER

	B1	B2	97-05-144	2	3	4	5
LAB NUMBER	0BLK0071		97-05-144-06A	97-05-144-07A	97-05-144-08A		
CLIENT			Smith Tech	→	→		
MATRIX			Concrete/crushed	→	→		
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *			100%	→	→		
WEIGHT LEACHED			100.0g	→	→		
VOL EXTR FLUID	2000ml		2000ml	→	→		
FLUID TYPE (1 or 2)	1		1	→	→		
FLUID pH	4.89		4.89	→	→		
EXT NO. | RPM	A | 30	|	B | 30	B | 30	B | 30	|	|
pH OF LEACHATE	5		11	11	11		
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START|STOP: DATE	5/22/97 | 5/23/97	|	5/22/97 | 5/23/97	→ |	→ |	|	|
TIME	4:00p | 8:00a	|	4:00p | 8:00a	→ |	→ |	|	|
TEMP	21.5° | 21.5	|	21.5° | 21.5	→ |	→ |	|	|
ANALYST	SJ | SJ	|	SJ | SJ	→ |	→ |	|	|

* from Preliminary Determinations page

P:BOT_EXT.WK3

Ross Analytical Services, Inc.

TCLP Bottle Logbook # 3, page 000126 B

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

W.O.#: 97-05-144

Units: mg/l

Method: 6010A

Date Analyzed: 05/23/97

Analyst: E.H

3010 Element	05/23/97 Raw Number	PBW 4679 PREP BLK 1 Value	Raw Number	PREP BLK 2 Value	Raw Number	EXTR BLK 1 Value	Default EQL
Al	-0.0037	<EQL					0.1
Sb	-0.0086	<EQL					0.1
As	0.0264	<EQL					0.1
Ba	0.0001	<EQL					0.004
Be	0.0001	<EQL					0.002
B	0.007	<EQL					0.05
Cd	0.0003	<EQL					0.005
Ca	-0.0153	<EQL					0.2
Cr	0.0069	<EQL					0.01
Co	0.0026	<EQL					0.01
Cu	0.009	<EQL					0.02
Fe	0.0095	<EQL					0.1
Pb	0.0159	<EQL					0.05
Li	0.0004	<EQL					0.02
Mg	-0.0035	<EQL					0.1
Mn	0.0006	<EQL					0.005
Mo	0.008	<EQL					0.01
Ni	0.0002	<EQL					0.02
K	0.0083	<EQL					0.2
Se	0.0064	<EQL					0.1
Si	0.0035	<EQL					0.5
Ag	0.0027	<EQL					0.01
Na	-0.0393	<EQL					0.5
Sr	0.0004	<EQL					0.02
Tl	0.058	<EQL					0.2
Sn	0.002	<EQL					0.1
Ti	0.0042	<EQL					0.05
V	0.0006	<EQL					0.01
Zn	0.0028	<EQL					0.02
Zr	0.0012	<EQL					0.03

Problems/Comments to be Addressed on Report: _____

Elements above the PQL: _____

Reviewed and Approved By: EH Date: 5/23/97

GM 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

Method: 6010A

W.O.#: 97-05-144

Date Analyzed: 05/23/97

Units: mg/l

Analyst: E.H

3010 Element	05/23/97 Raw Number	BBLK 0071 PREP BLK 1 Value	Raw Number	PREP BLK 2 Value	Raw Number	EXTR BLK 1 Value	Default EQL
Al	0.0036	<EQL					0.5
Sb	-0.0121	<EQL					0.5
As	0.012	<EQL					0.5
Ba	0.0687	0.344					0.02
Be	0	<EQL					
B	0.0063	<EQL					0.25
Cd	-0.0004	<EQL					0.025
Ca	0.0111	<EQL					1
Cr	0.0049	<EQL					0.05
Co	ND	<EQL					0.05
Cu	0.0094	<EQL					0.1
Fe	0.2668	1.33					0.5
Pb	0.0182	<EQL					0.25
Li	0.001	<EQL					0.1
Mg	0.0135	<EQL					0.5
Mn	0.0017	<EQL					0.025
Mo	0.0034	<EQL					0.05
Ni	0.0015	<EQL					0.1
K	0.1723	<EQL					1
Se	0.004	<EQL					0.5
Si	0.0336	<EQL					2.5
Ag	0.0013	<EQL					0.05
Na	265	1330					2.5
Sr	0.0026	<EQL					0.1
Tl	0.0486	<EQL					1
Sn	-0.0091	<EQL					0.5
Ti	-0.0022	<EQL					0.25
V	0.0015	<EQL					0.05
Zn	0.0127	<EQL					0.1
Zr	0.0034	<EQL					0.15

Problems/Comments to be Addressed on Report: _____

Elements above the PQL: _____

Reviewed and Approved By: EH Date: 5/23/97

GM 5/27/97

ICP LCSA Analysis

ROSS Analytical Servcies Inc.,
16433 Foltz Industrial Parkway
Strongsville, OH 44136

Analyst: E.H
W.O. #'s:97-05-144
Client: SMITH TECH

Run Date: 05/23/97
PrepDate: 05/23/97

Matrix: (x one)
1. Water/wastewater
X 2. TCLP/EP extract
3. Soil/sludge
4. Waste
5. Air

Analysis type: (x one)
X ICP (TJA3
2. GFAA
3. FLAA
4. Vapor

Prep: 3010

LCS ANALYSIS RESULTS

Element	LCSW 4798 AQUEOUS VALUE True (ug/mL)	Obtained (ug/mL)	% Rec.	SOLID VALUE True (ug/g)	Obtained (ug/g)	% Rec.
Al	25	25.0637	100.3	4280	0.00	0.0
Sb	1	1.0071	100.7	77.8	0.00	0.0
As	1	1.0239	102.4	95.3	0.00	0.0
Ba	1	1.0010	100.1	97.7	0.00	0.0
Be	1	1.0153	101.5	96.5	0.00	0.0
B	1	0.9713	97.1	0	0.00	ERR
Cd	1	1.0083	100.8	106	0.00	0.0
Ca	25	25.8283	103.3	4490	0.00	0.0
Cr	1	1.0213	102.1	82.3	0.00	0.0
Co	1	1.0142	101.4	91.9	0.00	0.0
Cu	1	0.9995	99.9	94.9	0.00	0.0
Fe	20	20.9652	104.8	6490	0.00	0.0
Pb	1	1.0263	102.6	91.7	0.00	0.0
Li	1	1.0092	100.9	97.3	0.00	0.0
Mg	20	20.2742	101.4	1810	0.00	0.0
Mn	1	1.0105	101.1	138	0.00	0.0
Mo	1	1.0280	102.8	93.1	0.00	0.0
Ni	1	1.0100	101.0	99.5	0.00	0.0
K	20	20.1590	100.8	1680	0.00	0.0
Se	1	1.0342	103.4	99.3	0.00	0.0
Si	1	0.8172	81.7	143	0.00	0.0
Ag	1	1.0244	102.4	90.6	0.00	0.0
Na	25	24.7002	98.8	4080	0.00	0.0
Sr	1	1.0083	100.8	112	0.00	0.0
Tl	1	0.9813	98.1	90.6	0.00	0.0
Sn	1	1.0137	101.4	88.7	0.00	0.0
Ti	1	1.0208	102.1	182	0.00	0.0
V	1	1.0123	101.2	84.8	0.00	0.0
Zn	1	1.0187	101.9	98.6	0.00	0.0
Zr	1	1.0264	102.6	83.4	0.00	0.0

Checker: EH Date: 5/23/97
Gm 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

Method: 6010A

W.O.#: 97-05-144-01A

Date Analyzed: 05/23/97

Units: mg/l

Analyst: E.H

Dil. Factor		1	1		1		
Element	Raw Number	Blks Corr.	Adj. Value	EQL	Adj. Value	EQL	Default EQL
Al	0.0495	<EQL					0.500
Sb	0.009	<EQL					0.500
As	0.0059	<EQL					0.500
Ba	0.0522	0.261					0.020
Be	0.0023	0.012					0.010
B	0.037	<EQL					0.050
Cd	-0.0002	<EQL					0.025
Ca	142	711					1.000
Cr	5.69	28.5					0.050
Co	0.0002	<EQL					0.050
Cu	0.0091	<EQL					0.100
Fe	1.33	6.66					0.500
Pb	0.0123	<EQL					0.250
Li	0.0029	<EQL					0.100
Mg	0.0701	<EQL					0.500
Mn	0.004	<EQL					0.025
Mo	0.0077	<EQL					0.050
Ni	0.0035	<EQL					0.100
K	2.44	12.2					1.000
Se	-0.0054	<EQL					0.500
Si	2.24	11.2					2.500
Ag	0.0011	<EQL					0.050
Na	279	1390					2.500
Sr	0.2527	1.26					0.100
Tl	-0.0028	<EQL					1.000
Sn	-0.0077	<EQL					0.500
Ti	-0.0165	<EQL					0.250
V	-0.0026	<EQL					0.050
Zn	0.0048	<EQL					0.100
Zr	0.2918	1.46					0.150

Problems/Comments to be Addressed on Report: _____

Use Dil. Factor 1 ✓ 10 ____ 50 ____

Reviewed and Approved By: EG Date: 5/23/97

GM 5/27/97

ICP MS/MSD Percent Recovery Rev 12/87

ROSS Analytical Services Inc.,
16433 Foltz Industrial Parkway
Strongsville, OH 44136

Analyst: E.H Date: 05/23/97
Sample: 97-05-144-01A
Client: SMITH TECH

Matrix: (x one)			
		1. Water/Wastewater	X1. ICP
	X	2. TCLP/EP extract	2. GFAA
		3. Soil/sludge	3. FLAA
		4. Waste	4. Vapor
		5. Air	5. Hydr.

Matrix spike/matrix spike duplicate results

Element	Theor. spike value (ug/ml)	Sample value (ug/ml)	Sample + spike (ug/ml)	% Rec.	Sample + spike dupe (ug/ml)	% Rec.	Rel % diff. (RPD)
Al	0		ND	ERR		ERR	ERR
Sb	0	ND	ND	ERR		ERR	ERR
As	5	ND	4.9205	98.4		0.0	200.0
Ba	25	0.0522	25.2795	100.9		-0.2	200.0
Be	0	0.0023	0.0043	ERR		ERR	200.0
B	0	ND	ND	ERR		ERR	ERR
Cd	1	ND	0.9574	95.7		0.0	200.0
Ca	0	142.2070	143.2859	ERR		ERR	200.0
Cr	5	5.6914	10.5793	97.8		-113.8	200.0
Co	0	ND	ND	ERR		ERR	ERR
Cu	0		ND	ERR		ERR	ERR
Fe	0	1.3320	0.2018	ERR		ERR	200.0
Pb	5	ND	4.8251	96.5		0.0	200.0
Li	0	ND	ND	ERR		ERR	ERR
Mg	0	ND	ND	ERR		ERR	ERR
Mn	0	ND	ND	ERR		ERR	ERR
Mo	0	ND	ND	ERR		ERR	ERR
Ni	0	ND	ND	ERR		ERR	ERR
K	0	2.4389	2.4111	ERR		ERR	200.0
Se	1	ND	1.0266	102.7		0.0	200.0
Si	0	2.2396	2.2645	ERR		ERR	200.0
Ag	5	ND	3.7943	75.9		0.0	200.0
Na	0	278.9997	281.3159	ERR		ERR	200.0
Sr	0	0.2527	0.2552	ERR		ERR	200.0
Tl	0	ND	ND	ERR		ERR	ERR
Sn	0	ND	ND	ERR		ERR	ERR
Ti	0	ND	ND	ERR		ERR	ERR
V	0	ND	ND	ERR		ERR	ERR
Zn	0	ND	ND	ERR		ERR	ERR
Zr	0	0.2918	0.5290	ERR		ERR	200.0

Checker/Date: EH 5/23/97

CGM 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

W.O.#: 97-05-144-02A

Units: mg/l

Method: 6010A

Date Analyzed: 05/23/97

Analyst: E.H

Element	Dil. Factor Raw Number	1 Blks Corr.	1 Adj. Value	EQL	1 Adj. Value	EQL	Default EQL
Al	0.0415	<EQL					0.500
Sb	-0.0106	<EQL					0.500
As	0.0257	<EQL					0.500
Ba	0.1345	0.673					0.020
Be	0.0004	<EQL					0.010
B	0.016	<EQL					0.050
Cd	-0.0003	<EQL					0.025
Ca	153	766					1.000
Cr	0.5281	2.64					0.050
Co	0.001	<EQL					0.050
Cu	0.0044	<EQL					0.100
Fe	0.168	0.84					0.500
Pb	0.0203	<EQL					0.250
Li	0.0018	<EQL					0.100
Mg	0.0927	<EQL					0.500
Mn	0.0011	<EQL					0.025
Mo	0.0042	<EQL					0.050
Ni	0.002	<EQL					0.100
K	3.88	19.4					1.000
Se	0.0115	<EQL					0.500
Si	2.81	14.1					2.500
Ag	-0.0001	<EQL					0.050
Na	271	1360					2.500
Sr	0.2059	1.03					0.100
Tl	0.021	<EQL					1.000
Sn	-0.0101	<EQL					0.500
Ti	0.0041	<EQL					0.250
V	0.0003	<EQL					0.050
Zn	0.0047	<EQL					0.100
Zr	0.0302	0.151					0.150

Problems/Comments to be Addressed on Report: _____

Use Dil. Factor 1 ✓ 10 ____ 50 ____

Reviewed and Approved By: EG Date: 5/23/97

GM 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

Method: 6010A

W.O.#: 97-05-144-03A

Date Analyzed: 05/23/97

Units: mg/l

Analyst: E.H

Dil. Factor		1	1		1		
Element	Raw Number	Blks Corr.	Adj. Value	EQL	Adj. Value	EQL	Default EQL
Al	0.0393	<EQL					0.500
Sb	-0.0049	<EQL					0.500
As	0.0102	<EQL					0.500
Ba	0.1254	0.627					0.020
Be	0.0001	<EQL					0.010
B	0.0204	<EQL					0.050
Cd	-0.0004	<EQL					0.025
Ca	149	746					1.000
Cr	0.0878	0.439					0.050
Co	0.0025	<EQL					0.050
Cu	0.0053	<EQL					0.100
Fe	0.5826	2.91					0.500
Pb	0.0099	<EQL					0.250
Li	0.0016	<EQL					0.100
Mg	0.0739	<EQL					0.500
Mn	0.0021	<EQL					0.025
Mo	0.0034	<EQL					0.050
Ni	0.0019	<EQL					0.100
K	2.67	13.4					1.000
Se	0.007	<EQL					0.500
Si	3.2	16					2.500
Ag	0.0009	<EQL					0.050
Na	274	1370					2.500
Sr	0.1124	0.562					0.100
Tl	0.0595	<EQL					1.000
Sn	-0.002	<EQL					0.500
Ti	-0.0044	<EQL					0.250
V	0.0019	<EQL					0.050
Zn	0.0023	<EQL					0.100
Zr	0.0102	<EQL					0.150

Problems/Comments to be Addressed on Report: _____

Use Dil. Factor 1 ✓ 10 ____ 50 ____

Reviewed and Approved By: EH Date: 5/23/97

GM 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

W.O.#: 97-05-144-04A

Units: mg/l

Method: 6010A

Date Analyzed: 05/23/97

Analyst: E.H

Dil. Factor

Element	Raw Number	Blks Corr.	1 Adj. Value	EQL	1 Adj. Value	EQL	Default EQL
Al	0.0159	<EQL					0.500
Sb	-0.0085	<EQL					0.500
As	0.0128	<EQL					0.500
Ba	0.1482	<EQL					0.020
Be	0	0.741					
B	0.0227	<EQL					0.050
Cd	-0.0003	<EQL					0.025
Ca	144	<EQL					1.000
Cr	0.0776	718					0.050
Co	-0.0013	0.388					0.050
Cu	0.0021	<EQL					0.100
Fe	0.7113	<EQL					0.500
Pb	0.0025	3.56					0.250
Li	0.0021	<EQL					0.100
Mg	0.1438	<EQL					0.500
Mn	0.0027	0.719					0.025
Mo	0.0025	<EQL					0.050
Ni	0.0024	<EQL					0.100
K	2.74	<EQL					1.000
Se	0.0013	13.7					0.500
Si	4.27	<EQL					2.500
Ag	-0.0003	21.4					0.050
Na	275	<EQL					2.500
Sr	0.1095	1370					0.100
Tl	-0.0116	0.547					1.000
Sn	-0.0034	<EQL					0.500
	-0.0065	<EQL					0.250
	0.0026	<EQL					0.050
	0.0044	<EQL					0.100
	0.0047	<EQL					0.150

Problems/Comments to be Addressed on Report: _____

Reviewed and Approved By: EH _____ Use Dil. Factor 1 ✓ 10 ____ 50 ____

Date: 5/23/97 _____

GM 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

Method: 6010A

W.O.#: 97-05-144-05A

Date Analyzed: 05/23/97

Units: mg/l

Analyst: E.H

Element	Raw Number	Blks Corr.	Adj. Value	EQL	Adj. Value	EQL	Default EQL
Dil. Factor		1	1		1		
Al	0.1107	0.553					0.500
Sb	-0.0097	<EQL					0.500
As	0.0182	<EQL					0.500
Ba	0.1681	0.841					0.020
Be	-0.0001	<EQL					0.010
B	0.0187	<EQL					0.050
Cd	-0.0003	<EQL					0.025
Ca	154	771					1.000
Cr	0.0299	0.149					0.050
Co	0	<EQL					
Cu	0.0046	<EQL					0.100
Fe	3.45	17.3					0.500
Pb	0.0158	<EQL					0.250
Li	0.0006	<EQL					0.100
Mg	0.0412	<EQL					0.500
Mn	0.0112	0.056					0.025
Mo	0.0076	<EQL					0.050
Ni	0.0006	<EQL					0.100
K	3.8	19					1.000
Se	0.0038	<EQL					0.500
Si	1.67	8.37					2.500
Ag	-0.0003	<EQL					0.050
Na	269	1350					2.500
Sr	0.1226	0.613					0.100
Tl	0.0816	<EQL					1.000
Sn	-0.0084	<EQL					0.500
Ti	-0.0003	<EQL					0.250
V	0.0006	<EQL					0.050
Zn	0.0031	<EQL					0.100
Zr	0.0066	<EQL					0.150

Problems/Comments to be Addressed on Report:

Use Dil. Factor 1✓ 10 50

Reviewed and Approved By: EB Date: 5/23/97

5/27/97

CM

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

W.O.#: 97-05-144-06A

Units: mg/l

Method: 6010A

Date Analyzed: 05/23/97

Analyst: E.H

Dil. Factor

Element	Raw Number	1 Blks Corr.	1 Adj. Value	EQL	1 Adj. Value	EQL	Default EQL
Al	0.1273	0.637					0.500
Sb	0.0022	<EQL					0.500
As	0.0234	<EQL					0.500
Ba	0.1234	0.617					0.020
Be	0.0002	<EQL					0.010
B	0.0138	<EQL					0.050
Cd	0	<EQL					
Ca	156	781					1.000
Cr	0.1702	0.851					0.050
Co	-0.0027	<EQL					0.050
Cu	0.0041	<EQL					0.100
Fe	1.64	8.19					0.500
Pb	0.0147	<EQL					0.250
Li	0.0022	<EQL					0.100
Mg	0.0513	<EQL					0.500
Mn	0.0049	<EQL					0.025
Mo	0.0038	<EQL					0.050
Ni	0.0011	<EQL					0.100
K	3.57	17.8					1.000
Se	0.007	<EQL					0.500
Si	1.94	9.7					2.500
Ag	0.0005	<EQL					0.050
Na	269	1340					2.500
Sr	0.1152	0.576					0.100
Tl	0.0496	<EQL					1.000
Sn	-0.0027	<EQL					0.500
Ti	-0.0087	<EQL					0.250
V	0.0032	<EQL					0.050
Zn	0.0112	<EQL					0.100
Zr	0.0139	<EQL					0.150

Problems/Comments to be Addressed on Report: _____

Use Dil. Factor 1 ✓ 10 ____ 50 ____

Reviewed and Approved By: EB Date: 5/23/97

CM 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Client: SMITH TECH

Method: 6010A

W.O.#: 97-05-144-07A

Date Analyzed: 05/23/97

Units: mg/l

Analyst: E.H

Dil. Factor		1	1		1		
Element	Raw Number	Blks Corr.	Adj. Value	EQL	Adj. Value	EQL	Default EQL
Al	0.0422	<EQL					0.500
Sb	-0.0156	<EQL					0.500
As	0.0176	<EQL					0.500
Ba	0.1347	0.674					0.020
Be	0.0001	<EQL					0.010
B	0.0136	<EQL					0.050
Cd	0	<EQL					
Ca	150	749					1.000
Cr	0.0307	0.153					0.050
Co	0	<EQL					
Cu	0.003	<EQL					0.100
Fe	0.4379	2.19					0.500
Pb	0.0267	<EQL					0.250
Li	0.0013	<EQL					0.100
Mg	0.0538	<EQL					0.500
Mn	0.0025	<EQL					0.025
Mo	0.0034	<EQL					0.050
Ni	0.0006	<EQL					0.100
K	3.28	16.4					1.000
Se	0.0094	<EQL					0.500
Si	2.52	12.6					2.500
Ag	0.0005	<EQL					0.050
Na	264	1320					2.500
Sr	0.1122	0.561					0.100
Tl	0.0353	<EQL					1.000
Sn	-0.002	<EQL					0.500
Ti	-0.0043	<EQL					0.250
V	-0.0001	<EQL					0.050
Zn	0.0027	<EQL					0.100
Zr	0.001	<EQL					0.150

Problems/Comments to be Addressed on Report: _____

Use Dil. Factor 1 ✓ 10 ____ 50 ____

Reviewed and Approved By: EH Date: 5/23/97

GM 5/27/97

ICP DATA SUMMARY SHEET
ROSS Analytical Services

Raw Data with: MA2397A

Method: 6010A

Client: SMITH TECH

Date Analyzed: 05/23/97

W.O.#: 97-05-144-08A

Analyst: E.H

Units: mg/l

Element	Raw Number	1 Blks Corr.	1 Adj. Value	EQL	1 Adj. Value	EQL	Default EQL
Al	0.0488	<EQL					0.500
Sb	-0.0108	<EQL					0.500
As	0.012	<EQL					0.500
Ba	0.142	0.71					0.020
Be	-0.0001	<EQL					0.010
B	0.0406	<EQL					0.050
Cd	-0.0009	<EQL					0.025
Ca	152	760					1.000
Cr	0.1084	0.542					0.050
Co	0.0012	<EQL					0.050
Cu	0.0018	<EQL					0.100
Fe	0.0549	<EQL					0.500
Pb	0.0099	<EQL					0.250
Li	0.0019	<EQL					0.100
Mg	0.0567	<EQL					0.500
Mn	0.0011	<EQL					0.025
Mo	0.0042	<EQL					0.050
Ni	-0.0008	<EQL					0.100
K	3.56	17.8					1.000
Se	0.0126	<EQL					0.500
Si	2.94	14.7					2.500
Ag	-0.0008	<EQL					0.050
Na	271	1350					2.500
Sr	0.1226	0.613					0.100
Tl	0.0124	<EQL					1.000
Sn	-0.0057	<EQL					0.500
Ti	-0.0043	<EQL					0.250
V	-0.0003	<EQL					0.050
Zn	0.0017	<EQL					0.100
Zr	0.0027	<EQL					0.150

Dil. Factor

Problems/Comments to be Addressed on Report: _____

Use Dil. Factor 1 ✓ 10 ____ 50 ____

Reviewed and Approved By: EH Date: 5/23/97

5/27/97

GM

DATA REVIEW CHECKLIST - Metals Digestions

Filename: CR:DIGCHEK.xls

Rev. 8/96

Analysis code: 3010

Client code	Work Order	Analyst Check Y/N	Reviewer Check Y/N	QA Dept. CheckY/N
DONS PORT SMITH-TECH BURGESS-NPL	157 144 149			
Method blanks				
At least one blank per 20 samples		✓	✓	
Laboratory Control Samples				
At least one LCS per 20 samples		✓	✓	
LCS has all targets		✓	✓	
Sample data				
Data for all samples are present		✓	✓	
Client and lab sample IDs are correct		✓	✓	
Sample weight/volume and final volume are correct		✓	✓	
MS/MSD				
Data for all applicable MS/MSD's are present		✓	✓	
Sample weight/volume and final volume are correct		✓	✓	
Miscellaneous				
Reagent lot numbers recorded		✓	✓	
Spike solution numbers and volumes recorded		✓	✓	
All hand calculations verified		N/A	N/A	
Work order present				
Narrative present if needed				
Nonconformances present if needed				
Additional comments on back of page?			✓	
Signoff				
Analyst/reviewer initials		[illegible]	[illegible]	
Date		5/23/97	5/23/97	

✓ [illegible] 5/27/97

DATA REVIEW CHECKLIST – ICP Metals

Analysis code: ICP 7SA3C

Client code: Smith Tech	Work Order: 97-05-144	Analyst Check Y/N	Reviewer Check Y/N	QC Dept. Check Y/N
Initial calibration				
	Raw data present	✓	✓	
	High level check standard is within limits	✓	✓	
	ICV is within limits	✓	✓	
	ICB is within limits	✓	✓	
	Low level check standard is within limits	✓	✓	
	ICSA/AB are within limits	✓	✓	
Calibration verification				
	CCV's are after initial cal, every 10 samples, and at end	✓	✓	
	CCB's are after initial cal, every 10 samples, and at end	✓	✓	
	CCV's and CCB's are within limits	✓	✓	
	ICSA/AB are every 8 hours and at end	✓	✓	
	ICSA/AB are within limits	✓	✓	
Method blanks				
	Data for all applicable blanks are present	✓	✓	
	All targets are <EQL or <5% of sample concentrations	✓	✓	
Laboratory Control Samples				
	Data for all applicable LCS's are present	✓	✓	
	Recoveries are within limits	✓	✓	
Sample data				
	Data for all samples are present	✓	✓	
	Client and lab sample IDs are correct	✓	✓	
	Sample weight/volume, digest volume, dilution factor, % moisture are correct	✓	✓	
	No element saturates, or sample is diluted	✓	✓	
	No carryover evident	✓	✓	
MS/MSD				
	Data for all applicable MS/MSD's are present	✓	✓	
	Sample weight/volume, digest volume, dilution factor, % moisture are correct	✓	✓	
	No element saturates, or sample is diluted	✓	✓	
	% Recoveries are within limits or post–spike is done	✓	✓	
Miscellaneous				
	ICP–>Ward or ICP–>Lotus transfer OK	✓	✓	
	All hand calculations verified	✓	✓	
	Sequence summary present	✓	✓	
	Work order present	✓	✓	
	Narrative present if needed	✓	✓	
	Digestion summaries present	✓	✓	
	Nonconformances present if needed	✓	✓	
	Additional comments on back of page?	✓	✓	

CM 5/27/97

CM 5/27/97

** TX CONFIRMATION REPORT ** AS OF MAY 27 '97 11:52 PAGE.01

ROSS ANALYTICAL

	DATE	TIME	TO/FROM	MODE	MIN/SEC	PGS	CMD#	STATUS
17	05/27	11:44	513 771 9315	G3--S	08'14"	012	126	OK

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Client:

Ecology & Environment
260 Northland Blvd.
Suite 125B
Cincinnati, Ohio 45246
Attn: Tom Campbell/Fax 513-771-9315

Work Order #: 97-05-144
Client Code: SMITH_TECH
Report Date: 05/27/97
Work ID: Concrete cores for TCLP Chrom
Date Received: 05/20/97

Purchase Order: 8391

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Concrete core PV2-4	02	Concrete core PV2-5
03	Concrete core PV2-6	04	Concrete core PV2-7
05	Concrete core PV2-8	06	Concrete core PV2-9
07	Concrete core PV2-10	08	Concrete core PV2-11

Enclosed are the analytical results for the samples listed above. Analyses were performed by the methods referenced in the Test Methodologies section, while any special circumstances are described in the Report Comments section. Unless otherwise noted, sample results are not moisture-corrected. Most analytes are reported relative to an Estimated Quantitation Limit (EQL), which is the lowest concentration that can be reliably measured under routine laboratory conditions. Questions or comments concerning the enclosed results should be directed to your Client Services Representative.

Certificate approved by
Carol L. Turner

Post-It® Fax Note 7671	Date 5/27/97 # of pages ▶ 12
To Tom Campbell	From
Co./Dept. Ecology + Env.	Co. Ross
Phone #	Phone #
Fax # 513-771-9315	Fax #

Ross Analytical Services, Inc.
16433 Foltz Industrial Parkway • Strongsville, Ohio 44136
(216) 572-3200 • Fax (216) 572-7620 • 1-800-325-7737

CERTIFICATE OF ANALYSIS

Post-it® Fax Note 7671	Date 5/28/97 # of pages ▶ 13
To Jay Hoover	From
Co./Dept. Smith Tech	Co. Ross
Phone #	Phone #
Fax # 937-223-6762	Fax #

Work Order #: 97-05-144
Client Code: SMITH_TECH
Report Date: 05/27/97
Work ID: Concrete cores for TCLP Chrom
Date Received: 05/20/97

Purchase Order: 8391

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Concrete core PV2-4	02	Concrete core PV2-5
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05	Concrete core PV2-8	06	Concrete core PV2-9
07	Concrete core PV2-10	08	Concrete core PV2-11

Enclosed are the analytical results for the samples listed above. Analyses were performed by the methods referenced in the Test Methodologies section, while any special circumstances are described in the Report Comments section. Unless otherwise noted, sample results are not moisture-corrected. Most analytes are reported relative to an Estimated Quantitation Limit (EQL), which is the lowest concentration that can be reliably measured under routine laboratory conditions. Questions or comments concerning the enclosed results should be directed to your Client Services Representative.

Certificate approved by
Carol L. Turner

Work Order # 97-05-144 **Ross Analytical Services, Inc** **Reported: 05/27/97**

INORGANIC QC SUMMARY

Laboratory Control Sample

Target	LCS4798 % Recovery
Chromium	102

Matrix Spike
Performed on the TCLP leachate of Concrete Core PV2-4 (Lab No. 01)

Target	MS % Recovery
Chromium	98

TEST METHODOLOGIES

The bottle leaching step of TCLP (for metals and semivolatile organics) was performed by EPA Method 1311. Matrix spikes, if any, were added at the time of digestion or extraction for further analyses.

Metals were determined in aqueous samples and leachates by digestion with nitric and hydrochloric acids as in EPA Method 3010A, followed by Inductively Coupled Plasma Emission Spectroscopy as in EPA Method 6010A unless noted otherwise.

Work Order # 97-05-144 **Ross Analytical Services, Inc** **Reported: 05/27/97**

Sample Description Concrete core PV2-4 Lab No. 01
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	28.5		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-5 Lab No. 02
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	2.64		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-6 Lab No. 03
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.439		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note : Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV3-7 Lab No. 04
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.388		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note : Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

000009

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-8 Lab No. 05
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/22/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.149		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-9 Lab No. 06
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.851		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core FV2-10 Lab No. 07
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.153		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-05-144 Ross Analytical Services, Inc Reported: 05/27/97

Sample Description Concrete core PV2-11 Lab No. 08
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 05/22/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 05/23/97 OTHER METALS ANALYZED 05/23/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	NA		0.025
7440-47-3	Chromium	0.542		0.050
7439-92-1	Lead	NA		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

ROSS Ross Analytical Services, Inc.
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CERTIFICATE OF ANALYSIS

Client:

Ecology & Environment
6777 Engle Road
Suite N
Middleburg Hts, Ohio 44130
Attn: Jeff Kimble/Fax 216-243-6923

Work Order #: 97-04-102
Client Code: SMITH_TECH
Report Date: 04/21/97
Work ID: Soils for TCLP-Pb,Cd,& Cr
Date Received: 04/11/97

SAMPLE IDENTIFICATION

Lab Number	Sample Description	Lab Number	Sample Description
01	Soil DE1AIA	02	Soil DE1BIA
03	Soil DE2AIA	04	Soil DE2BIA
05	Soil DE3AIA	06	Soil DE3BIA
07	Soil DE4AIA	08	Soil DE4BIA
09	Soil DE5AIA	10	Soil DE5BIA
11	Soil DE6AIA	12	Soil DE6BIA
13	Soil DE7AIA	14	Soil DE7B1A
15	Soil DEGP1A	16	Soil DEGP1B
17	Soil DEGP2A	18	Soil DEGP2B
19	Soil DEGP3A	20	Soil DEGP3B
21	Soil DEGP4A	22	Soil DEGP4B

Enclosed are the analytical results for the samples listed above. Analyses were performed by the methods referenced in the Test Methodologies section, while any special circumstances are described in the Report Comments section. Unless otherwise noted, sample results are not moisture-corrected. Most analytes are reported relative to an Estimated Quantitation Limit (EQL), which is the lowest concentration that can be reliably measured under routine laboratory conditions. Questions or comments concerning the enclosed results should be directed to your Client Services Representative.

Certificate approved by
Carol L. Turner

REPORT COMMENTS

The holding time for all ICP metals analyses is 180 days from collection.

INORGANIC QC SUMMARY

Laboratory Control Sample

Target	LCS4616 % Recovery	LCS4625 % Recovery
Cadmium	94	93
Chromium	96	96
Lead	96	94

LCS4616 was analyzed along with Lab Nos. 01 through 18.
LCS4625 was analyzed along with Lab Nos. 19 through 22.

Matrix Spike/Matrix Spike Duplicate Pair
Performed on the TCLP leachate of Soil DE1AIA (Lab No. 01)

Target	MS % Recovery	MSD % Recovery	RPD
Cadmium	88	89	1
Chromium	90	91	1
Lead	90	91	1

Matrix Spike/Matrix Spike Duplicate Pair
Performed on the TCLP leachate of Soil DEGP3A (Lab No. 19)

Target	MS % Recovery	MSD % Recovery	RPD
Cadmium	88	88	0
Chromium	93	91	2
Lead	91	90	1

TEST METHODOLOGIES

The bottle leaching step of TCLP (for metals and semivolatile organics) was performed by EPA Method 1311. Matrix spikes, if any, were added at the time of digestion or extraction for further analyses.

Metals were determined in aqueous samples and leachates by digestion with nitric and hydrochloric acids as in EPA Method 3010A, followed by Inductively Coupled Plasma Emission Spectroscopy as in EPA Method 6010A unless noted otherwise.

Sample Description Soil DE1AIA Lab No. 01
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	0.257	88	0.025
7440-47-3	Chromium	0.245	90	0.050
7439-92-1	Lead	<EQL	90	0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE1BIA Lab No. 02

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	0.557		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE2AIA Lab No. 03

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	0.375		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

000015

Sample Description Soil DE2BIA Lab No. 04

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	0.429		0.025
7440-47-3	Chromium	0.103		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE3AIA Lab No. 05

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE3BIA Lab No. 06

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE4AIA Lab No. 07
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE4BIA Lab No. 08
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	0.114		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	0.355		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE5AIA Lab No. 09
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Sample Description Soil DE5BIA Lab No. 10
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE6AIA Lab No. 11
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE6BIA Lab No. 12
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE7AIA Lab No. 13

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DE7B1A Lab No. 14

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DEGP1A Lab No. 15
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DEGP1B Lab No. 16
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DEGP2A Lab No. 17
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	0.025		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	1.31		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DEGP2B Lab No. 18

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/14/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/15/97 OTHER METALS ANALYZED 04/15/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DEGP3A Lab No. 19

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/15/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/16/97 OTHER METALS ANALYZED 04/16/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL	90	0.025
7440-47-3	Chromium	<EQL	93	0.050
7439-92-1	Lead	<EQL	91	0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Sample Description Soil DEGP3B Lab No. 20
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/15/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/16/97 OTHER METALS ANALYZED 04/16/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	<EQL		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DEGP4A Lab No. 21

Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/15/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR _____

OTHER METALS DIGESTED 04/16/97 OTHER METALS ANALYZED 04/16/97 DILUTION FACTOR 1

UNITS mg/L

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	0.055		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

Work Order # 97-04-102 Ross Analytical Services, Inc Reported: 04/21/97

Sample Description Soil DEGP4B Lab No. 22
Test Description TCLP list metals Test Code TCMETS

TCLP BEGUN 04/15/97

MERCURY DIGESTED _____ MERCURY ANALYZED _____ DILUTION FACTOR 1

OTHER METALS DIGESTED 04/16/97 OTHER METALS ANALYZED 04/16/97 DILUTION FACTOR _____

UNITS mg/l

CAS No.	METAL	RESULT	PERCENT RECOVERY	EQL
7440-38-2	Arsenic	NA		0.50
7440-39-3	Barium	NA		0.020
7440-43-9	Cadmium	0.026		0.025
7440-47-3	Chromium	<EQL		0.050
7439-92-1	Lead	<EQL		0.25
7439-97-6	Mercury	NA		0.0020
7782-49-2	Selenium	NA		0.50
7440-22-4	Silver	NA		0.050

Note - Copper, nickel, and zinc are not required by Federal RCRA regulations but are required by some states.

