UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

MEMORANDUM

Date: 9-16-1996

Subject: Contract Laboratory Program Data Review

From: Melvin L. Ritter, ESAT RPO, 6MD-HC

To: L. Biasco , 6SF-RA

Site: DELTA SHIPYARD

Case#: 24893

SDG#: MFG-W06

The EPA Region 6 Houston Branch ESAT data validation team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review and assessment report for this case.

The data package was found to be:

(X) Acceptable: No major problems with data package.

( ) Provisional: Use of data requires caution.
Data is acceptable for Regional use. Problems are noted in the review report.

( ) Unacceptable: Some or all of data should not be used.
Problems are noted in the review report.

Questions regarding the data review report can be addressed to me.

Attachments

964833

cc: R. Flores, Region 6 CLP/TPO
M. El-feky, Region 6 Data Coordinator

Files (2)

Recycled/Recyclable
Printed with Soy/Canola Ink on paper that contains at least 50% recycled fiber

USEPA REGION: VI

INORGANIC REGIONAL ACCEPTANCE/REJECTION/REDUCED VALUE RECOMMENDATION FORM

LAB CODE: CHEM	CASE NO.: 24893	SDG NO.: MFGW06
SITE NAME:		NUMBER OF SAMPLES: 9

FORM DUE DATE: 09/26/96

SDG MAILDATE: 08/30/96

PART I. DATA ACCEPTANCE OR REJECTION

INSTRUCTIONS: EPA REGIONS MUST ACCEPT OR REJECT DATA WITHIN 30 DAYS. IF DATA ARE BEING REJECTED, THIS FORM MUST BE ACCOMPANIED BY 1.) A SIGNED MEMO FROM THE REGIONAL OFFICIAL DESCRIBING THE CONTRACTUAL REASONS FOR REJECTION. ATTACH ALL RELATED DOCUMENTS (DATA REVIEWS,TELEPHONE LOGS, ETC.), 2.) ALL REJECTED DATA.

A. FULL DATA ACCEPTANCE OR REJECTION
CHECK ONE OF THE FOLLOWING IF YOU FULLY ACCEPT OR FULLY REJECT ALL SAMPLES IN THIS SDG.

✓ ACCEPT ALL ____ REJECT ALL

B. REJECTION OF ALL SAMPLES FOR A PARTICULAR FRACTION
CHECK ONE OF THE FOLLOWING IF YOU FULLY REJECT ALL SAMPLES IN A PARTICULAR FRACTION IN THIS SDG. ALL FRACTIONS NOT MARKED AS REJECTED ARE ACCEPTED.

REJECT ALL: ____ METALS ____ CYANIDE

C. REJECTION AT THE SAMPLE AND FRACTIONAL LEVEL
CHECK THE FOLLOWING TO REJECT SAMPLES AT THE SAMPLE/FRACTIONAL LEVEL AND COMPLETE THE REVERSE SIDE OF THIS FORM.

____ PARTIAL ACCEPTANCE AND REJECTION BY SAMPLE/FRACTION

PART II. REDUCED VALUE

INSTRUCTIONS: REGION RECOMMENDS REDUCED VALUE AND RETAINS THE DATA. FOR A REDUCED VALUE TO BE PROCESSED, THIS FORM MUST BE ACCOMPANIED BY A SIGNED MEMO FROM THE REGIONAL OFFICIAL CITING THE CONTRACTUAL NON-COMPLIANCE; THE DOLLAR AMOUNT FOR REDUCED VALUE; AND A WRITTEN JUSTIFICATION (NARRATIVE) OF HOW SAMPLE WORTH WAS DETERMINED FOR EACH AFFECTED SAMPLE. ATTACH ALL RELATED DOCUMENTS (DATA REVIEWS, TELEPHONE LOGS, ETC.)

CHECK ONE OF THE FOLLOWING:

✓ NO REDUCED VALUE ____ REDUCED VALUE (COMPLETE REVERSE SIDE)

IDENTIFY THE SAMPLES/FRACTIONS THAT ARE RECOMMENDED FOR REDUCED VALUE ON THE REVERSE SIDE OF THIS FORM.

THIS FORM CANNOT BE PROCESSED WITHOUT A SIGNATURE

NAME OF REGIONAL OFFICIAL: MAHMOUD ELFEKY

SIGNATURE: M Elfeky DATE: 9-16-96

SEND THIS FORM TO: CLASS C/O DYNCORP
INVOICE PROCESSING & CALCULATION GROUP
300 NORTH LEE STREET, ALEXANDRIA, VA 22314

SEE LIST OF SAMPLES ON REVERSE SIDE

LOCKHEED MARTIN SERVICES GROUP
ONE STERLING PLAZA
10101 SOUTHWEST FREEWAY, SUITE 500
HOUSTON, TEXAS 77074

MEMORANDUM

DATE: September 10, 1996

TO: Dr. Melvin Ritter, ESAT RPO, Region VI

FROM: Dr. Tom C.H. Chiang, ESAT ETM, Region VI

SUBJECT: CLP Data Review

REF: TDF # 6-6425A ESAT File # I2030

Attached is the data review summary for Case # 24893
SDG # MFGW06
Site DELTA SHIPYARD

COMMENTS:

I. CONTRACTUAL ASSESSMENT OF DATA PACKAGE:

The hard copy data review determined the data package was contractually compliant. The CCS audit was not available at the time of this data validation report preparation.

II. TECHNICAL/USABILITY ASSESSMENT OF DATA PACKAGE:

A total of 144 results was reviewed for this data package. The data package is technically acceptable because the reviewer qualified less than five percent of the results.

III. OTHER AREAS OF CONCERN:

The laboratory reported zinc (1.2X CRDL) above the CRDL in the field blank. One zinc result above the CRDL was affected by the field blank concentration.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 24893
LABORATORY CHEM
CONTRACT # 68-D5-0166
SDG # MFGW06
SOW# ILM04.0
ACCT # 6TFAJN79 SF # TFAUZZ

SITE DELTA SHIPYARD
NO. OF SAMPLES 6
MATRIX WATER
REVIEWER (IF NOT ESD) ESAT
REVIEWER'S NAME Mervin Doucet
COMPLETION DATE September 10, 1996

SAMPLE NO.: MFG-W06 MFG-Y66 MFG-Y82
MFG-Y41 MFG-Y81 MFG-Y83

DATA ASSESSMENT SUMMARY

	ICP	HG	Cyanide
1. HOLDING TIMES	O	O	O
2. CALIBRATIONS	O	O	O
3. BLANKS	M	O	O
4. MATRIX SPIKES	O	O	O
5. DUPLICATE ANALYSIS	O	O	O
6. ICP QC	O		
7. FAA QC			
8. LCS	O	O	O
9. SAMPLE VERIFICATION	O	O	O
10. OTHER QC	N/A	N/A	N/A
11. OVERALL ASSESSMENT	M	O	O

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
N/A = Not applicable

ACTION ITEMS:

AREAS OF CONCERN: The zinc field blank result was above the CRDL and affected one zinc result above the CRDL.

NOTABLE PERFORMANCE: EPA received the data package four days early.

INORGANIC QA REVIEW
CONTINUATION PAGE

Case 24893 **SDG** MFGW06 **Site** DELTA SHIPYARD **Lab** CHEM

3. **Blanks, continued:**

   Rinsates: The laboratory reported iron, lead and zinc above the CRDL's and barium, calcium, chromium, magnesium, maganese, and sodium below the CRDL's in the rinsates. The user needs to evaluate the associated sample results for possible contamination.

4. **Pre-digestion/Pre-distillation Matrix Spike Recovery:** Acceptable. All matrix spike recoveries met QC criteria.

5. **Duplicate Analysis:** Acceptable. The differences between laboratory duplicate results demonstrated acceptable precision.

6. **ICP Quality Control:**

   Serial Dilution: Acceptable. All serial dilution differences were acceptable.

   Interference Check Sample: Acceptable. All ICS results were acceptable indicating correct interelement and background correction.

   ICP Coefficient of Variation: Acceptable. All ICP replicate readings were consistent.

7. **Furnace Atomic Absorption Quality Control:** Not applicable.

8. **Laboratory Control Sample:** Acceptable. All LCS recovery were within the QC limits.

9. **Sample Verification:** The reviewer detected one reporting error and contaced the laboratory concerning this issue (see attached FAX Record Log).

10. **Other QC:** Not applicable.

11. **Overall Assessment:** Although the data package is technically acceptable, one zinc result above the CRDL was affected by the field blank contamination.

DATA SUMMARY

Case No.: 24893
Laboratory: CHEM

SDG. No.: MFGW06
Matrix: WATER

Reviewer: M. DOUCET
Units: UG/L

EPA TR #=> LAB ID	MFG-W06	FLAG	MFG-Y41	FLAG	MFG-Y66	FLAG	MFG-Y81	FLAG	MFG-Y82	FLAG	COMMENTS
ALUMINUM	11	U	11	U	11	U	50000		11	U	
ANTIMONY	9	U	9	U	9	U	9	U	9	U	
ARSENIC	9	U	9	U	9	U	77.9		9	U	
BARIUM	3.2	L	2.2	L	1	U	29400		1	U	
BERYLLIUM	1	U	1	U	1	U	19		1	U	
CADMIUM	1	U	1	U	1	U	18.7		1	U	
CALCIUM	192	LUC	158	LUC	68.3	LUC	308000		24.9	LUC	
CHROMIUM	1.7	LUC	1.4	L	2.3	L	507		2.1	L	
COBALT	1	U	1	U	1	U	102		1	U	
COPPER	1	U	1	U	1	U	134		1	U	
IRON	239		108		27	U	206000		27	U	
LEAD	12.6		3	U	21.1		482		3	U	
MAGNESIUM	35.1	LUC	18.7	LUC	17.9	LUC	84700		11	U	
MANGANESE	2.3	L	1.2	L	1.3	L	7810		1	U	
MERCURY	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	
NICKEL	3	U	3	U	3	U	431		3	U	
POTASSIUM	39	U	39	U	39	U	44000		39	U	
SELENIUM	5	U	5	U	5	U	5	U	5	U	
SILVER	2	U	2	U	2	U	2	U	2	U	
SODIUM	172	LUC	164	L	150	L	281000		100	L	
THALLIUM	9	U	9	U	9	U	9	U	9	U	
VANADIUM	1	U	1	U	1	U	248		1	U	
ZINC	26.9	UC	20		28.4		3290		24.5		
CYANIDE	9	U	9	U	9	U	9	U	9	U	

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No.	24893	SDG No.	MFGW06	SDG Nos. To Follow		SAS No.		Date Rec	08/26/96

EPA Lab ID: CHEM

Lab Location: ENGLEWOOD, NJ

Region: 6 Audit No.: 24893/MFGW06

Re_Submitted CSF? Yes _____ No X

Box No(s): 1

COMMENTS:

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS 1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2 3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1 6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
CHAIN-OF-CUSTODY RECORD(s) 9. Signed?	X		
10. Dated?	X		
TRAFFIC REPORT(s) PACKING LIST(s) 11. Signed?	X		
12. Dated?	X		
AIRBILLS/AIRBILL STICKER 13. Present?	X		
14. Signed?	X		
15. Dated?	X		
SAMPLE TAGS 16. Does DC-1 list tags as being included?	X		
17. Present?	X		
OTHER DOCUMENTS 18. Complete?	X		
19. Legible?	X		
20. Original?		X	
20a. If "NO", does the copy indicate where original documents are located?	X		

	Signature	Printed Name/Title	Date
Audited by:	Mervin L Doucet	MERVIN DOUCET/DATA REVIEWER	09/03/96
Audited by:			
Audited by:			

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: _____ Date Entered: _____ Date Reviewed: _____

Entered by: _____ _____

Reviewed by: _____ _____

Signature Printed Name/Title

DC-2___

Lockheed Martin Services Group
ESAT Region 6

One Sterling Plaza, 10101 Southwest Freeway, Suite 500
Houston, TX 77074 TEL:(713) 988-2959

FACSIMILE COVER SHEET

Please deliver the following pages to:

Name Divya Mehta

Firm CHEM

City Englewood **State** NJ

Telephone 201-567-6868 **Ext.** _____

Fax Telephone No. 201-567-1333 **Ext.** _____

Sender:

Name Mervin Doucet ESAT

Date September 10, 1996 **Time** _____

Total Number of pages including this Cover Sheet 2

If you do not receive all the pages or if any pages are unclear, please call: (713) 988-2959

MESSAGES: _____

Fax No. (713) 988-2994

EPA United States Environmental Protection Agency Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 24893

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
—	—	VI	WESTON	7/25/96	FEDEX

Regional Information: —

Sampler (Name): Joy Ishigo

Airbill Number: 1325904495

Non-Superfund Program: —

Sampler Signature: [signature]

Site Name: Delta Shipyard

City, State: Houma, LA

Site Spill ID: ZZ

3. Purpose*
- Lead: [X] SF [ ] PRP [ ] ST [ ] FED
- Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
- Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

5. Ship To
Chemtech
110 Route 4
Englewood, NJ 07631
(201) 567-6868
ATTN: Divya Mehta

6. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

7. Preservative (Enter in Column D)
1. HCl
2. HNO_3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MFGW06	2	L	G	2,3		X	X					6-013053-54	B02-22-1	7/24/96 1750	FFF24	JLI	—
MFGY41	2	L	G	2,3		X	X					6-012839-40	D06-43-1	7/24/96 1740	FFE81	JLI	D
MFGY81	2	L	G	2,3		X	X					6-013027-30	B01-21-1	7/24/96 1130	FFF21	JLI	—
MFGY82	4Z	L	G	2,3		X	X					6-013037-38	B01-45-1	7/24/96 1600	FFF22	JLI	B
MFGY83	2	L	G	2,3		X	X					6-013045-46	B02-21-1	7/24/96 1645	FFF23	JLI	—

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 1	MFGY81	Troy Hile	

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	7/24/96 1900	FEDEX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none

A21-012-13 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

368898

EPA United States Environmental Protection Agency Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No. 24893

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
—	—	VII	WESTON	7/25/96	FEDEX

Regional Information: —

Sampler (Name): Joy Ishigo

Airbill Number: 1325933814

Non-Superfund Program: —

Sampler Signature: [signature]

5. Ship To: Chemtech, 110 Route 4, Englewood, NJ 07631, (201) 567-6868, ATTN: Divya Mehta

Site Name: Delta Shipyard

City, State: Haumay LA

Site Spill ID: ZZ

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST. [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

6. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)

7. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved

CLP Sample Numbers (from labels)	A Matrix (from Box 6) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 7) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field QC Qualifier (B = Blank, S = Spike, D = Duplicate, R = Rinsate, PE = Perform. Eval., — = Not a QC Sample)
MFGY66	4	L	G	2,3		X	X					6-012951-52	P02-43-1	7/25/96 1000	FFF06	JLI	R

Shipment for Case Complete? (Y/N): —

Page 1 of 1

Sample(s) to be Used for Laboratory QC: —

Additional Sampler Signatures: Troy Hile

Chain of Custody Seal Number(s): —

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	7/25/96 1900	FEDEX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

A21-012-13 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to CLASS

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

368897

Hayes, Dennis

To: Myra Perez
Cc: Simmons, Barry
Subject: CLP sample clarifications

Myra,
The following clarifications are for Delta Shipyard samples:

FFE75 IS A FIELD DUPLICATE OF FFE74
(NORMAL SAMPLE WAS NOT IDENTIFIED)

FFE77 IS A FIELD DUPLICATE OF FFE76
(NORMAL SAMPLE WAS NOT IDENTIFIED)

MFGY41 IS A RINSATE BLANK
(WAS IDENTIFIED AS A DUPLICATE)

MFGY82 IS A FIELD BLANK
(WAS IDENTIFIED AS A FIELD BLANK)

If you have any questions, please call me at 621-1620.

R. 6

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME: CHEMTECH CONSULTING GROUP
CITY/STATE: ENGLEWOOD, N.J

CASE NO. 24893 SDG NO. MFGW06
SDG NOS. TO FOLLOW _____ _____ _____
SAS NO. _____

CONTRACT NO. 68-D5-0166
SOW NO. ILM04.0

All documents delivered in the Complete SDG File must be original documents where possible. (Reference Exhibit B, Section II F and Section III U.)

		Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
1.	Inventory Sheet (DC-2) (Do not number)			✓	✓
2.	Cover Page	01	01	✓	✓
3.	Inorganic Analysis Data Sheet (Form I-IN)	02	07	✓	✓
4.	Initial & Continuing Calibration Verification (Form IIA-IN)	08	12	✓	✓
5.	CRDL Standards For AA and ICP (Form IIB-IN)	13	16	✓	✓
6.	Blanks (Form III-IN)	17	19	✓	✓
7.	ICP Interference Check Sample (Form IV-IN)	20	25	✓	✓
8.	Spike Sample Recovery (Form VA-IN)	26	26	✓	✓
9.	Post Digest Spike Sample Recovery (Form VB-IN)	—	—	—	—
10.	Duplicates (Form VI-IN)	27	27	✓	✓
11.	Laboratory Control Sample (Form VII-IN)	28	28	✓	✓
12.	Standard Addition Results (Form VIII-IN)	29	29	✓	✓
13.	ICP Serial Dilutions (Form IX-IN)	30	30	✓	✓
14.	Instrument Detection Limits (Form X-IN)	31	34	✓	✓
15.	ICP Interelement Correction Factors (Form XIA-IN)	35	36	✓	✓
16.	ICP Interelement Correction Factors (Form XIB-IN)	37	43	✓	✓
17.	ICP Linear Ranges (Form XII-IN)	44	45	✓	✓
18.	Preparation Log (Form XIII-IN)	46	48	✓	✓
19.	Analysis Run Log (Form XIV-IN)	49	58	✓	✓
20.	ICP Raw Data	59	213	✓	✓
21.	Furnace AA Raw Data	—	—	—	—
22.	Mercury Raw Data	214	223	✓	✓
23.	Cyanide Raw Data	224	227	✓	✓
24.	Preparation Logs Raw Data	228	236	✓	✓
25.	Percent Solids Determination Log	—	—	—	—

		Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
26.	Traffic Report CLP 8/23	237	238	✓	✓
27	EPA Shipping/Receiving Documents	—	—	—	—
	Airbill (No. of Shipments 2)	239	240	✓	✓
	Chain-of-Custody Records	237 ~~239~~	238	✓	✓
	Sample Tags	246	246	✓	✓
	Sample Log-in Sheet (Lab & DCI)	241	241	✓	✓
	SDG Cover Sheet	245	245	✓	✓
28.	Misc. Shipping/Receiving Records (list all individual records)				
	Telephone Logs	—	—	—	—
	_____	—	—	—	—
	_____	—	—	—	—
29.	Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	—	—	—	—
	_____	—	—	—	—
	_____	—	—	—	—
30.	Internal Original Sample Prep & Analysis Records (describe or list)				
	Prep Records _____	—	—	—	—
	Analysis Records _____	—	—	—	—
	Description _____	—	—	—	—
31.	Other Records (describe or list)				
	Telephone Communications Log	—	—	—	—
	_____	—	—	—	—
	_____	—	—	—	—

32. Comments:

_____

_____

Completed by (CLP Lab):

Raythattha K.L. (Signature)	RAYTHATTHA K L. (Print Name & Title)	08/23/96 (Date)

Audited by (EPA):

Mervin Doucet (Signature)	Mervin Doucet / Data Reviewer (Print Name & Title)	9/3/96 (Date)

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

SOW No.: ILM04.0

EPA SAMPLE NO.	Lab Sample ID.
MFGW06	8577S
MFGY41	8578S
MFGY66	8598S
MFGY81	8579S
MFGY81D	8580S2
MFGY81S	8581DS
MFGY82	8582S
MFGY83	8583S

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

Comments:

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

Signature: Name: PARVEEN HASAN

Date: 8/22/96 Title: QA/QC OFFICER

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MFGW06

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Matrix (soil/water): WATER Lab Sample ID: 8577S

Level (low/med): LOW Date Received: 07/26/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11.0	U		P
7440-36-0	Antimony	9.0	U		P
7440-38-2	Arsenic	9.0	U		P
7440-39-3	Barium	3.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	192	B		P
7440-47-3	Chromium	1.7	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	239			P
7439-92-1	Lead	12.6			P
7439-95-4	Magnesium	35.1	B		P
7439-96-5	Manganese	2.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	39.0	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	172	B		P
7440-28-0	Thallium	9.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	26.9			P
	Cyanide	9.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MFGY41

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Matrix (soil/water): WATER Lab Sample ID: 8578S

Level (low/med): LOW Date Received: 07/26/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11.0	U		P
7440-36-0	Antimony	9.0	U		P
7440-38-2	Arsenic	9.0	U		P
7440-39-3	Barium	2.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	158	B		P
7440-47-3	Chromium	1.4	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	108			P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	18.7	B		P
7439-96-5	Manganese	1.2	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	39.0	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	164	B		P
7440-28-0	Thallium	9.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	20.0			P
	Cyanide	9.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MFGY66