7440-50-8	Copper	NA		0.10
7440-02-0	Nickel	NA		0.10
7440-66-6	Zinc	NA		0.10

MDL'S & EQL'S

Excel File: icpmdl.xls
Client: INT_MDL
W.O.#: NA

Method: 6010A
Date Completed: 06/05/96

Matrix: Water
TJA Enviro 36

Element	Run Date	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Standard Deviation	MDL 3.143*SD(7)	True Value	EQL (ug/L)	Mean	Average % Rec	% RSD
Aluminum	6/4/96	117.35	118.09	120.8	128.39	135.34	121.53	118.04	6.69149	21.03	100	100	122.7914	122.79	5.45
Antimony	6/4/96	93.53	87.93	96.98	101.5	87.26	88.57	93.32	5.26355	16.54	100	100	92.7271	92.73	5.68
Arsenic	6/4/96	183.37	199.22	200.19	189.08	185.56	201.83	181.21	8.70770	27.37	200	100	191.4943	95.75	4.55
Barium	6/4/96	4.32	4.23	4.14	4.23	4.14	4.05	3.95	0.12375	0.39	4	4	4.1514	103.79	2.98
Beryllium	6/4/96	2.02	1.82	1.91	2.03	2.06	2.04	1.94	0.08753	0.28	2	2	1.9743	98.71	4.43
Boron	6/5/96	31.83	29.57	30.84	29.57	31.93	31.46	28.69	1.28031	4.02	25	50	30.5557	122.22	4.19
Cadmium	6/4/96	4.81	4.62	5.29	4.72	5	4.62	4.72	0.24261	0.76	5	5	4.8257	96.51	5.03
Calcium	6/4/96	216.18	220.8	215.92	233.62	261.32	239.19	220.15	16.57442	52.09	200	200	229.5971	114.80	7.22
Chromium	6/4/96	10.49	10.14	10.83	12.89	13.07	9.27	8.76	1.66097	5.22	10	10	10.7786	107.79	15.41
Cobalt	6/4/96	12.2	12.2	11.26	12.21	13.14	10.31	11.26	0.92077	2.89	10	10	11.7971	117.97	7.81
Copper	6/4/96	24.61	23.38	22.15	22.15	24.2	21.32	21.32	1.33957	4.21	20	20	22.7329	113.66	5.89
Iron	6/4/96	117.08	114.96	111.61	112.51	151.94	112.34	113.92	14.55840	45.76	100	100	119.1943	119.19	12.21
Lead	6/4/96	44.39	50.3	46.9	54.54	65.54	47.7	47.74	7.14669	22.46	50	50	51.0157	102.03	14.01
Lithium	6/5/96	8.79	10.16	9.78	9.78	8.72	9.93	8.49	0.68395	2.15	10	20	9.3786	93.79	7.29
Magnesium	6/4/96	109.37	110.72	108.68	110.1	121.04	99.31	118.92	7.17549	22.55	100	100	111.1629	111.16	6.45
Manganese	6/4/96	4.36	4.86	4.53	5.54	5.54	4.86	4.7	0.46363	1.46	5	5	4.9129	98.26	9.44
Molybdenum	6/4/96	11.58	9.92	10.25	10.91	9.26	9.59	10.91	0.82670	2.60	10	10	10.3457	103.46	7.99
Nickel	6/4/96	21.08	21.25	18.69	20.86	21.22	19.61	19.12	1.08943	3.42	20	20	20.2614	101.31	5.38
Potassium	6/4/96	148.48	177.13	135.46	195.37	182.34	158.9	153.69	21.13021	66.41	200	200	164.4814	82.24	12.85
Selenium	6/4/96	87.72	88.21	104.73	74.6	82.62	86.27	103.52	10.90052	34.26	100	100	89.6671	89.67	12.16
Silicon	6/5/96	264.59	264.54	263.82	273.02	295.41	270.58	257.85	12.24755	38.49	250	500	269.9729	107.99	4.54
Silver	6/5/96	9.22	8.89	9.23	8.11	10.01	8.76	9.52	0.60213	1.89	10	10	9.1057	91.06	6.61
Sodium	6/4/96	479.79	487.01	499.63	611.48	517.67	510.46	501.44	44.30678	139.26	500	500	515.3543	103.07	8.60
Strontium	6/6/96	6.02	5.99	5.84	5.72	5.46	5.65	5.87	0.19797	0.62	5	20	5.7929	115.86	3.42
Thallium	6/6/96	114.12	120.45	103.35	119.46	134.37	181.77	127.26	25.36167	79.71	125	200	128.6829	102.95	19.71
Tin	6/4/96	101.41	100.74	99.07	107.77	103.75	107.43	107.09	3.58587	11.27	100	100	103.8943	103.89	3.45
Titanium	6/4/96	14.65	18.37	14.66	12.76	16.46	18.35	14.63	2.10956	6.63	20	50	15.6971	78.49	13.44
Vanadium	6/4/96	9.3	8.92	10.5	10.15	10.5	9.76	9.65	0.59810	1.88	10	10	9.8257	98.26	6.09
Zinc	6/5/96	21.37	19.66	21.37	24.95	22.51	23.65	20.81	1.79611	5.65	20	20	22.0457	110.23	8.15
Zirconium	6/5/96	23.68	27.63	28.65	27.76	29.2	21.97	27.13	2.69594	8.47	30	30	26.5743	88.58	10.14

MDLS 1996/1997

RAW DATA

Analysis Report Summary Wed 04-16-97 07:17:27 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	BLANK	AP1597A	ICP97	04/15/97	09:51		X	IR
2	STD2	AP1597A	ICP97	04/15/97	09:55		X	IR
3	STD1	AP1597A	ICP97	04/15/97	09:58		X	IR
4	HSTD2	AP1597A	ICP97	04/15/97	10:02	CSM	Q	CONC
5	HSTD1	AP1597A	ICP97	04/15/97	10:06	CSM	Q	CONC
6	ICV	AP1597A	ICP97	04/15/97	10:10	CSM	Q	CONC
7	ICB	AP1597A	ICP97	04/15/97	10:14	CSM	B	CONC
8	CRI	AP1597A	ICP97	04/15/97	10:20	CSM	S	CONC
9	ICSAI	AP1597A	ICP97	04/15/97	10:25	CSM	S	CONC
10	ICSABI	AP1597A	ICP97	04/15/97	10:29	CSM	S	CONC
11	CCV	AP1597A	ICP97	04/15/97	10:33	CSM	Q	CONC
12	CCB	AP1597A	ICP97	04/15/97	10:37	CSM	B	CONC
13	PBS4497	AP1597A	ICP97	04/15/97	10:41	CSM	S	CONC
14	LCSS4614	AP1597A	ICP97	04/15/97	10:45	CSM	S	CONC
15	97-04-061-01A	AP1597A	ICP97	04/15/97	10:49	CSM	S	CONC
16	97-04-061-02A	AP1597A	ICP97	04/15/97	10:53	CSM	S	CONC
17	97-04-064-01A	AP1597A	ICP97	04/15/97	10:57	CSM	S	CONC
18	97-04-064-02A	AP1597A	ICP97	04/15/97	11:01	CSM	S	CONC
19	97-04-061-01A-A	AP1597A	ICP97	04/15/97	11:05	CSM	S	CONC
20	97-04-061-01A-AD	AP1597A	ICP97	04/15/97	11:10	CSM	S	CONC
21	97-04-064-01A-A *um 4/17/97*	AP1597A	ICP97	04/15/97	11:14	CSM	S	CONC
22	97-04-064-01A-AD	AP1597A	ICP97	04/15/97	11:18	CSM	S	CONC
23	CCV	AP1597A	ICP97	04/15/97	11:22	CSM	Q	CONC
24	CCB	AP1597A	ICP97	04/15/97	11:26	CSM	B	CONC
25	97-04-064-02A	AP1597A	ICP97	04/15/97	11:31	CSM	S	CONC
26	ICSAF	AP1597A	ICP97	04/15/97	11:35	CSM	S	CONC
27	ICSABF	AP1597A	ICP97	04/15/97	11:40	CSM	S	CONC
28	CCV	AP1597A	ICP97	04/15/97	11:44	CSM	Q	CONC
29	CCB	AP1597A	ICP97	04/15/97	11:48	CSM	B	CONC
30	PBW4499	AP1597A	ICP97	04/15/97	11:58	CSM	S	CONC
31	BBLK0060	AP1597A	ICP97	04/15/97	12:02	CSM	S	CONC
32	BBLK0061	AP1597A	ICP97	04/15/97	12:06	CSM	S	CONC
33	BBLK0062	AP1597A	ICP97	04/15/97	12:10	CSM	S	CONC
34	LCSW4616	AP1597A	ICP97	04/15/97	12:14	CSM	S	CONC
35	97-04-102-01A	AP1597A	ICP97	04/15/97	12:18	CSM	S	CONC
36	97-04-102-01A-S	AP1597A	ICP97	04/15/97	12:22	CSM	S	CONC
37	97-04-102-01A-SD	AP1597A	ICP97	04/15/97	12:26	CSM	S	CONC
38	97-04-102-02A	AP1597A	ICP97	04/15/97	12:30	CSM	S	CONC
39	97-04-102-03A	AP1597A	ICP97	04/15/97	12:35	CSM	S	CONC
40	CCV	AP1597A	ICP97	04/15/97	12:39	CSM	Q	CONC
41	CCB	AP1597A	ICP97	04/15/97	12:43	CSM	B	CONC
42	97-04-102-04A	AP1597A	ICP97	04/15/97	12:47	CSM	S	CONC
43	97-04-102-05A	AP1597A	ICP97	04/15/97	12:51	CSM	S	CONC
44	97-04-102-06A	AP1597A	ICP97	04/15/97	12:55	CSM	S	CONC
45	97-04-102-07A	AP1597A	ICP97	04/15/97	12:59	CSM	S	CONC
46	97-04-102-08A	AP1597A	ICP97	04/15/97	13:03	CSM	S	CONC
47	97-04-102-09A	AP1597A	ICP97	04/15/97	13:07	CSM	S	CONC
48	97-04-102-10A	AP1597A	ICP97	04/15/97	13:12	CSM	S	CONC
49	97-04-102-11A	AP1597A	ICP97	04/15/97	13:16	CSM	S	CONC
50	97-04-102-12A	AP1597A	ICP97	04/15/97	13:20	CSM	S	CONC
51	97-04-102-13A	AP1597A	ICP97	04/15/97	13:24	CSM	S	CONC
52	CCV	AP1597A	ICP97	04/15/97	13:28	CSM	Q	CONC
53	CCB	AP1597A	ICP97	04/15/97	13:32	CSM	B	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	97-04-102-14A	AP1597A	ICP97	04/15/97	13:36	CSM	S	CONC
55	97-04-102-15A	AP1597A	ICP97	04/15/97	13:40	CSM	S	CONC
56	97-04-102-16A	AP1597A	ICP97	04/15/97	13:44	CSM	S	CONC
57	97-04-102-17A	AP1597A	ICP97	04/15/97	13:48	CSM	S	CONC
58	97-04-102-18A	AP1597A	ICP97	04/15/97	13:53	CSM	S	CONC
59	ICSAF	AP1597A	ICP97	04/15/97	13:57	CSM	S	CONC
60	ICSABF	AP1597A	ICP97	04/15/97	14:01	CSM	S	CONC
61	CCV	AP1597A	ICP97	04/15/97	14:05	CSM	Q	CONC
62	CCB	AP1597A	ICP97	04/15/97	14:09	CSM	B	CONC

CAL BLK/ ICB/CCB: MST012897A
STD1: MST031897A
STD2: MST032697A
ICV: MST123196A
CRI: MST041597A
ICSA: MST040897A
ICSAB: MST040897B
CCV: MST032097A
POST SPIKE: ØC31 (RN 3033)

CM
4/17/97

Method: ICP97 Standard: BLANK

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Avge	-.02080	.00170	.00320	.00000	.00130	.02898	-.00020
SDev	.00113	.00495	.00509	.00014	.00014	.00105	.00085
%RSD	5.4393	291.16	159.10	.00000	10.879	3.6112	424.26
#1	-.02000	-.00180	-.00040	.00010	.00120	.02972	.00040
#2	-.02160	.00520	.00680	-.00010	.00140	.02824	-.00080

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Avge	.00810	.00000	.00000	.00110	.00330	-.00020	.00020
SDev	.00325	.00028	.00000	.00014	.00014	.00000	.00028
%RSD	40.157	.00000	.00000	12.856	4.2855	.00000	141.42
#1	.01040	.00020	.00000	.00100	.00340	-.00020	.00040
#2	.00580	-.00020	.00000	.00120	.00320	-.00020	.00000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Avge	.00140	.00070	-.00050	.00425	.00135	.00180	.12355
SDev	.00000	.00014	.00071	.00007	.00007	.00170	.00191
%RSD	.00000	20.203	141.42	1.6638	5.2378	94.281	1.5453
#1	.00140	.00080	.00000	.00430	.00130	.00060	.12490
#2	.00140	.00060	-.00100	.00420	.00140	.00300	.12220

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Avge	-.00015	.01070	.02160	-.00185	-.00270	.00100	.00120
SDev	.00007	.00014	.00000	.00445	.00297	.00028	.00000
%RSD	47.140	1.3217	.00000	240.80	109.99	28.284	.00000
#1	-.00010	.01080	.02160	-.00500	-.00480	.00080	.00120
#2	-.00020	.01060	.02160	.00130	-.00060	.00120	.00120

Elem	Ti3248	Zr2677
Avge	-.00060	.00180
SDev	.00057	.00057
%RSD	94.281	31.427
#1	-.00100	.00140
#2	-.00020	.00220

Method: ICP97 Standard: STD2

Elem	Al3082	Ca3158	Fe2599	Mg2790	K_7664	Na5889
Avge	5.5794	23.347	62.450	11.363	3.2103	4.4068
SDev	.0656	.252	.739	.132	.0366	.0464
%RSD	1.1761	1.0782	1.1826	1.1624	1.1410	1.0526
#1	5.5330	23.169	61.927	11.270	3.1844	4.3740
#2	5.6258	23.525	62.972	11.457	3.2362	4.4396

Method: ICP97 Standard: STD1

Elem	Al3082	As1936	Ba4934	Be3130	B_2496	Cd2265	Cr2677

SDev	.01117	.01358	.00339	.0034	.00611	.0061	.00184
%RSD	1.7271	1.5931	.41473	.32869	.82981	.33279	.25285
#1	.63900	.84260	.81600	1.0302	.73192	1.8230	.72580
#2	.65480	.86180	.82080	1.0350	.74056	1.8316	.72840

Elem	Co2286	Cu3247	Pb2203	Li6707	Mn2576	Mo2020	Ni2316
Avge	.11110	.38970	.12170	1.0480	.68560	.34720	.86265
SDev	.00042	.00184	.00127	.0018	.00339	.00170	.00035
%RSD	.38188	.47177	1.0458	.16869	.49506	.48879	.04099
#1	.11080	.38840	.12080	1.0467	.68320	.34600	.86240
#2	.11140	.39100	.12260	1.0492	.68800	.34840	.86290

Elem	Se1960	Si2881	Sr4215	Ag3280	Tl3775	Sn1899	V_2924
Avge	.57910	.56335	1.7543	.95880	.14905	.47980	1.0199
SDev	.00156	.01167	.0077	.00368	.00191	.00255	.0033
%RSD	.26863	2.0710	.43933	.38349	1.2809	.53055	.31892
#1	.57800	.55510	1.7489	.95620	.14770	.48160	1.0176
#2	.58020	.57160	1.7598	.96140	.15040	.47800	1.0222

Elem	Zn2138	Ti3248	Zr2677
Avge	.72620	.07180	.52690
SDev	.00170	.00028	.00099
%RSD	.23369	.39393	.18788
#1	.72500	.07200	.52760
#2	.72740	.07160	.52620

Method: ICP97 Sample Name: HSTD2 Operator: CSM
Run Time: 04/15/97 10:02:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.52	-.00413	-.00545	.00220	.00050	.14358	-.00229
SDev	.32	.01400	.00242	.00035	.00026	.00714	.00148
%RSD	.32286	338.92	44.417	15.713	53.175	4.9749	64.550
#1	100.75	.00577	-.00716	.00244	.00031	.13853	-.00124
#2	100.29	-.01403	-.00374	.00196	.00068	.14863	-.00333
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	100.00						
Range	5.0000						

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.56	.00262	.00001	-.00695	100.55	.03438	.00019
SDev	.28	.00236	.00001	.00152	.28	.02251	.00054
%RSD	.27355	90.281	109.58	21.873	.28334	65.486	282.84
#1	100.76	.00429	.00001	-.00802	100.75	.01846	-.00019
#2	100.37	.00095	.00000	-.00587	100.35	.05030	.00057

Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value	100.00				100.00		
Range	5.0000				5.0000		
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.54	.00139	.00288	-.00961	100.47	.00657	.85861
SDev	.19	.00123	.00163	.00017	.19	.00636	.05941
%RSD	.19313	88.670	56.482	1.7746	.19300	96.883	6.9188
#1	100.68	.00226	.00173	-.00949	100.61	.01107	.81660
#2	100.41	.00052	.00403	-.00973	100.33	.00207	.90062

Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value	100.00				100.00		
Range	5.0000				5.0000		
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	.00002	100.13	.04244	-.01744	-.00073	.00308
SDev	.00007	.00031	.19	.00865	.00996	.00167	.00003
%RSD	9.2961	1309.7	.19002	20.388	57.116	228.14	1.0315
#1	.00080	-.00020	99.995	.03632	-.01039	-.00191	.00306
#2	.00070	.00024	100.26	.04855	-.02448	.00045	.00311

Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value			100.00				
Range			5.0000				

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.00293	.01362
SDev	.00408	.00063
%RSD	139.56	4.6403
#1	-.00581	.01407
#2	-.00004	.01318

Errors	NOCHECK	NOCHECK
Value		
Range		

Method: ICP97 Sample Name: HSTD1 Operator: CSM
Run Time: 04/15/97 10:06:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0364	1.9836	1.9972	2.0012	1.9959	1.9792	2.0019
SDev	.0136	.0201	.0494	.0166	.0157	.0182	.0138
%RSD	.66873	1.0140	2.4711	.82895	.78862	.92007	.68777
#1	2.0300	1.9694	1.9623	1.9895	1.9848	1.9663	1.9921

#2	2.0460	1.9979	2.0321	2.0130	2.0071	1.9920	2.0116
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1199	1.9988	2.0000	1.9918	2.1233	2.0017	1.9862
SDev	.0133	.0234	.0025	.0131	.0176	.0069	.0175
%RSD	.62949	1.1699	.12640	.65804	.82994	.34267	.88346
#1	2.1105	1.9822	1.9983	1.9825	2.1108	1.9968	1.9738
#2	2.1293	2.0153	2.0018	2.0011	2.1357	2.0065	1.9986
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000		2.0000	2.0000
Range		5.0000	5.0000	5.0000		5.0000	5.0000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1211	1.9985	1.9960	2.0009	2.0521	1.9824	Q2.1936
SDev	.0223	.0145	.0073	.0177	.0176	.0225	.0398
%RSD	1.0497	.72314	.36658	.88506	.85905	1.1368	1.8128
#1	2.1053	1.9883	1.9908	1.9884	2.0396	1.9664	Q2.1655
#2	2.1368	2.0087	2.0012	2.0134	2.0645	1.9983	Q2.2217
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Fail
Value		2.0000	2.0000	2.0000		2.0000	2.0000
Range		5.0000	5.0000	5.0000		5.0000	5.0000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9915	2.0020	2.0432	2.0201	2.0274	1.9969	1.9989
SDev	.0156	.0120	.0323	.0456	.0118	.0122	.0105
%RSD	.78114	.59745	1.5784	2.2560	.58017	.61157	.52576
#1	1.9805	1.9935	2.0204	2.0524	2.0190	1.9883	1.9915
#2	2.0025	2.0105	2.0660	1.9879	2.0357	2.0056	2.0063
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000		2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000		5.0000	5.0000	5.0000	5.0000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	1.9828	2.0196					
SDev	.0077	.0064					
%RSD	.38658	.31501					
#1	1.9773	2.0241					
#2	1.9882	2.0151					
Errors	QC Pass	QC Pass					
Value	2.0000	2.0000					
Range	5.0000	5.0000					

Method: ICP97 Sample Name: ICV Operator: CSM
Run Time: 04/15/97 10:10:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.669	.96275	.94644	.96921	.96449	1.0360	.95583
SDev	.298	.00741	.00282	.01002	.01129	.0124	.00428
%RSD	1.2068	.76928	.29784	1.0341	1.1702	1.2016	.44750
#1	24.458	.95751	.94843	.96212	.95651	1.0272	.95281
#2	24.879	.96798	.94445	.97630	.97247	1.0448	.95886
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.460	.96496	.96669	.96344	20.421	.96976	.98974
SDev	.275	.01052	.00255	.00578	.212	.01315	.01674
%RSD	1.0806	1.0897	.26364	.59974	1.0385	1.3560	1.6911
#1	25.266	.95753	.96849	.95935	20.271	.96046	.97790
#2	25.655	.97240	.96489	.96752	20.571	.97905	1.0016
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	1.0000	1.0000	1.0000	20.000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.985	.96293	.96578	.95839	20.044	1.0018	Q1.6508
SDev	.237	.00908	.01302	.01195	.130	.0068	.0509
%RSD	1.1853	.94302	1.3477	1.2465	.64862	.68262	3.0811
#1	19.817	.95651	.95658	.94994	19.952	1.0067	Q1.6148
#2	20.152	.96935	.97499	.96683	20.136	.99700	Q1.6868
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	20.000	1.0000	1.0000	1.0000	20.000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95996	.97428	25.016	.98069	.99313	.96055	.95927
SDev	.01071	.01158	.426	.03492	.00531	.00753	.00894
%RSD	1.1156	1.1887	1.7017	3.5603	.53445	.78380	.93206
#1	.95239	.96609	24.715	1.0054	.99688	.95523	.95295
#2	.96754	.98247	25.317	.95600	.98938	.96588	.96559
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	25.000	1.0000	1.0000	1.0000	1.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.96970	.99724
SDev	.00442	.01530
%RSD	.45609	1.5347
#1	.97283	.98642
#2	.96658	1.0081
Errors	QC Pass	QC Pass
Value	1.0000	1.0000
Range	10.000	10.000

Method: ICP97 Sample Name: ICB Operator: CSM
Run Time: 04/15/97 10:14:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00807	.00093	-.03003	.00024	.00015	.01464	-.00033
SDev	.00120	.00610	.00919	.00000	.00002	.00682	.00108
%RSD	14.829	657.30	30.591	.00000	11.659	46.592	328.36
#1	.00722	.00524	-.02354	.00024	.00013	.01947	.00044
#2	.00892	-.00339	-.03653	.00024	.00016	.00982	-.00110
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00342	-.00110	-.00002	-.00001	.00562	-.00474	.00000
SDev	.00424	.00234	.00002	.00072	.00179	.00222	.00054
%RSD	124.02	212.40	136.18	11131.	31.776	46.817	.00000
#1	.00042	.00055	-.00004	.00051	.00436	-.00630	-.00038
#2	.00642	-.00275	-.00000	-.00052	.00688	-.00317	.00038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00954	.00029	.00230	.00076	-.04051	.00138	.21686
SDev	.00130	.00082	.00081	.00162	.03305	.01468	.03548
%RSD	13.632	282.68	35.413	214.26	81.589	1061.4	16.359
#1	.00862	.00088	.00172	-.00039	-.01714	.01176	.24194
#2	.01046	-.00029	.00287	.00191	-.06388	-.00900	.19177
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00193	.00456	.04413	.01246	-.00058	-.00111
SDev	.00000	.00004	.01290	.01908	.00059	.00028	.00079
%RSD	.04141	1.8452	282.84	43.245	4.7370	48.447	71.540
#1	.00040	.00196	-.00456	.03063	.01288	-.00077	-.00055
#2	.00040	.00191	.01368	.05762	.01205	-.00038	-.00167
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.00862	-.00597
SDev	.01215	.00225
%RSD	141.02	37.661
#1	.01721	-.00756
#2	.00002	-.00438
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

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Method: ICP97 Sample Name: CRI Operator: CSM
Run Time: 04/15/97 10:20:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19340	.19257	.37934	.00794	.00412	H.24051	.00771
SDev	.00888	.00657	.00438	.00017	.00002	.01067	.00015
%RSD	4.5920	3.4129	1.1536	2.1757	.41469	4.4382	2.0017
#1	.18712	.18792	.37624	.00806	.00411	H.23296	.00782
#2	.19968	.19722	.38243	.00782	.00413	H.24806	.00780
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	.40000	.40000	.80000	.01600	.00800	.20000	.02000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.39378	.02003	L-.00011	.04682	.21344	.09338	.03865
SDev	.00485	.00117	.00002	.00145	.00101	.01116	.00068
%RSD	1.2316	5.8628	14.778	3.1071	.47125	11.951	1.7459
#1	.39035	.02086	L-.00010	.04579	.21415	.08549	.03818
#2	.39721	.01920	L-.00012	.04785	.21273	.10127	.03913
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	.80000	.04000	.04000	.08000	.40000	.20000	.08000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21720	.01022	.02187	.03626	.38798	.21488	1.3682
SDev	.00876	.00083	.00081	.00057	.06170	.00538	.1102
%RSD	4.0349	8.0797	3.7154	1.5609	15.903	2.5050	8.0552
#1	.21100	.01081	.02245	.03666	.34435	.21868	1.2902
#2	.22340	.00964	.02130	.03586	.43161	.21107	1.4461
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.40000	.02000	.04000	.08000	.80000	.40000	2.0000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03812	.01368	.96233	.57006	.20292	.01806	.04105
SDev	.00000	.00061	.01290	.04805	.00587	.00001	.00040
%RSD	.00049	4.4558	1.3405	8.4285	2.8907	.06125	.96535
#1	.03812	.01325	.95321	.53609	.20707	.01807	.04133
#2	.03812	.01411	.97145	.60404	.19878	.01805	.04077
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.08000	.04000	2.0000	1.0000	.40000	.04000	.08000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Units	ppm	ppm
Avge	.04504	.06336
SDev	.00811	.00215
%RSD	18.014	3.3965
#1	.03930	.06183
#2	.05078	.06488
Errors	LC Pass	LC Pass
High	.20000	1.2000
Low	.00000	.00000

Method: ICP97 Sample Name: ICSAI Operator: CSM
Run Time: 04/15/97 10:25:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	471.30	.03508	.07041	.00098	-.00024	.09834	-.00151
SDev	4.31	.00129	.00252	.00000	.00029	.00370	.00091
%RSD	.91542	3.6803	3.5772	.00000	121.27	3.7632	60.046
#1	474.35	.03416	.06863	.00098	-.00044	.09573	-.00215
#2	468.25	.03599	.07220	.00098	-.00003	.10096	-.00087
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00800	-.00400	-.10000	-.01000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	465.42	-.00256	.00184	-.02100	180.28	.06907	.00086
SDev	4.79	.00026	.00256	.00041	1.80	.02300	.00040
%RSD	1.0284	10.192	138.73	1.9453	.99820	33.296	47.140
#1	468.80	-.00274	.00365	-.02129	181.55	.05281	.00115
#2	462.03	-.00237	.00004	-.02071	179.00	.08533	.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	477.64	.00690	.00058	-.02763	.00779	.03321	.86450
SDev	4.35	.00032	.00163	.00013	.05289	.04306	.05048
%RSD	.90972	4.6599	280.44	.46311	678.82	129.64	5.8390
#1	480.71	.00713	-.00057	-.02754	.04519	.06365	.82880
#2	474.56	.00667	.00173	-.02772	-.02960	.00277	.90019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01428	-.00223	-.01824	-.00125	-.05353	-.00486	.01010
SDev	.00006	.00008	.01935	.09409	.00703	.00127	.00069
%RSD	.38631	3.5823	106.07	7516.2	13.130	26.139	6.8274
#1	-.01424	-.00218	-.03193	-.06778	-.04856	-.00396	.00961
#2	-.01431	-.00229	-.00456	.06528	-.05850	-.00576	.01059
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.80000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.01446	.01716
SDev	.00405	.00150
%RSD	28.025	8.7478
#1	-.01733	.01610
#2	-.01160	.01822
Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABI Operator: CSM
Run Time: 04/15/97 10:29:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	477.98	.92694	1.7474	.46249	.44914	.97264	.85356
SDev	6.41	.03189	.0021	.00501	.00632	.02038	.00950
%RSD	1.3409	3.4403	.11924	1.0835	1.4069	2.0950	1.1132
#1	473.45	.90439	1.7489	.45894	.44467	.95823	.84684
#2	482.51	.94949	1.7460	.46603	.45361	.98705	.86028
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	470.29	.43175	.43308	.44006	181.09	.96446	1.0111
SDev	6.58	.00833	.00255	.00604	2.25	.00427	.0140
%RSD	1.3992	1.9291	.58937	1.3721	1.2443	.44310	1.3883
#1	465.63	.42586	.43128	.43579	179.49	.96748	1.0012
#2	474.94	.43763	.43489	.44433	182.68	.96144	1.0210
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	481.70	.44579	.88814	.84412	4.6324	.95052	L3.5096
SDev	5.87	.00483	.01220	.00524	.0264	.02204	.1294
%RSD	1.2194	1.0842	1.3737	.62126	.57083	2.3184	3.6881
#1	477.54	.44238	.87951	.84041	4.6137	.93494	L3.4181
#2	485.85	.44921	.89677	.84783	4.6511	.96611	L3.6012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	600.00	.60000	1.2000	1.2000	6.0000	1.2000	6.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.88881	.92559	4.8778	.91954	.88617	.44991	.87030
SDev	.01192	.01321	.0806	.03354	.03227	.00328	.01097
%RSD	1.3405	1.4268	1.6529	3.6469	3.6414	.72809	1.2603
#1	.88039	.91625	4.8208	.89583	.86335	.44760	.86254
#2	.89724	.93493	4.9348	.94326	.90899	.45223	.87805
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	1.2000	6.0000	1.2000	1.2000	.60000	1.2000
Low	.80000	.80000	4.0000	.80000	.80000	.40000	.80000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.85635	.93582
SDev	.00019	.00672
%RSD	.02229	.71810
#1	.85649	.93107
#2	.85622	.94057
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 10:33:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.687	1.9532	1.9792	1.9877	1.9690	1.9407	1.9451
SDev	.027	.0232	.0024	.0029	.0022	.0027	.0020
%RSD	.05260	1.1884	.11974	.14779	.11187	.13880	.10276
#1	50.668	1.9696	1.9809	1.9897	1.9705	1.9388	1.9465
#2	50.706	1.9367	1.9775	1.9856	1.9674	1.9426	1.9436
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.158	1.9698	1.9189	1.9530	41.631	1.9556	2.0328
SDev	.024	.0058	.0102	.0044	.050	.0070	.0023
%RSD	.04621	.29645	.53138	.22394	.12014	.35678	.11288
#1	52.140	1.9739	1.9117	1.9499	41.666	1.9507	2.0312
#2	52.175	1.9657	1.9262	1.9561	41.595	1.9606	2.0345
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.110	1.9664	1.9690	1.9425	41.375	1.9740	Q2.3357
SDev	.060	.0016	.0098	.0028	.161	.0176	.0472
%RSD	.14556	.08386	.49556	.14373	.38878	.89168	2.0227
#1	41.152	1.9676	1.9621	1.9444	41.489	1.9816	Q2.3023
#2	41.068	1.9653	1.9759	1.9405	41.261	1.9864	Q2.3691
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9671	1.9771	51.113	1.9812	1.9633	1.9673	1.9588
SDev	.0015	.0003	.090	.0049	.0176	.0077	.0039
%RSD	.07380	.01392	.17666	.24771	.89617	.38962	.20013
#1	1.9682	1.9773	51.049	1.9778	1.9757	1.9728	1.9615
#2	1.9661	1.9769	51.177	1.9847	1.9508	1.9619	1.9560
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9407	2.0645
SDev	.0041	.0050
%RSD	.21272	.24011
#1	1.9378	2.0680
#2	1.9436	2.0610
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: CSM

Run Time: 04/15/97 10:37:20
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04022	.00181	-.02561	.00049	.00053	.00477	-.00055
SDev	.01643	.01362	.00265	.00035	.00000	.00634	.00047
%RSD	40.838	750.82	10.358	70.711	.38506	133.00	84.244
#1	.05184	.01144	-.02373	.00073	.00053	.00925	-.00088
#2	.02861	-.00782	-.02748	.00024	.00053	.00028	-.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03941	.00083	-.00003	.00308	.02348	.00314	.00029
SDev	.01152	.00117	.00001	.00073	.00803	.00446	.00014
%RSD	29.235	140.91	22.428	23.618	34.205	142.02	47.140
#1	.04755	.00000	-.00002	.00256	.02916	-.00001	.00038
#2	.03126	.00165	-.00003	.00359	.01780	.00629	.00019
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04033	.00029	.00402	-.00209	-.02960	.02145	.26205
SDev	.01245	.00000	.00325	.00385	.05289	.00294	.04056
%RSD	30.861	.32029	80.851	184.46	178.64	13.682	15.480
#1	.04913	.00029	.00172	.00084	-.06700	.02353	.29073
#2	.03153	.00029	.00632	-.00481	.00779	.01938	.23336
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00088	-.00015	.03193	-.00122	.01579	-.00057	-.00055
SDev	.00024	.00120	.00645	.04910	.00411	.00030	.00077
%RSD	35.369	777.29	20.203	4040.7	25.995	52.391	139.44
#1	.00085	-.00100	.03649	-.03594	.01870	-.00077	-.00001
#2	.00051	.00069	.02736	.03350	.01289	-.00036	-.00110
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm

Avge	.01435	-.00666
SDev	.00406	.00016
%RSD	28.313	2.4274
#1	.01148	-.00655
#2	.01723	-.00678
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: PBS4497 Operator: CSM
Run Time: 04/15/97 10:41:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01883	L-.00653	L-.01880	L.00049	L.00017	L-.00545	L-.00044
SDev	.00127	.00089	.01967	.00000	.00004	.00265	.00062
%RSD	6.7339	13.614	104.66	.00000	22.414	48.614	140.53
#1	L.01794	L-.00590	L-.03271	L.00049	L.00014	L-.00358	L-.00000
#2	L.01973	L-.00716	L-.00489	L.00049	L.00020	L-.00732	L-.00088
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02013	L.00331	L-.00004	L.00360	L.00980	L.00945	L.00038
SDev	.00000	.00468	.00000	.00000	.00045	.00000	.00027
%RSD	.01115	141.37	8.1732	.01041	4.6260	.04633	70.711
#1	L.02013	L.00000	L-.00004	L.00360	L.00948	L.00945	L.00019
#2	L.02013	L.00662	L-.00004	L.00360	L.01012	L.00945	L.00057
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01401	L.00058	L.00230	L.00077	L.02805	L.00380	L.05514
SDev	.00237	.00041	.00081	.00165	.00220	.01908	.01051
%RSD	16.936	70.675	35.306	213.62	7.8567	501.56	19.064
#1	L.01569	L.00029	L.00287	L-.00040	L.02649	L.01730	L.06257
#2	L.01233	L.00088	L.00173	L.00194	L.02960	L-.00969	L.04771
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00034	L.00174	L.01368	L.03398	L.00873	L-.00115	L-.00140
SDev	.00024	.00088	.00000	.00486	.00471	.00001	.00038
%RSD	70.873	50.840	.00000	14.291	53.910	.54678	27.460
#1	L.00017	L.00111	L.01368	L.03742	L.01206	L-.00116	L-.00167
#2	L.00051	L.00236	L.01368	L.03055	L.00540	L-.00115	L-.00113
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01718	L-.00306
SDev	.00004	.00485
%RSD	.23702	158.37
#1	L.01721	L-.00649
#2	L.01715	L.00037
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: LCSS4614 Operator: CSM
Run Time: 04/15/97 10:45:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.912	.47882	.93342	.87598	.87796	1.0652	1.0022
SDev	.239	.00865	.00909	.00155	.00223	.0092	.0028
%RSD	.59774	1.8064	.97337	.17754	.25357	.86644	.28242
#1	39.743	.47270	.92699	.87488	.87639	1.0587	1.0042
#2	40.081	.48494	.93984	.87708	.87954	1.0718	1.0002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	43.024	.78109	.91354	1.0104	48.995	.84104	.96569
SDev	.248	.00897	.00002	.0029	.178	.02442	.00513
%RSD	.57744	1.1484	.00216	.28392	.36237	2.9034	.53114
#1	42.848	.77474	.91356	1.0083	48.870	.82378	.96206
#2	43.199	.78743	.91353	1.0124	49.121	.85831	.96932
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	16.659	1.2441	.93013	.98177	16.471	.99229	4.4379
SDev	.074	.0037	.00488	.00376	.035	.02545	.4281
%RSD	.44184	.29864	.52480	.38260	.21406	2.5648	9.6475
#1	16.607	1.2414	.92668	.98443	16.446	1.0103	4.1351
#2	16.711	1.2467	.93358	.97912	16.496	.97430	4.7406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0152	.55983	44.538	.97764	.60031	.79603	.90954
SDev	.0033	.00091	.287	.09810	.01586	.00334	.00587
%RSD	.32456	.16266	.64444	10.035	2.6414	.41987	.64555
#1	1.0129	.55919	44.335	.90827	.58910	.79367	.90538
#2	1.0176	.56048	44.741	1.0470	.61152	.79839	.91369
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.4063	1.0030
SDev	.0080	.0066
%RSD	.56724	.65900
#1	1.4007	.99830
#2	1.4120	1.0076
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-01A Operator: CSM
Run Time: 04/15/97 10:49:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24564	L.02690	.15032	.02346	L.00071	.12595	.00558
SDev	.00629	.02108	.01151	.00035	.00020	.00321	.00075
%RSD	2.5609	78.350	7.6595	1.4731	28.642	2.5488	13.381
#1	.24119	L.04181	.15846	.02370	L.00056	.12822	.00611
#2	.25009	L.01200	.14218	.02322	L.00085	.12368	.00506
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34607	1.5570	.02634	74.806	24.148	3.7693	L.00067
SDev	.01332	.0031	.00001	.154	.103	.0246	.00068
%RSD	3.8497	.20163	.03687	.20555	.42770	.65373	101.02
#1	.35549	1.5547	.02633	74.914	24.221	3.7867	L.00019
#2	.33665	1.5592	.02635	74.697	24.075	3.7518	L.00115
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16259	.28152	.13516	1.2259	L.12777	L.02976	17.515
SDev	.00477	.00001	.00163	.0079	.02424	.00881	2.493
%RSD	2.9331	.00338	1.2053	.64061	18.971	29.605	14.231
#1	.15922	.28153	.13631	1.2314	L.14491	L.03598	15.753
#2	.16596	.28152	.13401	1.2203	L.11063	L.02353	19.278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00198	.02841	.62483	L.01275	.28697	L.00122	48.714
SDev	.00000	.00208	.01290	.04003	.02172	.00083	.165
%RSD	.02622	7.3218	2.0645	314.10	7.5696	68.281	.33905
#1	L.00198	.02988	.61571	L.04105	.30233	L.00063	48.830
#2	L.00198	.02694	.63395	L-.01556	.27161	L.00180	48.597
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.63242	.08982
SDev	.00374	.00856
%RSD	.59061	9.5295
#1	.63507	.09587
#2	.62978	.08376
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-02A Operator: CSM
Run Time: 04/15/97 10:53:43

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31668	L.02603	.31427	.03800	L.00030	L.03940	.00523
SDev	.01514	.00307	.00705	.00017	.00016	.00538	.00074
%RSD	4.7821	11.807	2.2420	.45473	53.279	13.649	14.230
#1	.30597	L.02386	.30928	.03812	L.00019	L.04320	L.00470
#2	.32739	L.02820	.31925	.03788	L.00042	L.03560	.00575
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46896	1.7393	.02944	78.300	26.343	4.1307	L.00105
SDev	.01514	.0078	.00002	.266	.115	.0113	.00014
%RSD	3.2292	.44774	.07718	.33973	.43551	.27278	12.856
#1	.45826	1.7338	.02946	78.112	26.262	4.1227	L.00115
#2	.47967	1.7448	.02943	78.488	26.424	4.1387	L.00095
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24178	.32523	.15701	1.4809	.23372	L.01418	46.436
SDev	.00963	.00208	.00325	.0098	.07272	.01224	6.704
%RSD	3.9820	.63971	2.0692	.65955	31.113	86.354	14.437
#1	.23497	.32376	.15471	1.4739	L.18230	L.00552	41.696
#2	.24859	.32670	.15931	1.4878	.28514	L.02283	51.176
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00243	.01986	.80270	L.04042	.35454	L.00199	54.736
SDev	.00016	.00005	.01935	.05149	.00876	.00085	.295
%RSD	6.6029	.26603	2.4106	127.39	2.4720	42.864	.53927
#1	L.00232	.01983	.78902	L.00401	.36073	L.00139	54.528
#2	L.00255	.01990	.81638	L.07683	.34834	L.00260	54.945
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.78238	.08762