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Matrix (soil/water): WATER Lab Sample ID: 8598S

Level (low/med): LOW Date Received: 07/26/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11.0	U		P
7440-36-0	Antimony	9.0	U		P
7440-38-2	Arsenic	9.0	U		P
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	68.3	B		P
7440-47-3	Chromium	2.3	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	27.0	U		P
7439-92-1	Lead	21.1			P
7439-95-4	Magnesium	17.9	B		P
7439-96-5	Manganese	1.3	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	39.0	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	150	B		P
7440-28-0	Thallium	9.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	28.4			P
	Cyanide	9.0	U		CA

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MFGY81

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Matrix (soil/water): WATER Lab Sample ID: 8579S

Level (low/med): LOW Date Received: 07/26/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	50000			P
7440-36-0	Antimony	9.0	U		P
7440-38-2	Arsenic	77.9			P
7440-39-3	Barium	29400			P
7440-41-7	Beryllium	19.0			P
7440-43-9	Cadmium	18.7			P
7440-70-2	Calcium	308000			P
7440-47-3	Chromium	507			P
7440-48-4	Cobalt	102			P
7440-50-8	Copper	134			P
7439-89-6	Iron	206000			P
7439-92-1	Lead	482			P
7439-95-4	Magnesium	84700			P
7439-96-5	Manganese	7810			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	431			P
7440-09-7	Potassium	44000			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	281000			P
7440-28-0	Thallium	9.0	U		P
7440-62-2	Vanadium	248			P
7440-66-6	Zinc	3290			P
	Cyanide	9.0	U		CA

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MFGY82

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Matrix (soil/water): WATER Lab Sample ID: 8582S

Level (low/med): LOW Date Received: 07/26/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11.0	U		P
7440-36-0	Antimony	9.0	U		P
7440-38-2	Arsenic	9.0	U		P
7440-39-3	Barium	1.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	24.9	B		P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	27.0	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	11.0	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	39.0	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	100	B		P
7440-28-0	Thallium	9.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	24.5			P
	Cyanide	9.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MFGY83

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Matrix (soil/water): WATER Lab Sample ID: 8583S

Level (low/med): LOW Date Received: 07/26/96

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16900			P
7440-36-0	Antimony	9.0	U		P
7440-38-2	Arsenic	26.3			P
7440-39-3	Barium	2290			P
7440-41-7	Beryllium	4.0	B		P
7440-43-9	Cadmium	4.1	B		P
7440-70-2	Calcium	194000			P
7440-47-3	Chromium	343			P
7440-48-4	Cobalt	55.7			P
7440-50-8	Copper	58.8			P
7439-89-6	Iron	48000			P
7439-92-1	Lead	127			P
7439-95-4	Magnesium	106000			P
7439-96-5	Manganese	6480			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	156			P
7440-09-7	Potassium	26400			P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	247000			P
7440-28-0	Thallium	9.0	U		P
7440-62-2	Vanadium	75.7			P
7440-66-6	Zinc	627			P
	Cyanide	9.0	U		CA

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: CLOUDY Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	1956.0	2025.14	103.5	25000.0	23485.25	93.9	25617.64	102.5	P
Antimony	970.0	948.00	97.7	500.0	488.12	97.6	529.77	106.0	P
Arsenic	50.9	46.52	91.4	500.0	507.87	101.6	539.76	108.0	P
Barium	2009.0	1968.58	98.0	500.0	475.58	95.1	521.82	104.4	P
Beryllium	476.0	465.52	97.8	100.0	99.02	99.0	108.70	108.7	P
Cadmium	510.0	480.68	94.3	500.0	491.86	98.4	539.72	107.9	P
Calcium	50711.0	51119.44	100.8	25000.0	24283.56	97.1	26344.58	105.4	P
Chromium	471.0	465.17	98.8	500.0	474.95	95.0	520.40	104.1	P
Cobalt	520.0	512.62	98.6	500.0	469.76	94.0	514.64	102.9	P
Copper	497.0	482.15	97.0	500.0	452.38	90.5	495.98	99.2	P
Iron	1985.0	2013.10	101.4	10000.0	9895.83	99.0	10777.74	107.8	P
Lead	4938.0	4824.61	97.7	500.0	475.80	95.2	522.19	104.4	P
Magnesium	24588.0	25178.86	102.4	25000.0	23985.94	95.9	26395.19	105.6	P
Manganese	491.0	477.24	97.2	500.0	477.44	95.5	523.74	104.7	P
Mercury	4.9	4.79	97.8	5.0	5.34	106.8	5.01	100.2	CV
Nickel	497.0	463.30	93.2	500.0	467.58	93.5	513.52	102.7	P
Potassium	49603.0	49372.66	99.5	50000.0	50340.34	100.7	53566.42	107.1	P
Selenium	50.7	52.78	104.1	200.0	197.11	98.6	210.66	105.3	P
Silver	487.0	477.40	98.0	1000.0	904.85	90.5	986.00	98.6	P
Sodium	48786.0	51652.00	105.9	25000.0	24968.00	99.9	25326.00	101.3	P
Thallium	98.9	97.96	99.0	200.0	188.70	94.4	206.31	103.2	P
Vanadium	492.0	496.19	100.9	500.0	477.80	95.6	524.26	104.9	P
Zinc	3012.0	2872.89	95.4	500.0	498.26	99.7	544.48	108.9	P
Cyanide	90.0	91.90	102.1	500.0	498.40	99.7	488.30	97.7	CA

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

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				25000.0	26043.20	104.2	26548.92	106.2	P
Antimony				500.0	528.62	105.7	536.22	107.2	P
Arsenic				500.0	545.16	109.0	539.40	107.9	P
Barium				500.0	522.04	104.4	526.60	105.3	P
Beryllium				100.0	109.39	109.4	104.32	104.3	P
Cadmium				500.0	544.90	109.0	516.88	103.4	P
Calcium				25000.0	26761.04	107.0	27063.06	108.3	P
Chromium				500.0	521.38	104.3	529.72	105.9	P
Cobalt				500.0	516.98	103.4	522.86	104.6	P
Copper				500.0	498.05	99.6	506.27	101.3	P
Iron				10000.0	10340.32	103.4	10455.02	104.6	P
Lead				500.0	522.66	104.5	531.84	106.4	P
Magnesium				25000.0	26714.56	106.9	27133.69	108.5	P
Manganese				500.0	525.77	105.2	533.54	106.7	P
Mercury				5.0	4.90	98.0	5.12	102.4	CV
Nickel				500.0	515.23	103.0	522.03	104.4	P
Potassium				50000.0	54021.68	108.0	49893.14	99.8	P
Selenium				200.0	204.88	102.4	211.42	105.7	P
Silver				1000.0	986.72	98.7	999.37	99.9	P
Sodium				25000.0	24634.00	98.5	23890.00	95.6	P
Thallium				200.0	207.80	103.9	208.52	104.3	P
Vanadium				500.0	525.34	105.1	533.02	106.6	P
Zinc				500.0	546.88	109.4	523.96	104.8	P
Cyanide				500.0	504.80	101.0	508.20	101.6	CA

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

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				25000.0	24900.42	99.6	24748.96	99.0	P
Antimony				500.0	516.62	103.3	516.14	103.2	P
Arsenic				500.0	527.72	105.5	531.29	106.3	P
Barium				500.0	496.86	99.4	496.66	99.3	P
Beryllium				100.0	104.12	104.1	104.40	104.4	P
Cadmium				500.0	513.55	102.7	516.78	103.4	P
Calcium				25000.0	23934.05	95.7	23884.84	95.5	P
Chromium				500.0	495.19	99.0	496.50	99.3	P
Cobalt				500.0	490.73	98.1	487.41	97.5	P
Copper				500.0	481.86	96.4	487.91	97.6	P
Iron				10000.0	9836.58	98.4	9882.09	98.8	P
Lead				500.0	504.40	100.9	507.10	101.4	P
Magnesium				25000.0	24169.05	96.7	24164.94	96.7	P
Manganese				500.0	497.87	99.6	497.14	99.4	P
Mercury				5.0	5.01	100.2			CV
Nickel				500.0	489.42	97.9	490.32	98.1	P
Potassium				50000.0	46235.57	92.5	47241.14	94.5	P
Selenium				200.0	212.36	106.2	197.80	98.9	P
Silver				1000.0	968.70	96.9	963.05	96.3	P
Sodium									NR
Thallium				200.0	193.03	96.5	202.06	101.0	P
Vanadium				500.0	501.72	100.3	503.98	100.8	P
Zinc				500.0	524.56	104.9	528.00	105.6	P
Cyanide									NR

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

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				25000.0	24391.42	97.6	23415.52	93.7	P
Antimony				500.0	515.04	103.0	504.90	101.0	P
Arsenic				500.0	518.80	103.8	504.10	100.8	P
Barium				500.0	499.39	99.9	489.54	97.9	P
Beryllium				100.0	102.36	102.4	99.96	100.0	P
Cadmium				500.0	505.16	101.0	490.56	98.1	P
Calcium				25000.0	23516.10	94.1	22633.13	90.5	P
Chromium				500.0	492.08	98.4	477.06	95.4	P
Cobalt				500.0	487.35	97.5	470.62	94.1	P
Copper				500.0	479.19	95.8	471.75	94.4	P
Iron				10000.0	9729.61	97.3	9450.68	94.5	P
Lead				500.0	496.70	99.3	482.94	96.6	P
Magnesium				25000.0	23669.79	94.7	22853.22	91.4	P
Manganese				500.0	494.59	98.9	480.36	96.1	P
Mercury									NR
Nickel				500.0	484.54	96.9	472.04	94.4	P
Potassium				50000.0	48257.66	96.5	48277.19	96.6	P
Selenium				200.0	208.94	104.5	193.60	96.8	P
Silver				1000.0	937.21	93.7	909.47	90.9	P
Sodium									NR
Thallium				200.0	197.49	98.7	200.40	100.2	P
Vanadium				500.0	497.52	99.5	486.26	97.3	P
Zinc				500.0	511.12	102.2	497.92	99.6	P
Cyanide									NR

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

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				25000.0	25454.54	101.8			P
Antimony				500.0	495.86	99.2			P
Arsenic				500.0	506.58	101.3			P
Barium				500.0	483.95	96.8			P
Beryllium				100.0	97.10	97.1			P
Cadmium				500.0	479.68	95.9			P
Calcium				25000.0	25755.38	103.0			P
Chromium				500.0	465.31	93.1			P
Cobalt				500.0	456.50	91.3			P
Copper				500.0	470.95	94.2			P
Iron				10000.0	10346.36	103.5			P
Lead				500.0	474.72	94.9			P
Magnesium				25000.0	25383.78	101.5			P
Manganese				500.0	467.88	93.6			P
Mercury									NR
Nickel				500.0	462.16	92.4			P
Potassium				50000.0	46079.52	92.2			P
Selenium				200.0	215.88	107.9			P
Silver				1000.0	907.95	90.8			P
Sodium									NR
Thallium				200.0	197.58	98.8			P
Vanadium				500.0	476.88	95.4			P
Zinc				500.0	491.82	98.4			P
Cyanide									NR

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

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

AA CRDL Standard Source: INOR-VEN

ICP CRDL Standard Source: INOR-VEN

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0	140.81	117.3	130.78	109.0
Arsenic				20.0	25.98	129.9	19.37	96.8
Barium								
Beryllium				10.0	11.15	111.5	10.61	106.1
Cadmium				10.0	12.40	124.0	11.78	117.8
Calcium								
Chromium				20.0	23.26	116.3	21.66	108.3
Cobalt				100.0	116.26	116.3	110.12	110.1
Copper				50.0	55.82	111.6	52.19	104.4
Iron								
Lead				6.0	7.82	130.3	7.22	120.3
Magnesium								
Manganese				30.0	35.04	116.8	33.68	112.3
Mercury	0.2	0.00	0.0					
Nickel				80.0	93.11	116.4	88.24	110.3
Potassium								
Selenium				10.0	7.16	71.6	9.66	96.6
Silver				20.0	23.96	119.8	22.20	111.0
Sodium								
Thallium				20.0	17.78	88.9	19.00	95.0
Vanadium				100.0	115.42	115.4	108.32	108.3
Zinc				40.0	50.22	125.6	47.78	119.4

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0			142.48	118.7
Arsenic				20.0			25.30	126.5
Barium								
Beryllium				10.0			11.63	116.3
Cadmium				10.0			12.76	127.6
Calcium								
Chromium				20.0			24.48	122.4
Cobalt				100.0			123.85	123.8
Copper				50.0			57.74	115.5
Iron								
Lead				6.0			8.34	139.0
Magnesium								
Manganese				30.0			36.86	122.9
Mercury								
Nickel				80.0			99.72	124.6
Potassium								
Selenium				10.0			15.09	150.9
Silver				20.0			24.31	121.6
Sodium								
Thallium				20.0			23.28	116.4
Vanadium				100.0			121.06	121.1
Zinc				40.0			51.42	128.6

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0			137.06	114.2
Arsenic				20.0			21.78	108.9
Barium								
Beryllium				10.0			11.40	114.0
Cadmium				10.0			12.04	120.4
Calcium								
Chromium				20.0			22.03	110.2
Cobalt				100.0			110.34	110.3
Copper				50.0			56.52	113.0
Iron								
Lead				6.0			7.21	120.2
Magnesium								
Manganese				30.0			33.38	111.3
Mercury								
Nickel				80.0			90.06	112.6
Potassium								
Selenium				10.0			14.30	143.0
Silver				20.0			23.80	119.0
Sodium								
Thallium				20.0			19.68	98.4
Vanadium				100.0			112.16	112.2
Zinc				40.0			49.39	123.5

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony				120.0			130.28	108.6
Arsenic				20.0			17.40	87.0
Barium								
Beryllium				10.0			11.00	110.0
Cadmium				10.0			11.28	112.8
Calcium								
Chromium				20.0			21.02	105.1
Cobalt				100.0			106.61	106.6
Copper				50.0			53.44	106.9
Iron								
Lead				6.0			7.62	127.0
Magnesium								
Manganese				30.0			31.97	106.6
Mercury								
Nickel				80.0			85.88	107.4
Potassium								
Selenium				10.0			10.39	103.9
Silver				20.0			21.94	109.7
Sodium								
Thallium				20.0			17.04	85.2
Vanadium				100.0			107.12	107.1
Zinc				40.0			45.30	113.2

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3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-22.7	B	-16.8	B	-23.9	B	16.1	B	-19.460	B	P
Antimony	9.0	U	9.0	U	9.0	U	9.0	U	9.000	U	P
Arsenic	9.0	U	9.0	U	9.0	U	9.0	U	9.000	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Calcium	10.0	U	29.1	B	10.0	U	45.9	B	10.000	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Iron	27.0	U	27.0	U	27.0	U	27.0	U	27.000	U	P
Lead	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Magnesium	11.0	U	30.2	B	11.6	B	49.8	B	11.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Potassium	39.0	U	39.0	U	77.4	B	48.8	B	39.000	U	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	46.0	U	46.0	U	85.8	B	68.3	B	46.000	U	P
Thallium	9.0	U	9.0	U	9.0	U	9.0	U	9.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cyanide	9.0	U	9.0	U	9.0	U	9.0	U	9.000	U	CA

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BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Preparation Blank Matrix (soil/water):

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			-20.3	B	11.0	U	-16.1	B			P
Antimony			9.0	U	9.0	U	9.0	U			P
Arsenic			9.0	U	9.0	U	9.0	U			P
Barium			1.0	U	1.0	U	1.0	U			P
Beryllium			1.0	U	1.0	U	1.0	U			P
Cadmium			1.0	U	1.0	U	1.0	U			P
Calcium			37.5	B	10.3	B	10.0	U			P
Chromium			1.0	U	1.0	U	1.0	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			1.4	B	1.0	U	1.0	U			P
Iron			27.0	U	27.0	U	27.0	U			P
Lead			3.0	U	3.0	U	3.0	U			P
Magnesium			18.3	B	12.9	B	11.0	U			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury			0.2	U	0.2	U					CV
Nickel			3.0	U	3.0	U	3.0	U			P
Potassium			44.1	B	39.0	U	39.0	U			P
Selenium			5.0	U	5.0	U	5.0	U			P
Silver			2.0	U	2.0	U	2.0	U			P
Sodium			61.5	B							P
Thallium			9.0	U	9.0	U	9.0	U			P
Vanadium			1.0	U	1.0	U	1.0	U			P
Zinc			2.0	U	2.0	U	2.0	U			P
Cyanide			9.0	U							CA

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3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Preparation Blank Matrix (soil/water):

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			25.9	B	-12.8	B	23.3	B			P
Antimony			9.0	U	9.0	U	9.0	U			P
Arsenic			9.0	U	9.0	U	9.0	U			P
Barium			1.0	U	1.0	U	1.0	U			P
Beryllium			1.0	U	1.0	U	1.0	U			P
Cadmium			1.0	U	1.0	U	1.0	U			P
Calcium			44.9	B	10.0	U	40.3	B			P
Chromium			1.0	U	1.0	U	1.0	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			1.0	U	1.0	U	1.0	U			P
Iron			27.0	U	27.0	U	27.0	U			P
Lead			3.0	U	3.0	U	3.0	U			P
Magnesium			45.9	B	11.0	U	39.9	B			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury											NR
Nickel			3.0	U	3.0	U	3.0	U			P
Potassium			39.0	U	39.0	U	39.0	U			P
Selenium			5.0	U	5.0	U	5.0	U			P
Silver			2.0	U	2.0	U	2.0	U			P
Sodium											NR
Thallium			9.0	U	9.0	U	9.0	U			P
Vanadium			1.0	U	1.0	U	1.0	U			P
Zinc			2.0	U	2.0	U	2.0	U			P
Cyanide											NR

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	495800	505595	479622	468969.0	92.8	510245	506945.5	100.3
Antimony	0	541	3	516.7	95.5	4	560.0	103.5
Arsenic	0	97	9	87.2	89.9	-6	91.9	94.7
Barium	0	467	3	448.5	96.0	3	486.7	104.2
Beryllium	0	444	-1	424.7	95.7	-1	466.2	105.0
Cadmium	0	871	4	826.9	94.9	3	908.1	104.3
Calcium	457200	467921	495910	486115.3	103.9	535868	532658.4	113.8
Chromium	38	456	37	436.0	95.6	40	474.2	104.0
Cobalt	0	427	-2	391.8	91.8	0	430.5	100.8
Copper	0	507	21	450.5	88.9	24	490.4	96.7
Iron	186000	177250	179145	176485.3	99.6	195189	194514.0	109.7
Lead	0	47	3	42.2	89.8	2	46.6	99.1
Magnesium	490700	532422	486002	475452.7	89.3	525557	520590.7	97.8
Manganese	45	484	51	464.3	95.9	55	506.3	104.6
Mercury								
Nickel	0	857	10	758.0	88.4	14	828.2	96.6
Potassium	0	0	85	70.4		119	99.9	
Selenium	0	42	-3	41.9	99.8	6	50.0	119.0
Silver	0	207	0	175.5	84.8	0	189.1	91.4
Sodium								
Thallium	0	91	-7	83.6	91.9	-7	97.1	106.7
Vanadium	0	460	-2	427.5	92.9	-2	464.9	101.1
Zinc	0	1008	3	860.6	85.4	3	932.7	92.5

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	495800	505595				492617	497524.5	98.4
Antimony	0	541				5	562.2	103.9
Arsenic	0	97				-7	89.3	92.1
Barium	0	467				4	465.1	99.6
Beryllium	0	444				0	464.0	104.5
Cadmium	0	871				5	914.0	104.9
Calcium	457200	467921				482056	509902.2	109.0
Chromium	38	456				38	471.3	103.4
Cobalt	0	427				1	428.8	100.4
Copper	0	507				23	472.5	93.2
Iron	186000	177250				175304	182897.5	103.2
Lead	0	47				1	42.8	91.1
Magnesium	490700	532422				476971	493530.8	92.7
Manganese	45	484				53	499.6	103.2
Mercury								
Nickel	0	857				14	827.9	96.6
Potassium	0	0				103	67.5	
Selenium	0	42				-6	37.3	88.8
Silver	0	207				1	188.4	91.0
Sodium								
Thallium	0	91				7	98.7	108.5
Vanadium	0	460				0	458.7	99.7
Zinc	0	1008				11	929.1	92.2