SDev	.00766	.01379
%RSD	.97855	15.734
#1	.77696	.09736
#2	.78779	.07787
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-01A Operator: CSM
Run Time: 04/15/97 10:57:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04380	L.00317	L-.01530	L.00061	L-.00015	.18779	L-.00035
SDev	.00129	.00480	.00644	.00017	.00001	.02761	.00016
%RSD	2.9522	151.39	42.096	28.284	3.9310	14.702	44.270
#1	L.04288	L-.00022	L-.01986	L.00049	L-.00015	.16827	L-.00024
#2	L.04471	L.00656	L-.01075	L.00073	L-.00014	.20731	L-.00046
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.08566	.06040	L-.00010	.58679	.94249	L.01135	L-.00019
SDev	.00425	.00039	.00003	.04228	.00206	.00223	.00108
%RSD	4.9617	.64791	26.174	7.2056	.21843	19.612	565.69
#1	L.08866	.06067	L-.00008	.61669	.94103	L.00978	L.00057
#2	L.08265	.06012	L-.00011	.55689	.94394	L.01293	L-.00095
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02391	.01492	L.00978	.06770	L-.00312	L.01868	28.622
SDev	.00869	.00000	.00325	.00026	.01983	.01174	1.969
%RSD	36.353	.01184	33.273	.38094	636.40	62.853	6.8777
#1	L.03005	.01492	L.00748	.06789	L.01091	L.01038	30.014
#2	L.01776	.01492	.01208	.06752	L-.01714	L.02699	27.230
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	L.00034	L.00114	.53817	L.01857	L.02407	L-.00180	.40198
SDev	.00024	.00175	.00000	.04602	.00646	.00001	.00172
%RSD	71.359	154.39	.00000	247.83	26.825	.73434	.42924
#1	L.00051	L.00238	.53817	L.05111	L.01951	L-.00181	.40076
#2	L.00017	L-.00010	.53817	L-.01397	L.02864	L-.00179	.40320
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01847	L.00532
SDev	.01222	.00073
%RSD	66.176	13.692
#1	L.00983	L.00481
#2	.02711	L.00584
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-02A Operator: CSM
Run Time: 04/15/97 11:01:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.08218	L.00354	L-.01468	L.00061	L-.00013	.26735	L-.00089
SDev	.00254	.00351	.01563	.00052	.00002	.01734	.00124
%RSD	3.0936	99.299	106.52	84.853	12.269	6.4842	139.03
#1	L.08398	L.00602	L-.00362	L.00024	L-.00014	.25509	L-.00177
#2	L.08039	L.00105	L-.02573	L.00098	L-.00012	.27961	L-.00002
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.11181	.02152	L-.00006	.46001	.92806	.05539	L-.00134
SDev	.00607	.00000	.00000	.01166	.00363	.01117	.00027
%RSD	5.4286	.01544	4.2170	2.5347	.39055	20.163	20.203
#1	L.10752	.02152	L-.00006	.46826	.93063	.06329	L-.00115
#2	L.11610	.02151	L-.00006	.45177	.92550	L.04749	L-.00153
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01515	.01112	L.00633	.04027	L.02805	L.01176	10.384
SDev	.00628	.00041	.00163	.00320	.02865	.03229	.491
%RSD	41.473	3.7204	25.693	7.9484	102.14	274.53	4.7315
#1	L.01070	.01141	L.00748	.04254	L.00779	L.03460	10.732
#2	L.01959	.01083	L.00518	.03801	L.04830	L-.01107	10.037
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00034	.01039	.50169	L.04267	L.02286	L-.00094	.82634
SDev	.00008	.00238	.01290	.04811	.00820	.00137	.00241
%RSD	23.805	22.875	2.5713	112.76	35.882	145.45	.29117
#1	L.00028	L.00871	.51081	L.00865	L.01706	L-.00191	.82464
#2	L.00039	.01207	L.49257	L.07669	L.02866	L.00003	.82804
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01599	L.00723
SDev	.00003	.00250
%RSD	.16654	34.521
#1	L.01597	L.00546
#2	L.01601	L.00899
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-01A-A Operator: CSM
Run Time: 04/15/97 11:05:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.630	2.0098	2.1375	2.0342	1.8481	2.0051	1.9685
SDev	.071	.0160	.0066	.0059	.0083	.0103	.0016
%RSD	.13464	.79506	.30808	.28883	.44923	.51198	.08037
#1	52.680	1.9985	2.1328	2.0384	1.8540	2.0123	1.9673
#2	52.579	2.0211	2.1421	2.0301	1.8422	1.9978	1.9696
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	53.417	3.5040	1.9920	73.597	65.445	5.6248	2.1064
SDev	.066	.0070	.0255	.023	.159	.0074	.0065
%RSD	.12447	.20021	1.2777	.03176	.24250	.13213	.30757
#1	53.464	3.4991	2.0100	73.581	65.557	5.6301	2.1110
#2	53.370	3.5090	1.9740	73.614	65.332	5.6196	2.1018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	42.477	2.2676	2.1766	3.1289	42.425	2.0072	15.266
SDev	.066	.0029	.0024	.0083	.143	.0088	1.713
%RSD	.15632	.12732	.11186	.26451	.33761	.43753	11.223
#1	42.524	2.2696	2.1749	3.1348	42.526	2.0134	14.055
#2	42.430	2.2656	2.1783	3.1231	42.324	2.0010	16.478
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0306	1.9285	52.506	2.0297	2.2297	2.0215	48.600
SDev	.0044	.0008	.010	.0718	.0099	.0041	.012
%RSD	.21818	.04406	.01842	3.5399	.44617	.20180	.02418
#1	2.0338	1.9279	52.499	2.0805	2.2367	2.0244	48.592
#2	2.0275	1.9291	52.513	1.9789	2.2227	2.0186	48.608
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.6663	2.2117
SDev	.0282	.0164
%RSD	1.0580	.74042
#1	2.6863	2.2233
#2	2.6464	2.2001
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-01A-AD Operator: CSM
Run Time: 04/15/97 11:10:05
Comment:

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.886	1.9571	2.0764	1.9785	1.7883	1.9111	1.9046
SDev	.313	.0065	.0120	.0083	.0069	.0139	.0083
%RSD	.61508	.33000	.57841	.41923	.38852	.72981	.43543
#1	50.665	1.9526	2.0849	1.9726	1.7834	1.9210	1.8987
#2	51.107	1.9617	2.0679	1.9844	1.7932	1.9012	1.9105
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.688	3.4489	1.9128	74.476	64.288	5.5982	2.0362
SDev	.274	.0163	.0051	.509	.254	.0333	.0062
%RSD	.52996	.47326	.26636	.68303	.39460	.59519	.30493
#1	51.495	3.4374	1.9164	74.116	64.109	5.5746	2.0318
#2	51.882	3.4604	1.9092	74.836	64.468	5.6218	2.0406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.030	2.2052	2.1087	3.0778	40.995	1.9815	15.756
SDev	.202	.0079	.0041	.0038	.099	.0470	1.270
%RSD	.49245	.35693	.19307	.12314	.24188	2.3717	8.0624
#1	40.887	2.1996	2.1058	3.0751	40.925	1.9483	14.858
#2	41.173	2.2108	2.1116	3.0804	41.065	2.0148	16.654
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9656	1.8290	51.054	1.9011	2.1560	1.9585	48.810
SDev	.0072	.0324	.393	.0095	.0135	.0034	.270
%RSD	.36854	1.7730	.77065	.50080	.62679	.17140	.55223
#1	1.9604	1.8061	50.775	1.8943	2.1656	1.9562	48.619
#2	1.9707	1.8520	51.332	1.9078	2.1464	1.9609	49.000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.5927	2.1166
SDev	.0052	.0172

%RSD	.19983	.81329
#1	2.5964	2.1044
#2	2.5891	2.1287
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-01A -A Operator: CSM
Run Time: 04/15/97 11:14:10
Comment:
Mode: CONC Corr. Factor: 1

CM 4/15/97

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.972	1.8908	1.8240	1.9250	1.7938	1.9754	1.8668
SDev	.256	.0070	.0480	.0045	.0061	.0282	.0049
%RSD	.51226	.36936	2.6302	.23339	.34040	1.4278	.26336
#1	49.791	1.8859	1.7900	1.9218	1.7895	1.9554	1.8634
#2	50.153	1.8958	1.8579	1.9282	1.7981	1.9953	1.8703
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.708	1.9837	1.9117	2.6952	41.471	1.8929	2.0048
SDev	.236	.0035	.0102	.0554	.132	.0017	.0101
%RSD	.46624	.17829	.53386	2.0565	.31851	.09057	.50495
#1	50.541	1.9862	1.9189	2.7343	41.378	1.8917	1.9976
#2	50.876	1.9812	1.9044	2.6560	41.565	1.8942	2.0119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.280	1.9192	1.9563	1.9455	40.128	1.9289	9.3601
SDev	.222	.0083	.0081	.0010	.187	.0117	.4783
%RSD	.55105	.42995	.41596	.05149	.46675	.60781	5.1096
#1	40.123	1.9134	1.9505	1.9448	39.996	1.9372	9.6983
#2	40.437	1.9250	1.9620	1.9462	40.261	1.9206	9.0219
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9323	1.7888	49.909	1.8824	1.8290	1.9293	2.2645

SDev	.0043	.0190	.510	.0096	.0058	.0119	.0143
%RSD	.22478	1.0647	1.0210	.50912	.31890	.61540	.63176
#1	1.9292	1.7753	49.548	1.8756	1.8249	1.9209	2.2544
#2	1.9354	1.8023	50.269	1.8891	1.8331	1.9377	2.2746
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9413	1.9535
SDev	.0038	.0169
%RSD	.19704	.86765
#1	1.9386	1.9415
#2	1.9440	1.9655
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-01A-AD Operator: CSM
Run Time: 04/15/97 11:18:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.981	1.8489	1.8130	1.8882	1.7610	1.9697	1.8288
SDev	.087	.0120	.0140	.0033	.0052	.0079	.0020
%RSD	.17781	.64660	.77161	.17388	.29439	.39881	.10953
#1	48.920	1.8574	1.8031	1.8905	1.7647	1.9641	1.8303
#2	49.043	1.8405	1.8229	1.8859	1.7574	1.9752	1.8274
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.705	1.9443	1.8576	2.3970	40.660	1.8899	1.9602
SDev	.047	.0086	.0204	.0182	.053	.0082	.0030
%RSD	.09483	.44215	1.0996	.75975	.13041	.43166	.15149
#1	49.739	1.9504	1.8721	2.4099	40.697	1.8842	1.9581
#2	49.672	1.9382	1.8432	2.3841	40.622	1.8957	1.9623
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	39.446	1.8804	1.9045	1.8991	39.265	1.8832	5.1182
SDev	.062	.0037	.0065	.0118	.002	.0157	.0817
%RSD	.15767	.19766	.34159	.62151	.00561	.83218	1.5968
#1	39.402	1.8830	1.8999	1.9074	39.264	1.8721	5.0604
#2	39.490	1.8777	1.9091	1.8907	39.267	1.8942	5.1759
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8891	1.7563	48.917	1.8917	1.7921	1.8863	2.2242
SDev	.0035	.0173	.255	.0188	.0205	.0016	.0030
%RSD	.18338	.98562	.52083	.99169	1.1460	.08676	.13828
#1	1.8915	1.7441	48.737	1.9049	1.8067	1.8875	2.2263
#2	1.8866	1.7685	49.097	1.8784	1.7776	1.8852	2.2220
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.8916	1.9152
SDev	.0123	.0008
%RSD	.65163	.04112
#1	1.8829	1.9158
#2	1.9003	1.9147
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 11:22:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.371	1.9600	1.9715	1.9835	1.9513	1.9297	1.9546
SDev	.238	.0013	.0066	.0112	.0103	.0004	.0117
%RSD	.47267	.06527	.33349	.56628	.52643	.02026	.59924
#1	50.540	1.9591	1.9761	1.9914	1.9585	1.9300	1.9629
#2	50.203	1.9609	1.9668	1.9756	1.9440	1.9294	1.9463
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.957	1.9717	1.9405	Q2.7173	41.526	1.9805	1.9906
SDev	.224	.0024	.0204	.1115	.175	.0171	.0124
%RSD	.43192	.12058	1.0513	4.1026	.42156	.86138	.62383
#1	52.115	1.9700	1.9261	Q2.7961	41.650	1.9926	1.9993
#2	51.798	1.9733	1.9549	Q2.6384	41.402	1.9685	1.9818
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.815	1.9580	1.9690	1.9436	40.837	2.0204	Q2.8799
SDev	.210	.0087	.0081	.0111	.379	.0206	.0265
%RSD	.51501	.44309	.41293	.57153	.92809	1.0193	.92018
#1	40.964	1.9642	1.9747	1.9514	41.105	2.0349	Q2.8987
#2	40.667	1.9519	1.9632	1.9357	40.569	2.0058	Q2.8612
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9516	2.0440	49.831	1.9405	1.9670	1.9556	2.0116
SDev	.0081	.0387	.400	.0966	.0146	.0193	.0137
%RSD	.41670	1.8954	.80249	4.9761	.74470	.98739	.68065
#1	1.9573	2.0714	50.114	2.0088	1.9567	1.9693	2.0213
#2	1.9458	2.0166	49.548	1.8722	1.9774	1.9420	2.0019
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9884	2.0683
SDev	.0004	.0058
%RSD	.02171	.27890
#1	1.9881	2.0643
#2	1.9887	2.0724
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: CSM
Run Time: 04/15/97 11:26:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00987	.01016	-.02045	.00024	.00040	.01345	-.00044
SDev	.01897	.00265	.00095	.00035	.00025	.00546	.00031
%RSD	192.18	26.064	4.6618	141.42	63.913	40.577	70.389
#1	.02328	.01203	-.01977	.00049	.00057	.01731	-.00022
#2	-.00354	.00829	-.02112	.00000	.00022	.00959	-.00066
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01499	.00220	-.00002	H.06596	.00738	-.01100	-.00057
SDev	.01333	.00156	.00001	.00656	.00181	.00222	.00081
%RSD	88.979	70.987	44.690	9.9427	24.599	20.175	141.42
#1	.02442	.00109	-.00002	H.07060	.00866	-.00943	.00000
#2	.00556	.00330	-.00001	H.06132	.00610	-.01257	-.00115
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01059	.00059	.00173	-.00376	-.02181	-.00000	.33954
SDev	.00255	.00041	.00163	.00047	.05068	.01370	.07155
%RSD	24.117	70.219	94.311	12.380	232.34	1454400.	21.073
#1	.00878	.00030	.00057	-.00343	.01402	.00969	.39013
#2	.01239	.00088	.00288	-.00409	-.05765	-.00969	.28895
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00381	.03193	.02394	.01493	-.00116	.00144
SDev	.00016	.00091	.00645	.01728	.01234	.00002	.00076
%RSD	40.335	23.792	20.203	72.196	82.611	1.3166	52.802
#1	.00051	.00446	.03649	.03616	.02366	-.00117	.00198
#2	.00028	.00317	.02736	.01172	.00621	-.00115	.00091
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.00848	.00087
SDev	.00406	.00252
%RSD	47.902	289.35

#1	.01138	-.00091
#2	.00561	.00265

Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

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Method: ICP97 Sample Name: 97-04-064-02A Operator: CSM
Run Time: 04/15/97 11:31:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.08040	L.00167	L-.01996	L.00110	L.00027	.26026	L-.00023
SDev	.01010	.00877	.00876	.00017	.00003	.00072	.00031
%RSD	12.557	525.37	43.907	15.713	10.417	.27754	132.74
#1	L.08754	L.00787	L-.01376	L.00098	L.00029	.25975	L-.00045
#2	L.07326	L-.00453	L-.02616	L.00122	L.00025	.26077	L-.00001
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.10753	.02235	L-.00005	.37910	.92125	.06640	L.00076
SDev	.00001	.00274	.00001	.00219	.00101	.00892	.00027
%RSD	.01037	12.244	11.730	.57659	.11001	13.440	35.355
#1	L.10754	.02042	L-.00006	.38065	.92053	.06009	L.00057
#2	L.10752	.02429	L-.00005	.37756	.92197	.07271	L.00095
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02577	.01199	L.00403	.03778	L.01870	L.00588	1.9921
SDev	.00134	.00083	.00162	.00107	.01983	.00147	.2144
%RSD	5.2082	6.8850	40.346	2.8344	106.07	24.968	10.761
#1	L.02672	.01141	L.00288	.03702	L.00467	L.00484	1.8405
#2	L.02482	.01257	L.00518	.03854	L.03272	L.00692	2.1437
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00051	.01501	.52677	L.07262	L.01373	L-.00076	.81830
SDev	.00016	.00119	.01613	.05380	.00938	.00163	.00472
%RSD	31.686	7.9041	3.0611	74.089	68.273	216.36	.57683
#1	L.00039	.01417	.51537	L.11066	L.02036	L.00040	.81496
#2	L.00062	.01585	.53817	L.03457	L.00710	L-.00191	.82164
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Units	ppm	ppm
Avge	L.01322	L.00996
SDev	.00405	.00412
%RSD	30.638	41.339
#1	L.01609	L.01287
#2	L.01036	L.00705
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ICSAF Operator: CSM
Run Time: 04/15/97 11:35:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	474.23	.01995	.06960	.00073	-.00007	.06758	-.00115
SDev	3.07	.00437	.03472	.00000	.00003	.00400	.00160
%RSD	.64831	21.891	49.882	.00000	38.341	5.9243	139.57
#1	472.06	.02304	.04505	.00073	-.00005	.06475	-.00228
#2	476.41	.01686	.09415	.00073	-.00009	.07041	-.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00800	-.00400	-.10000	-.01000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	471.41	-.00545	.00186	.28148	182.77	.06397	.00076
SDev	2.43	.00148	.00256	.03085	1.05	.00876	.00000
%RSD	.51608	27.184	137.73	10.961	.57207	13.691	.00000
#1	469.69	-.00440	.00005	.30329	182.04	.07016	.00076
#2	473.13	-.00650	.00367	.25966	183.51	.05777	.00076
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	481.89	.00741	.00403	-.02456	-.05142	.05155	1.0517
SDev	2.90	.00047	.00488	.00206	.03085	.02104	.0182
%RSD	.60232	6.4046	121.06	8.3742	59.997	40.819	1.7323
#1	479.84	.00775	.00058	-.02602	-.02960	.03667	1.0646
#2	483.94	.00708	.00748	-.02311	-.07323	.06643	1.0389
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01468	.00294	-.02052	-.01839	-.07221	-.00070	.02865
SDev	.00009	.00114	.02257	.04906	.00528	.00025	.00282
%RSD	.64631	38.800	109.99	266.80	7.3167	35.257	9.8631
#1	-.01461	.00375	-.03649	.01630	-.07595	-.00087	.03064
#2	-.01475	.00213	-.00456	-.05307	-.06847	-.00052	.02865
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.80000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.02070	.01549
SDev	.00398	.00321
%RSD	19.229	20.743
#1	-.01788	.01776
#2	-.02351	.01322
Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABF Operator: CSM
Run Time: 04/15/97 11:40:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	469.21	.91753	1.7193	.45662	.44307	.90810	.85557
SDev	.17	.01088	.0933	.00086	.00225	.00571	.00300
%RSD	.03523	1.1855	5.4241	.18922	.50731	.62847	.35068
#1	469.33	.92522	1.7852	.45723	.44466	.90406	.85769
#2	469.09	.90984	1.6534	.45601	.44148	.91214	.85345
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	465.36	.43715	.43665	H.68107	179.61	.98968	.97495
SDev	.52	.00037	.00257	.02469	.38	.00894	.00068
%RSD	.11249	.08563	.58906	3.6255	.21401	.90283	.06923
#1	465.73	.43689	.43847	H.69853	179.88	.99600	.97542
#2	464.99	.43742	.43483	H.66361	179.34	.98336	.97447
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	474.39	.44071	.88641	.83140	4.5544	.96021	L3.3631
SDev	.05	.00083	.00813	.00441	.0264	.03083	.0939
%RSD	.00967	.18822	.91771	.53018	.58060	3.2108	2.7929
#1	474.36	.44129	.89216	.82828	4.5358	.98201	L3.2967
#2	474.42	.44012	.88066	.83451	4.5731	.93841	L3.4295
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	600.00	.60000	1.2000	1.2000	6.0000	1.2000	6.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.87464	.91718	4.7159	.93351	.89162	.44317	.88677
SDev	.00167	.00236	.0000	.02002	.00821	.00024	.00224
%RSD	.19120	.25769	.00000	2.1441	.92052	.05530	.25247
#1	.87582	.91885	4.7159	.91936	.89742	.44300	.88836
#2	.87346	.91551	4.7159	.94766	.88582	.44334	.88519
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	1.2000	6.0000	1.2000	1.2000	.60000	1.2000
Low	.80000	.80000	4.0000	.80000	.80000	.40000	.80000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.87913	.92186
SDev	.00819	.00819
%RSD	.93174	.88818
#1	.87334	.92765
#2	.88493	.91607
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 11:44:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.387	1.9841	2.0025	1.9922	1.9697	1.8865	1.9737
SDev	.254	.0091	.0296	.0073	.0063	.0131	.0048
%RSD	.50315	.45973	1.4795	.36431	.31741	.69307	.24168
#1	50.208	1.9776	1.9816	1.9870	1.9653	1.8772	1.9703
#2	50.566	1.9905	2.0235	1.9973	1.9742	1.8957	1.9771
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.142	1.9853	1.9405	2.0745	41.770	1.9772	1.9859
SDev	.246	.0261	.0255	.0072	.126	.0275	.0101
%RSD	.47264	1.3166	1.3151	.34938	.30208	1.3920	.50976
#1	51.968	1.9668	1.9225	2.0694	41.680	1.9578	1.9787
#2	52.317	2.0037	1.9586	2.0797	41.859	1.9967	1.9930
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.010	1.9697	1.9874	1.9550	40.730	2.0370	2.1659
SDev	.133	.0078	.0114	.0062	.020	.0460	.0423
%RSD	.32493	.39827	.57289	.31919	.04870	2.2574	1.9548
#1	40.916	1.9641	1.9793	1.9506	40.716	2.0045	2.1360
#2	41.104	1.9752	1.9954	1.9594	40.744	2.0695	2.1959
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9674	1.9732	49.359	1.9707	1.9534	1.9620	1.9842
SDev	.0085	.0107	.255	.0152	.0094	.0111	.0074
%RSD	.42969	.54300	.51616	.76883	.48196	.56788	.37308
#1	1.9614	1.9657	49.179	1.9600	1.9467	1.9541	1.9789
#2	1.9734	1.9808	49.539	1.9814	1.9601	1.9699	1.9894
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	1.9720	2.0388					
SDev	.0084	.0009					
%RSD	.42371	.04395					
#1	1.9779	2.0382					
#2	1.9661	2.0395					
Errors	QC Pass	QC Pass					
Value	2.0000	2.0000					
Range	10.000	10.000					

Method: ICP97 Sample Name: CCB Operator: CSM

Run Time: 04/15/97 11:48:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02236	-.00002	-.02171	.00024	.00041	-.00131	-.00066
SDev	.00886	.00046	.02307	.00000	.00026	.00321	.00062
%RSD	39.604	2721.1	106.31	.00000	64.406	245.95	93.616
#1	.02862	.00031	-.00539	.00024	.00059	.00096	-.00110
#2	.01610	-.00034	-.03802	.00024	.00022	-.00358	-.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01841	-.00194	-.00002	.01803	.01755	-.01263	-.00029
SDev	.00485	.00117	.00001	.00000	.00237	.00447	.00040
%RSD	26.370	60.691	37.786	.01745	13.493	35.403	141.42
#1	.02184	-.00111	-.00001	.01803	.01922	-.01579	.00000
#2	.01497	-.00277	-.00002	.01803	.01587	-.00947	-.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02823	.00058	.00403	-.00075	-.01558	.01626	.12920
SDev	.00004	.00041	.00325	.00152	.01102	.01419	.03675
%RSD	.13778	70.477	80.809	203.13	70.711	87.276	28.441
#1	.02820	.00088	.00173	.00033	-.02337	.00623	.15518
#2	.02825	.00029	.00633	-.00183	-.00779	.02629	.10322
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00044	.02736	.04215	.01493	-.00154	-.00090
SDev	.00000	.00209	.01290	.03366	.00411	.00057	.00117
%RSD	.04753	475.83	47.141	79.864	27.532	36.667	130.86
#1	.00040	-.00104	.01824	.01835	.01202	-.00194	-.00007
#2	.00040	.00192	.03649	.06595	.01783	-.00114	-.00172
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm

Avge	.00854	.00236
SDev	.00406	.00141
%RSD	47.528	59.995
#1	.00567	.00136
#2	.01141	.00336
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Avge	.01435	-.00666
SDev	.00406	.00016
%RSD	28.313	2.4274
#1	.01148	-.00655
#2	.01723	-.00678
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: PBS4497 Operator: CSM
Run Time: 04/15/97 10:41:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01883	L-.00653	L-.01880	L.00049	L.00017	L-.00545	L-.00044
SDev	.00127	.00089	.01967	.00000	.00004	.00265	.00062
%RSD	6.7339	13.614	104.66	.00000	22.414	48.614	140.53
#1	L.01794	L-.00590	L-.03271	L.00049	L.00014	L-.00358	L-.00000
#2	L.01973	L-.00716	L-.00489	L.00049	L.00020	L-.00732	L-.00088
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02013	L.00331	L-.00004	L.00360	L.00980	L.00945	L.00038
SDev	.00000	.00468	.00000	.00000	.00045	.00000	.00027
%RSD	.01115	141.37	8.1732	.01041	4.6260	.04633	70.711
#1	L.02013	L.00000	L-.00004	L.00360	L.00948	L.00945	L.00019
#2	L.02013	L.00662	L-.00004	L.00360	L.01012	L.00945	L.00057
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01401	L.00058	L.00230	L.00077	L.02805	L.00380	L.05514
SDev	.00237	.00041	.00081	.00165	.00220	.01908	.01051
%RSD	16.936	70.675	35.306	213.62	7.8567	501.56	19.064
#1	L.01569	L.00029	L.00287	L-.00040	L.02649	L.01730	L.06257
#2	L.01233	L.00088	L.00173	L.00194	L.02960	L-.00969	L.04771
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00034	L.00174	L.01368	L.03398	L.00873	L-.00115	L-.00140
SDev	.00024	.00088	.00000	.00486	.00471	.00001	.00038
%RSD	70.873	50.840	.00000	14.291	53.910	.54678	27.460
#1	L.00017	L.00111	L.01368	L.03742	L.01206	L-.00116	L-.00167
#2	L.00051	L.00236	L.01368	L.03055	L.00540	L-.00115	L-.00113
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01718	L-.00306
SDev	.00004	.00485
%RSD	.23702	158.37
#1	L.01721	L-.00649
#2	L.01715	L.00037
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: LCSS4614 Operator: CSM
Run Time: 04/15/97 10:45:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	39.912	.47882	.93342	.87598	.87796	1.0652	1.0022
SDev	.239	.00865	.00909	.00155	.00223	.0092	.0028
%RSD	.59774	1.8064	.97337	.17754	.25357	.86644	.28242
#1	39.743	.47270	.92699	.87488	.87639	1.0587	1.0042
#2	40.081	.48494	.93984	.87708	.87954	1.0718	1.0002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	43.024	.78109	.91354	1.0104	48.995	.84104	.96569
SDev	.248	.00897	.00002	.0029	.178	.02442	.00513
%RSD	.57744	1.1484	.00216	.28392	.36237	2.9034	.53114
#1	42.848	.77474	.91356	1.0083	48.870	.82378	.96206
#2	43.199	.78743	.91353	1.0124	49.121	.85831	.96932
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	16.659	1.2441	.93013	.98177	16.471	.99229	4.4379
SDev	.074	.0037	.00488	.00376	.035	.02545	.4281
%RSD	.44184	.29864	.52480	.38260	.21406	2.5648	9.6475
#1	16.607	1.2414	.92668	.98443	16.446	1.0103	4.1351
#2	16.711	1.2467	.93358	.97912	16.496	.97430	4.7406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0152	.55983	44.538	.97764	.60031	.79603	.90954
SDev	.0033	.00091	.287	.09810	.01586	.00334	.00587
%RSD	.32456	.16266	.64444	10.035	2.6414	.41987	.64555
#1	1.0129	.55919	44.335	.90827	.58910	.79367	.90538
#2	1.0176	.56048	44.741	1.0470	.61152	.79839	.91369
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.4063	1.0030
SDev	.0080	.0066
%RSD	.56724	.65900
#1	1.4007	.99830
#2	1.4120	1.0076
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-01A Operator: CSM
Run Time: 04/15/97 10:49:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24564	L.02690	.15032	.02346	L.00071	.12595	.00558
SDev	.00629	.02108	.01151	.00035	.00020	.00321	.00075
%RSD	2.5609	78.350	7.6595	1.4731	28.642	2.5488	13.381
#1	.24119	L.04181	.15846	.02370	L.00056	.12822	.00611
#2	.25009	L.01200	.14218	.02322	L.00085	.12368	.00506
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.34607	1.5570	.02634	74.808	24.148	3.7693	L.00067
SDev	.01332	.0031	.00001	.154	.103	.0246	.00068
%RSD	3.8497	.20163	.03687	.20555	.42770	.65373	101.02
#1	.35549	1.5547	.02633	74.914	24.221	3.7867	L.00019
#2	.33665	1.5592	.02635	74.697	24.075	3.7518	L.00115
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16259	.28152	.13516	1.2259	L.12777	L.02976	17.515
SDev	.00477	.00001	.00163	.0079	.02424	.00881	2.493
%RSD	2.9331	.00338	1.2053	.64061	18.971	29.605	14.231
#1	.15922	.28153	.13631	1.2314	L.14491	L.03598	15.753
#2	.16596	.28152	.13401	1.2203	L.11063	L.02353	19.278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00198	.02841	.62483	L.01275	.28697	L.00122	48.714
SDev	.00000	.00208	.01290	.04003	.02172	.00083	.165
%RSD	.02622	7.3218	2.0645	314.10	7.5696	68.281	.33905
#1	L.00198	.02988	.61571	L.04105	.30233	L.00063	48.830
#2	L.00198	.02694	.63395	L-.01556	.27161	L.00180	48.597
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.63242	.08982
SDev	.00374	.00856
%RSD	.59061	9.5295
#1	.63507	.09587
#2	.62978	.08376
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-02A Operator: CSM
Run Time: 04/15/97 10:53:43

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31668	L.02603	.31427	.03800	L.00030	L.03940	.00523
SDev	.01514	.00307	.00705	.00017	.00016	.00538	.00074
%RSD	4.7821	11.807	2.2420	.45473	53.279	13.649	14.230
#1	.30597	L.02386	.30928	.03812	L.00019	L.04320	L.00470
#2	.32739	L.02820	.31925	.03788	L.00042	L.03560	.00575
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46896	1.7393	.02944	78.300	26.343	4.1307	L.00105
SDev	.01514	.0078	.00002	.266	.115	.0113	.00014
%RSD	3.2292	.44774	.07718	.33973	.43551	.27278	12.856
#1	.45826	1.7338	.02946	78.112	26.262	4.1227	L.00115
#2	.47967	1.7448	.02943	78.488	26.424	4.1387	L.00095
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24178	.32523	.15701	1.4809	.23372	L.01418	46.436
SDev	.00963	.00208	.00325	.0098	.07272	.01224	6.704
%RSD	3.9820	.63971	2.0692	.65955	31.113	86.354	14.437
#1	.23497	.32376	.15471	1.4739	L.18230	L.00552	41.696
#2	.24859	.32670	.15931	1.4878	.28514	L.02283	51.176
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00243	.01986	.80270	L.04042	.35454	L.00199	54.736
SDev	.00016	.00005	.01935	.05149	.00876	.00085	.295
%RSD	6.6029	.26603	2.4106	127.39	2.4720	42.864	.53927
#1	L.00232	.01983	.78902	L.00401	.36073	L.00139	54.528
#2	L.00255	.01990	.81638	L.07683	.34834	L.00260	54.945
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.78238	.08762

SDev	.00766	.01379
%RSD	.97855	15.734
#1	.77696	.09736
#2	.78779	.07787
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-01A Operator: CSM
Run Time: 04/15/97 10:57:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04380	L.00317	L-.01530	L.00061	L-.00015	.18779	L-.00035
SDev	.00129	.00480	.00644	.00017	.00001	.02761	.00016
%RSD	2.9522	151.39	42.096	28.284	3.9310	14.702	44.270
#1	L.04288	L-.00022	L-.01986	L.00049	L-.00015	.16827	L-.00024
#2	L.04471	L.00656	L-.01075	L.00073	L-.00014	.20731	L-.00046
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.08566	.06040	L-.00010	.58679	.94249	L.01135	L-.00019
SDev	.00425	.00039	.00003	.04228	.00206	.00223	.00108
%RSD	4.9617	.64791	26.174	7.2056	.21843	19.612	565.69
#1	L.08866	.06067	L-.00008	.61669	.94103	L.00978	L.00057
#2	L.08265	.06012	L-.00011	.55689	.94394	L.01293	L-.00095
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02391	.01492	L.00978	.06770	L-.00312	L.01868	28.622
SDev	.00869	.00000	.00325	.00026	.01983	.01174	1.969
%RSD	36.353	.01184	33.273	.38094	636.40	62.853	6.8777
#1	L.03005	.01492	L.00748	.06789	L.01091	L.01038	30.014
#2	L.01776	.01492	.01208	.06752	L-.01714	L.02699	27.230
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	L.00034	L.00114	.53817	L.01857	L.02407	L-.00180	.40198
SDev	.00024	.00175	.00000	.04602	.00646	.00001	.00172
%RSD	71.359	154.39	.00000	247.83	26.825	.73434	.42924
#1	L.00051	L.00238	.53817	L.05111	L.01951	L-.00181	.40076
#2	L.00017	L-.00010	.53817	L-.01397	L.02864	L-.00179	.40320
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01847	L.00532
SDev	.01222	.00073
%RSD	66.176	13.692
#1	L.00983	L.00481
#2	.02711	L.00584
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-02A Operator: CSM
Run Time: 04/15/97 11:01:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.08218	L.00354	L-.01468	L.00061	L-.00013	.26735	L-.00089
SDev	.00254	.00351	.01563	.00052	.00002	.01734	.00124
%RSD	3.0936	99.299	106.52	84.853	12.269	6.4842	139.03
#1	L.08398	L.00602	L-.00362	L.00024	L-.00014	.25509	L-.00177
#2	L.08039	L.00105	L-.02573	L.00098	L-.00012	.27961	L-.00002
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.11181	.02152	L-.00006	.46001	.92806	.05539	L-.00134
SDev	.00607	.00000	.00000	.01166	.00363	.01117	.00027
%RSD	5.4286	.01544	4.2170	2.5347	.39055	20.163	20.203
#1	L.10752	.02152	L-.00006	.46826	.93063	.06329	L-.00115
#2	L.11610	.02151	L-.00006	.45177	.92550	L.04749	L-.00153
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01515	.01112	L.00833	.04027	L.02805	L.01176	10.384
SDev	.00628	.00041	.00163	.00320	.02865	.03229	.491
%RSD	41.473	3.7204	25.693	7.9484	102.14	274.53	4.7315
#1	L.01070	.01141	L.00748	.04254	L.00779	L.03460	10.732
#2	L.01959	.01083	L.00518	.03801	L.04830	L-.01107	10.037
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00034	.01039	.50169	L.04267	L.02286	L-.00094	.82634
SDev	.00008	.00238	.01290	.04811	.00820	.00137	.00241
%RSD	23.805	22.875	2.5713	112.76	35.882	145.45	.29117
#1	L.00028	L.00871	.51081	L.00865	L.01706	L-.00191	.82464
#2	L.00039	.01207	L.49257	L.07669	L.02866	L.00003	.82804
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01599	L.00723
SDev	.00003	.00250
%RSD	.16654	34.521
#1	L.01597	L.00546
#2	L.01601	L.00899
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-01A-A Operator: CSM
Run Time: 04/15/97 11:05:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.630	2.0098	2.1375	2.0342	1.8481	2.0051	1.9685
SDev	.071	.0160	.0066	.0059	.0083	.0103	.0016
%RSD	.13464	.79506	.30808	.28883	.44923	.51198	.08037
#1	52.680	1.9985	2.1328	2.0384	1.8540	2.0123	1.9673
#2	52.579	2.0211	2.1421	2.0301	1.8422	1.9978	1.9696
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	53.417	3.5040	1.9920	73.597	65.445	5.6248	2.1064
SDev	.066	.0070	.0255	.023	.159	.0074	.0065
%RSD	.12447	.20021	1.2777	.03176	.24250	.13213	.30757
#1	53.464	3.4991	2.0100	73.581	65.557	5.6301	2.1110
#2	53.370	3.5090	1.9740	73.614	65.332	5.6196	2.1018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	42.477	2.2676	2.1766	3.1289	42.425	2.0072	15.266
SDev	.066	.0029	.0024	.0083	.143	.0088	1.713
%RSD	.15632	.12732	.11186	.26451	.33761	.43753	11.223
#1	42.524	2.2696	2.1749	3.1348	42.526	2.0134	14.055
#2	42.430	2.2656	2.1783	3.1231	42.324	2.0010	16.478
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0306	1.9285	52.506	2.0297	2.2297	2.0215	48.600
SDev	.0044	.0008	.010	.0718	.0099	.0041	.012
%RSD	.21818	.04406	.01842	3.5399	.44617	.20180	.02418
#1	2.0338	1.9279	52.499	2.0805	2.2367	2.0244	48.592
#2	2.0275	1.9291	52.513	1.9789	2.2227	2.0186	48.608
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.6663	2.2117
SDev	.0282	.0164
%RSD	1.0580	.74042
#1	2.6863	2.2233
#2	2.6464	2.2001
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-061-01A-AD Operator: CSM
Run Time: 04/15/97 11:10:05
Comment:

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1938	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.886	1.9571	2.0764	1.9785	1.7883	1.9111	1.9046
SDev	.313	.0065	.0120	.0083	.0069	.0139	.0083
%RSD	.61508	.33000	.57841	.41923	.38852	.72981	.43543
#1	50.665	1.9526	2.0849	1.9726	1.7834	1.9210	1.8987
#2	51.107	1.9617	2.0679	1.9844	1.7932	1.9012	1.9105
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.688	3.4489	1.9128	74.476	64.288	5.5982	2.0362
SDev	.274	.0163	.0051	.509	.254	.0333	.0062
%RSD	.52996	.47326	.26636	.68303	.39460	.59519	.30493
#1	51.495	3.4374	1.9164	74.116	64.109	5.5746	2.0318
#2	51.882	3.4604	1.9092	74.836	64.468	5.6218	2.0406
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.030	2.2052	2.1087	3.0778	40.995	1.9815	15.756
SDev	.202	.0079	.0041	.0038	.099	.0470	1.270
%RSD	.49245	.35693	.19307	.12314	.24188	2.3717	8.0624
#1	40.887	2.1996	2.1058	3.0751	40.925	1.9483	14.858
#2	41.173	2.2108	2.1116	3.0804	41.065	2.0148	16.654
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9656	1.8290	51.054	1.9011	2.1560	1.9585	48.810
SDev	.0072	.0324	.393	.0095	.0135	.0034	.270
%RSD	.36854	1.7730	.77065	.50080	.62679	.17140	.55223
#1	1.9604	1.8061	50.775	1.8943	2.1656	1.9562	48.619
#2	1.9707	1.8520	51.332	1.9078	2.1464	1.9609	49.000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.5927	2.1166
SDev	.0052	.0172

%RSD	.19983	.81329
#1	2.5964	2.1044
#2	2.5891	2.1287
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-01A -A Operator: CSM
Run Time: 04/15/97 11:14:10
Comment:
Mode: CONC Corr. Factor: 1

CM 4/15/97

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.972	1.8908	1.8240	1.9250	1.7938	1.9754	1.8668
SDev	.256	.0070	.0480	.0045	.0061	.0282	.0049
%RSD	.51226	.36936	2.6302	.23339	.34040	1.4278	.26336
#1	49.791	1.8859	1.7900	1.9218	1.7895	1.9554	1.8634
#2	50.153	1.8958	1.8579	1.9282	1.7981	1.9953	1.8703
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.708	1.9837	1.9117	2.6952	41.471	1.8929	2.0048
SDev	.236	.0035	.0102	.0554	.132	.0017	.0101
%RSD	.46624	.17829	.53386	2.0565	.31851	.09057	.50495
#1	50.541	1.9862	1.9189	2.7343	41.378	1.8917	1.9976
#2	50.876	1.9812	1.9044	2.6560	41.565	1.8942	2.0119
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.280	1.9192	1.9563	1.9455	40.128	1.9289	9.3601
SDev	.222	.0083	.0081	.0010	.187	.0117	.4783
%RSD	.55105	.42995	.41596	.05149	.46675	.60781	5.1096
#1	40.123	1.9134	1.9505	1.9448	39.996	1.9372	9.6983
#2	40.437	1.9250	1.9620	1.9462	40.261	1.9206	9.0219
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9323	1.7888	49.909	1.8824	1.8290	1.9293	2.2645

SDev	.0043	.0190	.510	.0096	.0058	.0119	.0143
%RSD	.22478	1.0647	1.0210	.50912	.31890	.61540	.63176
#1	1.9292	1.7753	49.548	1.8756	1.8249	1.9209	2.2544
#2	1.9354	1.8023	50.269	1.8891	1.8331	1.9377	2.2746
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9413	1.9535
SDev	.0038	.0169
%RSD	.19704	.86765
#1	1.9386	1.9415
#2	1.9440	1.9655
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-064-01A-AD Operator: CSM
Run Time: 04/15/97 11:18:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.981	1.8489	1.8130	1.8882	1.7610	1.9697	1.8288
SDev	.087	.0120	.0140	.0033	.0052	.0079	.0020
%RSD	.17781	.64660	.77161	.17388	.29439	.39881	.10953
#1	48.920	1.8574	1.8031	1.8905	1.7647	1.9641	1.8303
#2	49.043	1.8405	1.8229	1.8859	1.7574	1.9752	1.8274
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.705	1.9443	1.8576	2.3970	40.660	1.8899	1.9602
SDev	.047	.0086	.0204	.0182	.053	.0082	.0030
%RSD	.09483	.44215	1.0996	.75975	.13041	.43166	.15149
#1	49.739	1.9504	1.8721	2.4099	40.697	1.8842	1.9581
#2	49.672	1.9382	1.8432	2.3841	40.622	1.8957	1.9623
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	39.446	1.8804	1.9045	1.8991	39.265	1.8832	5.1182
SDev	.062	.0037	.0065	.0118	.002	.0157	.0817
%RSD	.15767	.19766	.34159	.62151	.00561	.83218	1.5968
#1	39.402	1.8830	1.8999	1.9074	39.264	1.8721	5.0604
#2	39.490	1.8777	1.9091	1.8907	39.267	1.8942	5.1759
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8891	1.7563	48.917	1.8917	1.7921	1.8863	2.2242
SDev	.0035	.0173	.255	.0188	.0205	.0016	.0030
%RSD	.18338	.98562	.52083	.99169	1.1460	.08676	.13628
#1	1.8915	1.7441	48.737	1.9049	1.8067	1.8875	2.2263
#2	1.8866	1.7685	49.097	1.8784	1.7776	1.8852	2.2220
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.8916	1.9152
SDev	.0123	.0008
%RSD	.65163	.04112
#1	1.8829	1.9158
#2	1.9003	1.9147
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 11:22:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.371	1.9600	1.9715	1.9835	1.9513	1.9297	1.9546
SDev	.238	.0013	.0066	.0112	.0103	.0004	.0117
%RSD	.47267	.06527	.33349	.56628	.52643	.02026	.59924
#1	50.540	1.9591	1.9761	1.9914	1.9585	1.9300	1.9629
#2	50.203	1.9609	1.9668	1.9756	1.9440	1.9294	1.9463
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.957	1.9717	1.9405	Q2.7173	41.526	1.9805	1.9906
SDev	.224	.0024	.0204	.1115	.175	.0171	.0124
%RSD	.43192	.12058	1.0513	4.1026	.42156	.86138	.62383
#1	52.115	1.9700	1.9261	Q2.7961	41.650	1.9926	1.9993
#2	51.798	1.9733	1.9549	Q2.6384	41.402	1.9685	1.9818
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.815	1.9580	1.9690	1.9436	40.837	2.0204	Q2.8799
SDev	.210	.0087	.0081	.0111	.379	.0206	.0265
%RSD	.51501	.44309	.41293	.57153	.92809	1.0193	.92018
#1	40.964	1.9642	1.9747	1.9514	41.105	2.0349	Q2.8987
#2	40.667	1.9519	1.9632	1.9357	40.569	2.0058	Q2.8612
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9516	2.0440	49.831	1.9405	1.9670	1.9556	2.0116
SDev	.0081	.0387	.400	.0966	.0146	.0193	.0137
%RSD	.41670	1.8954	.80249	4.9761	.74470	.98739	.68065
#1	1.9573	2.0714	50.114	2.0088	1.9567	1.9693	2.0213
#2	1.9458	2.0166	49.548	1.8722	1.9774	1.9420	2.0019
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9884	2.0683
SDev	.0004	.0058
%RSD	.02171	.27890
#1	1.9881	2.0643
#2	1.9887	2.0724
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: CSM
Run Time: 04/15/97 11:26:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00987	.01016	-.02045	.00024	.00040	.01345	-.00044
SDev	.01897	.00265	.00095	.00035	.00025	.00546	.00031
%RSD	192.18	26.064	4.6618	141.42	63.913	40.577	70.389
#1	.02328	.01203	-.01977	.00049	.00057	.01731	-.00022
#2	-.00354	.00829	-.02112	.00000	.00022	.00959	-.00066
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01499	.00220	-.00002	H.06596	.00738	-.01100	-.00057
SDev	.01333	.00156	.00001	.00656	.00181	.00222	.00081
%RSD	88.979	70.987	44.690	9.9427	24.599	20.175	141.42
#1	.02442	.00109	-.00002	H.07060	.00866	-.00943	.00000
#2	.00556	.00330	-.00001	H.06132	.00610	-.01257	-.00115
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01059	.00059	.00173	-.00376	-.02181	-.00000	.33954
SDev	.00255	.00041	.00163	.00047	.05068	.01370	.07155
%RSD	24.117	70.219	94.311	12.380	232.34	1454400.	21.073
#1	.00878	.00030	.00057	-.00343	.01402	.00969	.39013
#2	.01239	.00088	.00288	-.00409	-.05765	-.00969	.28895
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00381	.03193	.02394	.01493	-.00116	.00144
SDev	.00016	.00091	.00645	.01728	.01234	.00002	.00076
%RSD	40.335	23.792	20.203	72.196	82.611	1.3166	52.802
#1	.00051	.00446	.03649	.03616	.02366	-.00117	.00198
#2	.00028	.00317	.02736	.01172	.00621	-.00115	.00091
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.00848	.00087
SDev	.00406	.00252
%RSD	47.902	289.35

#1	.01138	-.00091
#2	.00561	.00265

Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

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Method: ICP97 Sample Name: 97-04-064-02A Operator: CSM
Run Time: 04/15/97 11:31:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.08040	L.00167	L-.01996	L.00110	L.00027	.26026	L-.00023
SDev	.01010	.00877	.00876	.00017	.00003	.00072	.00031
%RSD	12.557	525.37	43.907	15.713	10.417	.27754	132.74
#1	L.08754	L.00787	L-.01376	L.00098	L.00029	.25975	L-.00045
#2	L.07326	L-.00453	L-.02616	L.00122	L.00025	.26077	L-.00001
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.10753	.02235	L-.00005	.37910	.92125	.06640	L.00076
SDev	.00001	.00274	.00001	.00219	.00101	.00892	.00027
%RSD	.01037	12.244	11.730	.57659	.11001	13.440	35.355
#1	L.10754	.02042	L-.00006	.38065	.92053	.06009	L.00057
#2	L.10752	.02429	L-.00005	.37756	.92197	.07271	L.00095
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02577	.01199	L.00403	.03778	L.01870	L.00588	1.9921
SDev	.00134	.00083	.00162	.00107	.01983	.00147	.2144
%RSD	5.2082	6.8650	40.346	2.8344	106.07	24.968	10.761
#1	L.02672	.01141	L.00288	.03702	L.00467	L.00484	1.8405
#2	L.02482	.01257	L.00518	.03854	L.03272	L.00692	2.1437
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00051	.01501	.52677	L.07262	L.01373	L-.00076	.81830
SDev	.00016	.00119	.01613	.05380	.00938	.00163	.00472
%RSD	31.686	7.9041	3.0611	74.089	68.273	216.36	.57683
#1	L.00039	.01417	.51537	L.11066	L.02036	L.00040	.81496
#2	L.00062	.01585	.53817	L.03457	L.00710	L-.00191	.82164
Errors	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Units	ppm	ppm
Avge	L.01322	L.00996
SDev	.00405	.00412
%RSD	30.638	41.339
#1	L.01609	L.01287
#2	L.01036	L.00705
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ICSAF Operator: CSM
Run Time: 04/15/97 11:35:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	474.23	.01995	.06960	.00073	-.00007	.06758	-.00115
SDev	3.07	.00437	.03472	.00000	.00003	.00400	.00160
%RSD	.64831	21.891	49.882	.00000	38.341	5.9243	139.57
#1	472.06	.02304	.04505	.00073	-.00005	.06475	-.00228
#2	476.41	.01686	.09415	.00073	-.00009	.07041	-.00002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00800	-.00400	-.10000	-.01000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	471.41	-.00545	.00186	.28148	182.77	.06397	.00076
SDev	2.43	.00148	.00256	.03085	1.05	.00876	.00000
%RSD	.51608	27.184	137.73	10.961	.57207	13.691	.00000
#1	469.69	-.00440	.00005	.30329	182.04	.07016	.00076
#2	473.13	-.00650	.00367	.25966	183.51	.05777	.00076
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	481.89	.00741	.00403	-.02456	-.05142	.05155	1.0517
SDev	2.90	.00047	.00488	.00206	.03085	.02104	.0182
%RSD	.60232	6.4046	121.06	8.3742	59.997	40.819	1.7323
#1	479.84	.00775	.00058	-.02602	-.02960	.03667	1.0646
#2	483.94	.00708	.00748	-.02311	-.07323	.06643	1.0389
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01468	.00294	-.02052	-.01839	-.07221	-.00070	.02865
SDev	.00009	.00114	.02257	.04906	.00528	.00025	.00282
%RSD	.64631	38.800	109.99	266.80	7.3167	35.257	9.8631
#1	-.01461	.00375	-.03649	.01630	-.07595	-.00087	.03064
#2	-.01475	.00213	-.00456	-.05307	-.06847	-.00052	.02665
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.80000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.02070	.01549
SDev	.00398	.00321
%RSD	19.229	20.743
#1	-.01788	.01776
#2	-.02351	.01322
Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABF Operator: CSM
Run Time: 04/15/97 11:40:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	469.21	.91753	1.7193	.45662	.44307	.90810	.85557
SDev	.17	.01088	.0933	.00086	.00225	.00571	.00300
%RSD	.03523	1.1855	5.4241	.18922	.50731	.62847	.35068
#1	469.33	.92522	1.7852	.45723	.44466	.90406	.85769
#2	469.09	.90984	1.6534	.45601	.44148	.91214	.85345
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	465.36	.43715	.43665	H.68107	179.61	.98968	.97495
SDev	.52	.00037	.00257	.02469	.38	.00894	.00068
%RSD	.11249	.08563	.58906	3.6255	.21401	.90283	.06923
#1	465.73	.43689	.43847	H.69853	179.88	.99600	.97542
#2	464.99	.43742	.43483	H.66361	179.34	.98336	.97447
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	474.39	.44071	.88641	.83140	4.5544	.96021	L3.3631
SDev	.05	.00083	.00813	.00441	.0264	.03083	.0939
%RSD	.00967	.18822	.91771	.53018	.58060	3.2108	2.7929
#1	474.36	.44129	.89216	.82828	4.5358	.98201	L3.2967
#2	474.42	.44012	.88066	.83451	4.5731	.93841	L3.4295
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	600.00	.60000	1.2000	1.2000	6.0000	1.2000	6.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.87464	.91718	4.7159	.93351	.89162	.44317	.88677
SDev	.00167	.00236	.0000	.02002	.00821	.00024	.00224
%RSD	.19120	.25769	.00000	2.1441	.92052	.05530	.25247
#1	.87582	.91885	4.7159	.91936	.89742	.44300	.88836
#2	.87346	.91551	4.7159	.94766	.88582	.44334	.88519
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	1.2000	6.0000	1.2000	1.2000	.80000	1.2000
Low	.80000	.80000	4.0000	.80000	.80000	.40000	.80000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.87913	.92186
SDev	.00819	.00819
%RSD	.93174	.88818
#1	.87334	.92765
#2	.88493	.91607
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 11:44:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.387	1.9841	2.0025	1.9922	1.9697	1.8865	1.9737
SDev	.254	.0091	.0296	.0073	.0063	.0131	.0048
%RSD	.50315	.45973	1.4795	.36431	.31741	.69307	.24168
#1	50.208	1.9776	1.9816	1.9870	1.9653	1.8772	1.9703
#2	50.566	1.9905	2.0235	1.9973	1.9742	1.8957	1.9771
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.142	1.9853	1.9405	2.0745	41.770	1.9772	1.9859
SDev	.246	.0261	.0255	.0072	.126	.0275	.0101
%RSD	.47264	1.3166	1.3151	.34938	.30208	1.3920	.50976
#1	51.968	1.9668	1.9225	2.0694	41.680	1.9578	1.9787
#2	52.317	2.0037	1.9586	2.0797	41.859	1.9967	1.9930
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.010	1.9697	1.9874	1.9550	40.730	2.0370	2.1659
SDev	.133	.0078	.0114	.0062	.020	.0460	.0423
%RSD	.32493	.39827	.57289	.31919	.04870	2.2574	1.9548
#1	40.916	1.9641	1.9793	1.9506	40.716	2.0045	2.1360
#2	41.104	1.9752	1.9954	1.9594	40.744	2.0695	2.1959
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9674	1.9732	49.359	1.9707	1.9534	1.9620	1.9642
SDev	.0085	.0107	.255	.0152	.0094	.0111	.0074
%RSD	.42969	.54300	.51616	.76883	.48196	.56788	.37308
#1	1.9614	1.9657	49.179	1.9600	1.9467	1.9541	1.9789
#2	1.9734	1.9808	49.539	1.9814	1.9601	1.9699	1.9894
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	1.9720	2.0388					
SDev	.0084	.0009					
%RSD	.42371	.04395					
#1	1.9779	2.0382					
#2	1.9661	2.0395					
Errors	QC Pass	QC Pass					
Value	2.0000	2.0000					
Range	10.000	10.000					

Method: ICP97 Sample Name: CCB Operator: CSM

Run Time: 04/15/97 11:48:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02236	-.00002	-.02171	.00024	.00041	-.00131	-.00066
SDev	.00886	.00046	.02307	.00000	.00026	.00321	.00062
%RSD	39.604	2721.1	106.31	.00000	64.406	245.95	93.616
#1	.02862	.00031	-.00539	.00024	.00059	.00096	-.00110
#2	.01610	-.00034	-.03802	.00024	.00022	-.00358	-.00022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01841	-.00194	-.00002	.01803	.01755	-.01263	-.00029
SDev	.00485	.00117	.00001	.00000	.00237	.00447	.00040
%RSD	26.370	60.691	37.786	.01745	13.493	35.403	141.42
#1	.02184	-.00111	-.00001	.01803	.01922	-.01579	.00000
#2	.01497	-.00277	-.00002	.01803	.01587	-.00947	-.00057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02823	.00058	.00403	-.00075	-.01558	.01626	.12920
SDev	.00004	.00041	.00325	.00152	.01102	.01419	.03675
%RSD	.13778	70.477	80.809	203.13	70.711	87.276	28.441
#1	.02820	.00088	.00173	.00033	-.02337	.00623	.15518
#2	.02825	.00029	.00633	-.00183	-.00779	.02629	.10322
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00044	.02736	.04215	.01493	-.00154	-.00090
SDev	.00000	.00209	.01290	.03366	.00411	.00057	.00117
%RSD	.04753	475.83	47.141	79.864	27.532	36.667	130.86
#1	.00040	-.00104	.01824	.01835	.01202	-.00194	-.00007
#2	.00040	.00192	.03649	.06595	.01783	-.00114	-.00172
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm

Avge	.00854	.00236
SDev	.00406	.00141
%RSD	47.528	59.995
#1	.00567	.00136
#2	.01141	.00336
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

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Method: ICP97 Sample Name: PBW4499 Operator: CSM
Run Time: 04/15/97 11:58:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.01332	L-.00654	L-.02855	L.00024	L.00022	.13989	L-.00110
SDev	.00381	.00436	.01116	.00000	.00003	.01156	.00000
%RSD	28.620	66.719	39.096	.00000	13.023	8.2615	.01886
#1	L-.01063	L-.00345	L-.02066	L.00024	L.00024	.13172	L-.00110
#2	L-.01602	L-.00962	L-.03645	L.00024	L.00020	.14806	L-.00110
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.01843	L.00246	L-.00005	.10409	L.00357	L-.00153	L-.00105
SDev	.01453	.00350	.00002	.00801	.00115	.01115	.00040
%RSD	78.831	142.34	36.072	7.6997	32.178	726.74	38.569
#1	L-.02871	L.00494	L-.00006	.10976	L.00438	L-.00942	L-.00076
#2	L-.00816	L-.00002	L-.00004	.09843	L.00275	L.00635	L-.00134
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01066	L.00088	L.00345	L-.00100	L-.00312	L.00899	.63931
SDev	.00488	.00000	.00244	.00079	.03746	.01174	.16834
%RSD	45.789	.03959	70.650	79.198	1202.1	130.58	26.331
#1	L.00721	L.00088	L.00173	L-.00156	L-.02960	L.01730	.52028
#2	L.01412	L.00088	L.00518	L-.00044	L.02337	L.00069	.75834
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00000	L.00279	L-.04561	L.05306	L.01991	L.00021	L.00686
SDev	.00008	.00180	.00000	.02777	.00057	.00137	.00076
%RSD	11292.	64.611	.00000	52.335	2.8517	646.20	11.049
#1	L.00006	L.00407	L-.04561	L.03343	L.02032	L.00118	L.00739
#2	L-.00006	L.00152	L-.04561	L.07270	L.01951	L-.00076	L.00632
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Units	ppm	ppm
Avge	.02271	L.00399
SDev	.00807	.00411
%RSD	35.538	103.14
#1	.02842	L.00690
#2	L.01700	L.00108
Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: BBLK0060 Operator: CSM
Run Time: 04/15/97 12:02:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01700	L-.00686	L-.01979	.10386	L-.00002	.13762	L-.00110
SDev	.00884	.00398	.00275	.00104	.00024	.00690	.00062
%RSD	51.987	58.025	13.903	.99827	1324.8	5.0154	56.198
#1	L.01075	L-.00967	L-.01784	.10313	L-.00019	.13274	L-.00066
#2	L.02325	L-.00404	L-.02173	.10459	L.00015	.14250	L-.00154
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.03256	L.00550	L-.00005	.06234	L.03006	L.00790	L-.00019
SDev	.00666	.00156	.00000	.00437	.00034	.02008	.00054
%RSD	20.462	28.431	6.9958	7.0136	1.1372	254.18	282.84
#1	L.03727	L.00439	L-.00005	.06544	L.03030	L-.00630	L-.00057
#2	L.02785	L.00660	L-.00006	.05925	L.02982	L.02210	L.00019
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01580	L.00117	L.00345	L.00052	L.14179	L.01211	1.0383
SDev	.00489	.00041	.00081	.00585	.02644	.00342	.1383
%RSD	30.962	35.191	23.609	1130.3	18.649	28.279	13.324
#1	L.01234	L.00088	L.00403	L-.00362	L.16049	L.00969	.94044
#2	L.01925	L.00146	L.00287	L.00465	L.12309	L.01453	1.1361
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00256	L.00152	258.14	L.05234	L.01786	L.00061	.04338
SDev	.00016	.00001	.80	.05737	.01412	.00027	.00039
%RSD	6.2986	.63456	.31108	109.62	79.024	45.031	.90408
#1	L.00245	L.00151	258.71	L.01177	L.00788	L.00042	.04311
#2	L.00268	L.00153	257.57	L.09291	L.02784	L.00080	.04366
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01707	L-.00213
SDev	.00001	.00359
%RSD	.03149	168.68
#1	L.01707	L.00041
#2	L.01706	L-.00466
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: BBLK0061 Operator: CSM
Run Time: 04/15/97 12:06:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01442	L-.00284	L-.02916	.15396	L.00007	.12156	L-.00068
SDev	.01518	.00352	.00647	.00000	.00021	.00185	.00124
%RSD	105.28	123.61	22.199	.00000	326.50	1.5185	182.68
#1	L.00368	L-.00533	L-.02458	.15396	L-.00009	.12025	L.00020
#2	L.02515	L-.00036	L-.03373	.15396	L.00022	.12287	L-.00155
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.03340	L.00411	L-.00008	.04532	L.08180	L.00948	L-.00134
SDev	.00061	.00038	.00001	.00364	.00035	.00892	.00054
%RSD	1.8195	9.2404	8.8103	8.0339	.42815	94.050	40.406
#1	L.03297	L.00438	L-.00009	.04790	L.08205	L.00318	L-.00095
#2	L.03383	L.00384	L-.00008	.04275	L.08156	L.01578	L-.00172
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01779	L.00146	L.00460	L-.00059	L.16516	L.00692	1.2255
SDev	.00230	.00000	.00244	.00033	.01102	.01762	.1163
%RSD	12.898	.05973	53.059	56.223	6.6708	254.65	9.4885
#1	L.01617	L.00146	L.00633	L-.00082	L.15737	L.01938	1.1433
#2	L.01941	L.00146	L.00288	L-.00035	L.17295	L-.00554	1.3077
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00376	L.00110	252.10	L.01104	L.01244	L-.00231	.04899
SDev	.00008	.00238	.15	.00482	.00056	.00112	.00198
%RSD	2.1441	216.51	.05756	43.661	4.5086	48.188	4.0402
#1	L.00382	L.00278	252.00	L.01445	L.01284	L-.00153	.04759
#2	L.00370	L-.00056	252.21	L.00763	L.01205	L-.00310	.05039
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02564	L.00749
SDev	.00401	.00789
%RSD	15.626	105.31
#1	.02847	L.01307
#2	.02281	L.00191
Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: BBLK0062 Operator: CSM
Run Time: 04/15/97 12:10:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01259	L-.01089	L-.02512	.14076	L.00003	.11515	L-.00138
SDev	.01516	.00435	.01283	.00035	.00033	.00803	.00155
%RSD	120.37	39.983	51.065	.24552	988.20	6.9700	111.96
#1	L.00187	L-.01397	L-.03419	.14101	L-.00020	.10947	L-.00248
#2	L.02331	L-.00781	L-.01605	.14052	L.00027	.12082	L-.00029
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00

Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.03126	L-.00000	L-.00006	.03188	.28204	L-.00475	L.00010
SDev	.00000	.00079	.00000	.00219	.00000	.00669	.00014
%RSD	.00684	50149.	6.0671	6.8574	.00081	140.91	141.42
#1	L.03126	L.00055	L-.00006	.03343	.28204	L-.00948	L.00000
#2	L.03126	L-.00056	L-.00005	.03033	.28204	L-.00002	L.00019
Errors	LC Low	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00625	L.00088	L.00345	L-.00467	L.15893	L.00865	1.3197
SDev	.00106	.00082	.00081	.00419	.01102	.01028	.1013
%RSD	17.017	94.025	23.498	89.833	6.9324	118.87	7.6735
#1	L.00701	L.00029	L.00402	L-.00170	L.15114	L.00138	1.2481
#2	L.00550	L.00146	L.00288	L-.00763	L.16672	L.01592	1.3913
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00353	L.00067	255.22	L.01116	L.00331	L-.00195	.03765
SDev	.00008	.00058	1.55	.04911	.00647	.00001	.00077
%RSD	2.2818	85.935	.60652	440.16	195.54	.33601	2.0458
#1	L.00359	L.00026	256.32	L-.02357	L.00788	L-.00194	.03819
#2	L.00348	L.00108	254.13	L.04588	L-.00127	L-.00195	.03710
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01711	L.00362
SDev	.00004	.00749
%RSD	.24532	207.06
#1	L.01714	L-.00168
#2	L.01708	L.00892
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: LCSW4616 Operator: CSM

Run Time: 04/15/97 12:14:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.285	.96599	.95434	.93585	.93780	.92674	.94531
SDev	.116	.00342	.00487	.00328	.00249	.01472	.00417
%RSD	.47860	.35402	.50993	.35083	.26568	1.5888	.44059
#1	24.203	.96841	.95090	.93353	.93604	.91633	.94237
#2	24.367	.96357	.95778	.93817	.93956	.93715	.94826
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.132	.96504	.97390	.96074	20.935	.96237	.94717
SDev	.059	.00585	.01274	.00217	.070	.00703	.00513
%RSD	.23361	.60668	1.3080	.22544	.33585	.73042	.54151
#1	25.091	.96090	.96489	.95921	20.886	.95740	.94355
#2	25.174	.96918	.98291	.96227	20.985	.96734	.95080
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.698	.95009	.96463	.93823	19.349	.97620	1.8254
SDev	.046	.00413	.00650	.00498	.020	.00098	.1297
%RSD	.23453	.43433	.67427	.53057	.10249	.10046	7.1075
#1	19.666	.94717	.96923	.93471	19.335	.97690	1.7337
#2	19.731	.95301	.96003	.94175	19.363	.97551	1.9172
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94522	.94784	23.385	.96842	.94044	.94221	.95098
SDev	.00258	.00448	.048	.07379	.01057	.00300	.00114
%RSD	.27264	.47296	.20685	7.6199	1.1244	.31815	.12011
#1	.94339	.94467	23.351	.91624	.94792	.94009	.95017
#2	.94704	.95101	23.420	1.0206	.93298	.94433	.95178
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm

Avge	.97307	.98265
SDev	.00794	.00562
%RSD	.81637	.57209
#1	.96745	.97868
#2	.97868	.98663
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-01A Operator: CSM
Run Time: 04/15/97 12:18:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01878	L-.00518	L-.01957	.26588	L.00003	.10788	.05144
SDev	.00631	.00778	.00379	.00138	.00025	.00466	.00124
%RSD	33.607	150.17	19.382	.51993	765.35	4.3148	2.4124
#1	L.01432	L.00032	L-.01688	.26491	L.00021	.10459	.05231
#2	L.02325	L-.01068	L-.02225	.26686	L-.00015	.11117	.05056
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	110.47	.04908	L-.00077	.09717	1.0201	L-.00308	L.00019
SDev	.42	.00078	.00002	.00146	.0022	.01337	.00108
%RSD	.38012	1.5835	2.1177	1.5035	.21220	434.20	565.69
#1	110.17	.04853	L-.00076	.09820	1.0186	L-.01254	L.00095
#2	110.77	.04963	L-.00079	.09614	1.0216	L.00638	L-.00057
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.1740	.21157	L.00172	1.5912	.83205	L-.00888	2.5830
SDev	.0275	.00082	.00163	.0151	.02424	.01174	.1252
%RSD	.86487	.39008	94.375	.94590	2.9132	132.16	4.8485
#1	3.1546	.21098	L.00057	1.5805	.84919	L-.01719	2.4945
#2	3.1934	.21215	L.00287	1.6018	.81491	L-.00058	2.6716
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23929	L-.00001	268.02	L.02663	L.01286	L-.00048	24.386
SDev	.00119	.00090	.96	.07252	.00235	.00029	.118
%RSD	.49842	10331.	.35738	272.36	18.308	58.854	.48462
#1	.23845	L-.00065	267.34	L.07791	L.01119	L-.00069	24.303
#2	.24014	L.00063	268.69	L-.02465	L.01452	L-.00028	24.470
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00904	L.00401
SDev	.00397	.00257
%RSD	43.916	64.080
#1	L.00623	L.00219
#2	L.01185	L.00583
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-01A-S Operator: CSM
Run Time: 04/15/97 12:22:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02328	L-.01677	4.5167	23.238	L.00108	.09994	.93163
SDev	.01016	.00808	.0234	.162	.00039	.00225	.00851
%RSD	43.665	48.190	.51875	.69825	36.051	2.2486	.91339
#1	L.01609	L-.02248	4.5333	23.353	L.00080	.09835	.93765
#2	L.03046	L-.01105	4.5002	23.123	L.00135	.10153	.92562
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	106.61	4.5501	L-.00574	.08905	.47335	4.4999	L-.00029
SDev	.84	.0495	.00004	.00000	.00600	.0380	.00040
%RSD	.79122	1.0886	.68651	.00007	1.2678	.84475	141.42
#1	107.20	4.5851	L-.00577	.08905	.47759	4.5267	L.00000
#2	106.01	4.5151	L-.00571	.08905	.46911	4.4730	L-.00057
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.0397	.20281	L.00119	1.5302	.83205	.93170	2.5461
SDev	.0146	.00083	.00081	.0154	.01542	.01617	.1156
%RSD	.48027	.40714	68.071	1.0084	1.8538	1.7351	4.5421
#1	3.0500	.20340	L.00176	1.5411	.84295	.94313	2.4643
#2	3.0294	.20223	L.00062	1.5193	.82114	.92027	2.6279
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23078	4.3198	259.63	L-.00175	L.01310	L-.00245	23.589
SDev	.00182	.0307	1.76	.04549	.00698	.00178	.110
%RSD	.78907	.71081	.67944	2607.0	53.263	72.523	.46772
#1	.23207	4.3415	260.88	L.03042	L.00817	L-.00119	23.667
#2	.22949	4.2981	258.39	L-.03391	L.01804	L-.00370	23.511
Errors	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00883	.13490
SDev	.00406	.01396
%RSD	45.944	10.349
#1	L.00596	.12503
#2	L.01170	.14477
Errors	LC Low	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-01A-SD Operator: CSM
Run Time: 04/15/97 12:26:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01697	L-.02503	4.5951	23.981	L.00102	.09545	.94330
SDev	.00122	.00678	.0880	.106	.00032	.00473	.00356
%RSD	7.1656	27.104	1.9147	.44244	31.050	4.9607	.37742
#1	L.01611	L-.02023	4.6573	24.056	L.00080	.09211	.94582
#2	L.01783	L-.02982	4.5329	23.906	L.00125	.09880	.94079
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	106.90	4.5917	L-.00587	.08396	.18445	4.5599	L.00038
SDev	.20	.0281	.00004	.00145	.00127	.0468	.00054
%RSD	.18536	.61148	.70188	1.7314	.68726	1.0263	141.42
#1	107.04	4.6115	L-.00590	.08499	.18535	4.5268	L.00000
#2	106.76	4.5718	L-.00584	.08293	.18356	4.5930	L.00076
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.0651	.20223	L.00636	1.5406	.79465	.95179	2.5206
SDev	.0111	.00082	.00000	.0048	.02424	.00637	.1190
%RSD	.36087	.40816	.02757	.31009	3.0503	.66913	4.7203
#1	3.0729	.20281	L.00636	1.5372	.81179	.95629	2.4365
#2	3.0573	.20164	L.00636	1.5439	.77751	.94729	2.6047
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23168	4.3857	259.13	L.04401	L.01359	L-.00230	23.632
SDev	.00088	.0006	.52	.04584	.00878	.00049	.022
%RSD	.37937	.01432	.20037	104.17	64.619	21.186	.09147
#1	.23230	4.3862	258.77	L.01159	L.01979	L-.00265	23.647
#2	.23106	4.3853	259.50	L.07643	L.00738	L-.00196	23.617
Errors	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00599	.12827
SDev	.00813	.00582
%RSD	135.75	4.5368
#1	L.01173	.12415
#2	L.00024	.13238
Errors	LC Low	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-02A Operator: CSM
Run Time: 04/15/97 12:30:59

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.06075	L.00290	L-.02530	.18585	L-.00014	.08558	L.00361
SDev	.00502	.01525	.00204	.00121	.00009	.00249	.00062
%RSD	8.2653	526.30	8.0681	.65085	67.869	2.9072	17.160
#1	L.05720	L-.00789	L-.02385	.18671	L-.00007	.08382	L.00405
#2	L.06430	L.01368	L-.02674	.18500	L-.00021	.08734	L.00317
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.622	.11141	L-.00024	L.01951	.29481	L-.00615	L.00239
SDev	.036	.00547	.00001	.00072	.00069	.01343	.00068
%RSD	.08800	4.9055	3.9911	3.7161	.23391	218.28	28.284
#1	40.597	.10754	L-.00023	L.01900	.29433	L-.01564	L.00191
#2	40.647	.11527	L-.00025	.02002	.29530	L.00334	L.00286
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.6644	.11308	L.00403	.31395	.89282	L-.00172	1.7164
SDev	.0147	.00041	.00325	.00244	.01322	.00930	.0582
%RSD	.16943	.36550	80.710	.77786	1.4809	539.98	3.3895
#1	8.6541	.11278	L.00173	.31568	.88347	L.00485	1.6753
#2	8.6748	.11337	L.00632	.31223	.90216	L-.00830	1.7576
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11406	L.00249	247.70	L.08494	L.00994	L-.00088	4.2847
SDev	.00000	.00086	.76	.10472	.01002	.00113	.0008
%RSD	.00122	34.454	.30596	123.29	100.77	128.13	.01868
#1	.11406	L.00309	247.16	L.01089	L.00286	L-.00168	4.2841
#2	.11406	L.00188	248.23	L.15898	L.01703	L-.00008	4.2852
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01024	L.00651

SDev	.00411	.01154
%RSD	40.070	177.34
#1	L.00734	L.01467
#2	L.01315	L-.00165
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-03A Operator: CSM
Run Time: 04/15/97 12:35:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04380	L-.00640	L-.02766	.12366	L-.00004	.07803	.07502
SDev	.00121	.01045	.01291	.00069	.00026	.00128	.00031
%RSD	2.7722	163.20	46.667	.55897	709.10	1.6456	.41137
#1	L.04294	L-.01379	L-.01853	.12414	L-.00022	.07712	.07481
#2	L.04466	L.00099	L-.03679	.12317	L.00014	.07894	.07524
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	72.338	L.00630	L-.00068	.06020	.39266	L.00471	L.00210
SDev	.092	.00195	.00001	.00000	.00146	.00226	.00027
%RSD	.12735	30.968	1.2701	.00206	.37203	47.972	12.856
#1	72.403	L.00492	L-.00068	.06020	.39163	L.00311	L.00191
#2	72.273	L.00768	L-.00067	.06020	.39369	L.00631	L.00229
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.8290	.20042	L.00517	1.4780	1.9150	L-.00191	2.5920
SDev	.0088	.00000	.00488	.0019	.0308	.00587	.0578
%RSD	.15019	.00051	94.331	.13047	1.6110	306.85	2.2314
#1	5.8352	.20042	L.00172	1.4793	1.8931	L.00224	2.5511
#2	5.8228	.20042	L.00862	1.4766	1.9368	L-.00606	2.6329
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.452	1.9565	1.9764	1.9472	39.999	2.0342	1.9019
SDev	.156	.0058	.0155	.0140	.212	.0352	.0521
%RSD	.38613	.29544	.78215	.72135	.52886	1.7327	2.7411
#1	40.342	1.9524	1.9655	1.9373	39.849	2.0093	1.8650
#2	40.562	1.9606	1.9874	1.9571	40.149	2.0592	1.9387
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9450	1.9584	47.870	1.9119	1.9650	1.9362	1.9936
SDev	.0064	.0050	.232	.0054	.0012	.0062	.0074
%RSD	.33112	.25358	.48506	.27992	.06098	.31866	.36903
#1	1.9405	1.9549	47.706	1.9157	1.9658	1.9319	1.9884
#2	1.9496	1.9619	48.034	1.9081	1.9642	1.9406	1.9988
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	2.0070	2.0439
SDev	.0165	.0244
%RSD	.82437	1.1955
#1	2.0187	2.0266
#2	1.9953	2.0612
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: CSM
Run Time: 04/15/97 12:43:17
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02502	.00926	-.02580	.00098	.00093	-.02094	-.00077
SDev	.01013	.00044	.00102	.00035	.00006	.00401	.00077
%RSD	40.485	4.7232	3.9524	35.355	6.9478	19.163	100.41
#1	.03219	.00957	-.02652	.00122	.00088	-.01810	-.00022
#2	.01786	.00895	-.02508	.00073	.00098	-.02378	-.00132
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Avge	.10103	L.00204	252.22	L.08929	L.01704	L-.00093	38.732
SDev	.00040	.00148	.23	.02875	.00001	.00024	.055
%RSD	.39537	72.705	.08951	32.202	.04120	25.945	.14093
#1	.10131	L.00099	252.06	L.10962	L.01703	L-.00076	38.771
#2	.10074	L.00308	252.38	L.06896	L.01704	L-.00110	38.694
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01554	L-.00485
SDev	.00403	.00219
%RSD	25.957	45.123
#1	L.01839	L-.00330
#2	L.01269	L-.00640
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 12:39:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.757	1.9968	2.0011	2.0004	1.9583	1.8156	1.9726
SDev	.189	.0236	.0346	.0060	.0065	.0075	.0077
%RSD	.38000	1.1829	1.7312	.30234	.32949	.41551	.39005
#1	49.623	1.9801	1.9766	1.9961	1.9537	1.8103	1.9671
#2	49.890	2.0135	2.0256	2.0046	1.9628	1.8209	1.9780
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.837	1.9847	1.9585	1.9354	41.538	1.9640	1.9320
SDev	.202	.0089	.0000	.0073	.166	.0379	.0063
%RSD	.39039	.45082	.00153	.37459	.39857	1.9290	.32836
#1	51.694	1.9784	1.9585	1.9303	41.421	1.9372	1.9276
#2	51.981	1.9911	1.9585	1.9405	41.655	1.9908	1.9365
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03255	-.00028	-.00003	.00256	.01523	.00947	.00105
SDev	.00181	.00194	.00001	.00000	.00069	.00445	.00014
%RSD	5.5668	697.66	23.373	.09687	4.5186	47.030	12.856
#1	.03383	-.00165	-.00003	.00256	.01572	.01262	.00095
#2	.03127	.00110	-.00002	.00257	.01474	.00632	.00115
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02807	.00088	.00460	-.00067	.00000	-.00104	.00316
SDev	.00020	.00000	.00081	.00092	.01542	.03474	.03800
%RSD	.72276	.00297	17.628	137.57	.00000	3341.8	1202.4
#1	.02792	.00088	.00517	-.00133	.01091	.02353	.03003
#2	.02821	.00088	.00403	-.00002	-.01091	-.02561	-.02371
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	.00300	.09122	.06863	.01745	.00021	.00166
SDev	.00016	.00146	.00645	.04410	.00531	.00083	.00001
%RSD	25.754	48.746	7.0711	64.250	30.410	385.36	.58579
#1	.00074	.00197	.08666	.03745	.02121	-.00037	.00167
#2	.00051	.00403	.09578	.09981	.01370	.00080	.00166
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.01432	-.00427
SDev	.00410	.00841
%RSD	28.613	197.23
#1	.01722	-.01021
#2	.01142	.00168
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: 97-04-102-04A Operator: CSM
Run Time: 04/15/97 12:47:22
Comment:

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02330	L.00451	L-.01053	.28128	L.00018	.09097	.08586
SDev	.00758	.00078	.00413	.00104	.00001	.00369	.00062
%RSD	32.512	17.356	39.276	.36860	7.3260	4.0582	.72241
#1	L.01795	L.00507	L-.00760	.28055	L.00017	.08836	.08629
#2	L.02866	L.00396	L-.01345	.28201	L.00019	.09358	.08542
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	116.61	.02059	L-.00037	.11742	.32960	L.00164	L.00000
SDev	.35	.00273	.00001	.00073	.00160	.01563	.00162
%RSD	.30139	13.276	2.9487	.62181	.48457	951.07	.00000
#1	116.36	.02253	L-.00036	.11794	.32847	L.01270	L.00115
#2	116.86	.01866	L-.00038	.11690	.33073	L-.00941	L-.00115
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0220	.30143	L.00517	.73285	1.2637	L.01299	1.2826
SDev	.0374	.00165	.00163	.00825	.0132	.01125	.0837
%RSD	.74447	.54749	31.436	1.1261	1.0463	86.663	6.5247
#1	4.9956	.30027	L.00632	.72701	1.2543	L.02095	1.2234
#2	5.0485	.30260	L.00402	.73868	1.2730	L.00503	1.3417
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14068	L.00333	250.96	L.05472	L.01412	L-.00165	7.8539
SDev	.00039	.00148	.42	.01085	.00174	.00136	.0349
%RSD	.27674	44.477	.16706	19.822	12.343	82.168	.44476
#1	.14040	L.00438	250.66	L.06239	L.01289	L-.00262	7.8292
#2	.14095	L.00229	251.25	L.04705	L.01535	L-.00069	7.8786
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02097	L-.00162
SDev	.00397	.00213

%RSD	18.933	132.14
#1	L.01816	L-.00312
#2	.02378	L-.00011
Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-05A Operator: CSM
Run Time: 04/15/97 12:51:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00632	L.00554	L-.01071	.23876	L.00020	.10879	L.00008
SDev	.00123	.01443	.00101	.00104	.00003	.00369	.00046
%RSD	19.419	260.56	9.4095	.43425	13.422	3.3935	570.43
#1	L.00545	L-.00466	L-.01142	.23803	L.00022	.10618	L.00041
#2	L.00719	L.01574	L-.01000	.23949	L.00018	.11140	L-.00025
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	131.51	L.00444	L-.00007	L.01316	.99812	L.00633	L.00344
SDev	.40	.00156	.00000	.00219	.00068	.00449	.00108
%RSD	.30042	35.134	1.1727	16.615	.06793	70.920	31.427
#1	131.23	L.00334	L-.00007	L.01471	.99860	L.00316	L.00420
#2	131.78	L.00554	L-.00007	L.01162	.99764	L.00951	L.00267
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.2595	.10379	L.00172	L.00073	1.2621	L.00727	1.0841
SDev	.0472	.00041	.00163	.00004	.0110	.01027	.0875
%RSD	.75462	.39711	94.276	5.7320	.87297	141.40	8.0752
#1	6.2261	.10349	L.00057	L.00076	1.2699	L.00000	1.0222
#2	6.2929	.10408	L.00287	L.00070	1.2543	L.01453	1.1460
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.25056	L.00189	241.36	L.06340	L.01287	L-.00080	.16300