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	495800	505595				454539	473887.9	93.7
Antimony	0	541				-1	537.8	99.4
Arsenic	0	97				-7	86.2	88.9
Barium	0	467				3	466.1	99.8
Beryllium	0	444				0	435.5	98.1
Cadmium	0	871				4	843.6	96.9
Calcium	457200	467921				442706	466523.9	99.7
Chromium	38	456				35	448.3	98.3
Cobalt	0	427				0	405.4	94.9
Copper	0	507				9	461.5	91.0
Iron	186000	177250				164306	172610.9	97.4
Lead	0	47				-1	42.4	90.2
Magnesium	490700	532422				438466	460714.1	86.5
Manganese	45	484				48	477.7	98.7
Mercury								
Nickel	0	857				12	780.6	91.1
Potassium	0	0				46	56.2	
Selenium	0	42				-5	39.6	94.3
Silver	0	207				0	179.7	86.8
Sodium								
Thallium	0	91				-10	96.1	105.6
Vanadium	0	460				-1	442.4	96.2
Zinc	0	1008				10	835.5	82.9

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	495800	505595				475226	493492.7	97.6
Antimony	0	541				-3	520.3	96.2
Arsenic	0	97				-6	96.4	99.4
Barium	0	467				3	449.5	96.3
Beryllium	0	444				0	409.6	92.3
Cadmium	0	871				3	797.3	91.5
Calcium	457200	467921				481840	505487.8	108.0
Chromium	38	456				33	422.2	92.6
Cobalt	0	427				1	378.5	88.6
Copper	0	507				8	451.7	89.1
Iron	186000	177250				175332	182973.0	103.2
Lead	0	47				-1	40.1	85.3
Magnesium	490700	532422				472161	491598.6	92.3
Manganese	45	484				46	449.8	92.9
Mercury								
Nickel	0	857				12	740.2	86.4
Potassium	0	0				56	46.5	
Selenium	0	42				2	46.3	110.2
Silver	0	207				0	170.6	82.4
Sodium								
Thallium	0	91				-3	96.4	105.9
Vanadium	0	460				0	422.3	91.8
Zinc	0	1008				6	844.9	83.8

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium	0	0	136	135.9		157	157.2	
Thallium								
Vanadium								
Zinc								

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium	0	0				157	150.4	
Thallium								
Vanadium								
Zinc								

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MFGY81S

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		50083.1000		50027.1400		2000.00	2.8		P
Antimony	75-125	513.0700		9.0000	U	500.00	102.6		P
Arsenic	75-125	112.2800		77.8800		40.00	86.0		P
Barium		30111.9800		29441.5800		2000.00	33.5		P
Beryllium	75-125	65.7500		19.0200		50.00	93.5		P
Cadmium	75-125	63.6800		18.6900		50.00	90.0		P
Calcium									NR
Chromium	75-125	671.8300		506.9200		200.00	82.5		P
Cobalt	75-125	551.5800		102.0100		500.00	89.9		P
Copper	75-125	379.5900		133.9400		250.00	98.3		P
Iron		198386.1000		206005.9100		1000.00	-762.0		P
Lead		478.8800		481.8500		20.00	-14.8		P
Magnesium									NR
Manganese		7956.6400		7813.3200		500.00	28.7		P
Mercury	75-125	0.9360		0.2000	U	1.00	93.6		CV
Nickel	75-125	856.3800		430.7200		500.00	85.1		P
Potassium									NR
Selenium	75-125	9.4800		5.0000	U	10.00	94.8		P
Silver	75-125	46.7800		2.0000	U	50.00	93.6		P
Sodium									NR
Thallium	75-125	45.1300		9.0000	U	50.00	90.3		P
Vanadium	75-125	721.2800		247.6800		500.00	94.7		P
Zinc		3590.4600		3287.4600		500.00	60.6		P
Cyanide	75-125	102.5000		9.0000	U	100.00	102.5		CA

Comments:

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DUPLICATES

EPA SAMPLE NO.

MFGY81D

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

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

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

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		50027.1400		49887.4300		0.3		P
Antimony		9.0000	U	9.0000	U			P
Arsenic		77.8800		74.1200		4.9		P
Barium		29441.5800		29306.1400		0.5		P
Beryllium	5.0	19.0200		18.9400		0.4		P
Cadmium	5.0	18.6900		18.7600		0.4		P
Calcium		308383.7800		304243.5800		1.4		P
Chromium		506.9200		502.6600		0.8		P
Cobalt	50.0	102.0100		101.1000		0.9		P
Copper		133.9400		133.4400		0.4		P
Iron		206005.9100		203994.4100		1.0		P
Lead		481.8500		478.4200		0.7		P
Magnesium		84708.8400		84154.7300		0.7		P
Manganese		7813.3200		7763.8800		0.6		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		430.7200		427.5300		0.7		P
Potassium		43990.2600		44027.8200		0.1		P
Selenium		5.0000	U	5.0000	U			P
Silver		2.0000	U	2.0000	U			P
Sodium		281185.0000		281930.0000		0.3		P
Thallium		9.0000	U	9.0000	U			P
Vanadium	50.0	247.6800		246.3500		0.5		P
Zinc		3287.4600		3257.9200		0.9		P
Cyanide		9.0000	U	9.0000	U			CA

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7
LABORATORY CONTROL SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Solid LCS Source:

Aqueous LCS Source: EPA-LV

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	978.0	980.46	100.3						
Antimony	485.0	549.66	113.3						
Arsenic	50.9	47.95	94.2						
Barium	1004.5	1025.06	102.0						
Beryllium	238.0	257.18	108.1						
Cadmium	304.8	320.30	105.1						
Calcium	25355.5	24354.36	96.1						
Chromium	235.5	245.76	104.4						
Cobalt	260.0	273.50	105.2						
Copper	248.5	247.94	99.8						
Iron	992.5	1009.14	101.7						
Lead	2518.4	2665.96	105.9						
Magnesium	12294.0	12205.26	99.3						
Manganese	245.5	252.12	102.7						
Mercury									
Nickel	248.5	250.54	100.8						
Potassium	24801.5	23707.38	95.6						
Selenium	50.7	55.22	108.9						
Silver	295.0	291.88	98.9						
Sodium	24393.0	26206.00	107.4						
Thallium	49.4	53.25	107.8						
Vanadium	246.0	258.18	105.0						
Zinc	1506.0	1659.35	110.2						
Cyanide									

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8
STANDARD ADDITION RESULTS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MFGY81L

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	50027.14		46502.40		7.0		P
Antimony	9.00	U	45.00	U			P
Arsenic	77.88		60.80		21.9		P
Barium	29441.58		30897.50		4.9		P
Beryllium	19.02		18.65	B	1.9		P
Cadmium	18.69		18.90	B	1.1		P
Calcium	308383.78		290514.65		5.8		P
Chromium	506.92		502.90		0.8		P
Cobalt	102.01		103.05	B	1.0		P
Copper	133.94		128.90		3.8		P
Iron	206005.91		206352.80		0.2		P
Lead	481.85		496.10		3.0		P
Magnesium	84708.84		82749.40		2.3		P
Manganese	7813.32		7971.45		2.0		P
Mercury							NR
Nickel	430.72		444.30		3.2		P
Potassium	43990.26		43565.00		1.0		P
Selenium	5.00	U	25.00	U			P
Silver	2.00	U	10.00	U			P
Sodium	281185.00		286640.00		1.9		P
Thallium	9.00	U	45.00	U			P
Vanadium	247.68		242.60	B	2.1		P
Zinc	3287.46		3419.10		4.0		P

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: Date: 07/15/96

Flame AA ID Number: CN

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	9.0	CA

Comments:
CN: SP-E LAMBDA-1 (UV/VIS) SPECTROMETER

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: Date: 07/15/96

Flame AA ID Number: CV

Furnace AA ID Number:

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

Comments:
CV: SPECTRO-PRODUCTS MERCURY ANALYZER

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 Date: 07/15/96

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	11.0	P
Antimony	206.80		60	9.0	P
Arsenic	189.00		10	9.0	P
Barium	493.40		200	1.0	P
Beryllium	313.00		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.90		5000	10.0	P
Chromium	267.70		10	1.0	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	1.0	P
Iron	271.40		100	27.0	P
Lead	220.40		3	3.0	P
Magnesium	279.00		5000	11.0	P
Manganese	257.60		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	3.0	P
Potassium	766.50		5000	39.0	P
Selenium	196.00		5	5.0	P
Silver	328.00		10	2.0	P
Sodium			5000		NR
Thallium	190.90		10	9.0	P
Vanadium	292.40		50	1.0	P
Zinc	206.20		20	2.0	P
Cyanide			10		NR

Comments:
P0: ICP 61E TRACE ANALYZER

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 Date: 07/15/96

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium	588.90		5000	46.0	P
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:
P1: THERMO JARRELL ASH MODEL 61 ICP

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 Date: 01/15/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0011370	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	-0.0006570	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	-0.0083300	0.0000980
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium	190.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0197100	0.0000000	0.0078500	0.0000000	-0.0035800
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:
P0: ICP 61E TRACE ANALYZER

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 Date: 10/15/95

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium						
Zinc						

Comments:
P1: THERMO JARRELL ASH MODEL 61 ICP

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 Date: 01/15/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0002390	0.0000000	0.0000000	0.0000000	0.0002480
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000000	0.0000000	0.0000770	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium	190.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0004920	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:
P0: ICP 61E TRACE ANALYZER

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11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 Date: 01/15/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Na
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	-0.0001210	0.0000000	0.0000000	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000160	0.0000000
Manganese	257.60	0.0003580	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium	190.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0005000	0.0000000	0.0000000	-0.0001600	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:
P0: ICP 61E TRACE ANALYZER

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11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 Date: 01/15/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	Pb	Sb	Se	Tl
Aluminum	308.20	0.0000000	0.0005970	0.0000000	0.0000000	-0.0000400
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0099600	0.0000000	0.0002160
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.40	0.0000000	0.0000980	0.0000000	0.0000980	0.0000000
Lead	220.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.00	0.0000000	0.0000150	0.0000000	0.0000000	0.0000390
Manganese	257.60	0.0000000	0.0001510	0.0000000	0.0010350	-0.0069300
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium	190.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000620	-0.0005300	0.0005580	0.0012460
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:
P0: ICP 61E TRACE ANALYZER

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11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 Date: 01/15/96

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn	—	—	—
Aluminum	308.20	0.0000000	0.0000000			
Antimony	206.80	0.0000000	0.0000000			
Arsenic	189.00	0.0000000	0.0000000			
Barium	493.40	0.0000000	0.0000000			
Beryllium	313.00	0.0000000	0.0000000			
Cadmium	226.50	0.0000000	0.0000000			
Calcium	317.90	0.0000000	0.0000000			
Chromium	267.70	0.0000000	0.0008490			
Cobalt	228.60	0.0000000	0.0000000			
Copper	324.70	0.0000000	0.0000000			
Iron	271.40	0.0000000	0.0000360			
Lead	220.40	0.0000000	0.0000000			
Magnesium	279.00	0.0000000	0.0000000			
Manganese	257.60	0.0000000	0.0000000			
Mercury						
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.50	0.0000000	0.0000000			
Selenium	196.00	0.0000000	0.0000000			
Silver	328.00	0.0000000	0.0000000			
Sodium						
Thallium	190.90	0.0000000	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

Comments:
P0: ICP 61E TRACE ANALYZER

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11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 Date: 10/15/95

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium						
Zinc						

Comments:
P1: THERMO JARRELL ASH MODEL 61 ICP

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11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 Date: 10/15/95

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	Mn	Na	Ni
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium						
Zinc						

Comments:
P1: THERMO JARRELL ASH MODEL 61 ICP

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 Date: 10/15/95

Analyte	Wave-length (nm)	Interelement Correction Factors for: Pb	Sb	V	Zn	__
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Mercury						
Nickel						
Potassium						
Selenium						
Silver						
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium						
Vanadium						
Zinc						

Comments:
P1: THERMO JARRELL ASH MODEL 61 ICP

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12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P0 Date: 07/15/96

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	10.00	600000.0	P
Antimony	10.00	50000.0	P
Arsenic	10.00	50000.0	P
Barium	10.00	45000.0	P
Beryllium	10.00	40000.0	P
Cadmium	10.00	50000.0	P
Calcium	10.00	1100000.0	P
Chromium	10.00	70000.0	P
Cobalt	10.00	60000.0	P
Copper	10.00	60000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	60000.0	P
Magnesium	10.00	600000.0	P
Manganese	10.00	45000.0	P
Mercury			NR
Nickel	10.00	60000.0	P
Potassium	10.00	85000.0	P
Selenium	10.00	55000.0	P
Silver	10.00	45000.0	P
Sodium			NR
Thallium	10.00	60000.0	P
Vanadium	10.00	45000.0	P
Zinc	10.00	50000.0	P

Comments:
P0: ICP 61E TRACE ANALYZER

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12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

ICP ID Number: P1 Date: 07/15/96

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum			NR
Antimony			NR
Arsenic			NR
Barium			NR
Beryllium			NR
Cadmium			NR
Calcium			NR
Chromium			NR
Cobalt			NR
Copper			NR
Iron			NR
Lead			NR
Magnesium			NR
Manganese			NR
Mercury			NR
Nickel			NR
Potassium			NR
Selenium			NR
Silver			NR
Sodium	10.00	580000.0	P
Thallium			NR
Vanadium			NR
Zinc			NR

Comments:
P1: THERMO JARRELL ASH MODEL 61 ICP

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MFGW06	07/29/96		50
MFGY41	07/29/96		50
MFGY66	07/29/96		50
MFGY81	07/29/96		50
MFGY81D	07/29/96		50
MFGY81S	07/29/96		50
MFGY82	07/29/96		50
MFGY83	07/29/96		50
PBW	07/29/96		50

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MFGW06	08/09/96		100
MFGY41	08/09/96		100
MFGY66	08/09/96		100
MFGY81	08/09/96		100
MFGY81D	08/09/96		100
MFGY81S	08/09/96		100
MFGY82	08/09/96		100
MFGY83	08/09/96		100
PBW	08/09/96		100

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13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	08/08/96		100
MFGW06	08/08/96		100
MFGY41	08/08/96		100
MFGY66	08/08/96		100
MFGY81	08/08/96		100
MFGY81D	08/08/96		100
MFGY81S	08/08/96		100
MFGY82	08/08/96		100
MFGY83	08/08/96		100
PBW	08/08/96		100

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: CN Method: CA

Start date: 07/29/96 End date: 07/29/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1715																									X
S10.0	1.00	1717																									X
S100.0	1.00	1719																									X
S500.0	1.00	1721																									X
S1000.0	1.00	1723																									X
ICV	1.00	1725																									X
ICB	1.00	1727																									X
CCV	1.00	1729																									X
CCB	1.00	1731																									X
ZZZZZZ	1.00	1733																									
ZZZZZZ	1.00	1735																									
PBW	1.00	1737																									X
ZZZZZZ	1.00	1739																									
ZZZZZZ	1.00	1741																									
ZZZZZZ	1.00	1743																									
ZZZZZZ	1.00	1745																									
ZZZZZZ	1.00	1747																									
ZZZZZZ	1.00	1749																									
ZZZZZZ	1.00	1751																									
CCV	1.00	1753																									X
CCB	1.00	1755																									X
ZZZZZZ	1.00	1757																									
ZZZZZZ	1.00	1759																									
ZZZZZZ	1.00	1801																									
MFGW06	1.00	1803																									X
MFGY41	1.00	1805																									X
MFGY81	1.00	1807																									X
MFGY81D	1.00	1809																									X
MFGY81S	1.00	1811																									X
MFGY82	1.00	1813																									X
MFGY83	1.00	1815																									X
CCV	1.00	1817																									X

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: CN Method: CA

Start date: 07/29/96 End date: 07/29/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1819																									X
MFGY66	1.00	1821																									X
CCV	1.00	1823																									X
CCB	1.00	1825																									X

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: CV Method: CV

Start date: 08/09/96 End date: 08/09/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1533																X									
S0.2	1.00	1535																X									
S0.5	1.00	1537																X									
S1.0	1.00	1539																X									
S5.0	1.00	1541																X									
S10.0	1.00	1543																X									
ICV	1.00	1545																X									
ICB	1.00	1547																X									
CCV	1.00	1549																X									
CCB	1.00	1551																X									
CRA	1.00	1553																X									
ZZZZZZ	1.00	1555																									
ZZZZZZ	1.00	1557																									
ZZZZZZ	1.00	1559																									
ZZZZZZ	1.00	1601																									
ZZZZZZ	1.00	1603																									
ZZZZZZ	1.00	1605																									
ZZZZZZ	1.00	1607																									
ZZZZZZ	1.00	1609																									
ZZZZZZ	1.00	1611																									
CCV	1.00	1613																X									
CCB	1.00	1615																X									
ZZZZZZ	1.00	1617																									
ZZZZZZ	1.00	1619																									
ZZZZZZ	1.00	1621																									
ZZZZZZ	1.00	1623																									
ZZZZZZ	1.00	1625																									
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1629																									
ZZZZZZ	1.00	1631																									
ZZZZZZ	1.00	1633																									
ZZZZZZ	1.00	1635																									

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: CV Method: CV

Start date: 08/09/96 End date: 08/09/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	1637																X									
CCB	1.00	1639																X									
ZZZZZZ	1.00	1641																									
ZZZZZZ	1.00	1643																									
ZZZZZZ	1.00	1645																									
ZZZZZZ	1.00	1647																									
ZZZZZZ	1.00	1649																									
PBW	1.00	1651																X									
MFGW06	1.00	1653																X									
MFGY41	1.00	1655																X									
MFGY81	1.00	1657																X									
MFGY81D	1.00	1659																X									
CCV	1.00	1701																X									
CCB	1.00	1703																X									
MFGY81S	1.00	1705																X									
MFGY82	1.00	1707																X									
MFGY83	1.00	1709																X									
MFGY66	1.00	1711																X									
ZZZZZZ	1.00	1713																									
CCV	1.00	1715																X									
CCB	1.00	1717																X									

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: P0 Method: P

Start date: 08/08/96 End date: 08/08/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0717		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
S	1.00	0720			X	X	X	X	X		X	X	X		X		X		X						X	X	
S	1.00	0722		X						X				X		X				X							
S	1.00	0724																				X					
S	1.00	0726																			X			X			
ICV	1.00	0727		X			X	X	X	X	X	X	X	X	X	X	X		X	X		X			X	X	
ICV	1.00	0730				X															X						
ICV	1.00	0737			X																						
ICV	1.00	0740																						X			
ICB	1.00	0745		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CRI	1.00	0749			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	0759		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICSAB	1.00	0804		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	0807		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	0810		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	0815																									
ZZZZZZ	1.00	0819																									
ZZZZZZ	1.00	0823																									
ZZZZZZ	1.00	0829																									
ZZZZZZ	1.00	0836																									
ZZZZZZ	1.00	0840																									
ZZZZZZ	1.00	0847																									
ZZZZZZ	1.00	0850																									
ZZZZZZ	1.00	0853																									
ZZZZZZ	1.00	0856																									
CCV	1.00	0859		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	0902		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	0905																									
ZZZZZZ	1.00	0908																									
ZZZZZZ	1.00	0919																									
ZZZZZZ	1.00	0922																									
ZZZZZZ	1.00	0927																									

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: P0 Method: P

Start date: 08/08/96 End date: 08/08/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	0932		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	0936		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	0948		-	X	X	-	X	X	-	X	X	X	-	X	-	X	-	X	-	X	X	-	X	X	X	-
ICSA	1.00	0951		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
ICSAB	1.00	0956		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
CCV	1.00	0959		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
CCB	1.00	1002		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
ZZZZZZ	1.00	1007		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1010		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1014		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1020		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1026		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1029		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1032		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1035		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1041		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1045		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1048		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
CCB	1.00	1051		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
ZZZZZZ	1.00	1055		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1058		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	5.00	1106		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1110		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1113		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1116		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1121		-	X	X	-	X	X	-	X	X	X	-	X	-	X	-	X	-	X	X	-	X	X	X	-
ICSA	1.00	1139		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
ICSAB	1.00	1144		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
CCV	1.00	1147		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
CCB	1.00	1150		X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	X	X	-	X	X	X	-
ZZZZZZ	1.00	1154		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: P0 Method: P

Start date: 08/08/96 End date: 08/08/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1157																									
ZZZZZZ	1.00	1208																									
PBW	1.00	1211		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
LCSW	1.00	1217		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	1221																									
ZZZZZZ	1.00	1225																									
ZZZZZZ	1.00	1228																									
ZZZZZZ	1.00	1231																									
ZZZZZZ	1.00	1234																									
CCV	1.00	1237		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	1239		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	1250																									
ZZZZZZ	1.00	1253																									
ZZZZZZ	1.00	1256																									
ZZZZZZ	1.00	1300																									
ZZZZZZ	1.00	1304																									
ZZZZZZ	1.00	1307																									
ZZZZZZ	1.00	1329																									
CRI	1.00	1340			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1343		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICSAB	1.00	1348		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	1351		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	1354		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	1359																									
ZZZZZZ	1.00	1403																									
ZZZZZZ	1.00	1406																									
ZZZZZZ	5.00	1416																									
MFGY81	1.00	1423		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
MFGY81D	1.00	1426		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
MFGY81S	1.00	1429		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
MFGY81L	5.00	1433		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
MFGW06	1.00	1437		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	