SDev	.00136	.00180	.17	.02977	.00119	.00111	.00001
%RSD	.54075	94.837	.07215	46.955	9.2055	138.95	.00579
#1	.24960	L.00062	241.24	L.04235	L.01203	L-.00159	.16299
#2	.25151	L.00316	241.48	L.08445	L.01371	L-.00001	.16301
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01443	L.00057
SDev	.00001	.00302
%RSD	.04906	533.46
#1	L.01443	L.00270
#2	L.01444	L-.00157
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-06A Operator: CSM
Run Time: 04/15/97 12:55:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02595	L.00057	L-.01820	.31720	L-.00004	.08779	L-.00035
SDev	.00136	.00133	.01290	.00173	.00022	.00546	.00015
%RSD	5.2355	232.85	70.875	.54477	558.59	6.2163	44.142
#1	L.02691	L.00151	L-.00908	.31843	L-.00020	.08393	L-.00024
#2	L.02498	L-.00037	L-.02731	.31598	L.00012	.09165	L-.00046
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	83.918	L.00416	L-.00008	L.00956	.96532	L.00473	L.00258
SDev	.157	.00040	.00003	.00145	.00467	.00669	.00014
%RSD	.18702	9.5154	32.455	15.187	.48378	141.42	5.2378
#1	84.028	L.00388	L-.00010	L.01059	.96863	L.00946	L.00267
#2	83.807	L.00444	L-.00006	L.00854	.96202	L.00000	L.00248
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	16.669	.08664	L.00460	L.00077	1.1203	L-.01557	1.1639
SDev	.039	.00041	.00244	.00066	.0308	.00049	.0974
%RSD	.23234	.47494	53.021	85.506	2.7537	3.1448	8.3722
#1	16.696	.08693	L.00287	L.00124	1.1421	L-.01522	1.0950
#2	16.641	.08635	L.00632	L.00031	1.0985	L-.01592	1.2328
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17051	L.00170	244.82	L.03779	L.01538	L-.00156	.14415
SDev	.00064	.00028	.12	.00476	.00821	.00112	.00117
%RSD	.37460	16.559	.05006	12.585	53.395	71.719	.80969
#1	.17096	L.00150	244.91	L.03442	L.02118	L-.00236	.14498
#2	.17006	L.00190	244.73	L.04115	L.00957	L-.00077	.14333
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01205	L-.00547
SDev	.01211	.00625
%RSD	100.46	114.23
#1	.02062	L-.00105
#2	L.00349	L-.00989
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-07A Operator: CSM
Run Time: 04/15/97 12:59:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02505	L-.00121	L-.02682	.44880	L.00025	.06980	L.00156
SDev	.00253	.00306	.00404	.00017	.00002	.00120	.00093
%RSD	10.083	252.79	15.059	.03850	9.3962	1.7246	59.465
#1	L.02683	L-.00337	L-.02397	.44892	L.00027	.06895	L.00222
#2	L.02326	L.00095	L-.02968	.44868	L.00023	.07065	L.00090
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	128.82	L.00494	L-.00011	.05548	.76211	L.03315	L.00191
SDev	.21	.00079	.00002	.00218	.00115	.01563	.00135
%RSD	.16651	15.924	14.545	3.9326	.15086	47.138	70.711
#1	128.97	L.00439	L-.00012	.05702	.76292	L.02210	L.00286
#2	128.67	L.00550	L-.00010	.05394	.76129	L.04420	L.00095
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.8648	.11581	L.00518	L.01160	.40823	L.00623	1.0708
SDev	.0161	.00083	.00163	.00079	.01102	.01272	.0821
%RSD	.41650	.71373	31.439	6.7998	2.6989	204.13	7.6680
#1	3.8534	.11639	L.00633	L.01216	.40044	L-.00276	1.0127
#2	3.8762	.11522	L.00403	L.01104	.41602	L.01523	1.1288
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13695	L.00297	233.54	L.04640	L.00748	L-.00116	.36981
SDev	.00015	.00147	.13	.02783	.00296	.00111	.00038
%RSD	.11160	49.572	.05662	59.986	39.499	95.727	.10355
#1	.13706	L.00193	233.64	L.06608	L.00539	L-.00037	.37008
#2	.13685	L.00401	233.45	L.02672	L.00958	L-.00194	.36954
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01398	L.00676
SDev	.00806	.00331
%RSD	57.642	48.921
#1	L.01968	L.00910
#2	L.00828	L.00442
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-08A Operator: CSM
Run Time: 04/15/97 13:03:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.03758	L-.00581	L-.02526	.75855	L.00020	.06214	.02270
SDev	.00254	.01226	.02141	.00795	.00001	.00514	.00063
%RSD	6.7506	211.17	84.751	1.0479	6.1819	8.2657	2.7549
#1	L.03938	L.00286	L-.04040	.76417	L.00019	.05851	.02226
#2	L.03579	L-.01447	L-.01012	.75293	L.00021	.06577	.02315
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	98.396	L-.00067	L-.00013	L.01665	3.7901	.07097	L.00210
SDev	.759	.00195	.00001	.00219	.0236	.00668	.00000
%RSD	.77100	290.41	7.5491	13.180	.62171	9.4065	.00000
#1	98.932	L-.00205	L-.00014	L.01510	3.8067	.06625	L.00210
#2	97.859	L.00071	L-.00012	L.01821	3.7734	.07569	L.00210
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.6444	.21036	L-.00000	L.00980	.42226	L.00593	1.3418
SDev	.0311	.00082	.00244	.00084	.02644	.02104	.0527
%RSD	.66901	.39227	114240.	8.5345	6.2622	354.73	3.9293
#1	4.6664	.21095	L.00172	L.01039	.44095	L.02081	1.3045
#2	4.6224	.20978	L-.00173	L.00921	.40356	L-.00895	1.3791
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17656	L.00269	238.58	L-.00726	L.00836	L-.00213	9.5586
SDev	.00174	.00031	2.29	.00671	.00059	.00054	.0554
%RSD	.98763	11.587	.96108	92.429	6.9980	25.579	.57943
#1	.17779	L.00291	240.20	L-.01201	L.00878	L-.00251	9.5978
#2	.17532	L.00247	236.96	L-.00252	L.00795	L-.00174	9.5195
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00873	L-.00010
SDev	.00404	.00171
%RSD	46.285	1678.3

#1	L.01158	L-.00131
#2	L.00587	L.00111

Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-09A Operator: CSM
Run Time: 04/15/97 13:07:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02778	L-.01520	L-.02154	.22251	L.00021	.06396	L.00083
SDev	.00127	.00176	.00640	.00190	.00008	.00433	.00186
%RSD	4.5672	11.571	29.710	.85427	38.030	6.7762	224.96
#1	L.02868	L-.01396	L-.01701	.22385	L.00027	.06089	L.00214
#2	L.02689	L-.01644	L-.02606	.22116	L.00015	.06702	L-.00049
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.049	L.00162	L-.00007	L.01077	.20018	L.00154	L.00210
SDev	.295	.00077	.00001	.00000	.00250	.01562	.00027
%RSD	.61418	47.575	10.104	.00928	1.2505	1013.3	12.856
#1	48.258	L.00216	L-.00007	L.01077	.20195	L.01259	L.00191
#2	47.840	L.00107	L-.00006	L.01077	.19841	L-.00950	L.00229
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.635	.17235	L.00345	L-.00014	.43005	L.01350	1.1909
SDev	.140	.00206	.00244	.00027	.01983	.00929	.0540
%RSD	.64553	1.1957	70.648	194.89	4.6116	68.858	4.5330
#1	21.734	.17381	L.00173	L-.00033	.41602	L.00692	1.1528
#2	21.537	.17089	L.00517	L.00005	.44407	L.02007	1.2291
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07370	L-.00063	239.38	L.02218	L.00996	L-.00289	.13466
SDev	.00055	.00001	.62	.04796	.00645	.00136	.00040

%RSD	.74993	1.5306	.25867	216.18	64.718	47.189	.29916
#1	.07409	L-.00064	239.82	L-.01173	L.01452	L-.00192	.13437
#2	.07331	L-.00062	238.94	L.05609	L.00540	L-.00385	.13494
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01550	L.00119
SDev	.00394	.01048
%RSD	25.456	884.12
#1	L.01828	L.00860
#2	L.01271	L-.00623
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-10A Operator: CSM
Run Time: 04/15/97 13:12:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19926	L.00059	L-.01973	.19000	L.00005	.05760	L-.00118
SDev	.00628	.01618	.00377	.00017	.00023	.00289	.00031
%RSD	3.1506	2749.0	19.090	.09095	456.59	5.0159	26.306
#1	.19482	L.01203	L-.01707	.19013	L-.00011	.05556	L-.00140
#2	.20370	L-.01086	L-.02239	.18988	L.00022	.05965	L-.00096
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.848	L.00198	L-.00009	L.00692	1.2191	L-.00171	L.00086
SDev	.049	.00039	.00000	.00073	.0014	.01119	.00121
%RSD	.20579	19.833	.38214	10.529	.11180	654.13	141.42
#1	23.882	L.00170	L-.00009	L.00744	1.2201	L.00620	L.00172
#2	23.813	L.00226	L-.00009	L.00641	1.2182	L-.00962	L.00000
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.1749	.04130	L.00115	L-.00087	.46121	L-.00519	1.4584

SDev	.0150	.00041	.00081	.00167	.01102	.01615	.0821
%RSD	.20952	.99804	70.518	193.04	2.3889	310.98	5.6298
#1	7.1856	.04159	L.00058	L-.00205	.45342	L.00622	1.4004
#2	7.1643	.04101	L.00173	L.00032	.46900	L-.01661	1.5165
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10030	L.00156	238.00	L.03690	L.01202	L-.00220	.05466
SDev	.00024	.00001	1.26	.01255	.00705	.00138	.00157
%RSD	.23919	.63924	.53117	34.009	58.594	62.806	2.8720
#1	.10047	L.00156	238.89	L.04578	L.00704	L-.00318	.05577
#2	.10013	L.00157	237.11	L.02803	L.01700	L-.00122	.05355
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02753	L.00580
SDev	.00003	.00428
%RSD	.09755	73.702
#1	.02751	L.00882
#2	.02755	L.00278
Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-11A Operator: CSM
Run Time: 04/15/97 13:16:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23044	L-.00077	L-.02164	.16398	L.00018	.06044	L-.00085
SDev	.00506	.00092	.00952	.00069	.00003	.00385	.00139
%RSD	2.1969	118.31	43.996	.42152	18.099	6.3739	162.99
#1	.22686	L-.00142	L-.01490	.16349	L.00021	.05772	L-.00184
#2	.23402	L-.00013	L-.02837	.16447	L.00016	.06316	L.00013
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	20.708	L.00634	L-.00012	L.01518	1.1861	L-.00646	L.00086
SDev	.179	.00429	.00001	.00073	.0082	.00447	.00014
%RSD	.86612	67.616	5.3318	4.8285	.68864	69.234	15.713
#1	20.581	L.00938	L-.00012	L.01570	1.1803	L-.00330	L.00076
#2	20.835	L.00331	L-.00013	L.01466	1.1918	L-.00962	L.00095
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.9808	.37909	L.00115	.10740	.34747	L.00761	2.2342
SDev	.0335	.00248	.00081	.00214	.00881	.00196	.0661
%RSD	.84137	.65320	70.853	1.9926	2.5367	25.758	2.9587
#1	3.9571	.37734	L.00057	.10589	.34123	L.00622	2.1874
#2	4.0045	.38085	L.00172	.10892	.35370	L.00900	2.2809
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01823	L.00216	238.21	L.03433	L.00996	L-.00038	.57596
SDev	.00007	.00091	2.06	.00281	.00528	.00001	.00235
%RSD	.40380	42.253	.86511	8.2009	52.989	1.8430	.40887
#1	L.01818	L.00152	236.75	L.03234	L.01369	L-.00038	.57430
#2	L.01828	L.00281	239.67	L.03632	L.00623	L-.00039	.57763
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02116	L-.00114
SDev	.00400	.00422
%RSD	18.914	370.36
#1	L.01833	L.00184
#2	.02399	L-.00412
Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-12A Operator: CSM
Run Time: 04/15/97 13:20:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265

Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.04381	L-.00330	L-.01928	.08565	L.00018	L.04727	L-.00181
SDev	.00126	.00133	.01733	.00017	.00001	.00449	.00062
%RSD	2.8821	40.180	89.883	.20175	3.6261	9.5073	34.058
#1	L.04470	L-.00424	L-.03153	.08578	L.00017	L.04410	L-.00225
#2	L.04291	L-.00236	L-.00702	.08553	L.00018	.05045	L-.00138
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.4737	L.00027	L-.00007	L.00561	.22713	L-.00003	L.00019
SDev	.0206	.00117	.00000	.00146	.00396	.00000	.00027
%RSD	.31824	426.67	.70997	25.978	1.7439	5.7203	141.42
#1	6.4591	L.00110	L-.00007	L.00458	.22433	L-.00003	L.00038
#2	6.4882	L-.00055	L-.00007	L.00664	.22993	L-.00003	L.00000
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9081	.03937	L.00402	.05674	.20100	L.02006	.93251
SDev	.0125	.00083	.00000	.00089	.02644	.00489	.05718
%RSD	.65319	2.0977	.00622	1.5620	13.155	24.381	6.1315
#1	1.8992	.03995	L.00402	.05611	L.18230	L.02352	.89208
#2	1.9169	.03878	L.00402	.05736	.21970	L.01660	.97294
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00870	L.00194	248.93	L.01842	L.00997	L-.00077	.22581
SDev	.00016	.00000	1.54	.07196	.00998	.00000	.00158
%RSD	1.8446	.15878	.61797	390.63	100.14	.40620	.69982
#1	L.00858	L.00194	250.02	L-.03246	L.01703	L-.00077	.22693
#2	L.00881	L.00194	247.84	L.06930	L.00291	L-.00077	.22469
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01597	L-.00229
SDev	.00001	.00081
%RSD	.07773	35.259

#1	L.01596	L-.00286
#2	L.01598	L-.00172

Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-13A Operator: CSM
Run Time: 04/15/97 13:24:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13579	L.00036	L-.02471	.22104	L.00021	.06748	L.00484
SDev	.00249	.00441	.00002	.00017	.00002	.00032	.00046
%RSD	1.8371	1230.3	.08162	.07818	10.612	.47578	9.5382
#1	.13403	L-.00276	L-.02469	.22092	L.00019	.06725	L.00451
#2	.13756	L.00348	L-.02472	.22116	L.00022	.06770	.00517
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.519	L.00204	L-.00008	.02104	.34019	L.00307	L.00296
SDev	.071	.00078	.00002	.00000	.00848	.00446	.00121
%RSD	.29159	38.182	18.894	.00632	2.4923	144.97	41.058
#1	24.468	L.00260	L-.00009	.02104	.33420	L.00623	L.00210
#2	24.569	L.00149	L-.00007	.02104	.34619	L-.00008	L.00382
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.3044	.94125	L.00229	L.00974	1.0408	L-.00691	3.5340
SDev	.0162	.00082	.00081	.00434	.0286	.01664	.0450
%RSD	.25771	.08767	35.530	44.583	2.7522	240.77	1.2745
#1	6.2929	.94066	L.00172	L.00667	1.0206	L.00485	3.5021
#2	6.3159	.94183	L.00287	L.01281	1.0611	L-.01867	3.5658
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04903	L.00243	242.40	L.03912	L.00415	L-.00026	.10052
SDev	.00000	.00271	1.16	.07659	.00647	.00054	.00041
%RSD	.00569	111.67	.47762	195.80	155.87	212.05	.40889

#1	.04903	L.00435	241.58	L-.01504	L.00872	L.00013	.10081
#2	.04903	L.00051	243.22	L.09327	L-.00042	L-.00064	.10023

Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02098	L.00172
SDev	.00815	.00286
%RSD	38.867	166.68
#1	.02674	L-.00031
#2	L.01521	L.00374

Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 13:28:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.976	2.0009	2.0138	1.9759	1.9819	1.8199	2.0070
SDev	.086	.0035	.0059	.0088	.0082	.0034	.0061
%RSD	.17162	.17254	.29525	.44602	.41325	.18521	.30637
#1	50.036	1.9984	2.0180	1.9822	1.9877	1.8175	2.0114
#2	49.915	2.0033	2.0096	1.9697	1.9761	1.8223	2.0027
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.244	2.0206	1.9585	1.9435	42.046	2.0239	1.9162
SDev	.121	.0051	.0000	.0058	.161	.0067	.0134
%RSD	.23083	.25058	.00186	.29758	.38389	.33311	.69734
#1	52.329	2.0242	1.9585	1.9476	42.161	2.0192	1.9257
#2	52.159	2.0170	1.9585	1.9394	41.932	2.0287	1.9068
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.613	1.9746	2.0052	1.9664	39.899	2.0900	Q1.6118
SDev	.067	.0058	.0057	.0128	.190	.0152	.0019

%RSD	.16568	.29272	.28393	.64849	.47495	.72640	.12096
#1	40.660	1.9787	2.0092	1.9754	40.033	2.1007	Q1.6132
#2	40.565	1.9705	2.0012	1.9574	39.765	2.0793	Q1.6104
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9648	1.9669	47.074	1.9731	1.9746	1.9468	2.0024
SDev	.0089	.0027	.190	.0822	.0217	.0058	.0005
%RSD	.45514	.13831	.40420	4.1676	1.0994	.29865	.02336
#1	1.9711	1.9688	47.209	2.0313	1.9900	1.9509	2.0020
#2	1.9585	1.9650	46.940	1.9150	1.9593	1.9427	2.0027
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	2.0065	2.0313					
SDev	.0160	.0027					
%RSD	.79666	.13151					
#1	2.0178	2.0332					
#2	1.9952	2.0294					
Errors	QC Pass	QC Pass					
Value	2.0000	2.0000					
Range	10.000	10.000					

Method: ICP97 Sample Name: CCB Operator: CSM
Run Time: 04/15/97 13:32:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03311	.00025	-.03016	.00061	.00097	-.02730	-.00154
SDev	.00378	.00087	.00234	.00052	.00002	.00530	.00031
%RSD	11.404	348.67	7.7475	84.853	2.1667	19.405	20.165
#1	.03579	-.00036	-.02851	.00098	.00098	-.02355	-.00175
#2	.03044	.00086	-.03182	.00024	.00095	-.03104	-.00132
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01927	.00330	-.00005	.00359	.01092	.01103	.00019

SDev	.01456	.00078	.00000	.00000	.00204	.00224	.00027
%RSD	75.546	23.543	.07754	.02577	18.674	20.280	141.42
#1	.02956	.00385	-.00005	.00359	.01237	.00945	.00000
#2	.00897	.00275	-.00005	.00359	.00948	.01262	.00038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02994	.00146	.00460	-.00196	-.00467	.00899	-.12196
SDev	.02248	.00082	.00244	.00026	.00000	.01957	.02972
%RSD	75.080	56.507	53.013	13.388	.00000	217.64	24.364
#1	.04583	.00204	.00288	-.00215	-.00467	.02283	-.10095
#2	.01404	.00088	.00632	-.00178	-.00467	-.00485	-.14298
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00063	.00554	.08209	.07686	.01246	-.00056	-.00278
SDev	.00032	.00089	.03225	.06528	.00177	.00136	.00000
%RSD	51.397	16.034	39.284	84.932	14.205	244.12	.10041
#1	.00085	.00617	.10490	.12303	.01121	.00041	-.00278
#2	.00040	.00491	.05929	.03070	.01371	-.00152	-.00278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02288	.00020
SDev	.00004	.00308
%RSD	.16358	1567.1
#1	.02285	.00237
#2	.02291	-.00198
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: 97-04-102-14A Operator: CSM
Run Time: 04/15/97 13:36:37
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm

Avge	L.03669	L.00347	L-.01617	.17375	L.00024	.06697	L.00390
SDev	.00837	.00087	.00236	.00138	.00003	.00233	.00018
%RSD	17.372	25.076	14.573	.79562	10.980	3.4756	4.0307
#1	L.04120	L.00285	L-.01450	.17278	L.00026	.06532	L.00401
#2	L.03218	L.00408	L-.01783	.17473	L.00022	.06861	L.00378
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	78.337	L.00517	L-.00008	.02006	2.3858	L.00473	L.00134
SDev	.388	.00352	.00002	.00072	.0089	.00224	.00027
%RSD	.49504	68.033	29.475	3.6133	.37442	47.403	20.203
#1	78.063	L.00268	L-.00009	.02057	2.3795	L.00315	L.00115
#2	78.611	L.00765	L-.00006	L.01955	2.3922	L.00632	L.00153
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.8280	1.2618	L.00229	L.01432	.78686	L.00139	1.2380
SDev	.0211	.0041	.00081	.00154	.03526	.00979	.0578
%RSD	.74586	.32711	35.565	10.742	4.4807	702.77	4.6727
#1	2.8131	1.2589	L.00287	L.01324	.76193	L-.00553	1.1971
#2	2.8429	1.2647	L.00171	L.01541	.81179	L.00831	1.2789
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07264	L-.00003	242.31	L.09223	L.00954	L-.00031	.08844
SDev	.00023	.00152	.03	.04042	.00234	.00056	.00000
%RSD	.31209	5687.6	.01331	43.825	24.524	179.37	.00506
#1	.07248	L.00105	242.33	L.12081	L.01119	L-.00071	.08844
#2	.07280	L-.00110	242.28	L.06365	L.00788	L.00008	.08844
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02109	L.00613
SDev	.01225	.00317
%RSD	58.082	51.792
#1	.02976	L.00837

#2	L.01243	L.00388

Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-15A Operator: CSM
Run Time: 04/15/97 13:40:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.05005	L-.00305	L-.02026	.26588	L.00022	.05590	L.00051
SDev	.00758	.00222	.02035	.00069	.00004	.00257	.00046
%RSD	15.138	72.951	100.45	.25997	18.802	4.5944	90.338
#1	L.04469	L-.00462	L-.03464	.26637	L.00025	.05408	L.00084
#2	L.05541	L-.00148	L-.00587	.26540	L.00019	.05772	L.00019
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	82.998	L.00129	L-.00007	L.00843	3.6775	L-.00319	L.00429
SDev	.165	.00312	.00002	.00073	.0026	.00445	.00068
%RSD	.19857	241.97	22.417	8.6115	.07037	139.60	15.713
#1	83.115	L.00350	L-.00006	L.00792	3.6794	L-.00634	L.00477
#2	82.882	L-.00092	L-.00008	L.00895	3.6757	L-.00004	L.00382
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.9626	.25058	L.00115	L.00835	1.0891	L.00554	.89795
SDev	.0036	.00000	.00081	.00079	.0308	.00098	.04662
%RSD	.04545	.00004	70.925	9.4691	2.8325	17.692	5.1920
#1	7.9600	.25058	L.00172	L.00779	1.0673	L.00623	.86499
#2	7.9651	.25058	L.00057	L.00891	1.1110	L.00484	.93092
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14045	L.00116	242.60	L.03299	L.00497	L-.00074	.17933
SDev	.00015	.00056	.55	.02207	.00527	.00191	.00079
%RSD	.11021	48.490	.22865	66.904	105.99	258.52	.43815

#1	.14056	L.00156	242.99	L.01738	L.00870	L-.00209	.17988
#2	.14034	L.00078	242.21	L.04860	L.00125	L.00081	.17877
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01053	L.00329
SDev	.00812	.00463
%RSD	77.097	140.53
#1	L.00479	L.00657
#2	L.01628	L.00002
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-16A Operator: CSM
Run Time: 04/15/97 13:44:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02052	L-.00778	L-.00960	.15714	L.00020	.06680	L-.00238
SDev	.00885	.00264	.02485	.00000	.00001	.00594	.00015
%RSD	43.146	33.860	258.87	.00000	5.1128	8.8914	6.5091
#1	L.02678	L-.00592	L-.02717	.15714	L.00019	.06260	L-.00227
#2	L.01426	L-.00965	L.00797	.15714	L.00020	.07100	L-.00249
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	143.12	L.00303	L-.00005	L.00816	.33006	L-.00002	L.00363
SDev	.11	.00039	.00002	.00073	.00010	.00000	.00054
%RSD	.07833	12.962	32.862	8.8882	.02986	22.540	14.886
#1	143.04	L.00275	L-.00006	L.00868	.33000	L-.00002	L.00401
#2	143.20	L.00331	L-.00004	L.00765	.33013	L-.00001	L.00325
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.9659	.03144	L.00345	L-.00178	.93956	L-.00416	.84217
SDev	.0124	.00041	.00081	.00001	.00441	.03034	.06294
%RSD	.31340	1.3134	23.575	.63287	.46906	729.79	7.4733

#1	3.9747	.03115	L.00288	L-.00177	.93644	L.01729	.79766
#2	3.9571	.03174	L.00403	L-.00179	.94268	L-.02561	.88667
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20833	L.00167	237.15	L.02824	L.01245	L.00176	.04539
SDev	.00032	.00087	1.42	.00957	.00763	.00137	.00000
%RSD	.15267	52.017	.59836	33.901	61.308	77.591	.00187
#1	.20810	L.00106	236.14	L.02147	L.01785	L.00273	.04539
#2	.20855	L.00228	238.15	L.03501	L.00705	L.00080	.04539
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01062	L.00085
SDev	.00812	.00082
%RSD	76.431	96.869
#1	L.01636	L.00027
#2	L.00488	L.00143
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-17A Operator: CSM
Run Time: 04/15/97 13:48:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02507	L-.00860	L-.01237	.26197	L.00019	L.03320	.00502
SDev	.01014	.00743	.00984	.00277	.00003	.00064	.00031
%RSD	40.451	86.401	79.515	1.0554	18.629	1.9340	6.1741
#1	L.03225	L-.00335	L-.00541	.26002	L.00017	L.03275	L.00480
#2	L.01790	L-.01386	L-.01932	.26393	L.00022	L.03365	.00524
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	64.977	L.00162	L-.00007	L.01441	L.05131	.26190	L.00888
SDev	.328	.00234	.00001	.00218	.00114	.00001	.00094

%RSD	.50452	144.77	14.523	15.155	2.2211	.00474	10.645
#1	64.745	L.00328	L-.00008	L.01596	L.05211	.26191	L.00954
#2	65.209	L-.00004	L-.00006	L.01287	L.05050	.26189	L.00821
Errors	LC Pass	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.2462	.07576	L-.00058	L.00951	.78686	L-.00622	.55549
SDev	.0412	.00041	.00000	.00124	.06170	.01272	.01152
%RSD	.65942	.54377	.25059	13.062	7.8412	204.62	2.0731
#1	6.2171	.07547	L-.00058	L.01039	.83049	L.00278	.56364
#2	6.2754	.07605	L-.00057	L.00863	.74323	L-.01521	.54735
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18601	L.00188	248.93	L.11642	L.01642	L-.00077	.94099
SDev	.00152	.00061	1.50	.05274	.00823	.00110	.00276
%RSD	.81647	32.676	.60242	45.303	50.134	141.65	.29287
#1	.18494	L.00231	247.87	L.15372	L.02224	L-.00155	.93904
#2	.18708	L.00144	249.99	L.07913	L.01060	L.00000	.94294
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01228	L-.00055
SDev	.00408	.00483
%RSD	33.230	871.11
#1	L.01516	L-.00397
#2	L.00939	L.00286
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-18A Operator: CSM
Run Time: 04/15/97 13:53:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01432	L-.00601	L-.01906	.33150	L-.00002	.06254	L.00185

SDev	.00002	.00917	.00577	.00363	.00024	.00441	.00015
%RSD	.13158	152.50	30.273	1.0947	1425.3	7.0582	8.3812
#1	L.01434	L.00047	L-.02314	.32893	L.00015	.05942	L.00174
#2	L.01431	L-.01250	L-.01498	.33407	L-.00019	.06566	L.00196
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	97.866	L.00186	L-.00009	.17882	L.04174	L.01583	L.00744
SDev	.883	.00039	.00002	.00145	.00091	.00002	.00081
%RSD	.90272	20.966	16.401	.81376	2.1873	.10579	10.879
#1	97.242	L.00213	L-.00010	.17985	L.04238	L.01584	L.00687
#2	98.491	L.00158	L-.00008	.17779	L.04109	L.01582	L.00802
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.5192	.14993	L.00517	.02818	.70272	L.01211	.56611
SDev	.0188	.00206	.00000	.00242	.01322	.02300	.06485
%RSD	.33976	1.3762	.02005	8.6002	1.8814	189.84	11.455
#1	5.5060	.14847	L.00517	.02647	.69337	L.02838	.52026
#2	5.5325	.15139	L.00517	.02990	.71207	L-.00415	.61197
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20422	L.00061	238.42	L.02368	L.01206	L-.00092	.56460
SDev	.00166	.00122	2.89	.03542	.00705	.00082	.00628
%RSD	.81200	199.48	1.2119	149.59	58.494	89.145	1.1118
#1	.20305	L.00148	236.38	L-.00137	L.01704	L-.00034	.56016
#2	.20539	L-.00025	240.47	L.04872	L.00707	L-.00151	.56904
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	L.01287	L-.00244					
SDev	.00818	.00353					
%RSD	63.548	144.36					
#1	L.01866	L-.00494					
#2	L.00709	L.00005					

Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ICSAF Operator: CSM
Run Time: 04/15/97 13:57:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	467.39	.02271	.17857	.00122	.00030	-.01214	-.00414
SDev	.67	.01794	.05318	.00035	.00001	.00554	.00127
%RSD	.14291	79.023	29.781	28.284	3.4638	45.599	30.614
#1	467.87	.01002	.21617	.00098	.00029	-.01606	-.00324
#2	466.92	.03540	.14096	.00147	.00031	-.00823	-.00504
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00800	-.00400	-.10000	-.01000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	472.54	-.00031	.00005	-.02200	184.71	.07328	.00134
SDev	1.28	.00160	.00001	.00012	.50	.00495	.00000
%RSD	.27146	509.43	10.926	.52698	.27212	6.7502	.00000
#1	473.45	.00082	.00005	-.02209	185.06	.06978	.00134
#2	471.63	-.00144	.00005	-.02192	184.35	.07678	.00134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	476.19	.00780	-.00115	-.02611	.02026	.03251	.18907
SDev	1.09	.00002	.00569	.00560	.01763	.01370	.00896
%RSD	.22819	.28303	496.59	21.466	87.029	42.146	4.7365
#1	476.96	.00779	.00288	-.02214	.03272	.04220	.19541
#2	475.42	.00782	-.00517	-.03007	.00779	.02282	.18274
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01467	.00157	.01368	.07738	-.06556	-.00082	.01384
SDev	.00003	.00151	.01935	.01129	.02290	.00192	.00010
%RSD	.20849	96.145	141.42	14.586	34.925	233.32	.68309
#1	-.01465	.00263	.02736	.08536	-.08174	-.00218	.01377

#2	-.01469	.00050	-.00000	.06940	-.04937	.00053	.01391
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.80000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.02020	.01300
SDev	.00406	.00191
%RSD	20.087	14.703
#1	-.02307	.01165
#2	-.01733	.01435
Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABF Operator: CSM
Run Time: 04/15/97 14:01:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	468.83	.96299	1.9204	.45809	.45346	.83101	.89110
SDev	1.64	.00272	.0777	.00086	.00099	.00874	.00060
%RSD	.34984	.28249	4.0484	.18862	.21784	1.0517	.06762
#1	467.67	.96106	1.8654	.45748	.45276	.82483	.89153
#2	469.99	.96491	1.9754	.45870	.45416	.83719	.89067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	472.37	.45539	.44384	.43777	184.19	.96815	.94402
SDev	1.77	.00776	.00254	.00570	.56	.00106	.00391
%RSD	.37546	1.7036	.57131	1.3016	.30328	.10936	.41464
#1	471.12	.46088	.44204	.43374	183.79	.96890	.94126
#2	473.63	.44991	.44563	.44180	184.58	.96740	.94679
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	475.44	.45235	.91516	.85649	4.5046	1.0008	L2.6189
SDev	1.75	.00162	.00162	.00510	.0220	.0421	.0309
%RSD	.36775	.35714	.17733	.59531	.48918	4.2045	1.1814

#1	474.21	.45121	.91402	.85288	4.5202	.97101	L2.5970
#2	476.88	.45349	.91631	.86009	4.4890	1.0305	L2.6407
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	600.00	.60000	1.2000	1.2000	6.0000	1.2000	6.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.88765	.91789	4.4650	.94973	.91361	.44703	.90123
SDev	.00203	.00246	.0065	.09420	.00291	.00244	.00341
%RSD	.22831	.26840	.14445	9.9189	.31828	.54498	.37806
#1	.88621	.91614	4.4696	1.0163	.91566	.44530	.89882
#2	.88908	.91963	4.4605	.88312	.91155	.44875	.90364
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	1.2000	6.0000	1.2000	1.2000	.60000	1.2000
Low	.80000	.80000	4.0000	.80000	.80000	.40000	.80000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.89633	.91984
SDev	.00809	.01224
%RSD	.90303	1.3311
#1	.89061	.92849
#2	.90206	.91118
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: CSM
Run Time: 04/15/97 14:05:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.561	1.9996	2.0316	1.9580	1.9781	1.8108	2.0136
SDev	.362	.0008	.0614	.0152	.0149	.0194	.0185
%RSD	.73035	.03904	3.0236	.77665	.75188	1.0716	.91854
#1	49.305	1.9990	1.9882	1.9472	1.9676	Q1.7970	2.0005
#2	49.817	2.0001	2.0751	1.9687	1.9886	1.8245	2.0267
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.055	2.0250	1.9765	1.9373	41.992	2.0185	1.8909
SDev	.427	.0230	.0051	.0145	.298	.0335	.0119
%RSD	.82056	1.1365	.25806	.74820	.70907	1.6580	.62816

#1	51.753	2.0087	1.9729	1.9271	41.782	1.9949	1.8825
#2	52.357	2.0413	1.9801	1.9476	42.203	2.0422	1.8993
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	40.379	1.9714	2.0178	1.9658	39.329	2.0820	Q1.3394
SDev	.228	.0136	.0220	.0157	.273	.0146	.0142
%RSD	.56345	.69112	1.0880	.79727	.69475	.70334	1.0606
#1	40.218	1.9618	2.0023	1.9547	39.136	2.0924	Q1.3294
#2	40.540	1.9810	2.0334	1.9769	39.522	2.0717	Q1.3495
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9577	1.9538	46.132	1.9806	1.9637	1.9344	2.0043
SDev	.0151	.0117	.471	.0197	.0464	.0126	.0093
%RSD	.77322	.59841	1.0206	.99473	2.3646	.64943	.46427
#1	1.9470	1.9456	45.800	1.9667	1.9309	1.9255	1.9977
#2	1.9684	1.9621	46.465	1.9946	1.9966	1.9433	2.0109
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	2.0293	2.0659					
SDev	.0004	.0124					
%RSD	.01883	.59884					
#1	2.0296	2.0747					
#2	2.0291	2.0572					
Errors	QC Pass	QC Pass					
Value	2.0000	2.0000					
Range	10.000	10.000					

Method: ICP97 Sample Name: CCB Operator: CSM
Run Time: 04/15/97 14:09:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04562	.00675	-.01389	.00049	.00099	-.02894	-.00055
SDev	.00128	.00394	.00306	.00035	.00001	.00104	.00015

D	2.7938	58.400	22.062	70.711	1.0919	3.6049	28.065
	.04652	.00396	-.01172	.00073	.00098	-.02821	-.00044
	.04472	.00954	-.01605	.00024	.00100	-.02968	-.00066
rrors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
igh	.10000	.10000	.10000	.00400	.00200	.05000	.00500
ow	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04070	.00192	-.00004	.00411	.02149	.00156	-.00010
SDev	.00970	.00118	.00001	.00073	.00203	.01115	.00040
%RSD	23.840	61.070	20.991	17.664	9.4558	712.69	424.26
#1	.04756	.00275	-.00003	.00359	.02292	.00945	.00019
#2	.03384	.00109	-.00005	.00462	.02005	-.00632	-.00038
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04055	.00058	.00173	-.00447	.02026	.00761	-.21662
SDev	.00245	.00041	.00325	.00159	.08814	.00294	.01790
%RSD	6.0401	70.633	188.50	35.664	435.14	38.571	8.2622
#1	.04229	.00087	-.00057	-.00560	-.04207	.00553	-.20397
#2	.03882	.00029	.00403	-.00334	.08258	.00969	-.22928
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	.00215	.07069	.11360	.01577	-.00058	-.00278
SDev	.00000	.00030	.02258	.04218	.00530	.00029	.00001
%RSD	.13352	13.950	31.934	37.133	33.587	50.163	.22398
#1	.00028	.00194	.08666	.08377	.01951	-.00078	-.00277
#2	.00028	.00237	.05473	.14342	.01202	-.00037	-.00278
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.02003	.00273
SDev	.00405	.00145
%RSD	20.208	53.283
#1	.01717	.00170
	.02290	.00375

Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	BLANK	AP1697C	ICP97	04/16/97	17:27		X	IR
2	STD2	AP1697C	ICP97	04/16/97	17:31		X	IR
3	STD1	AP1697C	ICP97	04/16/97	17:34		X	IR
4	HSTD2	AP1697C	ICP97	04/16/97	17:38	EH	Q	CONC
5	HSTD1	AP1697C	ICP97	04/16/97	17:42	EH	Q	CONC
6	ICV	AP1697C	ICP97	04/16/97	17:46	EH	Q	CONC
7	ICB	AP1697C	ICP97	04/16/97	17:50	EH	B	CONC
8	CRI	AP1697C	ICP97	04/16/97	17:54	EH	S	CONC
9	ICSAI	AP1697C	ICP97	04/16/97	17:59	EH	S	CONC
10	ICSABI	AP1697C	ICP97	04/16/97	18:03	EH	S	CONC
11	CCV	AP1697C	ICP97	04/16/97	18:07	EH	Q	CONC
12	CCB	AP1697C	ICP97	04/16/97	18:11	EH	B	CONC
13	PBW 4508	AP1697C	ICP97	04/16/97	18:29	EH	S	CONC
14	BBLK 0063	AP1697C	ICP97	04/16/97	18:33	EH	S	CONC
15	LCSW 4625	AP1697C	ICP97	04/16/97	18:37	EH	S	CONC
16	97-04-102-19A	AP1697C	ICP97	04/16/97	18:41	EH	S	CONC
17	97-04-102-19A S	AP1697C	ICP97	04/16/97	18:46	EH	S	CONC
18	97-04-102-19A SD	AP1697C	ICP97	04/16/97	18:50	EH	S	CONC
19	ZZZZZZ	AP1697C	ICP97	04/16/97	18:54	EH	S	CONC
20	97-04-102-20A	AP1697C	ICP97	04/16/97	18:58	EH	S	CONC
21	97-04-102-21A	AP1697C	ICP97	04/16/97	19:02	EH	S	CONC
22	97-04-102-22A NOT USED EH/4/16	AP1697C	ICP97	04/16/97	19:06	EH	S	CONC
23	CCV	AP1697C	ICP97	04/16/97	19:10	EH	Q	CONC
24	CCB	AP1697C	ICP97	04/16/97	19:14	EH	B	CONC
25	97-04-102-22A	AP1697C	ICP97	04/16/97	19:25	EH	S	CONC
26	97-04-092-01A	AP1697C	ICP97	04/16/97	19:29	EH	S	CONC
27	97-04-092-01A S	AP1697C	ICP97	04/16/97	19:33	EH	S	CONC
28	97-04-092-01A SD	AP1697C	ICP97	04/16/97	19:38	EH	S	CONC
29	ZZZZZZ	AP1697C	ICP97	04/16/97	19:42	EH	S	CONC
30	97-04-092-01B	AP1697C	ICP97	04/16/97	19:46	EH	S	CONC
31	97-04-092-01B S	AP1697C	ICP97	04/16/97	19:50	EH	S	CONC
32	97-04-092-01B SD	AP1697C	ICP97	04/16/97	19:54	EH	S	CONC
33	ZZZZZZ	AP1697C	ICP97	04/16/97	19:58	EH	S	CONC
34	97-04-092-02A	AP1697C	ICP97	04/16/97	20:02	EH	S	CONC
35	CCV	AP1697C	ICP97	04/16/97	20:06	EH	Q	CONC
36	CCB	AP1697C	ICP97	04/16/97	20:10	EH	B	CONC
37	97-04-092-02B	AP1697C	ICP97	04/16/97	20:14	EH	S	CONC
38	97-04-092-03A	AP1697C	ICP97	04/16/97	20:19	EH	S	CONC
39	97-04-092-03B	AP1697C	ICP97	04/16/97	20:23	EH	S	CONC
40	97-04-092-04A	AP1697C	ICP97	04/16/97	20:27	EH	S	CONC
41	97-04-092-04B	AP1697C	ICP97	04/16/97	20:31	EH	S	CONC
42	97-04-092-05A	AP1697C	ICP97	04/16/97	20:35	EH	S	CONC
43	97-04-092-05B	AP1697C	ICP97	04/16/97	20:39	EH	S	CONC
44	ICSAF	AP1697C	ICP97	04/16/97	20:43	EH	S	CONC
45	ICSABF	AP1697C	ICP97	04/16/97	20:47	EH	S	CONC
46	CCV	AP1697C	ICP97	04/16/97	20:51	EH	Q	CONC
47	CCB	AP1697C	ICP97	04/16/97	20:55	EH	B	CONC
48	97-04-092-05A 1:10	AP1697C	ICP97	04/16/97	21:08	EH	S	CONC
49	97-04-092-05B	AP1697C	ICP97	04/16/97	21:13	EH	S	CONC
50	ICSAF	AP1697C	ICP97	04/16/97	21:17	EH	S	CONC
51	ICSABF	AP1697C	ICP97	04/16/97	21:21	EH	S	CONC
52	CCV	AP1697C	ICP97	04/16/97	21:25	EH	Q	CONC
53	CCB	AP1697C	ICP97	04/16/97	21:29	EH	B	CONC

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#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	PBS 4512	AP1697C	ICP97	04/16/97	21:53	EH	S	CONC
55	LCSS 4629	AP1697C	ICP97	04/16/97	21:57	EH	S	CONC
56	97-04-121-01A	AP1697C	ICP97	04/16/97	22:02	EH	S	CONC
57	97-04-124-01A	AP1697C	ICP97	04/16/97	22:06	EH	S	CONC
58	97-04-124-01A S	AP1697C	ICP97	04/16/97	22:10	EH	S	CONC
59	97-04-124-01A SD	AP1697C	ICP97	04/16/97	22:14	EH	S	CONC
60	97-04-124-01A A	AP1697C	ICP97	04/16/97	22:18	EH	S	CONC
61	97-04-124-01A AD	AP1697C	ICP97	04/16/97	22:22	EH	S	CONC
62	ICSAF	AP1697C	ICP97	04/16/97	22:26	EH	S	CONC
63	ICSABF	AP1697C	ICP97	04/16/97	22:30	EH	S	CONC
64	CCV	AP1697C	ICP97	04/16/97	22:34	EH	Q	CONC
65	CCB	AP1697C	ICP97	04/16/97	22:38	EH	B	CONC
66	97-04-116-01A	AP1697C	ICP97	04/16/97	22:53	EH	S	CONC
67	97-04-116-01A S	AP1697C	ICP97	04/16/97	22:57	EH	S	CONC
68	97-04-116-01A SD	AP1697C	ICP97	04/16/97	23:02	EH	S	CONC
69	97-04-116-01A A	AP1697C	ICP97	04/16/97	23:06	EH	S	CONC
70	97-04-116-01A AD	AP1697C	ICP97	04/16/97	23:10	EH	S	CONC
71	ZZZZZZ	AP1697C	ICP97	04/16/97	23:14	EH	S	CONC
72	97-04-120-01A	AP1697C	ICP97	04/16/97	23:18	EH	S	CONC
73	97-04-120-02A	AP1697C	ICP97	04/16/97	23:22	EH	S	CONC
74	CCV	AP1697C	ICP97	04/16/97	23:26	EH	Q	CONC
75	CCB	AP1697C	ICP97	04/16/97	23:31	EH	B	CONC
76	97-04-120-03A	AP1697C	ICP97	04/16/97	23:35	EH	S	CONC
77	97-04-120-04A	AP1697C	ICP97	04/16/97	23:39	EH	S	CONC
78	97-04-120-05A	AP1697C	ICP97	04/16/97	23:43	EH	S	CONC
79	97-04-120-06A	AP1697C	ICP97	04/16/97	23:47	EH	S	CONC
80	ICSAF	AP1697C	ICP97	04/16/97	23:51	EH	S	CONC
81	ICSABF	AP1697C	ICP97	04/16/97	23:55	EH	S	CONC
82	CCV	AP1697C	ICP97	04/16/97	23:59	EH	Q	CONC
83	CCB	AP1697C	ICP97	04/17/97	00:03	EH	B	CONC

CAL BLK/ICB/CCB: MST012897A
STD1: MST031897A
STD2: MST032697A
ICV: MST123196A
CRI: MST041197A
ICSA: MST040897A
ICSAB: MST040897B
CCV: MST032097A
P.S. QC 31 (CRN 3033)
EH 4/17/97

Table AP1697C

Wed 04-16-97 05:31:14 PM page 1

Method: ICP97 Standard: BLANK

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Avge	-.01495	.00230	-.00950	.00000	.00080	.00376	.00000
SDev	.00064	.00665	.00099	.00014	.00000	.00017	.00113
%RSD	4.2568	288.99	10.421	.00000	.00000	4.5134	.00000
#1	-.01540	.00700	-.00880	-.00010	.00080	.00364	-.00080
#2	-.01450	-.00240	-.01020	.00010	.00080	.00388	.00080

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Avge	.01700	.00070	.00020	.00070	.00500	.00060	.00000
SDev	.00028	.00156	.00000	.00014	.00099	.00141	.00057
%RSD	1.6638	222.23	.00000	20.203	19.799	235.70	.00000
#1	.01720	-.00040	.00020	.00060	.00430	-.00040	-.00040
#2	.01680	.00180	.00020	.00080	.00570	.00160	.00040

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Avge	.00190	.00090	-.00030	.00225	.00190	.00560	.00410
SDev	.00071	.00014	.00014	.00092	.00014	.00283	.00014
%RSD	37.216	15.713	47.140	40.855	7.4432	50.508	3.4493
#1	.00140	.00080	-.00020	.00160	.00200	.00360	.00400
#2	.00240	.00100	-.00040	.00290	.00180	.00760	.00420

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Avge	-.00015	.01730	.03130	.00635	.00080	.00120	.00020
SDev	.00007	.00042	.00099	.00347	.00368	.00028	.00028
%RSD	47.140	2.4524	3.1628	54.564	459.62	23.570	141.42
#1	-.00020	.01760	.03060	.00390	.00340	.00100	.00000
#2	-.00010	.01700	.03200	.00880	-.00180	.00140	.00040

Elem	Ti3248	Zr2677
Avge	-.00040	.00190
SDev	.00028	.00099
%RSD	70.711	52.103
#1	-.00020	.00260
#2	-.00060	.00120

Method: ICP97 Standard: STD2

Elem	Al3082	Ca3158	Fe2599	Mg2790	K_7664	Na5889
Avge	6.4802	33.286	84.590	13.463	3.2926	4.6739
SDev	.0138	.054	.115	.029	.0057	.0016
%RSD	.21278	.16273	.13542	.21640	.17181	.03329
#1	6.4705	33.248	84.509	13.442	3.2886	4.6728
#2	6.4900	33.324	84.671	13.483	3.2966	4.6750

Method: ICP97 Standard: STD1

SDev	.00721	.0057	.00665	.0092	.00594	.0062	.0038
%RSD	.87139	.49422	.70763	.58139	.66419	.23797	.36599
#1	.82260	1.1406	.93460	1.5746	.89008	2.6104	1.0406
#2	.83280	1.1486	.94400	1.5876	.89848	2.6192	1.0460

Elem	Co2286	Cu3247	Pb2203	Li6707	Mn2576	Mo2020	Ni2316
Avge	.15170	.44850	.15570	1.2015	.91760	.49980	1.1702
SDev	.00099	.00354	.00099	.0099	.00396	.00085	.0006
%RSD	.65257	.78830	.63580	.82393	.43154	.16978	.05438
#1	.15100	.44600	.15640	1.1945	.91480	.49920	1.1698
#2	.15240	.45100	.15500	1.2085	.92040	.50040	1.1707

Elem	Se1960	Si2881	Sr4215	Ag3280	Tl3775	Sn1899	V_2924
Avge	.77550	.36760	2.1023	1.0752	.15090	.59140	1.3215
SDev	.00354	.00141	.0130	.0042	.00014	.00509	.0052
%RSD	.45590	.38472	.61888	.39459	.09371	.86087	.39595
#1	.77800	.36860	2.0931	1.0722	.15100	.58780	1.3178
#2	.77300	.36660	2.1115	1.0782	.15080	.59500	1.3252

Elem	Zn2138	Ti3248	Zr2677
Avge	.96190	.09690	.72560
SDev	.00410	.00014	.00057
%RSD	.42637	.14595	.07796
#1	.95900	.09700	.72600
#2	.96480	.09680	.72520

Method: ICP97 Sample Name: HSTD2 Operator: EH
Run Time: 04/16/97 17:38:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.46	.01034	-.01108	.00224	.00095	-.00094	-.00583
SDev	.99	.00276	.02118	.00015	.00011	.00222	.00056
%RSD	.98283	26.690	191.17	6.7344	11.499	236.15	9.6704
#1	99.765	.01229	-.02606	.00234	.00102	.00063	-.00623
#2	101.16	.00839	.00390	.00213	.00087	-.00252	-.00543
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	100.00						
Range	5.0000						

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.79	-.00103	-.00131	-.00551	100.71	.03194	.00042
SDev	.76	.00240	.00187	.00271	.78	.01128	.00106
%RSD	.75786	233.46	143.10	49.138	.77563	35.304	254.56
#1	100.25	.00067	.00003	-.00360	100.16	.03991	.00117
#2	101.33	-.00273	-.00268	-.00743	101.26	.02396	-.00033

Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value	100.00				100.00		
Range	5.0000				5.0000		
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.61	.00225	-.00200	-.00938	100.36	.00959	.01694
SDev	.88	.00033	.00340	.00179	.87	.01137	.01238
%RSD	.87004	14.521	170.02	19.035	.86502	118.60	73.113
#1	99.993	.00248	-.00440	-.00812	99.745	.01763	.02570
#2	101.23	.00202	.00040	-.01064	100.97	.00155	.00818

Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK
Value	100.00				100.00		
Range	5.0000				5.0000		
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00097	-.00029	100.40	-.03225	-.03255	-.00289	.00935
SDev	.00016	.00324	1.00	.01497	.00860	.00024	.00098
%RSD	16.973	1134.2	.99518	46.425	26.433	8.2995	10.495
#1	.00108	.00200	99.692	-.02166	-.03863	-.00272	.01005
#2	.00085	-.00257	101.10	-.04283	-.02646	-.00306	.00866

Errors	NOCHECK	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value			100.00				
Range			5.0000				

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.00858	.00742
SDev	.00002	.00863
%RSD	.28300	116.19
#1	-.00856	.00132
#2	-.00860	.01352
Errors	NOCHECK	NOCHECK
Value		
Range		

Method: ICP97 Sample Name: HSTD1 Operator: EH
Run Time: 04/16/97 17:42:36
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0569	2.0048	2.0141	2.0229	2.0156	2.0140	2.0182
SDev	.0098	.0278	.0065	.0008	.0027	.0069	.0001
%RSD	.47585	1.3870	.32350	.03721	.13409	.34178	.00510
#1	2.0638	1.9851	2.0187	2.0234	2.0175	2.0091	2.0183

#2	2.0499	2.0244	2.0095	2.0224	2.0137	2.0189	2.0181
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1479	2.0194	2.0013	2.0129	2.1280	2.0272	2.0110
SDev	.0088	.0073	.0187	.0006	.0048	.0182	.0026
%RSD	.40866	.36383	.93652	.03144	.22766	.89785	.12877
#1	2.1417	2.0246	1.9881	2.0125	2.1314	2.0143	2.0092
#2	2.1541	2.0142	2.0146	2.0134	2.1246	2.0401	2.0128
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000		2.0000	2.0000
Range		5.0000	5.0000	5.0000		5.0000	5.0000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1101	2.0172	2.0220	2.0202	2.1029	2.0203	2.0053
SDev	.0120	.0009	.0017	.0004	.0215	.0290	.0120
%RSD	.56980	.04588	.08415	.01764	1.0218	1.4355	.59991
#1	2.1016	2.0178	2.0208	2.0204	2.1181	2.0408	2.0138
#2	2.1186	2.0165	2.0232	2.0199	2.0877	1.9998	1.9968
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value		2.0000	2.0000	2.0000		2.0000	2.0000
Range		5.0000	5.0000	5.0000		5.0000	5.0000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0112	2.0102	2.0570	2.0538	2.0065	2.0094	2.0254
SDev	.0023	.0081	.0000	.0191	.0101	.0011	.0029
%RSD	.11373	.40248	.00000	.93094	.50327	.05292	.14540
#1	2.0129	2.0159	2.0570	2.0674	2.0136	2.0101	2.0233
#2	2.0096	2.0045	2.0570	2.0403	1.9994	2.0086	2.0275
Errors	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000		2.0000	2.0000	2.0000	2.0000
Range	5.0000	5.0000		5.0000	5.0000	5.0000	5.0000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	1.9910	1.9866					
SDev	.0151	.0181					
%RSD	.76039	.91058					
#1	2.0017	1.9738					
#2	1.9803	1.9993					
Errors	QC Pass	QC Pass					
Value	2.0000	2.0000					
Range	5.0000	5.0000					

Method: ICP97 Sample Name: ICV Operator: EH
Run Time: 04/16/97 17:46:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.602	.97117	.98118	.97796	.97443	.97182	.96101
SDev	.011	.00855	.02038	.00090	.00172	.00289	.00216
%RSD	.04398	.88061	2.0767	.09237	.17693	.29714	.22493
#1	24.594	.96512	.96678	.97732	.97321	.96977	.95948
#2	24.610	.97721	.99559	.97860	.97564	.97386	.96253
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.423	.97050	.96499	.97259	20.369	.96984	.99792
SDev	.034	.00083	.00560	.00190	.003	.01034	.00094
%RSD	.13565	.08598	.58075	.19544	.01669	1.0665	.09436
#1	25.399	.97109	.96896	.97124	20.366	.96252	.99725
#2	25.447	.96991	.96103	.97393	20.371	.97715	.99859
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	1.0000	1.0000	1.0000	20.000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.928	.96871	.97222	.97436	20.066	.99255	1.0263
SDev	.003	.00093	.00113	.00037	.026	.00918	.0077
%RSD	.01393	.09554	.11582	.03799	.12851	.92509	.75270
#1	19.930	.96806	.97301	.97410	20.084	.98606	1.0209
#2	19.926	.96937	.97142	.97462	20.047	.99904	1.0318
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.000	1.0000	1.0000	1.0000	20.000	1.0000	1.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96973	.98237	25.031	.94778	.98130	.97005	.97606
SDev	.00094	.00191	.000	.00403	.00765	.00191	.00235
%RSD	.09697	.19431	.00000	.42474	.77913	.19639	.24062
#1	.96907	.98372	25.031	.95062	.97589	.96870	.97439
#2	.97040	.98102	25.031	.94493	.98670	.97139	.97772
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	25.000	1.0000	1.0000	1.0000	1.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.97214	1.0114
SDev	.00313	.0159
%RSD	.32147	1.5765
#1	.97435	1.0001
#2	.96993	1.0227
Errors	QC Pass	QC Pass
Value	1.0000	1.0000
Range	10.000	10.000

Method: ICP97 Sample Name: ICB Operator: EH
Run Time: 04/16/97 17:50:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00534	.00120	.00958	-.00032	.00052	.00321	-.00038
SDev	.00439	.00548	.00826	.00015	.00003	.00069	.00032
%RSD	82.234	456.25	86.160	47.140	5.9067	21.447	84.253
#1	-.00224	-.00268	.00374	-.00043	.00050	.00370	-.00061
#2	-.00845	.00508	.01542	-.00021	.00054	.00272	-.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00752	-.00212	-.00266	.00223	.00207	-.01124	.00050
SDev	.00300	.00273	.00374	.00000	.00076	.01567	.00023
%RSD	39.826	128.66	140.49	.07376	36.583	139.38	47.140
#1	.00541	-.00019	-.00002	.00223	.00261	-.02233	.00067
#2	.00964	-.00405	-.00530	.00223	.00154	-.00016	.00033
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01637	-.00022	.00120	-.00042	-.02431	.01012	-.00575
SDev	.00324	.00000	.00226	.00202	.03008	.00990	.00118
%RSD	19.800	.14146	188.60	486.72	123.74	97.854	20.463
#1	.01408	-.00022	-.00040	-.00184	-.04558	.01712	-.00492
#2	.01866	-.00022	.00280	.00101	-.00304	.00312	-.00659
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	-.00017	-.00862	-.06584	-.00815	-.00165	.00041
SDev	.00020	.00052	.00914	.03197	.00767	.00020	.00001
%RSD	106.17	296.62	106.07	48.562	94.080	12.349	2.1189
#1	.00005	-.00054	-.01508	-.08845	-.00273	-.00151	.00042
#2	.00033	.00019	-.00215	-.04323	-.01357	-.00180	.00041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.00639	.00117
SDev	.00304	.00377
%RSD	47.546	322.50
#1	.00854	-.00150
#2	.00424	.00383
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: CRI Operator: EH
Run Time: 04/16/97 17:54:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.18828	.17604	.40047	.00809	.00456	.11784	.00935
SDev	.02607	.01233	.01261	.00000	.00022	.00064	.00054
%RSD	13.844	7.0029	3.1492	.00000	4.8229	.54094	5.7677
#1	.20672	.18476	.40938	.00809	.00471	.11739	.00973
#2	.16985	.16732	.39155	.00809	.00440	.11830	.00897
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.40000	.40000	.80000	.01600	.00800	.20000	.02000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43452	.02011	.01844	.05359	.20834	.08396	.03953
SDev	.00425	.00000	.00002	.00064	.00283	.00175	.00035
%RSD	.97706	.02201	.09648	1.1844	1.3575	2.0799	.89319
#1	.43753	.02011	.01845	.05404	.21034	.08272	.03928
#2	.43152	.02012	.01843	.05314	.20634	.08519	.03978

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.80000	.04000	.04000	.08000	.40000	.20000	.08000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20870	.01004	.01961	.03921	.37682	.18343	.87529
SDev	.01064	.00031	.00226	.00296	.03008	.00844	.01314
%RSD	5.0979	3.0754	11.543	7.5559	7.9835	4.5999	1.5014
#1	.21622	.01026	.02121	.04130	.35555	.17746	.88458
#2	.20117	.00982	.01801	.03711	.39609	.18939	.86599

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.40000	.02000	.04000	.08000	.80000	.40000	2.0000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03827	.01337	.91974	.42848	.20613	.01772	.05198
SDev	.00054	.00057	.01218	.03722	.00286	.00023	.00235
%RSD	1.4056	4.2516	1.3248	8.6866	1.3892	1.2957	4.5247
#1	.03865	.01297	.92836	.40216	.20816	.01788	.05364
#2	.03789	.01377	.91113	.45479	.20411	.01756	.05032

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.08000	.04000	2.0000	1.0000	.40000	.04000	.08000
Low	.00000	.00000	.00000	.00000	.00000	.00000	.00000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.03120	.05679
SDev	.00909	.00535
%RSD	29.140	9.4216
#1	.02477	.06058
#2	.03762	.05301

Errors	LC Pass	LC Pass
High	.20000	1.2000
Low	.00000	.00000

Method: ICP97 Sample Name: ICSAI Operator: EH
Run Time: 04/16/97 17:59:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	479.54	.02940	-.03292	.00128	.00050	-.01175	-.00910
SDev	2.81	.00852	.02955	.00000	.00019	.00172	.00030
%RSD	.58506	28.974	89.768	.00000	38.481	14.641	3.3335
#1	477.56	.03542	-.05382	.00128	.00036	-.01297	-.00931
#2	481.53	.02338	-.01202	.00128	.00063	-.01054	-.00889

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00800	-.00400	-.10000	-.01000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	476.35	-.00309	-.00261	-.02136	183.95	.10863	.00849
SDev	2.94	.00102	.00001	.00041	.96	.01206	.00047
%RSD	.61761	32.903	.52111	1.9308	.52366	11.103	5.5459
#1	474.27	-.00237	-.00260	-.02165	183.27	.10010	.00882
#2	478.43	-.00381	-.00262	-.02107	184.64	.11715	.00816

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	488.79	.00740	-.00479	-.01833	-.00608	.07314	.04125
SDev	2.47	.00005	.00396	.00197	.01289	.02348	.00888
%RSD	.50554	.71734	82.561	10.730	212.13	32.102	21.535
#1	487.04	.00744	-.00200	-.01972	-.01519	.08975	.03497
#2	490.54	.00736	-.00759	-.01694	.00304	.05654	.04753

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01458	-.00315	-.02369	-.01020	-.07421	-.00380	.01171
SDev	.00005	.00220	.00609	.06009	.01102	.00327	.00017
%RSD	.32555	69.595	25.713	589.02	14.853	85.990	1.4593
#1	-.01455	-.00471	-.01939	-.05269	-.06642	-.00149	.01184
#2	-.01462	-.00160	-.02800	.03229	-.08200	-.00611	.01159

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.80000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.01722	.01365
SDev	.00602	.00056
%RSD	34.982	4.0890
#1	-.02148	.01325
#2	-.01296	.01404

Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABI Operator: EH
Run Time: 04/16/97 18:03:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	474.08	.92296	1.6991	.46205	.45262	.88496	.84672
SDev	.54	.00004	.0586	.00120	.00138	.00255	.00421
%RSD	.11367	.00405	3.4492	.26069	.30485	.28812	.49663
#1	474.46	.92294	1.6577	.46290	.45360	.88677	.84969
#2	473.70	.92299	1.7405	.46119	.45164	.88316	.84375
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	469.04	.44120	.44014	.44261	180.45	.99768	.98718
SDev	.68	.00547	.00001	.00052	.49	.00562	.00224
%RSD	.14492	1.2407	.00114	.11704	.27346	.56373	.22654
#1	469.52	.44507	.44013	.44297	180.80	.99370	.98876
#2	468.56	.43733	.44014	.44224	180.10	1.0017	.98560
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	481.65	.44835	.89944	.84535	4.6525	.97356	L3.4876
SDev	.76	.00060	.00113	.00016	.0172	.04734	.0155
%RSD	.15856	.13414	.12556	.01946	.36948	4.8625	.44433
#1	482.19	.44877	.90023	.84524	4.6403	1.0070	L3.4986
#2	481.11	.44792	.89864	.84547	4.6647	.94009	L3.4767
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	600.00	.60000	1.2000	1.2000	6.0000	1.2000	6.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.88955	.93076	4.8313	1.0217	.88010	.44969	.88446
SDev	.00266	.00298	.0000	.1313	.00335	.00233	.00214
%RSD	.29949	.32056	.00000	12.852	.38074	.51799	.24202
#1	.89144	.93287	4.8313	1.1145	.87773	.45134	.88295
#2	.88767	.92865	4.8313	.92884	.88247	.44805	.88597
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.87283	.93385
SDev	.00302	.00485
%RSD	.34613	.51963
#1	.87496	.93042
#2	.87069	.93729
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: EH
Run Time: 04/16/97 18:07:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.321	2.0137	2.0320	2.0436	2.0160	1.9956	1.9755
SDev	.305	.0173	.0170	.0157	.0169	.0064	.0127
%RSD	.59498	.85861	.83687	.76619	.83785	.32165	.64234
#1	51.537	2.0260	2.0440	2.0547	2.0279	2.0001	1.9845
#2	51.105	2.0015	2.0200	2.0326	2.0040	1.9910	1.9666
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.678	2.0071	1.9736	2.0146	42.055	2.0045	2.0872
SDev	.266	.0062	.0131	.0107	.277	.0135	.0162
%RSD	.50454	.31119	.66314	.53020	.65931	.67175	.77821
#1	52.866	2.0115	1.9643	2.0221	42.251	2.0140	2.0987
#2	52.490	2.0027	1.9829	2.0070	41.859	1.9950	2.0757
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.548	2.0033	2.0196	1.9875	41.952	2.0347	1.8186
SDev	.254	.0139	.0232	.0010	.034	.0143	.0132
%RSD	.61081	.69291	1.1475	.04793	.08195	.70133	.72488
#1	41.727	2.0131	2.0360	1.9882	41.976	2.0246	1.8279
#2	41.368	1.9935	2.0032	1.9868	41.927	2.0448	1.8092
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000

Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0217	2.0100	51.999	2.0551	2.0103	2.0119	2.0127
SDev	.0161	.0051	.110	.0310	.0082	.0163	.0136
%RSD	.79800	.25579	.21089	1.5067	.40846	.80971	.67402
#1	2.0331	2.0136	52.076	2.0332	2.0161	2.0234	2.0223
#2	2.0103	2.0063	51.921	2.0770	2.0045	2.0003	2.0031
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9675	2.0954
SDev	.0003	.0200
%RSD	.01518	.95448
#1	1.9673	2.0812
#2	1.9677	2.1095
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: EH
Run Time: 04/16/97 18:11:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00695	.00094	-.01026	-.00011	.00034	.00297	.00030
SDev	.00432	.00994	.00777	.00045	.00016	.00024	.00043
%RSD	62.092	1054.9	75.696	424.26	46.201	8.1354	143.42
#1	.01000	.00797	-.01575	.00021	.00023	.00315	.00061
#2	.00390	-.00609	-.00477	-.00043	.00045	.00280	-.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01262	-.00019	-.00001	.00178	.02134	-.01364	-.00025
SDev	.01016	.00272	.00377	.00190	.00575	.00189	.00012
%RSD	80.519	1444.0	51063.	106.43	26.930	13.862	47.140
#1	.01981	-.00211	.00266	.00044	.02541	-.01231	-.00033
#2	.00543	.00173	-.00267	.00312	.01728	-.01498	-.00017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01399	-.00000	.00080	-.00281	-.00000	.00026	-.00055
SDev	.00624	.00031	.00283	.00085	.03008	.00917	.00466
%RSD	44.565	279270.	354.32	30.129	1615e6	3525.7	849.86
#1	.00958	.00022	.00280	-.00221	.02127	.00674	-.00384
#2	.01840	-.00022	-.00120	-.00340	-.02127	-.00622	.00274
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	.00002	-.00646	-.01263	-.00305	-.00045	.00042
SDev	.00007	.00031	.01218	.08325	.00144	.00105	.00000
%RSD	70.660	1309.0	188.56	659.20	47.273	233.05	.08052
#1	.00014	-.00019	.00215	-.07149	-.00407	-.00119	.00042
#2	.00005	.00024	-.01508	.04624	-.00203	.00029	.00042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	.00430	-.00509					
SDev	.01208	.00242					
%RSD	281.16	47.524					
#1	-.00424	-.00338					
#2	.01284	-.00681					
Errors	LC Pass	LC Pass					
High	.05000	.03000					
Low	-.05000	-.03000					

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Method: ICP97 Sample Name: PBW 4508 Operator: EH
Run Time: 04/16/97 18:29:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00163	L-.00627	L.00743	L-.00011	L.00038	L.01717	L-.00122
SDev	.00111	.00789	.01025	.00015	.00016	.00210	.00087
%RSD	67.832	125.85	137.89	141.42	41.682	12.249	70.711
#1	L.00085	L-.01185	L.01468	L.00000	L.00050	L.01866	L-.00184
#2	L.00242	L-.00069	L.00019	L-.00021	L.00027	L.01569	L-.00061
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00422	L-.00116	L-.00003	L.00625	L-.00128	L-.01985	L-.00042
SDev	.00595	.00517	.00000	.00063	.00033	.00000	.00012
%RSD	141.06	447.04	9.8196	10.139	25.527	.02306	28.284
#1	L-.00842	L.00250	L-.00003	L.00670	L-.00105	L-.01986	L-.00050
#2	L-.00001	L-.00481	L-.00003	L.00581	L-.00151	L-.01985	L-.00033
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00224	L.00044	L.00080	L.00228	L-.04558	L-.01661	L.00218
SDev	.00846	.00031	.00057	.00061	.03438	.00587	.01008
%RSD	377.86	70.630	70.781	26.890	75.425	35.339	462.75
#1	L-.00374	L.00022	L.00040	L.00271	L-.06989	L-.01246	L.00931
#2	L.00822	L.00065	L.00120	L.00185	L-.02127	L-.02076	L-.00495
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00005	L-.00355	L-.06031	L-.03545	L.00405	L-.00151	L.00060
SDev	.00000	.00107	.01523	.00505	.00096	.00044	.00029
%RSD	.49002	30.149	25.254	14.235	23.796	28.877	48.606
#1	L-.00005	L-.00430	L-.07108	L-.03901	L.00473	L-.00120	L.00081
#2	L-.00005	L-.00279	L-.04954	L-.03188	L.00337	L-.00181	L.00040
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.03000	.01000	.50000	.20000	.10000	.01000	.02000

Units	ppm	ppm
Avge	L.01489	L.00035
SDev	.00300	.00212
%RSD	20.140	612.39
#1	L.01277	L-.00115
#2	L.01701	L.00184
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: BBLK 0063 Operator: EH
Run Time: 04/16/97 18:33:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.06166	L.00071	L.00431	.15437	L.00027	L.03232	L.00018
SDev	.00334	.00269	.00224	.00120	.00002	.00109	.00032
%RSD	5.4140	379.00	51.937	.78025	8.1458	3.3729	179.48
#1	L.05930	L.00261	L.00589	.15352	L.00028	L.03309	L-.00005
#2	L.06402	L-.00119	L.00272	.15522	L.00025	L.03155	L.00041
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02584	L-.00097	L-.00137	L.00934	.19119	L-.00008	L-.00025
SDev	.01189	.00163	.00186	.00127	.00033	.00355	.00035
%RSD	46.033	168.33	136.07	13.543	.17187	4424.2	141.42
#1	L.01743	L.00018	L-.00269	L.00845	.19142	L-.00259	L.00000
#2	L.03425	L-.00212	L-.00005	L.01024	.19096	L.00243	L-.00050
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02232	L.00153	L.00320	L.00064	.23095	L-.00726	L.14813
SDev	.00533	.00000	.00396	.00146	.01289	.00440	.00233
%RSD	23.887	.04508	123.76	226.70	5.5824	60.635	1.5728
#1	L.02609	L.00153	L.00600	L-.00039	.24007	L-.00415	L.14978
#2	L.01855	L.00153	L.00040	L.00167	.22184	L-.01038	L.14648
Errors	LC Low	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00338	L-.00281	272.62	L-.02473	L-.00339	L-.00285	.04266
SDev	.00000	.00108	.62	.01005	.00383	.00109	.00059
%RSD	.01374	38.490	.22906	40.650	112.74	38.250	1.3707
#1	L.00338	L-.00358	272.18	L-.01762	L-.00069	L-.00208	.04225
#2	L.00338	L-.00205	273.06	L-.03183	L-.00610	L-.00362	.04307
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01060	L.00121
SDev	.00302	.00310
%RSD	28.538	255.40
#1	L.00846	L.00340
#2	L.01274	L-.00098
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: LCSW 4625 Operator: EH
Run Time: 04/16/97 18:37:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.557	.95348	.93483	.95901	.97432	.93048	.93153
SDev	.187	.00309	.00766	.00662	.00524	.00771	.00430
%RSD	.76204	.32452	.81932	.69078	.53758	.82820	.46167
#1	24.425	.95129	.94025	.95433	.97062	.92504	.92849
#2	24.690	.95567	.92942	.96370	.97802	.93593	.93457
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.067	.96417	.95180	.96951	20.171	.93964	1.0039
SDev	.146	.00598	.00188	.00504	.108	.01058	.0099
%RSD	.58339	.61990	.19720	.51955	.53720	1.1255	.98486
#1	24.964	.95995	.95047	.96595	20.095	.94712	.99692
#2	25.171	.96840	.95313	.97307	20.248	.93216	1.0109
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.763	.95345	.98221	.94920	19.804	.96474	.80435
SDev	.139	.00462	.00169	.00356	.129	.01689	.00545
%RSD	.70309	.48500	.17235	.37482	.65101	1.7502	.67760
#1	19.665	.95018	.98340	.94669	19.713	.95280	.80049
#2	19.861	.95672	.98101	.95172	19.895	.97668	.80820
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.96732	.94629	24.504	.89548	.94875	.95914	.95210
SDev	.00625	.00157	.137	.04903	.01819	.00553	.00143
%RSD	.64611	.16598	.55942	5.4748	1.9172	.57607	.14996
#1	.96290	.94518	24.407	.86081	.93589	.95523	.95109
#2	.97174	.94740	24.600	.93015	.96161	.96305	.95311
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.95141	.99470
SDev	.00322	.01124
%RSD	.33818	1.1301
#1	.95368	.98675
#2	.94913	1.0027
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-19A Operator: EH
Run Time: 04/16/97 18:41:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02389	L-.00229	L.00938	.08868	L.00015	L.02033	L.00058
SDev	.01088	.00172	.00786	.00015	.00028	.00121	.00086
%RSD	45.527	75.093	83.775	.16977	182.55	5.9579	149.58
#1	L.01620	L-.00108	L.01494	.08879	L-.00004	L.02118	L-.00003
#2	L.03159	L-.00351	L.00382	.08858	L.00035	L.01947	L.00119
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00

Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	56.991	L.00227	L-.00003	.03396	.12529	L-.00124	L.00133
SDev	.021	.00134	.00002	.00316	.00102	.00176	.00071
%RSD	.03730	59.291	52.371	9.2964	.81150	141.64	53.033
#1	56.976	L.00132	L-.00002	.03173	.12458	L.00000	L.00083
#2	57.006	L.00322	L-.00005	.03619	.12601	L-.00248	L.00183
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.027	.21060	L.00280	.02037	.44367	L-.00337	.69943
SDev	.006	.00000	.00227	.00055	.00430	.00624	.00271
%RSD	.04255	.00045	80.990	2.6844	.96864	184.95	.38811
#1	14.031	.21060	L.00120	L.01999	.44064	L.00104	.69751
#2	14.022	.21060	L.00440	.02076	.44671	L-.00778	.70135
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06170	L-.00230	265.73	L.01149	L-.01459	L-.00131	.10498
SDev	.00007	.00133	1.49	.04510	.00339	.00150	.00180
%RSD	.11036	57.784	.56056	392.54	23.232	114.75	1.7107
#1	.06175	L-.00325	266.78	L-.02040	L-.01219	L-.00237	.10625
#2	.06165	L-.00136	264.68	L.04338	L-.01699	L-.00025	.10371
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Elem	Ti3248	Zr2677					
Units	ppm	ppm					
Avge	L.00498	L.00305					
SDev	.00897	.01332					
%RSD	180.23	437.57					
#1	L-.00137	L-.00638					
#2	L.01132	L.01247					
Errors	LC Low	LC Low					
High	100.00	75.000					
Low	.02000	.03000					

Method: ICP97 Sample Name: 97-04-102-19A S Operator: EH

Run Time: 04/16/97 18:46:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01473	L.00090	4.6338	24.132	L.00192	L.02316	.89823
SDev	.00432	.01444	.0345	.025	.00025	.00357	.00119
%RSD	29.310	1613.4	.74508	.10294	12.868	15.414	.13242
#1	L.01168	L-.00932	4.6582	24.150	L.00174	L.02063	.89739
#2	L.01779	L.01111	4.6094	24.115	.00209	L.02568	.89907
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	54.927	4.6385	L.00268	.03575	L.07944	4.5705	L.00150
SDev	.075	.0076	.00003	.00064	.00090	.0228	.00000
%RSD	.13621	.16430	.94556	1.7809	1.1323	.49904	.00000
#1	54.874	4.6439	L.00267	.03530	L.07881	4.5544	L.00150
#2	54.980	4.6331	L.00270	.03621	L.08008	4.5866	L.00150
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	13.548	.20254	L.00326	L.01705	.42240	.94266	.66888
SDev	.005	.00031	.00056	.00312	.03438	.01614	.01271
%RSD	.04032	.15219	17.244	18.295	8.1394	1.7123	1.8996
#1	13.545	.20232	L.00366	L.01485	.39809	.95407	.65990
#2	13.552	.20276	L.00287	L.01926	.44671	.93125	.67787
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06007	4.6723	256.12	L-.00185	L.00070	L-.00399	.07386
SDev	.00020	.0086	.70	.01788	.00671	.00002	.00176
%RSD	.34078	.18385	.27237	966.40	966.01	.44161	2.3779
#1	.06022	4.6783	256.61	L-.01449	L-.00405	L-.00398	.07262
#2	.05993	4.6662	255.62	L.01079	L.00544	L-.00400	.07510
Errors	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm

Avge	L.00835	.22485
SDev	.00911	.00868
%RSD	109.10	3.8620
#1	L.01479	.21871
#2	L.00191	.23099
Errors	LC Low	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-19A SD Operator: EH
Run Time: 04/16/97 18:50:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02089	L.01318	4.5650	24.307	L.00173	L.02259	.88156
SDev	.00650	.00946	.0360	.145	.00007	.00044	.00227
%RSD	31.128	71.822	.78917	.59650	3.9351	1.9476	.25777
#1	L.02549	L.01987	4.5395	24.204	L.00177	L.02227	.87995
#2	L.01629	L.00649	4.5905	24.409	L.00168	L.02290	.88316
Errors	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	53.953	4.5677	L-.00128	.03308	L.06943	4.5070	L.00125
SDev	.336	.0294	.00184	.00063	.00000	.0001	.00012
%RSD	.62316	.64314	143.46	1.9161	.00610	.00224	9.4281
#1	53.715	4.5469	L-.00258	.03353	L.06943	4.5070	L.00117
#2	54.191	4.5885	L.00002	.03263	L.06944	4.5071	L.00133
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	13.363	.19384	L.00206	L.01470	.41329	.93432	.65148
SDev	.080	.00123	.00113	.00459	.00430	.01908	.00058
%RSD	.59591	.61960	54.715	31.202	1.0399	2.0416	.08864
#1	13.307	.19796	L.00126	L.01794	.41025	.94781	.65107
#2	13.419	.19971	L.00286	L.01146	.41632	.92084	.65189
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5890	Tl3775	Sn1899	V_2924	Zn2138