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14
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: P0 Method: P

Start date: 08/08/96 End date: 08/08/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MFGY41	1.00	1440		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	1443		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	1446		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
MFGY82	1.00	1450		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
MFGY83	1.00	1458		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
MFGY66	1.00	1502		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ZZZZZZ	1.00	1505																									
ZZZZZZ	10.00	1510																									
ZZZZZZ	1.00	1520																									
CRI	1.00	1534			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1542		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
ICSAB	1.00	1551		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	1554		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCB	1.00	1557		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	

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14
ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: P1 Method: P

Start date: 08/21/96 End date: 08/21/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1414																					X				
S	1.00	1417																					X				
ICV	1.00	1419																					X				
ICB	1.00	1421																					X				
CRI	1.00	1426																									
ICSA	1.00	1428																					X				
ICSAB	1.00	1431																					X				
CCV	1.00	1433																					X				
CCB	1.00	1435																					X				
ZZZZZZ	1.00	1437																									
PBW	1.00	1439																					X				
ZZZZZZ	1.00	1441																									
LCSW	1.00	1443																					X				
ZZZZZZ	1.00	1454																									
ZZZZZZ	1.00	1456																									
ZZZZZZ	1.00	1458																									
ZZZZZZ	5.00	1500																									
ZZZZZZ	1.00	1503																									
ZZZZZZ	1.00	1505																									
CCV	1.00	1507																					X				
CCB	1.00	1509																					X				
ZZZZZZ	1.00	1511																									
ZZZZZZ	1.00	1513																									
MFGW06	1.00	1518																					X				
MFGY41	1.00	1521																					X				
MFGY82	1.00	1523																					X				
MFGY66	1.00	1525																					X				
MFGY83	1.00	1544																					X				
CRI	1.00	1547																									
ICSA	1.00	1550																					X				
ICSAB	1.00	1555																					X				
CCV	1.00	1557																					X				

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ANALYSIS RUN LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 24893 SAS No.: SDG No.: MFGW06

Instrument ID Number: P1 Method: P

Start date: 08/21/96 End date: 08/21/96

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1559																					X				
MFGY81	1.00	1603																					X				
MFGY81D	1.00	1606																					X				
MFGY81S	1.00	1612																									
MFGY81L	5.00	1614																					X				
CRI	1.00	1618																									
ICSA	1.00	1622																					X				
ICSAB	1.00	1625																					X				
CCV	1.00	1627																					X				
CCB	1.00	1629																					X				

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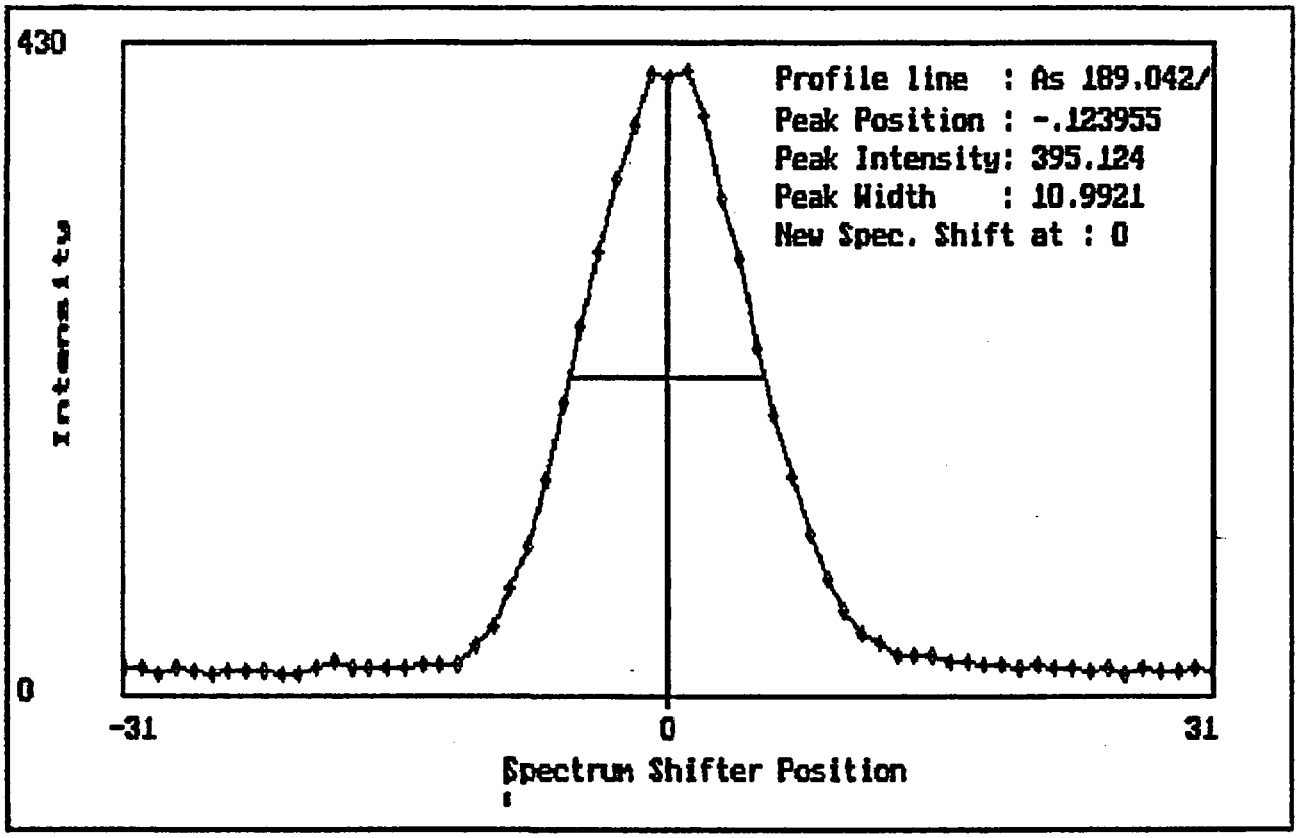
DATE: 08/08/96

INSTRUMENT ID #PO



NB/ORIGINAL ICP RAW DATA W/CASE # 24828
P.(59-170) SDG # MDLL07

004059

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Standardization Rpt. Thu 08-08-96 07:17:36 AM page 1

Method: SOW40 Standard: STD1-Blank (SO)

Elem	As1890	Tl1908	Sb2068	K_7664	Al3082	Ba4934	Be3130
Avge	.00917	-.02583	-.03667	-.46000	.82750	.00917	.13167
SDev	.04360	.00118	.01414	.03064	.00354	.00354	.00000
%RSD	475.69	4.5620	38.569	6.6611	.42725	38.569	.00000
#1	.04000	-.02500	-.02667	-.48167	.82500	.01167	.13167
#2	-.02167	-.02667	-.04667	-.43833	.83000	.00667	.13167

Elem	Cd2265	CA3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576
Avge	-.00750	-.00583	.01250	-.00167	.15250	.04000	.01667
SDev	.00354	.00118	.00825	.00000	.00354	.02121	.00236
%RSD	47.140	20.203	65.997	.00000	2.3184	53.033	14.142
#1	-.01000	-.00667	.01833	-.00167	.15000	.02500	.01500
#2	-.00500	-.00500	.00667	-.00167	.15500	.05500	.01833

Elem	Mg2790	Ni2316	Ag3280	Na5889	V_2924	Zn2062	PB 220351
Avge	.00917	.04250	.02500	.04750	-.03333	.01000	.20667
SDev	.00825	.00825	.00707	.00118	.00943	.00471	.01886
%RSD	89.995	19.411	28.284	2.4811	28.284	47.140	9.1240
#1	.00333	.03667	.02000	.04833	-.04000	.00667	.19333
#2	.01500	.04833	.03000	.04667	-.02667	.01333	.22000

Elem	220352 SE	196021	196022
Avge	-.30000	-.02667	-.01167
SDev	.09664	.03771	.03536
%RSD	32.213	141.42	303.05
#1	-.36833	.00000	.01333
#2	-.23167	-.05333	-.03667

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Method: SOW40 Standard: STD2 (S)

Elem	As1890	Sb2068	Ba4934	Be3130	Cd2265	Cr2677	Co2286
Avge	24.875	115.19	474.77	98.068	573.96	263.44	31.736
SDev	.040	.27	.92	.198	1.67	.54	.067
%RSD	.16108	.23224	.19362	.20189	.29157	.20310	.21167
#1	24.903	115.38	475.42	98.208	575.15	263.82	31.783
#2	24.847	115.00	474.11	97.928	572.78	263.06	31.688

Elem	Cu3247	Mn2576	Ni2316	V_2924	Zn2062 PB	220351	220352
Avge	94.969	331.06	258.15	171.04	58.542	792.62	1166.2
SDev	.194	.82	.56	.45	.127	1.31	2.6
%RSD	.20476	.24706	.21639	.26528	.21742	.16490	.21951
#1	95.107	331.64	258.54	171.36	58.632	793.55	1168.0
#2	94.832	330.48	257.75	170.72	58.452	791.70	1164.4

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Method: SOW40 Standard: STD3 (S)

Elem	K_7664	Al3082	CA3179	Fe2714	Mg2790	Na5889
Avge	118.16	237.32	174.26	65.406	127.83	53.073
SDev	.05	.60	.60	.145	.31	.055
%RSD	.04388	.25376	.34153	.22162	.23879	.10437
#1	118.20	236.90	173.84	65.303	127.61	53.033
#2	118.13	237.75	174.68	65.508	128.04	53.112

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Method: SOW40 Standard: STD4 (S)

Elem	Ag3280
Avge	84.126
SDev	.572
%RSD	.67943
#1	83.722
#2	84.530

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Standardization Rpt. Thu 08-08-96 07:26:15 AM page 1

Method: SOW40 Standard: STD5 (S)

Elem	Tl1908	SE196021	196022
Avge	4.4617	4.6792	9.1675
SDev	.0094	.0247	.1709
%RSD	.21131	.52891	1.8640
#1	4.4550	4.6617	9.0467
#2	4.4683	4.6967	9.2883

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Analysis Report QC Standard Thu 08-08-96 07:29:10 AM page 1

Method: SOW40 Sample Name: ICV195 Operator: SJ
Run Time: 08/08/96 07:27:04
Comment: ICV-1
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00184	.00637	4.8246	.00448	.00260	49.373	2.0251
SDev	.00403	.00157	.0274	.00200	.00002	.329	.0089
%RSD	219.28	24.628	.56754	44.546	.58983	.66605	.44169
#1	.00101	.00526	4.8440	.00307	.00259	49.605	2.0315
#2	-.00469	.00748	4.8053	.00589	.00261	49.140	2.0188

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9686	.46553	.48068	51.119	.46518	.51262	.48216
SDev	.0063	.00122	.00122	.184	.00188	.00111	.00168
%RSD	.31777	.26313	.25420	.35917	.40413	.21721	.34797
#1	1.9730	.46639	.48154	51.249	.46651	.51341	.48334
#2	1.9642	.46466	.47982	50.990	.46385	.51183	.48097

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0131	.47725	25.179	.46331	.47740	49.873	.49620
SDev	.0018	.00183	.090	.00139	.00262	.194	.00214
%RSD	.08835	.38408	.35710	.30059	.54790	.38994	.43039
#1	2.0119	.47855	25.242	.46429	.47925	50.010	.49771
#2	2.0144	.47595	25.115	.46233	.47555	49.735	.49469

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	2.8729	4.8038	4.8349	.01108	.00123
SDev	.0113	.0234	.0293	.00527	.00038
%RSD	.39224	.48707	.60693	47.520	31.345
#1	2.8809	4.8204	4.8556	.00736	.00096
#2	2.8649	4.7873	4.8141	.01481	.00150

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Analysis Report QC Standard Thu 08-08-96 07:36:37 AM page 1

Method: SOW40 Sample Name: ICV692 Operator: SJ
Run Time: 08/08/96 07:30:09
Comment: ICV-2
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04653	.00037	.00371	.05278	.00029	.00667	-.01181
SDev	.00757	.00236	.00171	.00065	.00246	.00050	.00149
%RSD	16.279	633.87	46.028	1.2258	861.92	7.4432	12.655
#1	Q.04117	.00204	.00492	.05324	-.00145	.00703	-.01075
#2	.05188	-.00130	.00250	.05232	.00202	.00632	-.01286

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00078	.00017	.00055	.02750	.00049	.00066	.00308
SDev	.00027	.00007	.00024	.00406	.00031	.00056	.00019
%RSD	34.958	42.436	42.837	14.757	63.870	84.861	6.0532
#1	.00097	.00022	.00072	.03037	.00071	.00105	.00321
#2	.00059	.00012	.00038	.02463	.00027	.00026	.00294

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00204	.00031	.01076	-.00018	-.00039	.02986	.00019
SDev	.00289	.00005	.00185	.00009	.00029	.00556	.00007
%RSD	141.65	17.009	17.142	51.407	76.234	18.608	35.376
#1	-.00408	.00035	.01206	-.00024	-.00059	.03379	.00024
#2	.00000	.00028	.00946	-.00011	-.00018	.02593	.00015

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00114	.00476	.00319	.04640	.05592
SDev	.00081	.00004	.00257	.00300	.00051
%RSD	70.745	.78874	80.470	6.4770	.92001
#1	.00171	.00474	.00500	.04852	.05556
#2	.00057	.00479	.00137	.04427	.05629

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Method: SOW40 Sample Name: ICV694 Operator: SJ
Run Time: 08/08/96 07:37:40
Comment: ICV-3
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00368	.00223	.00289	.00809	.94800	.20478	-.00829
SDev	.00142	.00184	.00104	.00643	.00036	.00844	.00049
%RSD	38.571	82.518	36.109	79.524	.03771	4.1238	5.9564
#1	.00469	.00093	.00215	.01264	.94775	.21075	-.00794
#2	.00268	.00353	.00363	.00354	.94825	.19881	-.00863

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00039	.00007	.00032	.04328	.00047	.00039	.00395
SDev	.00004	.00000	.00013	.00000	.00002	.00019	.00019
%RSD	9.6424	.70514	41.738	.00000	4.6459	47.144	4.7130
#1	.00041	.00007	.00041	.04328	.00046	.00026	.00409
#2	.00036	.00007	.00023	.04328	.00049	.00053	.00382

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00510	.00011	.00913	-.00003	.00182	.03379	.00044
SDev	.00072	.00002	.00231	.00043	.00030	.00000	.00041
%RSD	14.207	15.803	25.253	1347.4	16.313	.00000	94.263
#1	-.00561	.00013	.01076	.00027	.00202	.03379	.00073
#2	-.00459	.00010	.00750	-.00034	.00161	.03379	.00015

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00128	.00240	.00314	.00885	.00772
SDev	.00020	.00150	.00082	.01402	.00270
%RSD	15.718	62.364	26.230	158.39	34.945
#1	.00142	.00134	.00256	.01877	.00962
#2	.00114	.00345	.00372	-.00106	.00581

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Method: SOW40 Sample Name: ICV-4[692] Operator: SJ
Run Time: 08/08/96 07:40:16
Comment: ICV-4
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00134	.09797	.09915	.00543	.00690	.00632	-.01692
SDev	.00000	.00053	.00010	.00600	.00486	.01391	.00025
%RSD	.00174	.54361	.09704	110.53	70.371	219.99	1.4634
#1	.00134	.09759	.09908	.00967	.01034	-.00351	-.01709
#2	.00134	.09834	.09922	.00118	.00347	.01616	-.01674

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	.00003	.09624	.00143	.00028	.00053	.00031
SDev	.00001	.00002	.00006	.00034	.00007	.00037	.00012
%RSD	5.4393	71.065	.06440	23.570	23.589	70.725	40.374
#1	.00024	.00002	.09628	.00167	.00024	.00079	.00039
#2	.00022	.00005	.09619	.00120	.00033	.00026	.00022

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00613	.00004	-.00163	-.00056	.09837	.00550	.00034
SDev	.00361	.00002	.00184	.00027	.00046	.00000	.00014
%RSD	58.859	47.186	113.15	48.485	.47074	.00000	40.372
#1	-.00867	.00005	-.00293	-.00076	.09804	.00550	.00024
#2	-.00358	.00003	-.00033	-.00037	.09869	.00550	.00044

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.10052	.09847	-.00549	.01080
SDev	.00030	.00066	.00047	.00175	.00809
%RSD	424.84	.65884	.47707	31.950	74.874
#1	.00028	.10099	.09814	-.00425	.01652
#2	-.00014	.10005	.09880	-.00673	.00508

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Analysis Report QC Standard Thu 08-08-96 07:48:12 AM page 1

Method: SOW40 Sample Name: ICB Operator: SJ
Run Time: 08/08/96 07:45:25
Comment: CAL.BLANK
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00201	.00167	.00051	.00157	-.00152	.00386	-.02273
SDev	.00284	.00184	.00064	.00117	.00317	.00646	.00099
%RSD	141.41	110.04	125.88	74.975	208.63	167.13	4.3674
#1	.00402	.00037	.00006	.00239	.00072	.00843	-.02203
#2	.00000	.00298	.00096	.00074	-.00376	-.00070	-.02343

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	.00003	.00014	-.00191	-.00006	.00079	-.00000
SDev	.00004	.00001	.00004	.00034	.00043	.00000	.00019
%RSD	53.033	48.910	29.179	17.678	672.96	.02981	37083.
#1	.00010	.00002	.00017	-.00215	.00024	.00079	.00013
#2	.00004	.00003	.00011	-.00167	-.00036	.00079	-.00013

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00586	.00000	.00098	-.00040	-.00012	.00000	.00010
SDev	.00613	.00000	.00092	.00018	.00042	.00111	.00034
%RSD	104.44	147.58	94.281	45.239	356.15	318e6	353.03
#1	-.00153	-.00000	.00163	-.00027	.00018	.00079	.00034
#2	-.01020	.00000	.00033	-.00053	-.00042	-.00079	-.00015

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00028	.00036	.00058	.00567	-.00046
SDev	.00020	.00038	.00076	.00401	.00373
%RSD	70.504	104.54	132.53	70.709	816.75
#1	-.00014	.00009	.00004	.00283	.00218
#2	-.00043	.00063	.00111	.00850	-.00309

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Analysis Report Thu 08-08-96 07:53:42 AM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 08/08/96 07:49:29
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02598	.01779	.00782	.00717	.14082	.03955	-.03340
SDev	.00469	.00434	.00092	.00016	.00230	.00154	.00183
%RSD	18.039	24.408	11.700	2.2119	1.6356	3.8923	5.4897
#1	.02266	.01472	.00717	.00728	.14245	.04064	-.03210
#2	.02929	.02086	.00847	.00706	.13919	.03846	-.03469

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	.01116	.01240	.01004	.02326	.11627	.05582
SDev	.00004	.00001	.00016	.00101	.00005	.00056	.00026
%RSD	30.305	.11163	1.2681	10.102	.19337	.47726	.46504
#1	.00015	.01117	.01229	.01075	.02323	.11666	.05600
#2	.00010	.01115	.01251	.00932	.02329	.11588	.05563

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00645	.03505	.00998	.09311	.02396	.01237	.11542
SDev	.00148	.00013	.00137	.00002	.00047	.00109	.00067
%RSD	22.883	.35922	13.690	.02566	1.9804	8.8388	.58145
#1	.00750	.03514	.01094	.09310	.02429	.01315	.11589
#2	.00541	.03496	.00901	.09313	.02362	.01160	.11494

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.05023	.00722	.00812	.01870	.00149
SDev	.00023	.00056	.00164	.00543	.00291
%RSD	.45927	7.7101	20.207	29.028	195.10
#1	.05040	.00762	.00696	.01487	.00355
#2	.05007	.00683	.00927	.02254	-.00057

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SOW40 CONC F:1 SN:ICSA194 08/08/96 07:59:

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00923	-.00652	.00330	-.00253	.00270	.08490	479.62
SDev	.00419	.01158	.00054	.00036	.00020	.00924	3.00
%RSD	45.423	177.54	16.309	14.282	7.4991	10.879	.62488
#1	.01220	.00167	.00292	-.00228	.00255	.09143	481.74
#2	.00627	-.01471	.00369	-.00279	.00285	.07837	477.50

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Analysis Report Thu 08-08-96 08:02:26 AM page 1