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05930	4.6162	253.17	L-.09461	L-.00103	L-.00552	.07305
SDev	.00039	.0270	.05	.07533	.00242	.00141	.00057
%RSD	.65848	.58455	.37539	79.624	233.88	25.582	.78184
#1	.05902	4.5971	252.50	L-.14787	L-.00274	L-.00452	.07345
#2	.05958	4.6353	253.85	L-.04134	L.00068	L-.00651	.07264
Errors	LC Pass	LC Pass	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00211	.21584
SDev	.00003	.00900
%RSD	1.4311	4.1709
#1	L.00209	.22220
#2	L.00213	.20947
Errors	LC Low	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ZZZZZZ Operator: EH
Run Time: 04/16/97 18:54:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00230	L-.00605	L.01555	L.00106	L.00013	L.00136	L-.00031
SDev	.00649	.00956	.00571	.00060	.00015	.00051	.00043
%RSD	282.46	157.92	36.709	56.569	110.95	37.464	140.75
#1	L-.00229	L.00071	L.01151	L.00064	L.00024	L.00172	L-.00000
#2	L.00688	L-.01282	L.01958	L.00149	L.00003	L.00100	L-.00061
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01264	L.00058	L-.00264	L-.00045	L.00330	L-.02118	L.00000
SDev	.00596	.00218	.00001	.00000	.00151	.00524	.00023
%RSD	47.134	377.00	.45946	.41163	45.881	24.741	.00000
#1	L.01685	L.00212	L-.00265	L-.00045	L.00437	L-.02489	L-.00017
#2	L.00843	L-.00096	L-.00263	L-.00044	L.00223	L-.01747	L.00017
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01116	L.00022	L.00040	L.00120	L.02735	L.00389	L.00000
SDev	.00831	.00000	.00226	.00187	.04298	.00991	.00153
%RSD	74.494	.36805	565.64	155.92	157.13	254.43	40803.
#1	L.01704	L.00022	L-.00120	L-.00012	L.05774	L-.00311	L-.00108
#2	L.00528	L.00022	L.00200	L.00253	L-.00304	L.01090	L.00109
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00024	L.00055	L.03231	L.00136	L.00100	L-.00090	L-.00042
SDev	.00000	.00109	.00609	.03517	.01199	.00001	.00001
%RSD	.09790	197.95	18.856	2586.1	1202.5	1.2165	2.0139
#1	L.00024	L.00132	L.03662	L.02623	L.00948	L-.00090	L-.00042
#2	L.00024	L-.00022	L.02800	L-.02351	L-.00748	L-.00089	L-.00043
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L-.00428	L.00075
SDev	.00605	.00367
%RSD	141.60	488.52
#1	L.00001	L-.00185
#2	L-.00856	L.00335
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-20A Operator: EH
Run Time: 04/16/97 18:58:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.06548	L-.00794	L.01924	.19291	L.00027	L.03706	L-.00038
SDev	.01311	.00206	.00550	.00120	.00001	.00128	.00130
%RSD	20.013	25.988	28.566	.62438	4.8189	3.4399	337.89
#1	L.07475	L-.00940	L.01535	.19206	L.00026	L.03796	L-.00130
#2	L.05622	L-.00648	L.02313	.19376	L.00028	L.03616	L.00053
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.429	L-.00060	L-.00270	L.01737	.30901	L-.00386	L.00100
SDev	.013	.00434	.00002	.00126	.00344	.00173	.00000
%RSD	.10609	722.24	.55481	7.2594	1.1139	44.837	.00000
#1	12.420	L-.00367	L-.00269	L.01648	.30658	L-.00264	L.00100
#2	12.439	L.00247	L-.00271	L.01826	.31145	L-.00509	L.00100
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.0503	.14102	L.00040	L.00621	.34947	L.00286	.57970
SDev	.0137	.00123	.00113	.00521	.03438	.00918	.00273
%RSD	.33929	.87512	283.52	83.812	9.8380	321.33	.47162
#1	4.0406	.14015	L-.00040	L.00253	.37378	L-.00363	.57776
#2	4.0600	.14189	L.00120	L.00989	.32516	L.00934	.58163
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01859	L-.00189	260.40	L-.02826	L-.00001	L-.00105	.07369
SDev	.00040	.00025	.09	.00283	.00768	.00278	.00383
%RSD	2.1684	13.294	.03393	10.012	88863.	264.44	5.1943
#1	L.01830	L-.00171	260.34	L-.03026	L.00542	L-.00301	.07099
#2	L.01887	L-.00207	260.46	L-.02626	L-.00544	L.00091	.07640
Errors	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00902	L.00229
SDev	.00596	.00254
%RSD	66.122	110.97
#1	L.00480	L.00049
#2	L.01323	L.00409
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-21A Operator: EH
Run Time: 04/16/97 19:02:27

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00394	L-.00792	L.00573	.21665	L.00013	L.03479	.01102
SDev	.00433	.01088	.00946	.00286	.00021	.00076	.00011
%RSD	109.87	137.40	165.17	1.3204	167.14	2.1806	.98536
#1	L.00700	L-.01562	L.01242	.21463	L-.00002	L.03533	.01110
#2	L.00088	L-.00023	L-.00096	.21867	L.00028	L.03425	.01094
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	117.42	L.00152	L.00126	L.01111	.28078	L.00376	L.00017
SDev	1.42	.00136	.00186	.00379	.00284	.00881	.00000
%RSD	1.2117	89.266	147.53	34.147	1.0104	234.55	.00000
#1	116.41	L.00056	L.00258	L.01379	.27877	L.00998	L.00017
#2	118.43	L.00248	L-.00005	L.00843	.28279	L-.00247	L.00017
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4944	.07905	L.00200	L.01071	.66855	L.00262	.53407
SDev	.0516	.00123	.00000	.00583	.04727	.02495	.01083
%RSD	.93841	1.5586	.05287	54.496	7.0711	953.27	2.0281
#1	5.4580	.07818	L.00200	L.01483	.70198	L.02026	.52641
#2	5.5309	.07992	L.00200	L.00658	.63512	L-.01502	.54173
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.17298	L-.00265	268.93	L-.05735	L.00136	L-.00210	.29163
SDev	.00264	.00188	3.91	.07089	.00193	.00212	.00477
%RSD	1.5234	71.231	1.4555	123.62	142.11	101.13	1.6337
#1	.17111	L-.00131	266.16	L-.00722	L.00273	L-.00060	.28826
#2	.17484	L-.00398	271.69	L-.10747	L-.00001	L-.00360	.29500
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.01279	L-.00056

SDev	.00304	.00356
%RSD	23.749	633.07
#1	L.01494	L-.00308
#2	L.01064	L.00196
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-102-22A Operator: EH
Run Time: 04/16/97 19:06:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00307	L.00781	L.00950	.19770	L.00013	.05530	.00580
SDev	.00979	.00309	.00120	.00136	.00020	.00082	.00130
%RSD	319.01	39.523	12.591	.68540	153.40	1.4751	22.376
#1	L.00999	L.00563	L.01034	.19674	L.00027	.05473	.00672
#2	L-.00385	L.01000	L.00865	.19866	L-.00001	.05588	L.00488
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	88.552	L-.00042	L-.00004	L.01027	L.04637	L-.01238	L.00050
SDev	.366	.00190	.00374	.00127	.00117	.00688	.00023
%RSD	.41375	451.53	10471.	12.341	2.5299	55.553	47.140
#1	88.293	L.00092	L-.00268	L.01117	L.04554	L-.00752	L.00067
#2	88.811	L-.00176	L.00261	L.00938	L.04720	L-.01725	L.00033
Errors	LC Pass	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.320	.09766	L.00200	L.01056	.71717	L-.00725	.66361
SDev	.085	.00000	.00226	.00031	.01289	.00953	.00694
%RSD	.69013	.00159	113.13	2.9082	1.7977	131.46	1.0466
#1	12.260	.09767	L.00040	L.01078	.72629	L-.01399	.65870
#2	12.380	.09766	L.00360	L.01034	.70806	L-.00051	.66852
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.13538	L-.00401	270.26	L-.01472	L-.00612	L.00017	.43239
SDev	.00066	.00001	1.03	.04611	.00000	.00063	.00267
%RSD	.48629	.17674	.38210	313.20	.02124	364.17	.61773
#1	.13492	L-.00402	269.53	L-.04733	L-.00612	L.00062	.43051
#2	.13585	L-.00401	270.99	L.01788	L-.00612	L-.00027	.43428
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00164	L.00072
SDev	.00002	.00311
%RSD	1.1754	430.04
#1	L.00162	L.00292
#2	L.00165	L-.00147
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: CCV Operator: EH
Run Time: 04/16/97 19:10:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.159	2.0359	2.0245	2.0631	2.0014	1.9670	1.9731
SDev	.029	.0092	.0315	.0065	.0090	.0005	.0095
%RSD	.05712	.44980	1.5564	.31380	.44952	.02301	.48031
#1	51.180	2.0294	2.0468	2.0677	2.0077	1.9673	1.9798
#2	51.139	2.0424	2.0022	2.0586	1.9950	1.9667	1.9664
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.518	2.0167	1.9815	2.0016	41.902	2.0173	2.0615
SDev	.141	.0003	.0019	.0050	.155	.0104	.0011
%RSD	.26873	.01341	.09474	.25070	.37026	.51759	.05138
#1	52.617	2.0165	1.9802	2.0052	42.012	2.0247	2.0623
#2	52.418	2.0169	1.9828	1.9981	41.792	2.0099	2.0608
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.454	1.9954	2.0236	1.9866	41.566	2.0358	1.8132
SDev	.072	.0071	.0107	.0167	.073	.0004	.0000
%RSD	.17439	.35557	.53074	.83846	.17577	.01910	.00010
#1	41.505	2.0004	2.0312	1.9984	41.617	2.0360	1.8132
#2	41.402	1.9904	2.0160	1.9748	41.514	2.0355	1.8132
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0087	2.0040	51.256	2.1316	2.0079	1.9996	2.0142
SDev	.0073	.0056	.137	.0606	.0029	.0047	.0044
%RSD	.36474	.28147	.26744	2.8419	.14478	.23654	.21667
#1	2.0138	2.0080	51.159	2.1744	2.0100	2.0029	2.0173
#2	2.0035	2.0000	51.353	2.0888	2.0058	1.9962	2.0111
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9868	2.1071
SDev	.0028	.0089
%RSD	.14121	.42214
#1	1.9888	2.1008
#2	1.9848	2.1134
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: EH
Run Time: 04/16/97 19:14:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01082	-.00871	-.00232	.00053	.00063	.00240	-.00054
SDev	.01632	.01607	.01509	.00045	.00023	.00096	.00097
%RSD	150.89	184.40	650.68	84.853	36.897	39.873	180.78
#1	.02236	.00265	-.01299	.00085	.00080	.00307	.00015
#2	-.00072	-.02008	.00835	.00021	.00047	.00172	-.00123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01474	-.00308	-.00266	.00223	.00710	-.00879	.00008
SDev	.01403	.00028	.00000	.00000	.00452	.00177	.00106
%RSD	95.199	9.1395	.16654	.12114	63.649	20.137	1272.8
#1	.02466	-.00328	-.00266	.00223	.01029	-.00754	.00083
#2	.00482	-.00288	-.00266	.00223	.00390	-.01005	-.00067
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00817	.00065	.00160	-.00063	-.02431	-.01012	-.00385
SDev	.01068	.00062	.00057	.00153	.03008	.01211	.00077
%RSD	130.79	94.279	35.492	242.47	123.74	119.66	20.050
#1	.01572	.00109	.00200	-.00171	-.00304	-.01868	-.00330
#2	.00061	.00022	.00120	.00045	-.04558	-.00156	-.00439
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00028	-.00093	.03662	.02769	-.00408	-.00150	-.00042
SDev	.00020	.00001	.01218	.05217	.00002	.00085	.00000
%RSD	70.661	.92631	33.276	188.43	.37551	56.630	.01924
#1	.00043	-.00093	.04523	.06458	-.00409	-.00090	-.00042
#2	.00014	-.00092	.02800	-.00920	-.00407	-.00211	-.00042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.00638	-.00012
SDev	.00297	.00724
%RSD	46.508	5846.1
#1	.00848	.00500
#2	.00428	-.00525
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: 97-04-102-22A Operator: EH
Run Time: 04/16/97 19:25:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00303	L-.00332	L.00477	.19632	L.00010	.05831	.00519
SDev	.01197	.00380	.01957	.00060	.00017	.00060	.00043
%RSD	395.11	114.28	410.17	.30677	181.54	1.0270	8.2917
#1	L-.01149	L-.00601	L.01861	.19674	L-.00003	.05788	.00549
#2	L.00543	L-.00064	L-.00907	.19589	L.00022	.05873	L.00489
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	88.668	L-.00099	L.00524	L.01116	L.04745	L-.01347	L.00050
SDev	.005	.00327	.01123	.00000	.00051	.00839	.00094
%RSD	.00536	330.07	214.13	.02324	1.0760	62.336	188.56
#1	88.671	L-.00330	L-.00270	L.01117	L.04781	L-.00753	L-.00017
#2	88.665	L.00132	.01318	L.01116	L.04708	L-.01940	L.00117
Errors	LC Pass	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.286	.09745	L.00200	L.00682	.70198	L-.00726	.66442
SDev	.018	.00031	.00000	.00177	.00860	.00441	.00195
%RSD	.14515	.31588	.00122	25.919	1.2244	60.812	.29407
#1	12.298	.09766	L.00200	L.00557	.70806	L-.00414	.66304
#2	12.273	.09723	L.00200	L.00807	.69590	L-.01038	.66580
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13571	L-.00323	268.80	L-.09957	L-.00882	L-.00043	.43597
SDev	.00034	.00053	.19	.02596	.00959	.00150	.00177
%RSD	.24769	16.337	.07139	26.075	108.68	345.97	.40623
#1	.13595	L-.00360	268.66	L-.11793	L-.01560	L-.00149	.43472
#2	.13548	L-.00286	268.93	L-.08121	L-.00204	L.00063	.43722
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Units	ppm	ppm
Avge	L.00807	L-.00396
SDev	.00301	.00009
%RSD	37.328	2.3442
#1	L.01020	L-.00390
#2	L.00594	L-.00403
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-01A Operator: EH
Run Time: 04/16/97 19:29:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.489	L.01141	.16311	.52135	L.00194	.21491	L-.00633
SDev	.124	.01199	.00030	.00196	.00001	.00185	.00200
%RSD	.55215	105.07	.18300	.37542	.28931	.86014	31.597
#1	22.401	L.00293	.16290	.51996	L.00194	.21621	L-.00774
#2	22.577	L.01988	.16333	.52273	L.00193	.21360	L-.00491
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	208.18	.02896	.03900	.14687	145.76	.13091	.04711
SDev	.56	.00113	.00000	.00015	.66	.00883	.00000
%RSD	.26666	3.9123	.00011	.10270	.45591	6.7476	.00000
#1	207.79	.02816	.03900	.14697	145.29	.13715	.04711
#2	208.58	.02976	.03900	.14676	146.23	.12466	.04711
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	51.175	7.5346	L.00713	.09872	12.298	L.02486	28.953
SDev	.252	.0296	.00057	.00302	.009	.02422	.211
%RSD	.49262	.39290	7.9385	3.0550	.06989	97.430	.72893
#1	50.997	7.5136	L.00753	.09659	12.304	L.00773	28.804
#2	51.354	7.5555	L.00673	.10085	12.292	L.04198	29.103
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.55641	L-.00381	101.25	L.00533	L-.04508	.04735	.48805
SDev	.00186	.00131	.12	.07923	.00911	.00301	.00465
%RSD	.33460	34.263	.12334	1487.3	20.206	6.3499	.95347
#1	.55510	L-.00289	101.17	L.06136	L-.05152	.04948	.48476
#2	.55773	L-.00473	101.34	L-.05070	L-.03864	.04523	.49134
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.26978	.03743
SDev	.00078	.00166
%RSD	.28855	4.4463
#1	.27033	.03860
#2	.26923	.03625
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-01A S Operator: EH
Run Time: 04/16/97 19:33:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.680	.59401	1.0092	1.4053	.87153	1.0402	.82391
SDev	.258	.00609	.0125	.0099	.00686	.0051	.00143
%RSD	.54070	1.0248	1.2353	.70711	.78751	.48719	.17347
#1	47.863	.59832	1.0180	1.4123	.87638	1.0438	.82492
#2	47.498	.58971	1.0004	1.3983	.86668	1.0366	.82290
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	227.95	.89947	.91706	1.0206	161.10	.98976	.98444
SDev	1.43	.00632	.00937	.0060	1.20	.02586	.00377
%RSD	.62605	.70234	1.0222	.59226	.74630	2.6126	.38261
#1	228.96	.90393	.91043	1.0249	161.95	1.0080	.98710
#2	226.94	.89500	.92369	1.0163	160.25	.97148	.98177
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	69.351	8.2309	.87370	.94491	30.222	.87503	29.406
SDev	.416	.0546	.01131	.00600	.189	.00329	.169
%RSD	.59962	.66318	1.2939	.63464	.62570	.37609	.57323
#1	69.645	8.2695	.88169	.94915	30.355	.87270	29.526
#2	69.057	8.1923	.86570	.94067	30.088	.87736	29.287
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4358	.84028	122.44	.87275	.78604	.92173	1.3456
SDev	.0119	.00169	.05	.02010	.02594	.00555	.0031
%RSD	.83005	.20093	.03732	2.3031	3.3001	.60185	.22975
#1	1.4442	.84147	122.47	.85854	.80439	.92565	1.3478
#2	1.4273	.83908	122.41	.88696	.76770	.91780	1.3434
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.0555	.68771
SDev	.0076	.00829
%RSD	.72144	1.2056
#1	1.0608	.68184
#2	1.0501	.69357
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-01A SD Operator: EH
Run Time: 04/16/97 19:38:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	48.095	.62041	1.0359	1.4097	.89233	1.0499	.82401
SDev	.037	.01469	.0037	.0035	.00255	.0070	.00180
%RSD	.07675	2.3677	.35899	.24566	.28559	.66784	.21842
#1	48.121	.63080	1.0385	1.4121	.89413	1.0548	.82528
#2	48.069	.61002	1.0333	1.4072	.89052	1.0449	.82274
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	300.00	80.000	20.000	100.00	100.00

Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	228.14	.90057	.92628	1.0382	164.09	.98736	.98901
SDev	.31	.00054	.00000	.0019	.16	.00176	.00459
%RSD	.13621	.05994	.00029	.17916	.09598	.17822	.46414
#1	228.36	.90095	.92628	1.0395	164.20	.98860	.99226
#2	227.92	.90019	.92628	1.0369	163.98	.98612	.98577
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	69.362	8.2612	.87971	.94955	30.358	.93392	30.276
SDev	.033	.0068	.00283	.00153	.056	.02274	.097
%RSD	.04818	.08215	.32163	.16070	.18404	2.4353	.31916
#1	69.338	8.2660	.88171	.94847	30.319	.91783	30.208
#2	69.385	8.2564	.87771	.95063	30.398	.95000	30.344
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4400	.86637	123.06	.91733	.79199	.92205	1.3726
SDev	.0021	.00161	.28	.11716	.00385	.00362	.0000
%RSD	.14397	.18543	.22772	12.772	.48669	.39295	.00162
#1	1.4414	.86524	123.26	.83449	.78927	.92461	1.3726
#2	1.4385	.86751	122.86	1.0002	.79472	.91949	1.3726
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.0735	.75457
SDev	.0002	.00823
%RSD	.02059	1.0914
#1	1.0733	.76040
#2	1.0736	.74875
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ZZZZZZ Operator: EH

Run Time: 04/16/97 19:42:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00150	L-.00535	L.00496	L.00021	L.00028	L.00231	L-.00031
SDev	.00109	.01748	.00174	.00030	.00002	.00096	.00130
%RSD	73.090	326.68	35.102	141.42	6.8955	41.429	418.38
#1	L-.00227	L.00701	L.00619	L.00000	L.00029	L.00298	L-.00123
#2	L-.00072	L-.01772	L.00373	L.00043	L.00027	L.00163	L.00061
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01684	L.00077	L-.00266	L.00134	L.01437	L-.00133	L-.00008
SDev	.00001	.00082	.00000	.00126	.00342	.00874	.00035
%RSD	.03310	106.71	.16669	94.628	23.802	656.83	424.26
#1	L.01684	L.00019	L-.00266	L.00044	L.01679	L-.00751	L-.00033
#2	L.01683	L.00134	L-.00266	L.00223	L.01196	L.00485	L.00017
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01047	L.00065	L.00240	L-.00004	L.00912	L.01064	L.00192
SDev	.00730	.00000	.00169	.00296	.02579	.01431	.00117
%RSD	69.672	.03019	70.653	7932.7	282.84	134.48	60.729
#1	L.00531	L.00065	L.00120	L.00206	L.02735	L.02075	L.00109
#2	L.01563	L.00065	L.00360	L-.00213	L-.00912	L.00052	L.00274
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00019	L-.00093	L.02800	L-.02760	L-.00645	L-.00194	L-.00042
SDev	.00007	.00052	.00000	.04421	.00143	.00020	.00001
%RSD	35.478	55.522	.00000	160.18	22.095	10.386	1.8503
#1	L.00024	L-.00057	L.02800	L-.05886	L-.00544	L-.00180	L-.00043
#2	L.00014	L-.00130	L.02800	L.00366	L-.00746	L-.00208	L-.00042
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm

Avge	L.00636	L.00296
SDev	.00303	.00250
%RSD	47.704	84.563
#1	L.00422	L.00473
#2	L.00851	L.00119
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-01B Operator: EH
Run Time: 04/16/97 19:46:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00380	L-.00849	L.01464	.03843	L.00029	.24987	L-.00065
SDev	.00431	.00889	.00951	.00045	.00002	.00242	.00000
%RSD	113.57	104.73	64.996	1.1753	6.6423	.96678	.11434
#1	L-.00075	L-.00220	L.00791	.03875	L.00028	.24817	L-.00065
#2	L-.00684	L-.01477	L.02137	.03811	L.00030	.25158	L-.00065
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	173.00	L.00058	L.00131	L.00712	.15060	L-.00492	L.00974
SDev	.53	.00000	.00186	.00063	.00325	.01408	.00059
%RSD	.30888	.21267	142.11	8.8354	2.1574	286.14	6.0436
#1	173.38	L.00058	L-.00001	L.00667	.15289	L-.01488	L.00932
#2	172.62	L.00058	L.00262	L.00756	.14830	L.00504	L.01015
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	34.448	.01258	L.00320	L.00026	9.2078	L-.01323	6.0862
SDev	.121	.00000	.00170	.00160	.0387	.00404	.0294
%RSD	.35058	.02163	53.034	610.54	.42007	30.509	.48266
#1	34.533	.01258	L.00200	L-.00087	9.2351	L-.01038	6.1070
#2	34.363	.01258	L.00440	L.00139	9.1804	L-.01609	6.0654
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52344	L-.00245	103.21	L-.05828	L-.00781	L-.00254	L.00768
SDev	.00334	.00188	.46	.01411	.00816	.00105	.00029
%RSD	.63853	76.715	.44565	24.214	104.44	41.494	3.8115
#1	.52581	L-.00378	103.54	L-.04830	L-.01358	L-.00180	L.00747
#2	.52108	L-.00112	102.89	L-.06826	L-.00204	L-.00329	L.00789
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00390	L.00410
SDev	.00601	.00211
%RSD	154.14	51.400
#1	L-.00035	L.00261
#2	L.00815	L.00559
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-01B S Operator: EH
Run Time: 04/16/97 19:50:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.472	.92771	.93690	.98456	.93841	1.1371	.88682
SDev	.170	.00036	.00930	.00933	.00927	.0026	.00505
%RSD	.69359	.03833	.99291	.94811	.98742	.22588	.56929
#1	24.592	.92746	.93032	.99116	.94496	1.1389	.89039
#2	24.352	.92796	.94347	.97796	.93186	1.1353	.88325
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	194.62	.92667	.90158	.94470	19.375	.90314	1.0045
SDev	1.39	.00245	.01310	.00375	.146	.00735	.0105
%RSD	.71612	.26464	1.4527	.39689	.75410	.81428	1.0429
#1	195.61	.92840	.91084	.94735	19.478	.90834	1.0119
#2	193.64	.93493	.89332	.94205	19.271	.89794	.99709
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	53.654	.92503	.94262	.90444	28.973	.94730	6.7531
SDev	.392	.00555	.01357	.00290	.099	.00624	.0278
%RSD	.73052	.59959	1.4396	.32099	.34117	.65838	.41234
#1	53.931	.92895	.95222	.90649	29.042	.95171	6.7728
#2	53.377	.92110	.93303	.90238	28.903	.94289	6.7334
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4602	.92009	127.36	.85266	.89788	.93212	.92475
SDev	.0141	.00187	.65	.07008	.00959	.00220	.00677
%RSD	.96825	.20283	.50947	8.2186	1.0685	.23652	.73167
#1	1.4702	.92141	127.81	.80310	.90466	.93368	.92954
#2	1.4502	.91877	126.90	.90221	.89110	.93056	.91997
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.92472	.98153
SDev	.00017	.00191
%RSD	.01872	.19432
#1	.92460	.98288
#2	.92484	.98018
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-01B SD Operator: EH
Run Time: 04/16/97 19:54:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.699	.95578	.95026	.99372	.92207	1.1503	.89709
SDev	.118	.01060	.03334	.00693	.00555	.0076	.00732
%RSD	.47954	1.1092	3.5087	.69696	.60184	.66494	.81594
#1	24.615	.94828	.92669	.98882	.91815	1.1449	.89191
#2	24.782	.96328	.97384	.99862	.92600	1.1557	.90226
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	[illegible]	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	195.75	.93860	.91610	.94641	19.631	.91968	1.0121
SDev	1.11	.01060	.00001	.00756	.134	.00880	.0085
%RSD	.56916	1.1295	.00151	.79860	.68184	.95645	.83737
#1	194.96	.93110	.91609	.94107	19.536	.92590	1.0061
#2	196.54	.94609	.91611	.95175	19.725	.91346	1.0181
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	54.066	.93767	.95701	.91652	29.155	.95510	6.8376
SDev	.306	.00678	.01018	.01367	.168	.01799	.0569
%RSD	.56575	.72328	1.0636	1.4919	.57488	1.8840	.83198
#1	53.849	.93287	.94982	.90685	29.036	.94237	6.7974
#2	54.282	.94247	.96421	.92619	29.273	.96782	6.8778
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4680	.87069	127.79	.97490	.91487	.93958	.94667
SDev	.0105	.00450	.90	.06156	.01533	.00497	.00938
%RSD	.71644	.51662	.70797	6.3142	1.6753	.52906	.99104
#1	1.4605	.86751	127.15	1.0184	.90404	.93606	.94004
#2	1.4754	.87387	128.43	.93137	.92571	.94309	.95331
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.93931	.97158
SDev	.00931	.00547
%RSD	.99135	.56248
#1	.94589	.96772
#2	.93273	.97545
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ZZZZZZ Operator: EH
Run Time: 04/16/97 19:58:33

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00614	L.00096	L.00110	L.00000	L.00026	L.00280	L-.00123
SDev	.00549	.00240	.02024	.00030	.00002	.00191	.00086
%RSD	89.382	250.08	1847.1	.00000	6.3720	68.207	70.532
#1	L-.01002	L-.00074	L.01541	L.00021	L.00027	L.00416	L-.00061
#2	L-.00226	L.00266	L-.01322	L-.00021	L.00024	L.00145	L-.00184
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.02105	L-.00096	L-.00266	L.00179	L.00444	L-.01992	L-.00017
SDev	.00680	.00000	.00000	.00063	.00042	.00351	.00024
%RSD	32.280	.45107	.00618	35.520	9.4107	17.627	141.42
#1	L.02586	L-.00097	L-.00266	L.00134	L.00473	L-.01744	L-.00033
#2	L.01625	L-.00096	L-.00266	L.00223	L.00414	L-.02241	L.00000
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01189	L.00022	L.00120	L.00025	L.02127	L.00571	L.00655
SDev	.00742	.00000	.00339	.00149	.00860	.01394	.00232
%RSD	62.368	.25109	282.88	585.71	40.406	244.26	35.389
#1	L.01713	L.00022	L.00360	L.00131	L.02735	L-.00415	L.00819
#2	L.00665	L.00022	L-.00120	L-.00080	L.01519	L.01556	L.00491
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.00014	L-.00075	L.03231	L-.05525	L.00032	L-.00090	L-.00043
SDev	.00000	.00027	.01218	.06306	.00527	.00087	.00000
%RSD	.18681	36.437	37.712	114.13	1640.5	96.826	.71118
#1	L.00014	L-.00094	L.04093	L-.01066	L.00405	L-.00028	L-.00043
#2	L.00014	L-.00055	L.02369	L-.09984	L-.00341	L-.00151	L-.00042
Errors	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00425	L.00024

SDev	.00002	.00233
%RSD	.38516	972.02
#1	L.00424	L.00189
#2	L.00427	L-.00141
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

000117

Method: ICP97 Sample Name: 97-04-092-02A Operator: EH
Run Time: 04/16/97 20:02:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.595	L.00422	L.06253	.15927	.00212	.35607	L-.00674
SDev	.299	.00344	.00422	.00030	.00003	.00287	.00106
%RSD	.94773	81.643	6.7500	.18906	1.2725	.80737	15.762
#1	31.383	L.00178	L.06552	.15905	.00210	.35811	L-.00599
#2	31.806	L.00665	L.05955	.15948	.00214	.35404	L-.00749
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	256.93	.04186	.03770	.06096	116.48	.05879	.13067
SDev	2.16	.00239	.00188	.00045	.80	.00687	.00047
%RSD	.84095	5.7091	4.9970	.74334	.68874	11.682	.36031
#1	255.40	.04355	.03637	.06064	115.91	.05394	.13034
#2	258.46	.04017	.03903	.06128	117.04	.06365	.13100
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.39	2.2824	L.00358	.08404	10.758	L.00748	31.928
SDev	.80	.0136	.00226	.00061	.090	.01724	.141
%RSD	.79960	.59381	63.079	.73154	.83894	230.59	.44061
#1	99.823	2.2728	L.00518	.08447	10.694	L-.00471	31.829
#2	100.96	2.2920	L.00199	.08361	10.821	L.01967	32.028
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	.66800	L-.00414	133.02	L-.03423	L-.04038	.05115	.27711
SDev	.00530	.00346	1.74	.08408	.00336	.00261	.00167
%RSD	.79296	83.633	1.3076	245.64	8.3148	5.0980	.60214
#1	.66425	L-.00169	131.79	L.02522	L-.04275	.05300	.27593
#2	.67174	L-.00659	134.25	L-.09368	L-.03800	.04931	.27829
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.28894	L.02989
SDev	.00640	.00258
%RSD	2.2136	8.6410
#1	.29346	L.02806
#2	.28441	.03171
Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: CCV Operator: EH
Run Time: 04/16/97 20:06:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.959	2.0197	1.9954	2.0376	1.9919	1.9707	1.9684
SDev	.097	.0108	.0237	.0056	.0082	.0115	.0060
%RSD	.18980	.53584	1.1871	.27340	.40934	.58445	.30635
#1	50.891	2.0274	1.9787	2.0336	1.9861	1.9626	1.9641
#2	51.028	2.0121	2.0122	2.0415	1.9977	1.9789	1.9727
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.349	2.0030	1.9788	1.9958	41.784	2.0012	2.0465
SDev	.167	.0071	.0056	.0006	.110	.0018	.0081
%RSD	.31828	.35338	.28264	.02992	.26230	.09232	.39685
#1	52.231	2.0080	1.9749	1.9954	41.707	1.9999	2.0408
#2	52.466	1.9980	1.9828	1.9963	41.862	2.0025	2.0523
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.223	1.9843	2.0228	1.9858	41.408	2.0267	1.8262
SDev	.100	.0012	.0051	.0086	.107	.0492	.0085
%RSD	.24207	.06219	.25155	.43427	.25947	2.4263	.46313
#1	41.153	1.9834	2.0192	1.9797	41.332	1.9919	1.8202
#2	41.294	1.9852	2.0264	1.9919	41.484	2.0614	1.8322
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0008	1.9974	50.883	2.0657	1.9987	1.9920	2.0166
SDev	.0063	.0081	.292	.0739	.0110	.0094	.0100
%RSD	.31569	.40320	.57470	3.5787	.55164	.46952	.49738
#1	1.9963	1.9917	50.676	2.0134	2.0065	1.9854	2.0095
#2	2.0053	2.0031	51.090	2.1179	1.9909	1.9986	2.0237
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9893	2.1024
SDev	.0120	.0015
%RSD	.60306	.06952
#1	1.9808	2.1034
#2	1.9978	2.1014
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: EH
Run Time: 04/16/97 20:10:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01237	-.00848	.01198	.00043	.00091	.00420	.00030
SDev	.01197	.00277	.01030	.00030	.00017	.00287	.00043
%RSD	96.753	32.629	85.949	70.711	19.102	68.280	143.34
#1	.02084	-.00653	.00470	.00064	.00103	.00623	-.00000
#2	.00391	-.01044	.01926	.00021	.00078	.00217	.00061
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01865	-.00154	-.00266	.00178	.01005	-.01499	.00017
SDev	.01276	.00027	.00000	.00190	.00568	.00701	.00165
%RSD	68.425	17.767	.16520	106.40	56.481	46.758	989.95
#1	.02767	-.00135	-.00265	.00313	.01407	-.01004	.00133
#2	.00962	-.00173	-.00266	.00044	.00604	-.01995	-.00100
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02160	.00087	.00080	-.00131	.01519	.00934	-.00247
SDev	.01469	.00031	.00170	.00315	.06876	.00881	.00889
%RSD	68.013	35.322	211.95	240.01	452.55	94.241	360.02
#1	.03199	.00109	-.00040	.00092	.06382	.01557	.00382
#2	.01121	.00065	.00200	-.00354	-.03343	.00312	-.00876
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	-.00131	.01939	-.03534	-.00375	-.00196	-.00042
SDev	.00027	.00159	.00609	.07903	.00719	.00020	.00002
%RSD	80.839	121.27	31.427	223.64	191.69	10.436	4.3513
#1	.00052	-.00019	.02369	.02054	-.00883	-.00181	-.00044
#2	.00014	-.00244	.01508	-.09122	.00133	-.00210	-.00041
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.00636	.00252
SDev	.00303	.00056
%RSD	47.680	21.973
#1	.00422	.00213
#2	.00851	.00292
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

Method: ICP97 Sample Name: 97-04-092-02B Operator: EH
Run Time: 04/16/97 20:14:56
Comment:

Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00303	L-.00628	L.00491	.05983	L.00039	.37329	L-.00048
SDev	.01407	.00100	.00906	.00060	.00014	.00368	.00043
%RSD	464.64	15.988	184.67	1.0066	36.543	.98695	90.938
#1	L-.01298	L-.00698	L.01131	.06026	L.00029	.37589	L-.00078
#2	L.00692	L-.00557	L-.00150	.05941	L.00049	.37068	L-.00017
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	227.67	L-.00407	L-.00002	L.01057	.69019	L-.01737	.04303
SDev	2.78	.00109	.00374	.00064	.00771	.00013	.00082
%RSD	1.2196	26.690	15449.	6.0156	1.1172	.73248	1.9148
#1	229.64	L-.00484	L.00262	L.01012	.69564	L-.01728	.04245
#2	225.71	L-.00330	L-.00267	L.01102	.68474	L-.01746	.04361
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	72.573	.43945	L.00160	L-.00012	5.6371	L-.00156	8.4916
SDev	.707	.00461	.00169	.00009	.0430	.01395	.0390
%RSD	.97438	1.0492	106.26	72.584	.76238	895.37	.45965
#1	73.073	.44271	L.00040	L-.00019	5.6675	L-.01142	8.5192
#2	72.073	.43619	L.00279	L-.00006	5.6067	L.00830	8.4640
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.68055	L-.00224	154.76	L-.08997	L-.00680	L-.00133	L.01211
SDev	.00998	.00027	2.76	.05829	.00191	.00193	.00150
%RSD	1.4667	12.168	1.7832	64.780	28.081	145.14	12.383
#1	.68761	L-.00243	156.72	L-.04876	L-.00545	L-.00269	L.01105
#2	.67350	L-.00204	152.81	L-.13119	L-.00815	L.00003	L.01317
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00759	L.00135
SDev	.00288	.00381

%RSD	37.901	282.61
#1	L.00963	L.00404
#2	L.00556	L-.00134
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-03A Operator: EH
Run Time: 04/16/97 20:19:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.772	L.01078	L.03522	.12871	L.00158	.34985	L-.00537
SDev	.149	.00204	.01129	.00045	.00004	.00153	.00033
%RSD	.68521	18.941	32.060	.35093	2.6970	.43727	6.1893
#1	21.666	L.00934	L.02723	.12839	L.00161	.35093	L-.00561
#2	21.877	L.01222	L.04320	.12903	L.00155	.34877	L-.00514
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	243.98	.02893	.02598	.04451	75.006	L.03172	.10079
SDev	1.16	.00003	.00000	.00072	.405	.00536	.00035
%RSD	.47738	.11592	.00057	1.6298	.54025	16.896	.35034
#1	243.16	.02891	.02598	.04503	74.719	L.03551	.10054
#2	244.81	.02895	.02598	.04400	75.292	L.02793	.10104
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	88.545	1.5466	L.00359	.05548	9.5846	L-.00003	27.439
SDev	.391	.0071	.00113	.00003	.0387	.02421	.134
%RSD	.44121	.45813	31.458	.05032	.40354	71008.	.48740
#1	88.269	1.5416	L.00279	.05550	9.6119	L.01709	27.345
#2	88.822	1.5516	L.00439	.05546	9.5572	L-.01716	27.534
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.67545	L-.00326	142.75	L-.11836	L-.03156	.03405	.18349

SDev	.00426	.00130	.49	.10628	.00337	.00214	.00005
%RSD	.63062	39.955	.34144	89.795	10.668	6.2816	.02461
#1	.67244	L-.00234	142.40	L-.19351	L-.03394	.03556	.18353
#2	.67846	L-.00418	143.09	L-.04321	L-.02918	.03254	.18346
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.20618	L.01959
SDev	.00015	.00605
%RSD	.07429	30.888
#1	.20628	L.02387
#2	.20607	L.01531
Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-03B Operator: EH
Run Time: 04/16/97 20:23:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00229	L-.00479	L.01335	.05930	L.00039	.37127	L-.00103
SDev	.00004	.00988	.00099	.00045	.00013	.00261	.00033
%RSD	1.5405	206.46	7.4451	.76170	34.353	.70391	31.554
#1	L-.00226	L-.01178	L.01265	.05962	L.00030	.37312	L-.00126
#2	L-.00231	L.00220	L.01406	.05898	L.00048	.36942	L-.00080
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	227.81	L-.00291	L-.00265	L.00743	.77580	L-.00878	.04303
SDev	1.26	.00326	.00001	.00126	.00736	.00178	.00082
%RSD	.55456	112.10	.23839	17.019	.94857	20.268	1.9148
#1	228.71	L-.00522	L-.00265	L.00653	.78100	L-.01004	.04361
#2	226.92	L-.00060	L-.00266	L.00832	.77060	L-.00752	.04245
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	73.198	.45143	L-.00160	L.00458	5.6462	L-.01271	8.5345
SDev	.406	.00246	.00169	.00142	.0645	.02165	.0525
%RSD	.55417	.54454	105.70	31.010	1.1417	170.29	.61570
#1	73.485	.45317	L-.00280	L.00558	5.6918	L-.02802	8.5717
#2	72.911	.44969	L-.00041	L.00357	5.6006	L.00259	8.4974
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.67926	L-.00698	153.81	L-.14617	L.00406	L-.00119	L.01438
SDev	.00553	.00109	.41	.02307	.00191	.00172	.00002
%RSD	.81466	15.665	.26934	15.782	46.936	143.99	.10799
#1	.68318	L-.00775	154.11	L-.12986	L.00541	L-.00241	L.01437
#2	.67535	L-.00620	153.52	L-.16249	L.00271	L.00002	L.01439
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L-.00126	L.00118
SDev	.00311	.00500
%RSD	246.24	422.86
#1	L-.00346	L.00472
#2	L.00093	L-.00235
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-04A Operator: EH
Run Time: 04/16/97 20:27:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.00463	L.00289	L.00355	.03694	L.00014	.25941	L-.00093
SDev	.00547	.01136	.01322	.00015	.00015	.00032	.00043
%RSD	118.11	393.18	372.22	.40756	105.52	.12286	46.697
#1	L-.00076	L-.00514	L-.00580	.03705	L.00024	.25918	L-.00123
#2	L-.00850	L.01092	L.01290	.03684	L.00004	.25963	L-.00062
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	180.79	L-.00042	L-.00530	L.00536	L.03210	L-.00884	.03104
SDev	.16	.00191	.00000	.00063	.00100	.02629	.00059
%RSD	.08652	451.59	.00137	11.757	3.1170	297.26	1.8957
#1	180.90	L.00093	L-.00530	L.00581	L.03281	L.00975	.03063
#2	180.68	L-.00177	L-.00530	L.00492	L.03139	L-.02744	.03146
Errors	LC Pass	LC Low	LC Low	LC Low	LC Low	LC Low	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	37.969	.20159	L.00120	L.00104	8.8553	L.00675	7.1136
SDev	.009	.00031	.00339	.00401	.0473	.00881	.0135
%RSD	.02460	.15295	283.11	384.23	.53385	130.51	.19035
#1	37.976	.20137	L.00360	L-.00179	8.8218	L.00052	7.1231
#2	37.963	.20181	L-.00120	L.00388	8.8887	L.01298	7.1040
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47600	L-.00435	148.66	L-.06610	L.00033	L-.00102	L.01494
SDev	.00087	.00079	.30	.06997	.01490	.00231	.00058
%RSD	.18242	18.142	.19876	105.86	4534.0	227.48	3.8686
#1	.47662	L-.00491	148.87	L-.11558	L.01087	L-.00265	L.01453
#2	.47539	L-.00379	148.45	L-.01662	L-.01021	L.00062	L.01535
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L-.00106	L.00123
SDev	.00005	.00477
%RSD	4.3506	386.98
#1	L-.00103	L-.00214
#2	L-.00110	L.00460
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-04B Operator: EH
Run Time: 04/16/97 20:31:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.830	L.00962	L.07377	.32088	L.00113	.23589	L-.00359
SDev	.099	.00617	.00025	.00181	.00004	.00128	.00081
%RSD	.91418	64.138	.33557	.56307	3.2175	.54044	22.629
#1	10.760	L.01398	L.07359	.31960	L.00111	.23499	L-.00416
#2	10.900	L.00526	L.07394	.32215	L.00116	.23679	L-.00301
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	195.26	.01904	L.00477	.05854	56.626	.05225	.04719
SDev	.84	.00081	.00002	.00068	.218	.00359	.00012
%RSD	.43190	4.2280	.44862	1.1580	.38505	6.8676	.24942
#1	194.67	.01961	L.00475	.05902	56.472	.05478	.04727
#2	195.86	.01847	L.00478	.05806	56.780	L.04971	.04711
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	49.246	3.4016	L.00517	.03596	10.293	L.02204	19.958
SDev	.184	.0133	.00000	.00257	.112	.02165	.233
%RSD	.37358	.38977	.02563	7.1330	1.0856	98.208	1.1678
#1	49.115	3.3922	L.00517	.03778	10.214	L.03735	19.794
#2	49.376	3.4110	L.00517	.03415	10.372	L.00673	20.123
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46331	L-.00309	137.73	L.00976	L-.02544	.02058	.25740
SDev	.00212	.00103	.55	.01612	.00335	.00084	.00205
%RSD	.45749	33.476	.39588	165.19	13.153	4.0930	.79650
#1	.46181	L-.00382	137.35	L-.00164	L-.02781	.01998	.25595
#2	.46481	L-.00236	138.12	L.02115	L-.02308	.02117	.25885
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.21919	L.02226
SDev	.00941	.00486
%RSD	4.2927	21.826