Method: SOW40 Sample Name: ICSA194 Operator: SJ
Run Time: 08/08/96 07:59:35
Comment: ICS-A1
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00923	-.00652	.00330	-.00253	.00270	.08490	479.62
SDev	.00419	.01158	.00054	.00036	.00020	.00924	3.00
%RSD	45.423	177.54	16.309	14.222	7.4991	10.879	.62488
#1	.01220	.00167	.00292	-.00228	.00255	.09143	481.74
#2	.00627	-.01471	.00369	-.00279	.00284	.07837	477.50

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00301	-.00054	.00436	495.91	.03688	-.00247	.02077
SDev	.00003	.00003	.00001	2.76	.00041	.00017	.00007
%RSD	.82945	4.9199	.23664	.55723	1.1082	6.9417	.35206
#1	.00303	-.00052	.00435	497.86	.03717	-.00235	.02082
#2	.00299	-.00056	.00436	493.96	.03659	-.00259	.02072

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	179.14	.05071	486.00	.01009	-.00015	.18404	-.00166
SDev	.85	.00033	2.66	.00006	.00028	.00109	.00012
%RSD	.47468	.64549	.54794	.62658	178.46	.59421	7.3411
#1	179.75	.05094	487.88	.01004	-.00035	.18482	-.00175
#2	178.54	.05048	484.12	.01013	.00004	.18327	-.00158

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00291	-.03136	.02038	-.02308	.00759
SDev	.00028	.00233	.00195	.00187	.00038
%RSD	9.7302	7.4329	9.5811	8.0952	5.0450
#1	.00271	-.02972	.01900	-.02175	.00732
#2	.00311	-.03301	.02176	-.02440	.00786

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Analysis Report QC Standard Thu 08-08-96 08:06:42 AM page 1

Method: SOW40 Sample Name: ICSAB596 Operator: SJ
Run Time: 08/08/96 08:04:41
Comment: ICS-AB1
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08723	.08356	.04220	.04189	.51667	.07039	468.97
SDev	.00074	.00676	.00082	.00419	.00668	.00103	.67
%RSD	.84801	8.0931	1.9522	9.9924	1.2928	1.4580	.14380
#1	.08670	.07878	.04278	.03893	.51194	.06966	468.49
#2	.08775	.08834	.04162	.04484	.52139	.07111	469.45

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44851	.42473	.82687	486.12	.43600	.39179	.45047
SDev	.00069	.00053	.00166	.31	.00075	.00148	.00117
%RSD	.15318	.12470	.20042	.06332	.17183	.37749	.25984
#1	.44803	.42435	.82570	486.33	.43547	.39074	.44965
#2	.44900	.42510	.82804	485.90	.43653	.39284	.45130

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	176.49	.46434	475.45	.75799	.17554	.13687	.42752
SDev	.03	.00076	.66	.00019	.00028	.00000	.00042
%RSD	.01977	.16261	.13966	.02527	.15781	.00000	.09930
#1	176.46	.46381	474.98	.75812	.17574	.13687	.42782
#2	176.51	.46488	475.92	.75785	.17535	.13687	.42722

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.86064	.00677	.05965	.03377	.04588
SDev	.00239	.00207	.00021	.01105	.00080
%RSD	.27827	30.552	.35381	32.733	1.7494
#1	.85895	.00823	.05980	.02595	.04532
#2	.86234	.00531	.05950	.04158	.04645

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Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 08:07:26
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50788	.18871	.47581	.19712	.48813	50.340	23.485
SDev	.00666	.00049	.00388	.00481	.00636	.115	.065
%RSD	1.3112	.25762	.81480	2.4395	1.3027	.22800	.27537
#1	.50317	.18906	.47307	.19372	.49263	50.421	23.531
#2	.51258	.18837	.47855	.20052	.48363	50.259	23.440

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47559	.09902	.49186	24.284	.47496	.46976	.45238
SDev	.00080	.00004	.00047	.091	.00018	.00037	.00065
%RSD	.16810	.04020	.09470	.37431	.03830	.07859	.14438
#1	.47615	.09899	.49219	24.348	.47483	.47002	.45284
#2	.47502	.09905	.49154	24.219	.47509	.46950	.45192

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8958	.47745	23.986	.46759	.90485	23.845	.47780
SDev	.0527	.00063	.048	.00098	.00142	.049	.00011
%RSD	.53260	.13172	.19912	.20905	.15635	.20638	.02197
#1	9.9331	.47790	24.020	.46828	.90585	23.880	.47787
#2	9.8586	.47701	23.952	.46689	.90385	23.810	.47772

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.49827	.47114	.47811	.21228	.18965
SDev	.00104	.00251	.00455	.00213	.00613
%RSD	.20925	.53309	.95153	1.0053	3.2302
#1	.49753	.46936	.47490	.21077	.18532
#2	.49901	.47291	.48133	.21379	.19398

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Analysis Report QC Standard Thu 08-08-96 08:15:13 AM page 1

Method: SOW40 Sample Name: CCB1 Operator: SJ
Run Time: 08/08/96 08:10:47
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00384	-.00716	.00060	.00371	.00403	.03588	-.01677
SDev	.00444	.00145	.00012	.00002	.00120	.00795	.00506
%RSD	115.71	20.205	19.087	.60687	29.875	22.150	30.193
#1	.00070	-.00614	.00068	.00373	.00488	.03026	-.01319
#2	.00698	-.00819	.00052	.00370	.00318	.04151	-.02035

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	-.00057	.00030	.02915	-.00003	.00052	-.00023
SDev	.00003	.00001	.00001	.00507	.00016	.00000	.00013
%RSD	18.856	2.2957	3.9514	17.388	498.20	.02904	56.979
#1	.00011	-.00056	.00029	.03273	.00008	.00052	-.00014
#2	.00015	-.00058	.00031	.02557	-.00014	.00052	-.00032

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00815	.00004	.03023	-.00049	-.00028	-.00464	.00027
SDev	.00631	.00005	.00682	.00029	.00016	.00109	.00011
%RSD	77.440	141.38	22.569	58.525	56.986	23.570	38.548
#1	.01261	.00008	.03506	-.00069	-.00017	-.00387	.00035
#2	.00369	.00000	.02541	-.00029	-.00039	-.00541	.00020

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00049	-.00032	.00106	.01035	.00044
SDev	.00023	.00032	.00033	.00566	.00276
%RSD	47.120	102.20	31.370	54.734	622.61
#1	-.00066	-.00055	.00129	.01435	-.00151
#2	-.00033	-.00009	.00082	.00634	.00239

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Analysis Report QC Standard Thu 08-08-96 08:19:43 AM page 1

Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 08/08/96 08:15:59
Comment: EXT.BLANK
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00366	.00273	.00117	.00051	-.00085	.03243	-.02783
SDev	.00469	.00290	.00059	.00016	.00098	.00428	.00184
%RSD	127.95	106.08	50.067	31.336	115.37	13.199	6.6149
#1	.00035	.00478	.00159	.00039	-.00155	.02940	-.02653
#2	.00698	.00068	.00076	.00062	-.00016	.03545	-.02913

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	-.00059	.00018	.01577	.00002	.00026	-.00055
SDev	.00000	.00001	.00016	.00304	.00027	.00000	.00006
%RSD	.00000	2.2520	86.188	19.285	1701.0	.04049	11.809
#1	.00004	-.00060	.00007	.01792	-.00018	.00026	-.00060
#2	.00004	-.00058	.00029	.01362	.00021	.00026	-.00050

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00342	-.00005	.01640	-.00039	-.00014	-.00541	-.00007
SDev	.00111	.00000	.00091	.00014	.00012	.00000	.00004
%RSD	32.509	.06751	5.5461	36.881	84.541	.00000	47.128
#1	.00263	-.00005	.01704	-.00049	-.00022	-.00541	-.00005
#2	.00421	-.00005	.01576	-.00029	-.00006	-.00541	-.00010

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	-.00077	.00213	-.00372	.00259
SDev	.00092	.00048	.00064	.00048	.00000
%RSD	562.10	62.375	30.037	12.851	.02067
#1	-.00082	-.00043	.00258	-.00406	.00259
#2	.00049	-.00111	.00168	-.00339	.00259

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Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 08/08/96 08:19:51
Comment: EXT.BLANK
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00593	-.00716	.00161	-.00220	.00314	.03070	-.03678
SDev	.00099	.00145	.00115	.00021	.00389	.00917	.00207
%RSD	16.637	20.190	71.824	9.3473	123.93	29.878	5.6392
#1	.00523	-.00819	.00242	-.00234	.00589	.03718	-.03532
#2	.00663	-.00614	.00079	-.00205	.00039	.02421	-.03825

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	-.00063	.00029	.00669	-.00008	.00065	-.00037
SDev	.00004	.00001	.00002	.00101	.00005	.00018	.00032
%RSD	106.07	2.1554	7.8866	15.152	56.971	28.270	88.578
#1	.00006	-.00062	.00028	.00741	-.00011	.00078	-.00014
#2	.00001	-.00064	.00031	.00597	-.00005	.00052	-.00060

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00158	-.00001	.00611	-.00008	-.00030	-.00464	.00022
SDev	.00668	.00009	.00091	.00029	.00027	.00109	.00025
%RSD	424.09	708.88	14.873	339.44	89.925	23.570	110.07
#1	.00630	.00005	.00547	-.00029	-.00011	-.00541	.00005
#2	-.00315	-.00008	.00675	.00012	-.00050	-.00387	.00040

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00073	.00232	.00125	-.00609	-.00028
SDev	.00058	.00033	.00189	.00335	.00196
%RSD	78.556	14.204	150.38	55.003	707.10
#1	-.00114	.00209	.00259	-.00372	-.00166
#2	-.00033	.00256	-.00008	-.00846	.00111

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Analysis Report QC Standard Thu 08-08-96 08:29:09 AM page 1

Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 08/08/96 08:23:58
Comment: EXT.BLANK
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00523	-.00051	.00213	-.00032	.00093	.03372	-.04004
SDev	.00345	.00314	.00041	.00262	.00186	.01223	.00207
%RSD	65.998	611.80	19.422	810.04	200.36	36.262	5.1725
#1	.00767	-.00273	.00242	-.00218	-.00039	.02508	-.03857
#2	.00279	.00170	.00183	.00153	.00225	.04237	-.04150

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	-.00064	.00008	.00430	.00010	-.00013	-.00037
SDev	.00001	.00000	.00024	.00101	.00007	.00018	.00006
%RSD	343e6	.00640	293.98	23.570	70.508	141.53	17.670
#1	-.00001	-.00064	-.00009	.00502	.00005	.00000	-.00032
#2	.00001	-.00064	.00025	.00358	.00014	-.00026	-.00041

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00813	-.00008	.00836	-.00051	.00020	-.00464	.00027
SDev	.00111	.00000	.00227	.00026	.00004	.00109	.00003
%RSD	13.702	.04512	27.199	51.874	20.156	23.570	12.842
#1	-.00734	-.00008	.00997	-.00069	.00022	-.00541	.00030
#2	-.00892	-.00008	.00675	-.00032	.00017	-.00387	.00025

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00016	.00025	.00305	.00335	-.00213
SDev	.00069	.00076	.00024	.00237	.00275
%RSD	423.55	309.10	7.8764	70.664	128.89
#1	.00033	.00079	.00322	.00168	-.00408
#2	-.00065	-.00029	.00288	.00502	-.00019

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Analysis Report QC Standard Thu 08-08-96 08:34:40 AM page 1

Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 08/08/96 08:29:50
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05816	.05078	2.6855	.05961	.54655	26.456	.97066
SDev	.00099	.00120	.0102	.00350	.00011	.212	.00414
%RSD	1.6962	2.3732	.37864	5.8809	.02002	.79964	.42689
#1	.05747	.04993	2.6783	Q.06208	.54663	26.307	.96773
#2	.05886	.05163	2.6927	.05713	.54647	26.606	.97359

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0516	.26070	.32593	26.198	.25096	.28111	.24794
SDev	.0001	.00040	.00026	.027	.00002	.00037	.00019
%RSD	.00951	.15218	.07923	.10318	.00905	.13159	.07852
#1	1.0515	.26099	.32574	26.179	.25098	.28137	.24808
#2	1.0517	.26042	.32611	26.217	.25094	.28085	.24780

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0610	.25853	12.954	.25531	.29160	24.181	.26209
SDev	.0011	.00018	.008	.00043	.00078	.153	.00007
%RSD	.10437	.06959	.05967	.16824	.26936	.63314	.02694
#1	1.0618	.25866	12.949	.25562	.29104	24.073	.26214
#2	1.0602	.25841	12.960	.25501	.29215	24.290	.26204

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.6584	2.6723	2.6919	.06529	.05680
SDev	.0028	.0027	.0138	.00928	.00066
%RSD	.16700	.10229	.51374	14.219	1.1601
#1	1.6604	2.6704	2.6822	.07186	.05727
#2	1.6565	2.6743	2.7017	.05873	.05634

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Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 08/08/96 08:36:17
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05161	.05328	2.5451	.05380	.52274	25.103	.93078
SDev	.00593	.00724	.0017	.00727	.00214	.090	.00092
%RSD	11.485	13.583	.06495	13.508	.40980	.36048	.09860
#1	.04742	.04816	2.5463	.04866	.52426	25.039	.93143
#2	.05580	.05839	2.5439	.05894	.52123	25.167	.93013

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99923	.24710	.31013	24.945	.23817	.26647	.23574
SDev	.00184	.00000	.00036	.016	.00048	.00037	.00032
%RSD	.18378	.00012	.11559	.06367	.20025	.13880	.13735
#1	.99793	.24710	.31039	24.934	.23783	.26620	.23551
#2	1.0005	.24710	.30988	24.956	.23850	.26673	.23596

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0078	.24523	12.321	.24234	.27732	23.103	.24863
SDev	.0063	.00004	.010	.00026	.00008	.082	.00025
%RSD	.62501	.01469	.07752	.10837	.02873	.35502	.09940
#1	1.0123	.24520	12.314	.24215	.27737	23.045	.24880
#2	1.0034	.24525	12.328	.24252	.27726	23.161	.24845

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.5725	2.5296	2.5528	.06098	.05026
SDev	.0003	.0027	.0038	.00786	.00698
%RSD	.02197	.10849	.14961	12.886	13.880
#1	1.5723	2.5276	2.5555	.05542	.04533
#2	1.5728	2.5315	2.5501	.06653	.05520

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Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 08/08/96 08:40:15
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05213	.05277	2.5459	.05102	.52568	24.936	.92360
SDev	.00370	.00410	.0035	.00165	.00510	.040	.00138
%RSD	7.1056	7.7659	.13582	3.2263	.97085	.15938	.14938
#1	.05475	.04987	2.5434	.04986	.52207	24.964	.92458
#2	.04951	.05567	2.5483	.05219	.52929	24.907	.92263

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0039	.24878	.31139	25.052	.23912	.26830	.23647
SDev	.0017	.00053	.00027	.029	.00059	.00074	.00032
%RSD	.17421	.21264	.08650	.11734	.24701	.27570	.13715
#1	1.0051	.24916	.31158	25.073	.23953	.26882	.23670
#2	1.0026	.24841	.31120	25.032	.23870	.26777	.23624

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0123	.24646	12.372	.24291	.27774	22.957	.24997
SDev	.0000	.00045	.005	.00007	.00082	.004	.00011
%RSD	.00002	.18254	.04048	.02947	.29720	.01906	.04240
#1	1.0123	.24678	12.375	.24286	.27832	22.953	.25005
#2	1.0123	.24614	12.368	.24296	.27715	22.960	.24990

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.5828	2.5321	2.5527	.05407	.04952
SDev	.0059	.0036	.0034	.01381	.00435
%RSD	.37173	.14306	.13228	25.544	8.7756
#1	1.5870	2.5295	2.5503	.04430	.05259
#2	1.5787	2.5346	2.5551	.06383	.04645

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Method: SOW40 Sample Name: 7890 Operator: SJ
Run Time: 08/08/96 08:47:06
Comment: MDLL11
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00175	.00242	.01453	-.00065	.00293	.68570	2.5360
SDev	.00148	.00531	.00024	.00177	.00104	.00978	.0166
%RSD	84.764	219.67	1.6333	271.83	35.620	1.4267	.65344
#1	-.00070	.00617	.01470	.00060	.00219	.67878	2.5243
#2	-.00280	-.00134	.01436	-.00191	.00366	.69262	2.5477

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13101	-.00019	.00063	12.288	.00522	.00052	.02090
SDev	.00045	.00000	.00009	.071	.00005	.00000	.00052
%RSD	.34328	.00001	14.124	.57749	.87131	.00060	2.4831
#1	.13069	-.00019	.00057	12.237	.00525	.00052	.02053
#2	.13132	-.00019	.00070	12.338	.00519	.00052	.02127

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37972	.00555	1.2183	.00129	.00021	1.4205	.00354
SDev	.00112	.00016	.0096	.00019	.00035	.0022	.00000
%RSD	.29464	2.9160	.78411	14.773	168.90	.15397	.00060
#1	.37893	.00544	1.2115	.00143	.00046	1.4190	.00354
#2	.38052	.00566	1.2250	.00116	-.00004	1.4221	.00354

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.04846	.01486	.01437	.00014	-.00104
SDev	.00035	.00015	.00028	.00238	.00382
%RSD	.71525	.97938	1.9666	1731.5	366.74
#1	.04871	.01497	.01457	-.00155	.00166
#2	.04822	.01476	.01417	.00182	-.00374

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Method: SOW40 Sample Name: 7891 Operator: SJ
Run Time: 08/08/96 08:50:04
Comment: MDLL14
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00227	-.00149	.00727	-.00115	.00388	.55081	.91623
SDev	.00568	.00169	.00074	.00170	.00302	.00734	.00115
%RSD	250.10	113.13	10.132	147.41	77.737	1.3321	.12560
#1	.00175	-.00269	.00779	.00005	.00601	.55600	.91704
#2	-.00629	-.00030	.00675	-.00235	.00175	.54562	.91542

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04700	-.00038	.00023	3.0294	.00289	.00026	.01585
SDev	.00015	.00003	.00036	.0088	.00002	.00000	.00026
%RSD	.31893	7.0376	154.45	.29001	.78541	.03740	1.6342
#1	.04690	-.00036	.00049	3.0232	.00287	.00026	.01603
#2	.04711	-.00039	-.00002	3.0356	.00291	.00026	.01566

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.27733	.00744	1.0089	.00224	-.00024	2.5333	.00154
SDev	.00557	.00005	.0027	.00010	.00020	.0033	.00000
%RSD	2.0071	.72559	.27052	4.2674	80.403	.12950	.00682
#1	.27339	.00740	1.0070	.00231	-.00011	2.5356	.00154
#2	.28126	.00747	1.0109	.00217	-.00038	2.5310	.00154

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.05305	.00627	.00776	.00326	-.00333
SDev	.00012	.00208	.00007	.00809	.00145
%RSD	.21819	33.154	.97211	248.20	43.597
#1	.05313	.00774	.00781	.00899	-.00435
#2	.05297	.00480	.00771	-.00246	-.00230

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Method: SOW40 Sample Name: 7892 Operator: SJ
Run Time: 08/08/96 08:53:13
Comment: MDLL18
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00175	-.00091	.01461	-.00151	.00346	.59750	4.2388
SDev	.00296	.00434	.00019	.00038	.00351	.00122	.0288
%RSD	169.48	474.62	1.2888	24.934	101.19	.20467	.67874
#1	-.00384	.00216	.01474	-.00177	.00099	.59837	4.2591
#2	.00035	-.00398	.01448	-.00124	.00594	.59664	4.2184

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15478	.00000	.00051	6.2395	.00662	.00090	.02418
SDev	.00015	.00001	.00002	.0064	.00034	.00018	.00013
%RSD	.09685	322.11	4.2009	.10290	5.1523	20.652	.53288
#1	.15468	-.00001	.00052	6.2349	.00637	.00103	.02408
#2	.15489	.00001	.00049	6.2440	.00686	.00076	.02427

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1336	.01918	1.7047	.00658	.00724	4.4023	.00457
SDev	.0104	.00002	.0014	.00033	.00008	.0197	.00007
%RSD	.91648	.09461	.08003	5.0824	1.0896	.44715	1.5487
#1	1.1410	.01917	1.7057	.00634	.00718	4.3884	.00452
#2	1.1263	.01919	1.7037	.00681	.00730	4.4162	.00462

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.08472	.01124	.01627	-.00175	-.00139
SDev	.00000	.00151	.00046	.00810	.00343
%RSD	.00006	13.395	2.8318	462.95	247.36
#1	.08472	.01231	.01594	-.00747	.00104
#2	.08472	.01018	.01659	.00398	-.00381