#1	.22584	L.01883
#2	.21253	L.02570

Errors	LC Pass	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-05A Operator: EH
Run Time: 04/16/97 20:35:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	168.68	k.15028	k1.1531	10.424	k.01444	k.06583	k-.18322
SDev	2.08	.01143	.0293	.167	.00035	.00663	.00413
%RSD	1.2327	7.6053	2.5402	1.5989	2.4502	10.071	2.2537
#1	167.21	k.14220	k1.1324	10.306	k.01419	k.07051	k-.18614
#2	170.15	k.15836	k1.1738	10.542	k.01469	k.06114	k-.18030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	240.85	k.31552	k.51821	k1.1537	S1884.4	k1.1341	.31652
SDev	3.27	.00009	.00002	.0215	.1	.0266	.00388
%RSD	1.3578	.02866	.00356	1.8659	.00449	2.3497	1.2272
#1	238.54	k.31546	k.51822	k1.1385	S1884.4	k1.1152	.31377
#2	243.16	k.31559	k.51820	k1.1689	S1884.3	k1.1529	.31927
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	k93.099	k69.745	k.08414	k1.1180	26.979	k.16753	k22.287
SDev	1.094	.936	.00169	.0190	.340	.00549	.297
%RSD	1.1748	1.3426	2.0048	1.6955	1.2584	3.2797	1.3337
#1	k92.326	k69.082	k.08295	k1.1046	26.739	k.17142	k22.077
#2	k93.873	k70.407	k.08534	k1.1314	27.219	k.16365	k22.497
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.79681	k.02264	157.41	k.24104	k-.41884	k.32980	k5.3456
SDev	.01164	.00012	2.34	.04351	.00381	.00165	.0709

%RSD	1.4613	.52804	1.8036	18.050	.91074	.49895	1.3265
#1	.78858	k.02256	155.40	k.21028	k-.41614	k.32864	k5.2954
#2	.80504	k.02273	159.42	k.27181	k-.42154	k.33096	k5.3957
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	k.32199	k.27818
SDev	.00667	.00025
%RSD	2.0713	.09142
#1	k.32671	k.27800
#2	k.31727	k.27836
Errors	LC Pass	LC Pass
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: 97-04-092-05B Operator: EH
Run Time: 04/16/97 20:39:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L.01004	L-.00243	L.01528	.03013	L.00026	.30997	L-.00004
SDev	.00872	.00374	.00143	.00075	.00004	.00516	.00001
%RSD	86.877	153.71	9.3786	2.4986	13.470	1.6657	13.715
#1	L.01620	L-.00508	L.01630	.03066	L.00029	.31362	L-.00005
#2	L.00387	L.00021	L.01427	.02960	L.00024	.30632	L-.00004
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Low
High	750.00	100.00	200.00	80.000	20.000	100.00	100.00
Low	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	147.95	L.00038	L-.00267	L.00756	.16436	L-.00133	L.01665
SDev	.70	.00081	.00000	.00000	.02491	.00875	.00094
%RSD	.47553	214.35	.02672	.04950	15.159	657.21	5.6569
#1	148.44	L.00096	L-.00267	L.00756	.18198	L.00486	L.01731
#2	147.45	L-.00020	L-.00267	L.00756	.14674	L-.00752	L.01598
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Low
High	750.00	100.00	100.00	100.00	250.00	500.00	100.00
Low	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.139	.05105	L.00280	L.00175	7.4847	L-.00389	6.1280

SDev	.007	.00123	.00339	.00119	.0344	.00330	.0298
%RSD	.02478	2.4151	121.18	68.057	.45934	84.901	.48577
#1	30.144	.05193	L.00040	L.00259	7.4604	L-.00155	6.1490
#2	30.134	.05018	L.00520	L.00091	7.5090	L-.00622	6.1069
Errors	LC Pass	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	750.00	80.000	100.00	100.00	1000.0	200.00	100.00
Low	.10000	.00500	.01000	.02000	.20000	.10000	.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31866	L-.00290	163.29	L-.08043	L-.00340	L-.00134	L.01679
SDev	.00105	.00054	1.71	.00899	.00287	.00062	.00177
%RSD	.32913	18.640	1.0447	11.181	84.656	46.163	10.519
#1	.31940	L-.00328	164.50	L-.07407	L-.00136	L-.00090	L.01803
#2	.31792	L-.00252	162.09	L-.08679	L-.00543	L-.00178	L.01554
Errors	LC Pass	LC Low	LC Pass	LC Low	LC Low	LC Low	LC Low
High	100.00	9.0000	1000.0	100.00	100.00	100.00	100.00
Low	.02000	.01000	.50000	.20000	.10000	.01000	.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	L.00716	L.00119
SDev	.00006	.00469
%RSD	.84511	393.89
#1	L.00712	L.00451
#2	L.00720	L-.00213
Errors	LC Low	LC Low
High	100.00	75.000
Low	.02000	.03000

Method: ICP97 Sample Name: ICSAF Operator: EH
Run Time: 04/16/97 20:43:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	474.32	.02815	-.00378	.00106	.00025	-.01987	-.00842
SDev	.09	.00889	.00345	.00000	.00026	.00083	.00086
%RSD	.01859	31.580	91.319	.00000	104.21	4.1707	10.208
#1	474.38	.02186	-.00134	.00106	.00007	-.02045	-.00902
#2	474.26	.03444	-.00621	.00106	.00044	-.01928	-.00781
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	200.00	100.00	20.000	50.000	100.00
Low	400.00	-.20000	-.20000	-.00800	-.00400	-.10000	-.01000

Elem	Ca3158	Cr3677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Avge	469.76	-.00297	-.00260	-.02230	180.25	.10729	.00166
SDev	.00	.00053	.00000	.00063	.03	.00709	.00071
%RSD	.00036	18.011	.03542	2.8100	.01409	6.6109	42.426
#1	469.76	-.00335	-.00260	-.02275	180.24	.10228	.00216
#2	469.76	-.00259	-.00260	-.02186	180.27	.11231	.00117
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	220.00	500.00	100.00
Low	400.00	-.02000	-.02000	-.04000	160.00	-.10000	-.04000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	485.19	.00835	.00120	-.02023	-.03039	.06147	.05109
SDev	.44	.00001	.00000	.00040	.02149	.02018	.00425
%RSD	.09046	.11241	.27546	1.9891	70.711	32.831	8.3152
#1	485.50	.00834	.00120	-.01994	-.01519	.04720	.05409
#2	484.88	.00835	.00121	-.02051	-.04558	.07574	.04809
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	100.00	100.00	100.00	1000.0	200.00	100.00
Low	400.00	-.01000	-.02000	-.04000	-.40000	-.20000	-1.0000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01437	-.00430	-.01508	.00826	-.05760	-.00101	.01555
SDev	.00000	.00029	.01828	.02606	.00098	.00085	.00000
%RSD	.00046	6.7008	121.22	315.72	1.6994	84.297	.00158
#1	-.01437	-.00409	-.00215	-.01017	-.05690	-.00161	.01555
#2	-.01437	-.00450	-.02800	.02669	-.05829	-.00041	.01555
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	10.000	1000.0	100.00	100.00	100.00	100.00
Low	-.02000	-.02000	-1.0000	-.80000	-.20000	-.02000	-.04000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	-.02151	.01568
SDev	.00006	.01106
%RSD	.26124	70.497
#1	-.02147	.00787
#2	-.02155	.02350
Errors	LC Pass	LC Pass
High	100.00	100.00
Low	-.10000	-.06000

Method: ICP97 Sample Name: ICSABF Operator: EH
Run Time: 04/16/97 20:47:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265

Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	476.59	.95240	1.7427	.47088	.45352	.88034	.85355
SDev	4.16	.01982	.0040	.00467	.00513	.00521	.00685
%RSD	.87369	2.0815	.23199	.99119	1.1310	.59226	.80253
#1	479.54	.93839	1.7398	.47418	.45715	.88403	.85840
#2	473.65	.96642	1.7455	.46758	.44990	.87665	.84871
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	1.2000	2.4000	.60000	.60000	1.2000	1.2000
Low	400.00	.80000	1.6000	.40000	.40000	.80000	.80000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	469.35	.44730	.44808	.44276	179.72	.98885	.98319
SDev	3.84	.00391	.00375	.00279	1.60	.01652	.00953
%RSD	.81873	.87485	.83631	.63034	.89074	1.6702	.96970
#1	472.07	.45006	.45073	.44473	180.85	1.0005	.98993
#2	466.63	.44453	.44543	.44079	178.59	.97717	.97645
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	.60000	.60000	.60000	240.00	1.2000	1.2000
Low	400.00	.40000	.40000	.40000	160.00	.80000	.80000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	484.19	.44721	.92222	.85236	4.5613	1.0044	L3.5131
SDev	3.81	.00332	.01187	.01040	.0086	.0066	.0313
%RSD	.78721	.74142	1.2874	1.2205	.18844	.65864	.89193
#1	486.89	.44955	.93062	.85971	4.5674	1.0091	L3.5352
#2	481.50	.44486	.91383	.84500	4.5553	.99976	L3.4909
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	600.00	.60000	1.2000	1.2000	6.0000	1.2000	6.1200
Low	400.00	.40000	.80000	.80000	4.0000	.80000	4.0800

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.89601	.93638	4.7624	.99950	.92146	.44943	.90079
SDev	.01021	.00569	.0305	.07043	.00242	.00509	.00237
%RSD	1.1394	.60742	.63963	7.0470	.26244	1.1337	.26345
#1	.90323	.94040	4.7840	.94969	.92317	.45304	.89911
#2	.88879	.93236	4.7409	1.0493	.91975	.44583	.90247
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	1.2000	6.0000	1.2000	1.2000	.60000	1.2000
Low	.80000	.80000	4.0000	.80000	.80000	.40000	.80000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.86856	.93639
SDev	.00313	.00258
%RSD	.36063	.27534

#1	.86634	.93457
#2	.87077	.93822
Errors	LC Pass	LC Pass
High	1.2000	1.2000
Low	.80000	.80000

Method: ICP97 Sample Name: CCV Operator: EH
Run Time: 04/16/97 20:51:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.867	2.0329	2.0287	2.0479	1.9885	1.9704	1.9693
SDev	.034	.0032	.0036	.0009	.0006	.0002	.0051
%RSD	.06637	.15545	.17956	.04412	.03041	.00972	.25772
#1	50.891	2.0351	2.0261	2.0485	1.9890	1.9703	1.9658
#2	50.843	2.0306	2.0313	2.0473	1.9881	1.9706	1.9729
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	52.168	2.0101	1.9828	1.9977	41.396	2.0275	2.0469
SDev	.024	.0046	.0000	.0057	.024	.0140	.0045
%RSD	.04636	.22987	.00187	.28385	.05829	.68963	.21851
#1	52.151	2.0069	1.9828	1.9937	41.378	2.0374	2.0501
#2	52.185	2.0134	1.9828	2.0017	41.413	2.0176	2.0438
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.344	1.9751	2.0352	1.9768	41.392	2.0425	1.8306
SDev	.049	.0025	.0147	.0031	.043	.0202	.0054
%RSD	.11894	.12501	.72218	.15870	.10383	.98852	.29724
#1	41.309	1.9734	2.0248	1.9745	41.423	2.0282	1.8268
#2	41.378	1.9769	2.0456	1.9790	41.362	2.0568	1.8345
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	2.0000	2.0000	2.0000	40.000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0020	1.9951	50.633	2.0873	2.0086	1.9873	2.0300
SDev	.0015	.0017	.359	.0320	.0048	.0008	.0041
%RSD	.07396	.08392	.70991	1.5319	.23832	.03825	.20331

#1	2.0030	1.9939	50.887	2.0646	2.0120	1.9879	2.0271
#2	2.0009	1.9963	50.379	2.1099	2.0052	1.9868	2.0329
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	50.000	2.0000	2.0000	2.0000	2.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	1.9853	2.1051
SDev	.0181	.0092
%RSD	.90922	.43493
#1	1.9725	2.1116
#2	1.9981	2.0986
Errors	QC Pass	QC Pass
Value	2.0000	2.0000
Range	10.000	10.000

Method: ICP97 Sample Name: CCB Operator: EH
Run Time: 04/16/97 20:55:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2265
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01237	-.00680	.01673	.00021	.00076	.00447	.00061
SDev	.01195	.00783	.00707	.00000	.00001	.00185	.00086
%RSD	96.554	115.24	42.277	.00000	.64868	41.342	142.54
#1	.02082	-.01234	.01173	.00021	.00076	.00578	.00122
#2	.00393	-.00126	.02174	.00021	.00076	.00316	-.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.10000	.10000	.00400	.00200	.05000	.00500
Low	-.10000	-.10000	-.10000	-.00400	-.00200	-.05000	-.00500

Elem	Ca3158	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02948	.00057	-.00267	.00312	.02206	.00857	.00008
SDev	.00511	.00054	.00000	.00127	.00460	.00528	.00059
%RSD	17.341	94.595	.03307	40.544	20.841	61.636	707.11
#1	.03309	.00096	-.00267	.00223	.02532	.00484	-.00033
#2	.02586	.00019	-.00267	.00402	.01881	.01231	.00050
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.01000	.01000	.02000	.10000	.05000	.02000
Low	-.20000	-.01000	-.01000	-.02000	-.10000	-.05000	-.02000

Elem	Mg2790	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Si2881
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02156	.00044	-.00040	-.00160	.00608	-.00467	.00082
SDev	.00213	.00031	.00113	.00395	.05587	.00440	.00194

%RSD	9.8711	70.757	282.89	246.77	919.24	94.394	235.06
#1	.02306	.00065	-.00120	.00119	.04558	-.00155	.00219
#2	.02005	.00022	.00040	-.00440	-.03343	-.00778	-.00055
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.00500	.01000	.02000	.20000	.10000	.50000
Low	-.10000	-.00500	-.01000	-.02000	-.20000	-.10000	-.50000

Elem	Sr4215	Ag3280	Na5889	Tl3775	Sn1899	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	-.00167	.03016	-.07569	-.01322	-.00031	-.00043
SDev	.00027	.00106	.02132	.02991	.00239	.00169	.00001
%RSD	81.032	63.878	70.711	39.518	18.081	550.16	2.2372
#1	.00052	-.00091	.04523	-.05454	-.01153	.00089	-.00043
#2	.00014	-.00242	.01508	-.09684	-.01491	-.00151	-.00042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.02000	.01000	.50000	.20000	.10000	.01000	.02000
Low	-.02000	-.01000	-.50000	-.20000	-.10000	-.01000	-.02000

Elem	Ti3248	Zr2677
Units	ppm	ppm
Avge	.01278	.00067
SDev	.00003	.00116
%RSD	.20659	174.19
#1	.01276	.00149
#2	.01279	-.00015
Errors	LC Pass	LC Pass
High	.05000	.03000
Low	-.05000	-.03000

ROSS ANALYTICAL SERVICES, INC.
SW-846 3010A Total Metals in Aqueous Samples
ICP Digestion Procedure

Method: EPA SW-846 3010A	Logbook # IP-3
Matrix: Waters, Wastewaters, TCLP Extracts	Page # 76
Test Code: 3010	Analyst: DL
Start Date & Time: 4/15/97 0930	Checker: BW
Finish Date & Time: 4/15/97 1230	Storage: RT2C
Client(s): SMITH_TECH	

QC TRACKING			WO # RASI ID	INITIAL VOLUME (mL)	SPIKE ADDED (uL)	FINAL VOLUME (mL)	COMMENTS
Preparation Blank Tracking #			PBW- 4499	50		50	
Laboratory Control Standard Tracking #			LCSW- 4616	50	500		
No.	MS	MSD		10			TCLP Leachate
1			97-04-102-01A				
	X		-01A		500*		
		X	-01A		500*		
2			-02A				
3			-03A				
4			-04A				
5			-05A				
6			-06A				
7			-07A				
8			-08A				
9			-09A				
10			-10A				
11			-11A				
12			-12A				
13			-13A				
14			-14A				
15			-15A				
16			-16A				
17			-17A				
18			-18A				
			BBLK0060				TCLP Blank
			BBLK0061				
			BBLK0062				

-01
-03A
-12A-

For Prep Use Only: WATERS	1.5 mL conc. HNO3	1.5 mL conc. HNO3	5 mL 1:1 HCl

LCS & MS Spike Solution ID
RN 3033 / * RN2961

HNO3 - K43025
HCL L01055

ROSS ANALYTICAL SERVICES, INC.
SW-846 3010A Total Metals in Aqueous Samples
ICP Digestion Procedure

Method: EPA SW-846 3010A	Logbook # IP- 3
Matrix: Waters, Wastewaters, TCLP Extracts	Page # [illegible]
Test Code: 3010	Analyst: BW
Start Date & Time: 4-16-97/1300	Checker: BW
Finish Date & Time: 4-16-97/18:00	Storage: RT2C
Client(s): SMITH_TECH, EMG, EMG, WESTING-WIPP, WESTING-WIPP	

QC TRACKING			WO # RASI ID	INITIAL VOLUME (mL)	SPIKE ADDED (uL)	FINAL VOLUME (mL)	COMMENTS
Preparation Blank Tracking #			PBW- 4508	50		50	
Laboratory Control Standard Tracking #			LCSW- 4625	50	500		
No.	MS	MSD					
1			97-04-102-19A	10			TCLP
	X		-19A		500		
		X	-19A		500		
2			-20A				
3			-21A				
4			-22A				
5			BBLK0063				
6			97-04-092-01A	50			water
	X		-01A		500		
		X	-01A		500		
7			-01B				
	X		-01B		500		
		X	-01B		500		
8			-02A				
9			-02B				
10			-03A	BW 4/16/97			
11			-03B				
12			-04A				
13			-04B				
14			-05A				
15			-05AB				

For Prep Use Only: WATERS	1.5 mL conc. HNO3	1.5 mL conc. HNO3	5 mL 1:1 HCl
	✓	✓	✓
	K43025		L01055

LCS & MS Spike Solution ID
RN3033/RN2961

000168

DATA REVIEW CHECKLIST – ICP Metals

Analysis code ICP

Client code SMITH TECH	Work Order 97-04-102	Analyst Check Y/N	Reviewer Check Y/N	QC Dept. Check Y/N
Initial calibration				
	Raw data present	✓		
	High level check standard is within limits	✓		
	ICV is within limits	✓		
	ICB is within limits	✓		
	Low level check standard is within limits	✓		
	ICSA/AB are within limits	✓		
Calibration verification				
	CCV's are after initial cal, every 10 samples, and at end	✓		
	CCB's are after initial cal, every 10 samples, and at end	✓		
	CCV's and CCB's are within limits	✓		
	ICSA/AB are every 8 hours and at end	✓		
	ICSA/AB are within limits	✓		
Method blanks				
	Data for all applicable blanks are present	✓		
	All targets are <EQL or <5% of sample concentrations	✓		
Laboratory Control Samples				
	Data for all applicable LCS's are present	✓		
	Recoveries are within limits	✓		
Sample data				
	Data for all samples are present	✓		
	Client and lab sample IDs are correct	✓		
	Sample weight/volume, digest volume, dilution factor, % moisture are correct	✓		
	No element saturates, or sample is diluted	✓		
	No carryover evident	✓		
MS/MSD				
	Data for all applicable MS/MSD's are present	✓		
	Sample weight/volume, digest volume, dilution factor, % moisture are correct	✓		
	No element saturates, or sample is diluted	✓		
	% Recoveries are within limits or post–spike is done	✓		
Miscellaneous				
	ICP–>Ward or ICP–>Lotus transfer OK	✓		
	All hand calculations verified	✓		
	Sequence summary present	✓		
	Work order present	✓		
	Narrative present if needed	✓		
	Digestion summaries present	✓		
	Nonconformances present if needed	✓		
	Additional comments on back of page?	✓		

Cm
4/17/97

BBLK0060 goes with 01A → 06A
BBLK0061 goes with 07A → 12A
BBLK0062 goes with 13A → 18A

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER SJ

	B1	B2	1	2	3	4	5
LAB NUMBER	BLK0060	BLK0061	97-04-102-01A	97-04-102-02A	97-04-102-03A	97-04-102-04A	97-04-102-05A
CLIENT			Smith-Tech	→	→	→	→
MATRIX			Soil	→	→	→	→
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *							
WEIGHT LEACHED			100 g	→	→	→	→
VOL EXTR FLUID	2000 mL	→	2000 mL	→	→	→	→
FLUID TYPE (1 or 2)	1	1	1	1	1	→	→
FLUID pH	RB ~~2.87~~ 4.93	4.95	4.93	4.93	4.95	→	→
EXT NO. | RPM	A | 30	A | 30	A | 30	A | 30	A | 30	A | 30	A | 30
pH OF LEACHATE	4	5	6	4	6	6	6
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START | STOP: DATE	4/14/97 | 4/15/97	→	→	→	→	→	→
TIME	4:00P | 8:00A	→	→	→	→	→	→
TEMP	22.5 | 22.5	→	→	→	→	→	→
ANALYST	RB | RB	→	→	→	→	→	→

* from Preliminary Determinations page

P:BOT_EXT.WK3

000169 000170

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER SJ

	B1	B2	1	2	3	4	5
LAB NUMBER	B1K0016		97-04-102-06A	97-04-102-07A	97-04-102-08A	97-04-102-09A	97-04-102-10A
CLIENT			Smith-Tech	→	→	→	→
MATRIX			Soil	→	→	→	→
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *							
WEIGHT LEACHED			100g	→	→	→	→
VOL EXTR FLUID	2000 mL		→	→	→	→	→
FLUID TYPE (1 or 2)	1		→	→	→	→	→
FLUID pH	4.95		→	→	→	→	→
EXT NO. | RPM	A | 30	|	A | 30	B | 30	B | 30	B | 30	B | 30
pH OF LEACHATE	5		6	6	6	5	5
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START|STOP: DATE	4/14/97 | 4/15/97	|	→ |	→ |	→ |	→ |	→ |
TIME	4:00P | 8:00A	|	→ |	→ |	→ |	→ |	→ |
TEMP	22.5° | 22.5	|	→ |	→ |	→ |	→ |	→ |
ANALYST	RB | RB	|	→ |	→ |	→ |	→ |	→ |

* from Preliminary Determinations page

P:BOT_EXT.WK3

Ross Analytical Services, Inc.

TCLP Bottle Logbook # 3, page 000115 B

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER

	B1	B2	1	2	3	4	5
LAB NUMBER	BLK 0061	BLK 0062	97-04-102-11A	97-04-102-12A	97-04-102-13A	97-04-102-14A	97-04-102-15A
CLIENT			Smith Tech				
MATRIX			Soil				
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *							
WEIGHT LEACHED			100 g				
VOL EXTR FLUID	2000 mL						
FLUID TYPE (1 or 2)	1	1	1	1			
FLUID pH	4.95	4.97	4.95	4.97			
EXT NO. | RPM	A | 30	A | 30	B | 30	B | 30	C | 30	C | 30	C | 30
pH OF LEACHATE	5	4	5	5	5	5	6
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START|STOP: DATE	4/14/97 | 4/15/97	|	|	|	|	|	|
TIME	4:00P | 8:00A	|	|	|	|	|	|
TEMP	22.5° | 22.5	|	|	|	|	|	|
ANALYST	RB | RB	|	|	|	|	|	|

* from Preliminary Determinations page

P:BOT_EXT.WK3

Ross Analytical Services, Inc.

TCLP Bottle Logbook # 3, page 000116 B

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER SJ

	B1	B2	1	2	3	4	5
LAB NUMBER	B1X00167		97-04-102-1VA	97-04-102-1VA	97-04-102-1VA		
CLIENT			Smith-Tech	→	→		
MATRIX			Soil	→	→		
BEAKER TARE							
SAMPLE WEIGHT							
BEAKER + RESIDUE							
WEIGHT FILTERED							
% SOLIDS *							
WEIGHT LEACHED			100g	→	→		
VOL EXTR FLUID	2000mL		→	→	→		
FLUID TYPE (1 or 2)	1		1	→	→		
FLUID pH	4.97		4.97	→	→		
EXT NO. | RPM	A | 30	|	C | 30	C | 30	C | 30	|	|
pH OF LEACHATE	4		6	5	6		
AQUEOUS PREFILT:							
VOLUME							
ORGANIC PREFILT:							
VOLUME							
DENSITY							
TOTAL VOLUME, AQUEOUS PHASES							
START|STOP: DATE	4/14/97 | 4/15/97	|	→ |	→ |	→ |	|	|
TIME	4:00P | 8:00A	|	→ |	→ |	→ |	|	|
TEMP	22.5° | 22.5°	|	→ |	→ |	→ |	|	|
ANALYST	RB | RB	|	→ |	→ |	→ |	|	|

* from Preliminary Determinations page

P:BOT_EXT.WK3

Ross Analytical Services, Inc.

TCLP Bottle Logbook #3, page ~~000117~~ B

TCLP BOTTLE EXTRACTION SUMMARY

CHECKER RB

	B1	B2	1	2	3	4	5
B NUMBER	BB1K00103		97-04-103-19A	97-04-103-20A	97-04-103-21A	97-04-103-22A	
ENT			Smith-Tech	→	→	→	
TRIX			Soil	→	→	→	
AKER TARE							
MPLE WEIGHT							
AKER + RESIDUE							
IGHT FILTERED							
SOLIDS *							
IGHT LEACHED			100 g	→	→	→	
L EXTR FLUID	2000 mL		→	→	→	→	
UID TYPE (1 or 2)	1		→	→	→	→	
UID pH	4.97		→	→	→	→	
T NO. | RPM	A | 30	|	A | 30	A | 30	A | 30	A | 30	|
OF LEACHATE	5		5	5	6	6	
UEOUS PREFILT:							
VOLUME							
GANIC PREFILT:							
VOLUME							
DENSITY							
TAL VOLUME, QUEOUS PHASES	225 ml	→	→	→	→	→	
ART|STOP: DATE	4/15/97 | 4/16/97	|	|	|	|	|	|
TIME	4:00 | 8:00a	|	|	|	|	|	|
TEMP	22.5° | 21.5°	|	|	|	|	|	|
ANALYST	RS | SG	|	|	|	|	|	|

* from Preliminary Determinations page

P:BOT_EXT.WK3

97-04-102

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

U.S. EPA TECHNICAL ASSISTANCE TEAM CONTRACTOR

000174

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

~~000173~~

Lab contact: Dale Mori

Activity Code:

PROJ. NO.	PROJECT NAME

SAMPLERS: *(Print Name and Sign)* Jeff Kimble [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: TCLP lead	TCLP Cadmium	TCLP chrome				TAG NUMBERS
DEGP1A	4.10.97	1015		X	Near Bldg 1	1	X	X	X				
DEGP1B	↓	1015		X	↓	1	X	X	X				
DEGP2A		1140		X	[illegible]	1	X	X	X				
DEGP2B		1140		X	↓	1	X	X	X				
DEGP3A		1430		X	Near Bldg 2	1	X	X	X				
DEGP3B		1430		X		1	X	X	X				
DEGP4A		1520		X		1	X	X	X				
DEGP4B	↓	1520		X	↓	1	X	X	X				

[signature] 4°C

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Ship To:
[signature]	4.11.97 826pm		
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* [signature]	ATTN:
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* [signature] Date / Time 4/14/97 0800	Airbill Number
			Chain of Custody Seal Numbers

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

Printed on Recycled Paper/Printed with Soy-Based Ink

5-35557

97-04-102

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

~~000174~~ 000175

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	Activity Code:

SAMPLERS: *(Print Name and Sign)* Jeff Kimble [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: TCLP Lead	TCLP Cadmium	TCLP Chrome				TAG NUMBERS
DE1AIA	4-11-97	1000		X	Near Bldng 1	1	X	X	X				
DE1BIA		1000		X		1	X	X	X				QA/QC level II
DE2AIA		1025		X		1	X	X	X				Master subcontract 2400-3
DE2BIA		1025		X		1	X	X	X				
DE3AIA		1100		X	Driveway	1	X	X	X				Turnaround:
DE3BIA		1100		X		1	X	X	X				5 day verbal
DE4AIA		1120		X		1	X	X	X				14 day Hard copy
DE4BIA		1120		X		1	X	X	X				
DE5AIA		1315		X		1	X	X	X				per OSWER directive
DE5BIA		1315		X		1	X	X	X				EPA/540/G-90/004
DE6AIA		1340		X	Near Bldng 2	1	X	X	X				
DE6BIA		1340		X		1	X	X	X				Sends Results to Jeff Kimble
DE7AIA		1450		X		1	X	X	X				phone: 216-243-3330
DE7BIA		1450		X		1	X	X	X				fax: 216-243-6923
~~DE8AIA~~													

[signature] 6°C

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
[signature]	4.11.97 826 pm	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)* [signature]
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* [signature] Date / Time 4/14/97 0800

Ship To: Billing for Lab Services
Kerry Wallace / Smith Env. Inc.
1030 Valley Street
Dayton, OH 45404

ATTN:

Airbill Number

Chain of Custody Seal Numbers

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

Printed on Recycled Paper/Printed with Soy-Based Ink

5-40652

ROSS ANALYTICAL SERVICES, INC.

SAMPLE RECEIPT REPORT

WORKORDER # 9204-102

RECEIVED BY: [illegible] DATE/TIME: 4/14/92 830 LOGIN DATE: 4/14/92

SAMPLES ARRIVED BY(Circle One) Fed–Ex UPS Other(specify) client

SHIPPING DOCUMENTATION PRESENT? YES/NO
TRACKING NUMBER _____

SHIPPING CONTAINER INTACT? YES/NO (If no, explain below)

CUSTODY SEALS PRESENT? YES/NO
CUSTODY SEALS INTACT? YES/NO
Where? Cooler/Bottles
Seal Nos. _____

SAMPLE TEMPERATURE 6°C

AQUEOUS SAMPLES FOR METALS, pH < 2? YES/NO/NA

AQUEOUS SAMPLES FOR WET TESTS, pH < 2? YES/NO/NA

AQUEOUS SAMPLES FOR CYANIDE, pH > 12? YES/NO/NA

AQUEOUS SAMPLES FOR VOA'S PRESERVED WITH HCl? YES/NO/NA (From COC, Do not take pH)

OTHER PRESERVATION REQUIREMENTS MET? YES/NO/NA SPECIFY:

SAMPLES INTACT? YES/NO/NA (If no, explain below)

SHIPPING CONTAINER: (Circle) Ross Client
Date Returned N/A

COMMENTS:

97 01 231

Post-it® Fax Note 7671	Date 1/17/97 # of pages ▶
To TODD	From TB
Co./Dept.	Co. BPEL
Phone #	Phone #
Fax # (847) 437-3408	Fax #

Belmonte Park Environmental Laboratories

SMITH TECHNOLOGY INC.
2080 S. CARBOY
MT. PROSPECT, IL 60056

Attn: TODD RITSEMA
Invoice Number:

Order #: 97-01-231
Date: 01/17/97 20:42
Work ID: PI 150-152 (FAX)
Date Received: 01/10/97
Date Completed: 01/17/97
Client Code: SMITH_TECH

SAMPLE IDENTIFICATION

Sample Number	Sample Description	
01	PI 152	01/10 1115
02	PI 151	01/10 1130
03	PI 150	01/10 1100
04	BLANK	
05	CONTROL STANDARD	
06	MATRIX SPIKE	
07	MATRIX SPIKE DUPLICATE	

Enclosed are results of specified samples submitted for analysis. If there are any questions, please contact Tom Batten. Our Ohio EPA Certification numbers are 836 & 837. Any result of "BDL" indicates "BELOW DETECTION LIMIT".

Certified By
TOM BATTEN

Belmonte Park Environmental Laboratories

Order # 97-01-231
01/17/97 20:42

TEST RESULTS BY SAMPLE

Sample Description: PI 152 01/10 1115 Lab No: 01A
Test Description: PCB OIL Method: EPA 8080 Test Code: 8080
Collected: 01/10/97 Category: OIL

PARAMETER	RESULT	LIMIT
PCB-1242	BDL	3
PCB-1254	21	3
PCB-1221	BDL	5
PCB-1232	BDL	3
PCB-1248	BDL	3
PCB-1260	BDL	3
PCB-1016	BDL	3

Notes and Definitions for this Report:

EXTRACTED 01/17/97
DATE RUN 01/17/97
ANALYST CJ
INSTRUMENT GC
FILE ID A01173
UNITS mg/Kg
METHOD EPA 8080
BDL BELOW DETECTION LIMIT

Belmonte Park Environmental Laboratories

Order # 97-01-231
01/17/97 20:42

Page 3

TEST RESULTS BY SAMPLE

Sample Description: PI 151 01/10 1130 Lab No: 02A
Test Description: PCB OIL Method: EPA 8080 Test Code: 8080
Collected: 01/10/97 Category: OIL

PARAMETER	RESULT	LIMIT
PCB-1242	BDL	3
PCB-1254	20	3
PCB-1221	BDL	5
PCB-1232	BDL	3
PCB-1248	BDL	3
PCB-1260	BDL	3
PCB-1016	BDL	3

Notes and Definitions for this Report:

EXTRACTED 01/17/97
DATE RUN 01/17/97
ANALYST CJ
INSTRUMENT GC
FILE ID A01174
UNITS mg/Kg
METHOD EPA 8080
BDL BELOW DETECTION LIMIT

Belmonte Park Environmental Laboratories

Order # 97-01-231
01/17/97 20:42

TEST RESULTS BY SAMPLE

Sample Description: PI 150 01/10 1100 Lab No: 03A
Test Description: PCB OIL Method: EPA 8080 Test Code: 8080
Collected: 01/10/97 Category: OIL

PARAMETER	RESULT	LIMIT
PCB-1242	BDL	3
PCB-1254	18	3
PCB-1221	BDL	5
PCB-1232	BDL	3
PCB-1248	BDL	3
PCB-1260	BDL	3
PCB-1016	BDL	3

Notes and Definitions for this Report:

EXTRACTED 01/17/97
DATE RUN 01/17/97
ANALYST CJ
INSTRUMENT GC
FILE ID A01175
UNITS mg/Kg
METHOD EPA 8080
BDL BELOW DETECTION LIMIT

Belmonte Park Environmental Laboratories

Order # 97-01-231
01/17/97 20:42

TEST RESULTS BY SAMPLE

Sample Description: BLANK
Test Description: PCB
Collected: 01/17/97

Lab No: 04A
OIL Method: EPA 8080
Category: OIL

Test Code: 8080

PARAMETER	RESULT	LIMIT
PCB-1242	BDL	3
PCB-1254	BDL	3
PCB-1221	BDL	5
PCB-1232	BDL	3
PCB-1248	BDL	3
PCB-1260	BDL	3
PCB-1016	BDL	3

Notes and Definitions for this Report:

EXTRACTED 01/17/97
DATE RUN 01/17/97
ANALYST CJ
INSTRUMENT GC
FILE ID A01172
UNITS mg/Kg
METHOD EPA 8080
BDL BELOW DETECTION LIMIT

Belmonte Park Environmental Laboratories

Order # 97-01-231
01/17/97 20:42

TEST RESULTS BY SAMPLE

Sample Description: CONTROL STANDARD
Test Description: PCB
Collected: 01/17/97

Lab No: 05A
OIL Method: EPA 8080
Category: OIL

Test Code: 8080

PARAMETER	RESULT	LIMIT
PCB-1242	-	-
PCB-1254	107	-
PCB-1221	-	-
PCB-1232	-	-
PCB-1248	-	-
PCB-1260	-	-
PCB-1016	-	-

Notes and Definitions for this Report:

EXTRACTED
DATE RUN 01/17/97
ANALYST CJ
INSTRUMENT GC
FILE ID A01177
UNITS %
METHOD EPA 8080
BDL BELOW DETECTION LIMIT

Belmonte Park Environmental Laboratories

Order # 97-01-231
01/17/97 20:42

TEST RESULTS BY SAMPLE

Sample Description: MATRIX SPIKE
Test Description: PCB
Collected: 01/17/97

Lab No: 06A
OIL Method: EPA 8080
Category: OIL

Test Code: 8080

PARAMETER	RESULT	LIMIT
PCB-1242	-	-
PCB-1254	85	-
PCB-1221	-	-
PCB-1232	-	-
PCB-1248	-	-
PCB-1260	-	-
PCB-1016	-	-

Notes and Definitions for this Report:

EXTRACTED 01/17/97
DATE RUN 01/17/97
ANALYST CJ
INSTRUMENT GC
FILE ID A01179
UNITS %
METHOD EPA 8080
BDL BELOW DETECTION LIMIT

Belmonte Park Environmental Laboratories

Order # 97-01-231
01/17/97 20:42

TEST RESULTS BY SAMPLE

Sample Description: MATRIX SPIKE DUPLICATE Lab No: 07A
Test Description: PCB OIL Method: EPA 8080 Test Code: 8080
Collected: 01/17/97 Category: OIL

PARAMETER	RESULT	LIMIT
PCB-1242	-	-
PCB-1254	89	-
PCB-1221	-	-
PCB-1232	-	-
PCB-1248	-	-
PCB-1260	-	-
PCB-1016	-	-

Notes and Definitions for this Report:

EXTRACTED 01/17/97
DATE RUN 01/17/97
ANALYST CJ
INSTRUMENT GC
FILE ID AC11710
UNITS %
METHOD EPA 8080
BDL BELOW DETECTION LIMIT

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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	CSY	

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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	CSY/GJB	

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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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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	CSY/GJB	

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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	CSY	

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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	CSY	

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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:
10/17/96	BSG/BHS	

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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:
10/16/96	CSY/LMV	

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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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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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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	CSY/LMV	

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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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