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Method: SOW40 Sample Name: 7893 Operator: SJ
Run Time: 08/08/96 08:56:09
Comment: MDLL19
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00122	-.00317	.00654	-.00643	-.00015	.49504	.34677
SDev	.00123	.00169	.00017	.00432	.00082	.00061	.00230
%RSD	100.94	53.213	2.5798	67.111	557.99	.12351	.66253
#1	-.00035	-.00198	.00642	-.00338	.00043	.49460	.34514
#2	-.00210	-.00437	.00665	-.00948	-.00073	.49547	.34839

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02123	-.00044	.00018	1.6876	.00275	.00039	.01171
SDev	.00003	.00001	.00009	.0027	.00000	.00018	.00013
%RSD	.11770	3.0730	51.807	.16018	.00815	47.642	1.1139
#1	.02124	-.00043	.00024	1.6895	.00275	.00026	.01162
#2	.02121	-.00045	.00011	1.6857	.00275	.00052	.01181

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22291	.01212	.85269	.00192	.00007	8.7057	.00354
SDev	.00890	.00013	.00546	.00002	.00000	.0098	.00035
%RSD	3.9937	1.0378	.64021	1.2516	2.2401	.11305	9.9663
#1	.21661	.01203	.84883	.00194	.00007	8.7126	.00329
#2	.22920	.01221	.85655	.00190	.00007	8.6987	.00379

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.16908	.00534	.00713	-.00382	-.00772
SDev	.00012	.00001	.00024	.00667	.00316
%RSD	.06860	.25046	3.4396	174.78	40.899
#1	.16917	.00533	.00695	.00090	-.00549
#2	.16900	.00535	.00730	-.00853	-.00995

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Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 08:59:06
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53976	.20632	.52220	.21066	.52978	53.566	25.618
SDev	.00988	.00434	.00040	.00005	.00071	.337	.065
%RSD	1.8301	2.1038	.07609	.02428	.13429	.62894	.25428
#1	.54674	.20938	.52248	.21070	.53028	53.328	25.572
#2	.53277	.20325	.52191	.21062	.52927	53.805	25.664

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52182	.10870	.53972	26.345	.52041	.51464	.49598
SDev	.00038	.00003	.00052	.010	.00014	.00074	.00006
%RSD	.07182	.02367	.09587	.03976	.02630	.14378	.01288
#1	.52156	.10872	.53935	26.337	.52051	.51411	.49594
#2	.52209	.10869	.54008	26.352	.52031	.51516	.49603

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.778	.52374	26.395	.51353	.98600	25.920	.52426
SDev	.011	.00007	.025	.00007	.00102	.140	.00064
%RSD	.10649	.01378	.09478	.01394	.10330	.54005	.12123
#1	10.786	.52369	26.378	.51358	.98528	25.821	.52471
#2	10.770	.52379	26.413	.51348	.98672	26.019	.52381

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.54449	.51659	.52496	.22311	.20453
SDev	.00069	.00090	.00015	.00381	.00195
%RSD	.12729	.17446	.02842	1.7069	.95438
#1	.54498	.51722	.52506	.22042	.20591
#2	.54400	.51595	.52485	.22580	.20315

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Method: SOW40 Sample Name: CCB2 Operator: SJ
Run Time: 08/08/96 09:02:08
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00157	-.00239	.00207	.00167	.00298	.07739	-.02393
SDev	.00222	.00289	.00000	.00005	.00225	.01162	.00001
%RSD	141.44	121.20	.15520	2.9667	75.400	15.011	.02224
#1	-.00000	-.00034	.00208	.00170	.00139	.08560	-.02393
#2	.00314	-.00443	.00207	.00163	.00457	.06918	-.02393

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	-.00052	.00016	.00621	.00045	.00065	.00073
SDev	.00006	.00001	.00003	.00101	.00002	.00056	.00045
%RSD	32.141	2.4658	20.886	16.318	5.1208	84.871	61.925
#1	.00024	-.00051	.00018	.00693	.00047	.00105	.00106
#2	.00015	-.00052	.00014	.00550	.00043	.00026	.00041

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00105	.00011	.01158	-.00054	.00042	.00619	.00047
SDev	.00519	.00005	.00500	.00026	.00036	.00109	.00046
%RSD	494.60	47.048	43.212	48.614	84.915	17.678	96.745
#1	.00472	.00015	.01512	-.00073	.00067	.00696	.00080
#2	-.00262	.00008	.00804	-.00035	.00017	.00541	.00015

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.00164	.00229	-.00421	.00456
SDev	.00012	.00057	.00028	.00119	.00066
%RSD	47.554	34.963	12.105	28.312	14.481
#1	.00016	.00204	.00209	-.00505	.00503
#2	.00033	.00123	.00249	-.00337	.00410

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Method: SOW40 Sample Name: 7894 Operator: SJ
Run Time: 08/08/96 09:05:09
Comment: MDLL26
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00314	-.00517	.03943	-.00038	-.00025	.10203	.02359
SDev	.00148	.00555	.00086	.00134	.00126	.01834	.00414
%RSD	47.126	107.22	2.1924	354.41	506.81	17.977	17.561
#1	-.00210	-.00125	.04004	.00057	-.00114	.08906	.02652
#2	-.00419	-.00910	.03882	-.00133	.00064	.11500	.02066

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00146	-.00053	.00028	.50558	.00205	.00039	1.6543
SDev	.00005	.00001	.00015	.00034	.00039	.00018	.0010
%RSD	3.4284	2.4716	51.215	.06684	18.842	47.252	.06277
#1	.00142	-.00054	.00018	.50582	.00232	.00026	1.6536
#2	.00149	-.00052	.00039	.50534	.00178	.00052	1.6551

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93573	.01879	.11724	.04165	-.00008	.34334	.00036
SDev	.00853	.00004	.00136	.00036	.00004	.00109	.00003
%RSD	.91180	.19366	1.1641	.85953	46.162	.31852	9.8500
#1	.92970	.01881	.11821	.04139	-.00006	.34411	.00033
#2	.94176	.01876	.11627	.04190	-.00011	.34257	.00038

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	2.2770	.03846	.03990	.00506	-.00306
SDev	.0005	.00107	.00076	.00928	.00658
%RSD	.02028	2.7786	1.9141	183.52	215.17
#1	2.2767	.03922	.04044	-.00151	.00159
#2	2.2773	.03770	.03936	.01162	-.00771

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Analysis Report Thu 08-08-96 09:10:33 AM page 1

Method: SOW40 Sample Name: 7895 Operator: SJ
Run Time: 08/08/96 09:08:13
Comment: MDLL31
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	-.00093	.01026	-.00499	.00339	7.8056	.44704
SDev	.00025	.00434	.00021	.00802	.00219	.0673	.00092
%RSD	140.83	467.64	2.0089	160.77	64.684	.86166	.20566
#1	-.00035	.00214	.01011	.00068	.00184	7.7580	.44639
#2	-.00000	-.00400	.01040	-.01065	.00494	7.8531	.44769

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04870	-.00036	.00043	9.5647	.00205	.00157	.01496
SDev	.00003	.00003	.00001	.0101	.00011	.00000	.00019
%RSD	.05131	7.4373	2.4583	.10598	5.5394	.00234	1.3039
#1	.04868	-.00034	.00044	9.5575	.00197	.00157	.01510
#2	.04872	-.00038	.00042	9.5718	.00213	.00157	.01482

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12536	.01608	5.1899	.00213	-.00016	3.6437	.00167
SDev	.00594	.00007	.0027	.00026	.00000	.0077	.00011
%RSD	4.7347	.44862	.05260	12.346	.28541	.21009	6.3480
#1	.12955	.01603	5.1880	.00194	-.00016	3.6383	.00160
#2	.12116	.01613	5.1918	.00231	-.00016	3.6491	.00175

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.08368	.00966	.01056	-.00143	-.00674
SDev	.00012	.00225	.00142	.00905	.00751
%RSD	.13796	23.340	13.432	634.04	111.42
#1	.08376	.01125	.00955	.00497	-.00143
#2	.08360	.00806	.01156	-.00782	-.01205

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Analysis Report Thu 08-08-96 09:21:19 AM page 1

Method: SOW40 Sample Name: 8499 Operator: SJ
Run Time: 08/08/96 09:19:16
Comment: MEZW69
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00821	-.00127	.00344	.00703	.00577	14.477	-.00098
SDev	.00321	.01084	.00020	.00036	.00236	.029	.00069
%RSD	39.118	856.87	5.8108	5.0469	40.897	.20273	70.230
#1	.00594	-.00893	.00330	.00678	.00744	14.456	-.00147
#2	.01048	.00640	.00358	.00728	.00410	14.497	-.00049

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38258	-.00038	.00020	137.03	.00108	.00157	.00233
SDev	.00051	.00001	.00030	.18	.00023	.00000	.00039
%RSD	.13387	3.4131	154.00	.13093	21.085	.00468	16.681
#1	.38295	-.00039	.00041	137.16	.00092	.00157	.00206
#2	.38222	-.00037	-.00002	136.91	.00124	.00157	.00261

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.06137	.43180	37.258	.00339	-.00001	H132.73	.00043
SDev	.00148	.00014	.004	.00010	.00055	.09	.00011
%RSD	2.4186	.03338	.00976	2.8144	4735.2	.06426	24.882
#1	-.06242	.43190	37.256	.00332	-.00040	H132.67	.00035
#2	-.06032	.43170	37.261	.00346	.00038	H132.79	.00050

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02117	.00511	.00261	.00680	.00714
SDev	.00104	.00039	.00049	.01284	.00579
%RSD	4.9043	7.6313	18.770	188.85	81.100
#1	.02043	.00539	.00227	-.00228	.01124
#2	.02190	.00484	.00296	.01587	.00305

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Analysis Report Thu 08-08-96 09:25:03 AM page 1

Method: SOW40 Sample Name: 8500 Operator: SJ
Run Time: 08/08/96 09:22:20
Comment: MEZW70
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00140	-.00703	.00266	-.00330	.00415	19.659	-.01074
SDev	.00593	.00322	.00075	.00226	.00028	.247	.00254
%RSD	424.29	45.767	28.288	68.526	6.6520	1.2565	23.612
#1	-.00279	-.00476	.00213	-.00170	.00396	19.484	-.01254
#2	.00559	-.00931	.00319	-.00490	.00435	19.833	-.00895

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19509	-.00042	.00012	190.67	.00015	.00327	.00201
SDev	.00086	.00001	.00010	.70	.00024	.00018	.00019
%RSD	.44182	3.2574	81.700	.36772	160.14	5.6593	9.7053
#1	.19448	-.00043	.00019	190.18	.00032	.00314	.00215
#2	.19570	-.00041	.00005	191.17	-.00002	.00340	.00187

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.11554	9.1318	59.529	.00383	-.00043	67.636	.00015
SDev	.00356	.0417	.241	.00052	.00003	.188	.00042
%RSD	3.0796	.45688	.40407	13.706	7.1023	.27811	278.74
#1	-.11303	9.1023	59.359	.00420	-.00045	67.503	.00045
#2	-.11806	9.1613	59.699	.00346	-.00041	67.769	-.00015

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03625	.00335	.00232	-.01733	.00361
SDev	.00045	.00022	.00102	.01295	.00300
%RSD	1.2399	6.5881	43.711	74.715	83.175
#1	.03594	.00319	.00160	-.00818	.00149
#2	.03657	.00351	.00304	-.02649	.00573

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Analysis Report Thu 08-08-96 09:29:14 AM page 1

Method: SOW40 Sample Name: 8501 Operator: SJ
Run Time: 08/08/96 09:27:12
Comment: MEZW71
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00733	-.00682	.00152	-.00013	.00481	19.207	-.01303
SDev	.00099	.00353	.00022	.00378	.00022	.060	.00115
%RSD	13.470	51.844	14.233	2976.1	4.6197	.31196	8.8529
#1	.00803	-.00432	.00167	.00255	.00496	19.165	-.01384
#2	.00664	-.00932	.00136	-.00280	.00465	19.250	-.01221

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20974	-.00041	.00017	188.25	.00050	.00275	.00141
SDev	.00057	.00000	.00010	.57	.00028	.00018	.00000
%RSD	.27396	.05926	59.526	.30478	56.725	6.7314	.01202
#1	.20934	-.00041	.00024	187.85	.00030	.00262	.00141
#2	.21015	-.00041	.00010	188.66	.00070	.00288	.00141

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.10827	8.3127	58.124	.00464	-.00072	66.217	.00060
SDev	.00197	.0280	.193	.00029	.00008	.028	.00021
%RSD	1.8229	.33626	.33222	6.1711	11.728	.04294	35.241
#1	-.10967	8.2929	57.987	.00484	-.00066	66.197	.00075
#2	-.10687	8.3324	58.260	.00444	-.00078	66.237	.00045

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03037	.00195	.00130	-.00085	.00023
SDev	.00126	.00140	.00101	.00741	.00199
%RSD	4.1453	72.044	77.829	867.83	861.86
#1	.02948	.00096	.00202	.00439	.00164
#2	.03126	.00294	.00059	-.00610	-.00118

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Method: SOW40 Sample Name: 8502 Operator: SJ
Run Time: 08/08/96 09:32:35
Comment: MEZW72
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00245	-.00461	.00214	-.00258	.00030	.06096	-.02881
SDev	.00741	.00363	.00012	.00833	.00307	.00428	.00183
%RSD	302.99	78.631	5.6841	322.97	1034.4	7.0209	6.3688
#1	.00279	-.00205	.00223	.00331	-.00187	.05793	-.03010
#2	-.00768	-.00717	.00206	-.00847	.00247	.06399	-.02751

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00088	-.00055	.00022	.14981	.00148	-.00026	.00073
SDev	.00001	.00001	.00003	.00676	.00025	.00000	.00006
%RSD	1.4142	2.5142	15.439	4.5110	16.957	.03089	8.8870
#1	.00087	-.00054	.00020	.15459	.00130	-.00026	.00078
#2	.00089	-.00056	.00025	.14503	.00165	-.00026	.00069

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00820	.00321	.03541	-.00010	-.00042	.17863	.00015
SDev	.00484	.00025	.00319	.00017	.00036	.00219	.00056
%RSD	59.000	7.8544	8.9986	164.99	85.500	1.2244	377.58
#1	.01162	.00338	.03766	.00002	-.00067	.18018	-.00025
#2	.00478	.00303	.03315	-.00022	-.00016	.17708	.00055

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02994	.00087	.00277	-.00613	-.00083
SDev	.00104	.00007	.00015	.01428	.00540
%RSD	3.4687	7.9283	5.3360	233.17	648.21
#1	.02921	.00092	.00287	.00397	.00299
#2	.03067	.00082	.00267	-.01623	-.00465

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Method: SOW40 Sample Name: 8382 Operator: SJ
Run Time: 08/08/96 09:36:15
Comment: MCSH37
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00367	-.00444	.00106	-.00650	-.00159	1.5919	-.02458
SDev	.00025	.00796	.00066	.00278	.00170	.0049	.00000
%RSD	6.7320	179.25	62.761	42.769	107.11	.30727	.00174
#1	-.00349	.00119	.00059	-.00847	-.00038	1.5954	-.02458
#2	-.00384	-.01007	.00152	-.00454	-.00279	1.5884	-.02458

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.24928	-.00050	.00001	28.452	.00134	-.00026	.00102
SDev	.00042	.00001	.00001	.026	.00016	.00037	.00006
%RSD	.17038	2.6758	213.80	.09026	11.852	141.21	6.3403
#1	.24898	-.00049	-.00000	28.434	.00146	-.00052	.00106
#2	.24958	-.00051	.00001	28.470	.00123	-.00000	.00097

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4196	.36203	6.9263	.00015	-.00020	23.743	.00012
SDev	.0048	.00095	.0041	.00019	.00035	.032	.00003
%RSD	.08912	.26348	.05923	125.71	180.14	.13357	28.793
#1	5.4161	.36135	6.9234	.00029	.00005	23.765	.00010
#2	5.4230	.36270	6.9292	.00002	-.00045	23.721	.00015

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.01707	.00077	.00120	-.00963	-.00496
SDev	.00069	.00093	.00145	.00548	.00145
%RSD	4.0559	121.62	120.89	56.967	29.208
#1	.01756	.00143	.00017	-.01350	-.00599
#2	.01658	.00011	.00222	-.00575	-.00394

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Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 08/08/96 09:48:49
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01938	.01901	.00723	.00966	.13079	.06355	-.01444
SDev	.00074	.00169	.00053	.00091	.00192	.01529	.00046
%RSD	3.8236	8.8895	7.3364	9.4266	1.4675	24.051	3.1854
#1	.01885	.01781	.00685	.01030	.13214	.05275	-.01411
#2	.01990	.02020	.00760	.00902	.12943	.07436	-.01476

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00015	.01061	.01179	.03847	.02166	.11012	.05219
SDev	.00003	.00005	.00003	.01487	.00007	.00037	.00019
%RSD	16.638	.49894	.28405	38.649	.31513	.33592	.37324
#1	.00017	.01058	.01181	.04898	.02161	.10986	.05233
#2	.00013	.01065	.01177	.02795	.02171	.11038	.05206

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00893	.03369	.01479	.08824	.02220	.02861	.10832
SDev	.00261	.00036	.00637	.00057	.00024	.01094	.00003
%RSD	29.231	1.0683	43.084	.64909	1.0622	38.222	.03256
#1	.01077	.03394	.01929	.08783	.02237	.03634	.10835
#2	.00708	.03343	.01028	.08864	.02204	.02088	.10830

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.04779	.00584	.00791	.01725	.00592
SDev	.00046	.00048	.00103	.00914	.00314
%RSD	.96657	8.2357	12.999	52.979	53.043
#1	.04746	.00618	.00718	.02371	.00370
#2	.04811	.00550	.00864	.01079	.00814

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Method: SOW40 Sample Name: ICSA194 Operator: SJ
Run Time: 08/08/96 09:51:36
Comment: ICS-A2
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00613	-.00702	.00211	.00574	.00416	.11933	510.25
SDev	.00914	.01183	.00052	.00090	.00152	.00245	.37
%RSD	149.16	168.57	24.419	15.717	36.569	2.0496	.07271
#1	-.01259	-.01539	.00175	.00510	.00309	.11760	509.98
#2	.00034	.00135	.00247	.00637	.00524	.12106	510.51

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00323	-.00054	.00322	535.87	.03958	.00051	.02353
SDev	.00006	.00003	.00023	.44	.00073	.00037	.00001
%RSD	1.9320	4.9766	7.1454	.08197	1.8377	72.529	.05867
#1	.00328	-.00052	.00338	535.56	.03907	.00077	.02352
#2	.00319	-.00056	.00306	536.18	.04010	.00025	.02354

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	195.19	.05476	525.56	.01387	-.00016	.20337	-.00172
SDev	.16	.00009	.51	.00060	.00004	.00000	.00039
%RSD	.08224	.16939	.09797	4.3011	26.412	.00000	22.467
#1	195.08	.05483	525.19	.01345	-.00018	.20337	-.00199
#2	195.30	.05470	525.92	.01429	-.00013	.20337	-.00144

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00259	-.03342	.01961	-.01523	.01606
SDev	.00054	.00336	.00243	.00471	.00097
%RSD	21.028	10.063	12.368	30.912	6.0570
#1	.00220	-.03105	.01790	-.01855	.01675
#2	.00297	-.03580	.02133	-.01190	.01537

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Analysis Report QC Standard Thu 08-08-96 09:58:21 AM page 1

Method: SOW40 Sample Name: ICSAB596 Operator: SJ
Run Time: 08/08/96 09:56:15
Comment: ICS-AB2
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09186	.09714	.04659	.05000	.56005	.09987	506.95
SDev	.00469	.00462	.00021	.00594	.00482	.01406	1.02
%RSD	5.1077	4.7575	.44785	11.875	.85986	14.081	.20167
#1	.08854	.09387	.04644	.04580	.55665	.10982	506.22
#2	.09518	.10041	.04674	Q.05419	.56346	.08993	507.67

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48667	.46616	.90806	532.66	.47423	.43055	.49037
SDev	.00104	.00114	.00168	.13	.00023	.00093	.00079
%RSD	.21305	.24382	.18456	.02423	.04799	.21479	.16185
#1	.48594	.46536	.90688	532.57	.47407	.42990	.48980
#2	.48741	.46696	.90925	532.75	.47439	.43121	.49093

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	194.51	.50630	520.59	.82824	.18909	.15852	.46487
SDev	.18	.00082	.80	.00174	.00004	.00000	.00088
%RSD	.09140	.16288	.15368	.21034	.02278	.00000	.18924
#1	194.39	.50572	520.03	.82701	.18906	.15852	.46424
#2	194.64	.50689	521.16	.82947	.18912	.15852	.46549

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.93269	.00964	.06479	.04054	.05465
SDev	.00265	.00099	.00080	.00799	.00492
%RSD	.28390	10.234	1.2309	19.713	9.0108
#1	.93082	.01034	.06423	.03489	.05117
#2	.93457	.00895	.06535	.04619	.05814

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Analysis Report QC Standard Thu 08-08-96 10:02:09 AM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 09:59:11
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54517	.20780	.52267	.20489	.52862	54.022	26.043
SDev	.00469	.00024	.00046	.00247	.00279	.309	.021
%RSD	.86064	.11814	.08856	1.2034	.52743	.57271	.08127
#1	.54849	.20797	.52299	.20663	.53059	54.240	26.058
#2	.54185	.20763	.52234	.20315	.52665	53.803	26.028

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52204	.10939	.54491	26.761	.52139	.51699	.49805
SDev	.00086	.00026	.00087	.123	.00061	.00074	.00072
%RSD	.16511	.24107	.15932	.45961	.11770	.14307	.14445
#1	.52265	.10958	.54552	26.848	.52183	.51751	.49856
#2	.52143	.10921	.54429	26.674	.52096	.51647	.49755

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.340	.52577	26.715	.51523	.98673	26.135	.52534
SDev	.069	.00085	.076	.00052	.00126	.028	.00074
%RSD	.67133	.16064	.28605	.10189	.12773	.10879	.14095
#1	10.389	.52637	26.769	.51561	.98762	26.115	.52587
#2	10.291	.52518	26.661	.51486	.98584	26.155	.52482

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.54688	.51412	.52688	.21701	.19892
SDev	.00138	.00230	.00044	.00049	.00392
%RSD	.25183	.44715	.08377	.22399	1.9704
#1	.54786	.51574	.52656	.21666	.20170
#2	.54591	.51249	.52719	.21735	.19615

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Analysis Report QC Standard Thu 08-08-96 10:05:36 AM page 1

Method: SOW40 Sample Name: CCB3 Operator: SJ
Run Time: 08/08/96 10:02:24
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00541	-.00205	.00061	.00241	.00108	.04886	.01611
SDev	.00321	.00193	.00008	.00231	.00055	.00550	.01151
%RSD	59.305	94.261	12.350	95.595	50.527	11.264	71.439
#1	-.00314	-.00342	.00067	.00405	.00070	.05275	.02424
#2	-.00768	-.00068	.00056	.00078	.00147	.04496	.00797

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	-.00052	.00023	.04587	.00035	.00013	.00051
SDev	.00007	.00003	.00000	.00980	.00016	.00056	.00013
%RSD	169.71	5.0394	.07823	21.361	44.962	424.67	25.631
#1	.00010	-.00051	.00023	.05280	.00024	.00052	.00060
#2	-.00001	-.00054	.00023	.03895	.00047	-.00026	.00041

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01216	.00004	.04985	-.00019	.00036	.00155	.00032
SDev	.00171	.00002	.01364	.00019	.00004	.00109	.00003
%RSD	14.094	47.546	27.372	102.85	10.878	70.711	10.896
#1	.01095	.00005	.05950	-.00032	.00039	.00232	.00035
#2	.01337	.00003	.04020	-.00005	.00033	.00077	.00030

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00033	-.00016	.00099	.00436	.00146
SDev	.00023	.00025	.00001	.00949	.00812
%RSD	69.829	158.96	1.2255	217.71	557.37
#1	-.00017	.00002	.00099	-.00235	.00720
#2	-.00049	-.00034	.00100	.01107	-.00429

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Analysis Report Thu 08-08-96 10:09:18 AM page 1

Method: SOW40 Sample Name: 7887 Operator: SJ
Run Time: 08/08/96 10:07:18
Comment: MDLL15
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00000	.00481	.00974	.00035	.00269	.69002	2.9002
SDev	.00148	.00386	.00076	.00395	.00082	.03057	.0272
%RSD	76450.	80.296	7.8270	1112.6	30.623	4.4305	.93628
#1	.00105	.00208	.00921	.00315	.00211	.66841	2.8810
#2	-.00105	.00755	.01028	-.00244	.00327	.71164	2.9194

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14200	-.00017	.00059	14.094	.00559	.00039	.02210
SDev	.00079	.00000	.00003	.095	.00007	.00018	.00117
%RSD	.55421	.23565	5.7809	.67371	1.2144	47.364	5.2851
#1	.14145	-.00017	.00061	14.026	.00564	.00026	.02127
#2	.14256	-.00017	.00057	14.161	.00554	.00052	.02292

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42936	.00612	1.2955	.00170	-.00001	1.1940	.00379
SDev	.00419	.00004	.0096	.00005	.00004	.0077	.00035
%RSD	.97644	.58237	.73730	2.8004	318.13	.64116	9.3219
#1	.42640	.00610	1.2887	.00167	.00001	1.1885	.00354
#2	.43233	.00615	1.3022	.00174	-.00004	1.1994	.00404

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.06967	.00969	.00977	.00027	.00040
SDev	.00012	.00109	.00168	.00878	.00157
%RSD	.16646	11.259	17.146	3226.1	396.52
#1	.06975	.01046	.00859	.00648	.00151
#2	.06959	.00892	.01096	-.00594	-.00071

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Analysis Report Thu 08-08-96 10:12:13 AM page 1

Method: SOW40 Sample Name: 7888 Operator: SJ
Run Time: 08/08/96 10:10:12
Comment: MDLL15 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00210	-.00219	.00886	.00101	.00362	.72721	2.9442
SDev	.00593	.00507	.00024	.00515	.00137	.00489	.0041
%RSD	282.58	231.69	2.7542	507.33	37.866	.67263	.14077
#1	.00209	.00140	.00903	-.00262	.00459	.73067	2.9471
#2	-.00629	-.00578	.00869	.00465	.00265	.72375	2.9412

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14316	-.00016	.00007	14.271	.00553	.00078	.02320
SDev	.00007	.00001	.00014	.007	.00002	.00037	.00052
%RSD	.05236	7.9884	181.70	.04972	.40874	47.247	2.2369
#1	.14311	-.00017	-.00002	14.266	.00554	.00104	.02357
#2	.14321	-.00015	.00017	14.276	.00551	.00052	.02283

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42963	.00621	1.3058	.00165	.00035	1.1700	.00394
SDev	.00036	.00005	.0077	.00007	.00047	.0087	.00014
%RSD	.08500	.86735	.59217	4.3292	134.54	.74777	3.5878
#1	.42989	.00625	1.3112	.00170	.00068	1.1762	.00384
#2	.42937	.00617	1.3003	.00160	.00002	1.1638	.00404

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.07024	.00812	.00923	-.00074	.00188
SDev	.00069	.00064	.00005	.00071	.00733
%RSD	.98502	7.8836	.53248	96.622	390.53
#1	.07073	.00857	.00926	-.00124	-.00331
#2	.06975	.00766	.00919	-.00023	.00706

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Analysis Report Thu 08-08-96 10:19:46 AM page 1

Method: SOW40 Sample Name: 7889 Operator: SJ
Run Time: 08/08/96 10:14:02
Comment: MDLL15 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04602	.05926	.03001	.01220	.54217	.68959	4.8298
SDev	.00445	.00580	.00024	.00017	.00236	.01284	.0092
%RSD	9.6585	9.7883	.80507	1.3592	.43546	1.8620	.19059
#1	.04917	.05516	.02984	.01208	.54384	.68051	4.8363
#2	.04288	.06336	.03018	.01232	.54050	.69867	4.8232

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2480	.05447	.05597	13.838	.21891	.53684	.27572
SDev	.0014	.00007	.00027	.012	.00032	.00018	.00013
%RSD	.06446	.12166	.47833	.08791	.14516	.03447	.04752
#1	2.2470	.05442	.05578	13.830	.21869	.53697	.27563
#2	2.2490	.05452	.05616	13.847	.21914	.53671	.27582

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4746	.54941	1.2578	.53928	.05430	1.1189	.53365
SDev	.0153	.00061	.0082	.00112	.00016	.0022	.00011
%RSD	1.0399	.11133	.65134	.20798	.28837	.19547	.01990
#1	1.4637	.54898	1.2520	.53849	.05419	1.1205	.53373
#2	1.4854	.54984	1.2636	.54007	.05441	1.1174	.53358

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.62812	.02690	.03155	.01553	.01056
SDev	.00173	.00075	.00001	.01142	.00538
%RSD	.27533	2.7956	.03071	73.531	50.919
#1	.62690	.02636	.03156	.00745	.01436
#2	.62935	.02743	.03154	.02360	.00676

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Analysis Report Thu 08-08-96 10:22:45 AM page 1

Method: SOW40 Sample Name: 7887LX5 Operator: SJ
Run Time: 08/08/96 10:20:35
Comment: MDLL15LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00175	-.00068	.00378	-.00227	.00514	.17078	.60279
SDev	.00198	.00145	.00051	.00105	.00116	.00061	.00299
%RSD	113.12	214.08	13.420	46.233	22.491	.35803	.49642
#1	-.00314	-.00170	.00414	-.00301	.00432	.17034	.60491
#2	-.00035	.00035	.00342	-.00153	.00596	.17121	.60068

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02949	-.00048	.00025	2.9166	.00119	.00013	.00491
SDev	.00004	.00001	.00002	.0007	.00061	.00018	.00013
%RSD	.12710	2.7750	9.0311	.02317	51.584	141.99	2.6477
#1	.02951	-.00047	.00027	2.9171	.00162	-.00000	.00482
#2	.02946	-.00049	.00024	2.9162	.00076	.00026	.00501

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07757	.00132	.27080	.00037	-.00038	.20492	.00097
SDev	.00452	.00007	.00136	.00041	.00016	.00219	.00003
%RSD	5.8317	5.4577	.50410	109.28	40.883	1.0673	3.6229
#1	.07437	.00137	.27177	.00066	-.00050	.20337	.00095
#2	.08077	.00127	.26984	.00008	-.00027	.20647	.00100

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.01646	.00171	.00481	.00248	-.00460
SDev	.00046	.00187	.00016	.00642	.00473
%RSD	2.8072	109.48	3.4071	259.45	102.73
#1	.01614	.00303	.00469	.00702	-.00795
#2	.01679	.00039	.00492	-.00207	-.00126

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Analysis Report Thu 08-08-96 10:28:05 AM page 1

Method: SOW40 Sample Name: 8496 Operator: SJ
Run Time: 08/08/96 10:26:06
Comment: MEZW68
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00175	.00435	.00191	.00152	.00360	3.4212	-.01693
SDev	.00741	.00531	.00049	.00288	.00093	.0128	.00299
%RSD	424.36	122.06	25.697	189.91	25.944	.37531	17.678
#1	-.00349	.00811	.00225	-.00052	.00425	3.4121	-.01904
#2	.00698	.00060	.00156	.00356	.00294	3.4302	-.01481

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14380	-.00040	.00018	151.16	.00118	.00026	.00174
SDev	.00007	.00001	.00000	.03	.00005	.00037	.00019
%RSD	.05213	3.2889	.59872	.02213	3.8508	141.62	11.229
#1	.14385	-.00041	.00019	151.13	.00115	-.00000	.00160
#2	.14374	-.00039	.00018	151.18	.00121	.00052	.00188

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02232	.15419	48.413	.00147	.00014	H108.96	.00000
SDev	.01059	.00002	.074	.00029	.00008	.21	.00000
%RSD	47.459	.01183	.15219	19.506	55.333	.18870	47.475
#1	-.02980	.15420	48.361	.00167	.00009	H108.81	.00000
#2	-.01483	.15418	48.465	.00127	.00020	H109.10	.00000

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03283	.00183	.00195	-.00894	.00667
SDev	.00011	.00026	.00060	.01326	.00223
%RSD	.33846	14.361	30.937	148.30	33.389
#1	.03275	.00201	.00237	-.01832	.00825
#2	.03290	.00164	.00152	.00044	.00510

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Analysis Report Thu 08-08-96 10:31:03 AM page 1

Method: SOW40 Sample Name: 8497 Operator: SJ
Run Time: 08/08/96 10:29:01
Comment: MEZW68 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00297	.00282	.00116	-.00567	.00418	3.4069	-.01969
SDev	.00074	.00120	.00052	.00651	.00044	.0355	.00046
%RSD	24.953	42.770	45.096	114.77	10.486	1.0409	2.3519
#1	-.00245	.00367	.00079	-.00107	.00449	3.3818	-.02002
#2	-.00349	.00196	.00153	-.01027	.00387	3.4320	-.01937

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14357	-.00040	.00031	151.60	.00102	.00052	.00188
SDev	.00055	.00001	.00016	.30	.00009	.00037	.00000
%RSD	.38285	3.3585	50.607	.19480	8.9485	70.761	.02429
#1	.14318	-.00041	.00042	151.39	.00108	.00026	.00188
#2	.14395	-.00039	.00020	151.81	.00096	.00078	.00188

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01984	.15411	48.668	.00138	-.00033	H108.86	.00018
SDev	.00531	.00049	.215	.00031	.00051	.66	.00025
%RSD	26.752	.31528	.44204	22.420	155.38	.60578	141.18
#1	-.02359	.15377	48.516	.00160	.00003	H108.39	.00035
#2	-.01609	.15446	48.820	.00116	-.00069	H109.32	.00000

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03281	.00024	.00161	-.01716	-.00001
SDev	.00034	.00134	.00012	.00186	.00879
%RSD	1.0207	563.94	7.2498	10.867	70563.
#1	.03258	-.00071	.00153	-.01584	.00621
#2	.03305	.00119	.00169	-.01847	-.00623

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Analysis Report Thu 08-08-96 10:34:06 AM page 1

Method: SOW40 Sample Name: 8498 Operator: SJ
Run Time: 08/08/96 10:32:02
Comment: MEZW68 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04708	.05601	.02002	.01129	.52411	3.3247	1.9921
SDev	.00050	.00113	.00109	.00103	.01842	.0807	.0629
%RSD	1.0544	2.0214	5.4553	9.1113	3.5149	2.4275	3.1551
#1	.04673	.05521	.02079	.01056	.53714	3.2677	2.0366
#2	.04743	.05681	.01924	.01202	.51109	3.3818	1.9477

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1447	.05013	.05058	148.29	.20088	.48754	.24412
SDev	.0663	.00223	.00171	.89	.00712	.01590	.00766
%RSD	3.0929	4.4446	3.3893	.59701	3.5441	3.2624	3.1361
#1	2.1916	.05171	.05179	147.66	.20591	.49878	.24954
#2	2.0978	.04855	.04936	148.91	.19584	.47629	.23871

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.95173	.65434	48.352	.48150	.04789	H108.00	.50874
SDev	.02740	.01674	.456	.01592	.00581	1.14	.01798
%RSD	2.8793	2.5577	.94313	3.3058	12.139	1.0521	3.5340
#1	.97111	.66618	48.030	.49276	.05200	H107.20	.52145
#2	.93236	.64251	48.675	.47025	.04378	H108.81	.49603

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.54128	.02006	.01999	-.00560	.01961
SDev	.01502	.00080	.00123	.01112	.00394
%RSD	2.7739	3.9955	6.1766	198.56	20.112
#1	.55190	.02063	.02087	-.01347	.02240
#2	.53067	.01949	.01912	.00226	.01682

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Analysis Report Thu 08-08-96 10:38:58 AM page 1

Method: SOW40 Sample Name: ~~8497LX5~~ 8496L-X5 Operator: SJ
Run Time: 08/08/96 10:35:08 8/12/96
Comment: MEZW68LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00210	.00020	.00071	-.00624	-.00198	.56551	.04166
SDev	.00000	.00145	.00030	.00187	.00049	.00245	.00345
%RSD	.00150	707.27	42.525	30.021	24.965	.43248	8.2832
#1	-.00210	.00123	.00092	-.00491	-.00163	.56724	.04410
#2	-.00210	-.00082	.00050	-.00756	-.00233	.56378	.03922

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03123	-.00047	.00015	32.228	.00052	.00052	.00105
SDev	.00016	.00000	.00007	.095	.00009	.00037	.00000
%RSD	.51994	.03482	43.865	.29357	17.533	70.728	.05076
#1	.03135	-.00047	.00010	32.295	.00045	.00026	.00105
#2	.03112	-.00047	.00020	32.161	.00058	.00078	.00105

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01194	.03378	10.769	.00027	-.00020	26.273	.00030
SDev	.00622	.00011	.024	.00012	.00012	.198	.00014
%RSD	52.076	.32003	.21964	44.194	59.677	.75339	47.144
#1	-.01634	.03385	10.785	.00035	-.00011	26.413	.00040
#2	-.00755	.03370	10.752	.00019	-.00028	26.133	.00020

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00940	.00035	.00089	-.00943	-.00467
SDev	.00046	.00033	.00029	.00125	.00341
%RSD	4.9023	92.491	32.682	13.242	73.073
#1	.00972	.00059	.00109	-.01031	-.00226
#2	.00907	.00012	.00068	-.00855	-.00708

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Analysis Report Thu 08-08-96 10:44:28 AM page 1

Method: SOW40 Sample Name: 8383 Operator: SJ
Run Time: 08/08/96 10:41:30
Comment: MCSH39
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00024	-.00153	.00975	-.01114	-.00028	5.7705	.12739
SDev	.00124	.00483	.00006	.00079	.00051	.0385	.00092
%RSD	511.58	316.48	.64421	7.0770	178.66	.66753	.72172
#1	.00063	-.00495	.00970	-.01058	.00007	5.7433	.12674
#2	-.00112	.00189	.00979	-.01169	-.00064	5.7978	.12804

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06623	-.00041	.00026	79.515	1.2016	.00249	.02526
SDev	.00026	.00001	.00001	.490	.0074	.00000	.00046
%RSD	.39609	3.2881	3.4548	.61660	.61639	.09618	1.8049
#1	.06605	-.00040	.00025	79.169	1.1964	.00249	.02494
#2	.06642	-.00042	.00027	79.862	1.2069	.00249	.02558

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.7764	.14580	20.736	.02882	-.00006	62.060	.00329
SDev	.0214	.00083	.110	.00002	.00063	.295	.00011
%RSD	.31632	.56751	.53085	.08280	979.76	.47578	3.2049
#1	6.7613	.14522	20.658	.02881	-.00051	61.851	.00322
#2	6.7916	.14639	20.813	.02884	.00038	62.269	.00337

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.08132	.01105	.00911	-.01701	-.00824
SDev	.00025	.00086	.00052	.01199	.00708
%RSD	.30223	7.7567	5.6642	70.486	85.899
#1	.08150	.01166	.00874	-.02548	-.00324
#2	.08115	.01044	.00947	-.00853	-.01325

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Analysis Report Thu 08-08-96 10:47:03 AM page 1

Method: SOW40 Sample Name: 8384 Operator: SJ
Run Time: 08/08/96 10:45:04
Comment: MCSH41
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00026	-.00413	.00864	-.00685	.00207	1.9637	.68088
SDev	.00123	.00845	.00000	.00076	.00330	.0037	.00299
%RSD	477.23	204.60	.01223	11.052	159.88	.18682	.43954
#1	-.00113	.00185	.00864	-.00738	-.00027	1.9663	.68300
#2	.00061	-.01011	.00864	-.00631	.00440	1.9611	.67877

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04448	-.00039	.00020	29.597	1.2494	.00274	.01922
SDev	.00013	.00001	.00012	.088	.0044	.00000	.00059
%RSD	.28087	3.4373	58.160	.29798	.35279	.05208	3.0589
#1	.04439	-.00038	.00012	29.535	1.2463	.00274	.01881
#2	.04456	-.00040	.00029	29.659	1.2525	.00273	.01964

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.0783	.14132	5.8780	.02359	.00005	9.2160	.00319
SDev	.0498	.00067	.0118	.00002	.00079	.0186	.00007
%RSD	.61638	.47056	.20128	.10116	1665.1	.20173	2.1822
#1	8.0431	.14085	5.8697	.02357	-.00051	9.2292	.00314
#2	8.1135	.14179	5.8864	.02361	.00060	9.2029	.00324

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.05506	.00876	.00858	-.00670	-.00692
SDev	.00022	.00112	.00055	.00735	.00475
%RSD	.40527	12.788	6.4559	109.66	68.569
#1	.05490	.00797	.00897	-.00150	-.01028
#2	.05522	.00956	.00818	-.01189	-.00357

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Analysis Report QC Standard Thu 08-08-96 10:51:22 AM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 10:48:07
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53940	.20852	.53185	.21143	.53622	49.893	26.549
SDev	.00099	.00025	.00168	.00340	.00212	.177	.005
%RSD	.18327	.11871	.31523	1.6085	.39491	.35554	.01734
#1	.54010	.20834	.53303	.21383	.53473	50.019	26.546
#2	.53870	.20869	.53066	.20902	.53772	49.768	26.552

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52660	.10433	.51689	27.063	.52972	.52287	.50627
SDev	.00094	.00026	.00050	.039	.00216	.00129	.00013
%RSD	.17791	.24985	.09710	.14484	.40741	.24749	.02611
#1	.52594	.10414	.51654	27.035	.52819	.52196	.50618
#2	.52726	.10451	.51725	27.091	.53124	.52379	.50637

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.455	.53355	27.134	.52203	.99938	26.869	.53303
SDev	.028	.00112	.063	.00069	.00212	.003	.00011
%RSD	.26752	.20907	.23303	.13257	.21231	.01221	.01979
#1	10.435	.53276	27.089	.52155	.99788	26.871	.53296
#2	10.475	.53433	27.178	.52252	1.0009	26.866	.53311

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.52396	.52401	.53571	.21776	.20831
SDev	.00086	.00208	.00148	.01446	.00204
%RSD	.16500	.39749	.27560	6.6383	.98127
#1	.52335	.52548	.53675	.22798	.20686
#2	.52457	.52253	.53466	.20754	.20975

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Analysis Report QC Standard Thu 08-08-96 10:54:52 AM page 1

Method: SOW40 Sample Name: CCB4 Operator: SJ
Run Time: 08/08/96 10:51:38
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00017	-.00273	.00149	.00007	.00216	.04413	-.02035
SDev	.00173	.00290	.00023	.00254	.00361	.00657	.00230
%RSD	988.20	106.20	15.454	3461.8	166.86	14.886	11.284
#1	.00105	-.00478	.00133	.00187	.00472	.04878	-.01873
#2	-.00140	-.00068	.00166	-.00172	-.00039	.03949	-.02197

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00058	-.00036	.00075	.03751	.00080	.00052	.00138
SDev	.00016	.00004	.00000	.00338	.00089	.00000	.00019
%RSD	27.856	10.181	.03402	9.0077	110.32	.05479	14.152
#1	.00070	-.00033	.00075	.03990	.00143	.00052	.00151
#2	.00047	-.00039	.00075	.03512	.00018	.00052	.00124

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00618	.00079	.01834	-.00007	.00017	.02165	.00062
SDev	.00244	.00018	.00728	.00012	.00016	.00328	.00046
%RSD	39.535	22.811	39.690	176.78	93.993	15.152	73.545
#1	.00791	.00092	.02349	.00002	.00028	.02397	.00095
#2	.00445	.00066	.01319	-.00015	.00006	.01933	.00030

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00100	.00146	.00151	.00854	-.00410
SDev	.00120	.00025	.00047	.00023	.00367
%RSD	119.77	17.158	31.040	2.7554	89.596
#1	.00185	.00164	.00118	.00871	-.00150
#2	.00015	.00129	.00184	.00837	-.00669

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Analysis Report Thu 08-08-96 10:57:46 AM page 1

Method: SOW40 Sample Name: 8385 Operator: SJ
Run Time: 08/08/96 10:55:40
Comment: MCSH43
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00035	-.00104	.00216	.00014	-.00053	1.4572	.12124
SDev	.00099	.00241	.00158	.00185	.00258	.0088	.00138
%RSD	282.56	232.20	72.997	1300.1	486.06	.60115	1.1384
#1	-.00105	-.00275	.00327	-.00116	-.00235	1.4634	.12221
#2	.00035	.00067	.00104	.00145	.00129	1.4510	.12026

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03313	-.00038	.00028	29.601	.00109	.00039	.00302
SDev	.00007	.00001	.00028	.053	.00027	.00018	.00013
%RSD	.22621	3.3025	100.77	.17922	25.028	47.205	4.2994
#1	.03319	-.00039	.00008	29.638	.00128	.00026	.00293
#2	.03308	-.00037	.00048	29.563	.00090	.00052	.00311

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43536	.05390	5.5016	.00042	-.00020	6.6526	.00079
SDev	.00068	.00022	.0091	.00019	.00012	.0153	.00007
%RSD	.15609	.40077	.16538	45.255	59.202	.23014	8.9324
#1	.43488	.05406	5.5080	.00029	-.00012	6.6634	.00084
#2	.43584	.05375	5.4951	.00056	-.00028	6.6418	.00074

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02589	.00206	.00221	-.00045	.00043
SDev	.00000	.00169	.00152	.00000	.00276
%RSD	.00291	82.030	68.846	.06622	634.78
#1	.02588	.00325	.00328	-.00045	-.00152
#2	.02589	.00086	.00113	-.00045	.00238

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Method: SOW40 Sample Name: 8386 Operator: SJ
Run Time: 08/08/96 10:58:27
Comment: MCSH43 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00384	-.00087	.00262	.00250	.00179	1.4444	.11326
SDev	.00296	.00363	.00037	.00331	.00050	.0016	.00437
%RSD	77.128	417.16	14.191	132.26	27.651	.11371	3.8602
#1	-.00594	.00169	.00289	.00484	.00215	1.4433	.11635
#2	-.00175	-.00343	.00236	.00016	.00144	1.4456	.11017

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03298	-.00040	.00021	29.606	.00122	.00026	.00288
SDev	.00011	.00000	.00014	.116	.00027	.00037	.00007
%RSD	.34087	.02016	65.195	.39147	22.396	141.67	2.2749
#1	.03306	-.00040	.00011	29.688	.00102	.00052	.00283
#2	.03290	-.00040	.00030	29.524	.00141	-.00000	.00293

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42452	.05387	5.4977	.00079	.00011	6.6278	.00064
SDev	.00763	.00034	.0127	.00033	.00031	.0131	.00007
%RSD	1.7981	.63514	.23171	42.126	298.05	.19800	11.037
#1	.41913	.05411	5.5067	.00103	-.00012	6.6371	.00069
#2	.42992	.05362	5.4887	.00056	.00033	6.6186	.00059

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02727	.00335	.00226	.00106	.00321
SDev	.00022	.00034	.00039	.00924	.00039
%RSD	.79898	9.9811	17.261	873.53	12.142
#1	.02712	.00359	.00254	.00759	.00349
#2	.02743	.00312	.00199	-.00548	.00294

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Analysis Report Thu 08-08-96 11:04:57 AM page 1

Method: SOW40 Sample Name: 8387 Operator: SJ
Run Time: 08/08/96 11:01:54
Comment: MCSH43 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04567	.05450	.02471	.00937	.57150	1.3860	2.1848
SDev	.00296	.00579	.00133	.00299	.00372	.0055	.0016
%RSD	6.4886	10.632	5.3837	31.919	.65156	.39503	.07399
#1	.04358	.05040	.02377	.01148	.57413	1.3898	2.1836
#2	.04777	.05859	.02566	.00725	.56887	1.3821	2.1859

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2151	.05209	.05465	28.074	.22170	.55253	.26614
SDev	.0023	.00006	.00008	.013	.00050	.00018	.00058
%RSD	.10602	.11818	.15436	.04694	.22552	.03350	.21928
#1	2.2168	.05214	.05471	28.083	.22205	.55240	.26655
#2	2.2135	.05205	.05459	28.065	.22135	.55266	.26573

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4818	.61247	5.2308	.55494	.05426	6.3487	.55204
SDev	.0021	.00059	.0046	.00060	.00087	.0033	.00046
%RSD	.14079	.09696	.08706	.10751	1.5966	.05168	.08319
#1	1.4803	.61289	5.2341	.55536	.05487	6.3510	.55236
#2	1.4833	.61205	5.2276	.55452	.05365	6.3464	.55171

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.58573	.02397	.02508	.00916	.00947
SDev	.00283	.00209	.00096	.00426	.00236
%RSD	.48341	8.6973	3.8235	46.526	24.956
#1	.58773	.02250	.02440	.01218	.01114
#2	.58373	.02545	.02576	.00615	.00780

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Analysis Report Thu 08-08-96 11:09:21 AM page 1

Method: SOW40 Sample Name: 8385LX5 Operator: SJ
Run Time: 08/08/96 11:06:10
Comment: MCSH43LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00367	.00024	.00164	-.00407	.00337	.27952	.05972
SDev	.00667	.00507	.00099	.00599	.00049	.00329	.00231
%RSD	181.82	2143.5	60.212	147.05	14.684	1.1752	3.8606
#1	-.00838	.00382	.00094	.00016	.00302	.28184	.05809
#2	.00105	-.00335	.00234	-.00831	.00372	.27719	.06135

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00727	-.00041	.00021	5.9274	.00030	.00078	.00125
SDev	.00025	.00001	.00004	.0152	.00018	.00000	.00013
%RSD	3.4367	3.1033	20.851	.25653	60.352	.00739	10.345
#1	.00745	-.00042	.00024	5.9167	.00043	.00078	.00134
#2	.00709	-.00040	.00018	5.9382	.00017	.00078	.00115

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08467	.01094	1.1061	.00012	-.00019	1.1615	.00050
SDev	.01010	.00004	.0000	.00024	.00004	.0011	.00035
%RSD	11.929	.33025	.00003	202.03	21.062	.09415	70.976
#1	.07753	.01097	1.1061	.00029	-.00017	1.1607	.00075
#2	.09181	.01092	1.1061	-.00005	-.00022	1.1623	.00025

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00756	.00155	.00168	-.00354	-.00433
SDev	.00011	.00107	.00095	.00829	.00485
%RSD	1.4374	68.786	56.317	234.00	112.02
#1	.00749	.00080	.00101	.00232	-.00090
#2	.00764	.00231	.00235	-.00941	-.00776

000114

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Analysis Report Thu 08-08-96 11:12:33 AM page 1

Method: SOW40 Sample Name: 8388 Operator: SJ
Run Time: 08/08/96 11:10:32
Comment: MCSH45
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00164	-.00368	.00944	-.00769	.00113	1.6616	.79025
SDev	.00247	.00049	.00102	.00004	.00004	.0548	.01588
%RSD	150.54	13.354	10.832	.45651	3.1753	3.2950	2.0093
#1	.00011	-.00403	.00871	-.00766	.00116	1.6229	.77902
#2	-.00339	-.00334	.01016	-.00771	.00111	1.7003	.80148

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04360	-.00031	.00036	33.921	.70900	.00160	.05468
SDev	.00046	.00001	.00007	.502	.00984	.00037	.00124
%RSD	1.0601	3.9310	19.439	1.4812	1.3875	23.291	2.2635
#1	.04327	-.00032	.00041	33.566	.70205	.00187	.05381
#2	.04393	-.00030	.00031	34.276	.71596	.00134	.05556

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.4681	.16000	6.4603	.02293	.00013	8.7776	.00297
SDev	.0625	.00198	.0992	.00057	.00051	.1575	.00017
%RSD	1.1427	1.2366	1.5350	2.4975	403.96	1.7941	5.9092
#1	5.4239	.15860	6.3902	.02253	-.00023	8.6662	.00284
#2	5.5123	.16140	6.5304	.02334	.00049	8.8889	.00309

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.07197	.00856	.00986	-.00470	-.00916
SDev	.00046	.00102	.00102	.00949	.00462
%RSD	.63167	11.909	10.372	201.66	50.454
#1	.07229	.00784	.00914	.00200	-.01243
#2	.07164	.00928	.01059	-.01141	-.00589

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Method: SOW40 Sample Name: 8389 Operator: SJ
Run Time: 08/08/96 11:13:02
Comment: MCSH47
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00136	-.00921	.01042	.00264	.00074	1.7325	.65288
SDev	.00173	.00024	.00015	.00013	.00055	.0071	.00115
%RSD	127.01	2.5872	1.4619	4.7999	73.702	.41083	.17645
#1	-.00014	-.00904	.01053	.00273	.00035	1.7274	.65370
#2	-.00259	-.00938	.01031	.00255	.00112	1.7375	.65207

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04343	-.00030	.00027	34.599	1.4127	.00281	.03715
SDev	.00017	.00000	.00003	.171	.0063	.00019	.00033
%RSD	.40266	.03998	9.7030	.49514	.44711	6.6475	.88362
#1	.04331	-.00030	.00028	34.478	1.4082	.00295	.03691
#2	.04356	-.00030	.00025	34.720	1.4171	.00268	.03738

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.4863	.15656	6.5448	.02773	.00016	8.8503	.00391
SDev	.0456	.00086	.0187	.00014	.00008	.0284	.00011
%RSD	.53761	.55126	.28504	.51645	49.601	.32127	2.6875
#1	8.4541	.15595	6.5317	.02783	.00010	8.8302	.00384
#2	8.5186	.15717	6.5580	.02762	.00021	8.8704	.00399

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.09407	.01068	.01029	.01020	-.00108
SDev	.00056	.00168	.00060	.00331	.00182
%RSD	.58964	15.694	5.8101	32.452	168.52
#1	.09446	.01186	.00987	.00786	.00021
#2	.09367	.00949	.01072	.01254	-.00237

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Method: SOW40 Sample Name: 8390 Operator: SJ
Run Time: 08/08/96 11:16:20
Comment: MCSH49
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00279	.00034	.00094	-.00506	.00247	.06156	-.01937
SDev	.00938	.00725	.00035	.00402	.00350	.05092	.00368
%RSD	335.93	2122.2	37.693	79.374	142.03	82.718	18.973
#1	.00943	.00546	.00118	-.00222	.00494	.09756	-.01677
#2	-.00384	-.00478	.00069	-.00790	-.00001	.02555	-.02197

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00248	-.00046	.00027	.23845	.00159	-.00026	.00083
SDev	.00013	.00002	.00014	.00574	.00064	.00074	.00058
%RSD	5.0328	5.2808	51.148	2.4090	40.017	282.21	70.658
#1	.00257	-.00044	.00036	.24252	.00204	.00026	.00124
#2	.00239	-.00047	.00017	.23439	.00114	-.00079	.00041

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01555	.00016	.02477	-.00074	-.00003	.07037	.00052
SDev	.00592	.00005	.00546	.00050	.00059	.01094	.00060
%RSD	38.079	32.582	22.040	67.497	2324.4	15.541	114.53
#1	.01973	.00020	.02862	-.00039	.00039	.07810	.00095
#2	.01136	.00013	.02091	-.00110	-.00044	.06264	.00010

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02703	-.00193	.00235	.00066	-.00788
SDev	.00054	.00008	.00049	.00569	.00880
%RSD	2.0102	4.2374	20.696	861.88	111.64
#1	.02742	-.00187	.00269	-.00336	-.00166
#2	.02665	-.00199	.00200	.00468	-.01410

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Analysis Report Thu 08-08-96 11:24:36 AM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 08/08/96 11:21:31
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02531	.02328	.00835	.01509	.14248	.03600	-.02012
SDev	.00617	.00242	.00127	.00082	.00060	.01150	.00230
%RSD	24.391	10.376	15.160	5.4391	.42292	31.934	11.434
#1	.02968	.02499	.00746	.01567	.14290	.04413	-.02175
#2	.02095	.02157	.00925	.01451	.14205	.02787	-.01849

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	.01164	.01277	.01959	.02448	.12385	.05774
SDev	.00003	.00004	.00015	.00034	.00005	.00018	.00013
%RSD	282.84	.32122	1.1535	1.7247	.18522	.14936	.22460
#1	.00001	.01166	.01287	.01983	.02452	.12372	.05784
#2	-.00003	.01161	.01266	.01935	.02445	.12399	.05765

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00714	.03687	.00549	.09973	.02431	.03016	.12106
SDev	.00035	.00004	.00045	.00012	.00016	.00000	.00011
%RSD	4.8755	.09758	8.2780	.11965	.64436	.00000	.08752
#1	.00689	.03689	.00517	.09981	.02442	.03016	.12099
#2	.00738	.03684	.00581	.09964	.02420	.03016	.12114

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.05142	.00771	.00867	.02161	.01188
SDev	.00022	.00058	.00160	.00142	.00052
%RSD	.42363	7.5204	18.506	6.5768	4.4196
#1	.05158	.00730	.00753	.02262	.01225
#2	.05127	.00812	.00980	.02061	.01151

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Method: SOW40 Sample Name: ICSA194 Operator: SJ
Run Time: 08/08/96 11:39:43
Comment: ICS-A3
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00662	.00700	.00109	-.00603	.00464	.10322	492.62
SDev	.00227	.00242	.00078	.00092	.00568	.01290	.23
%RSD	34.333	34.607	71.741	15.321	122.53	12.493	.04656
#1	-.00502	.00872	.00164	-.00669	.00062	.11234	492.46
#2	-.00823	.00529	.00054	-.00538	.00866	.09410	492.78

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00364	-.00027	.00512	482.06	.03832	.00062	.02258
SDev	.00001	.00001	.00030	.03	.00037	.00018	.00018
%RSD	.33043	4.4714	5.7548	.00606	.96666	28.830	.79932
#1	.00363	-.00028	.00533	482.04	.03806	.00049	.02271
#2	.00365	-.00027	.00491	482.08	.03858	.00075	.02246

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	175.30	.05270	476.97	.01369	.00066	.19736	-.00042
SDev	.08	.00017	.21	.00007	.00016	.00106	.00023
%RSD	.04535	.32857	.04468	.49913	24.105	.53979	55.246
#1	175.25	.05282	477.12	.01364	.00054	.19812	-.00059
#2	175.36	.05258	476.82	.01374	.00077	.19661	-.00026

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.01054	-.02546	.01417	-.01498	-.00163
SDev	.00078	.00325	.00277	.02272	.00981
%RSD	7.4079	12.755	19.531	151.68	603.28
#1	.00999	-.02776	.01613	-.03104	.00531
#2	.01109	-.02317	.01221	.00109	-.00856

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Method: SOW40 Sample Name: ICSAB596 Operator: SJ
Run Time: 08/08/96 11:44:18
Comment: ICS-AB3
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08934	.09870	.04283	.03734	.56221	.06748	497.52
SDev	.00025	.00824	.00023	.00072	.00551	.00877	.47
%RSD	.28217	8.3501	.53138	1.9350	.97950	12.995	.09360
#1	.08916	.10453	.04300	.03683	.55831	.07368	497.20
#2	.08952	.09288	.04267	.03785	.56610	.06128	497.85

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46514	.46402	.91403	509.90	.47129	.42884	.47255
SDev	.00042	.00189	.00282	.64	.00161	.00054	.00102
%RSD	.09056	.40700	.30834	.12480	.34223	.12512	.21552
#1	.46485	.46268	.91204	509.45	.47015	.42846	.47183
#2	.46544	.46535	.91602	510.35	.47243	.42922	.47327

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	182.90	.49956	493.53	.82790	.18845	.15292	.45869
SDev	.22	.00104	1.18	.00064	.00042	.00000	.00246
%RSD	.12227	.20899	.23914	.07704	.22358	.00000	.53632
#1	182.74	.49882	492.70	.82745	.18875	.15292	.45695
#2	183.06	.50029	494.37	.82835	.18816	.15292	.46043

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.92908	.02646	.05090	.03844	.03680
SDev	.00357	.00369	.00148	.00361	.00286
%RSD	.38403	13.939	2.9024	9.3875	7.7607
#1	.92656	.02907	.04985	.04099	.03478
#2	.93160	.02386	.05194	.03589	.03882

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Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 11:47:21
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52773	.19303	.50441	.21236	.51663	46.236	24.900
SDev	.01339	.01293	.00407	.00452	.00306	.805	.240
%RSD	2.5371	6.6972	.80624	2.1284	.59241	1.7415	.96327
#1	.51826	.18389	.50153	.21555	.51447	45.666	24.731
#2	.53719	.20217	.50728	.20916	.51879	46.805	25.070

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49686	.10413	.51356	23.934	.49519	.49074	.48186
SDev	.00294	.00055	.00363	.129	.00327	.00215	.00375
%RSD	.59105	.52551	.70723	.53708	.65992	.43754	.77845
#1	.49479	.10374	.51099	23.843	.49288	.48922	.47921
#2	.49894	.10452	.51612	24.025	.49750	.49225	.48451

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8366	.49788	24.169	.48943	.96871	25.448	.50172
SDev	.0482	.00299	.176	.00298	.00838	.308	.00341
%RSD	.48998	.60015	.72955	.60965	.86536	1.2098	.67936
#1	9.8025	.49576	24.044	.48732	.96278	25.230	.49931
#2	9.8707	.49999	24.294	.49154	.97464	25.666	.50413

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.52457	.49184	.51060	.24160	.19795
SDev	.00219	.00121	.00547	.00097	.00627
%RSD	.41704	.24591	1.0721	.40259	3.1658
#1	.52302	.49099	.50673	.24229	.20238
#2	.52612	.49270	.51447	.24092	.19352

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Method: SOW40 Sample Name: CCB5 Operator: SJ
Run Time: 08/08/96 11:50:04
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00197	.00305	.00106	-.00166	.00084	.02918	-.00570
SDev	.00884	.00096	.00008	.00085	.00206	.00413	.00022
%RSD	449.98	31.421	7.5233	51.110	244.17	14.142	3.8374
#1	.00429	.00373	.00101	-.00227	-.00061	.03210	-.00554
#2	-.00822	.00237	.00112	-.00106	.00230	.02626	-.00585

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	-.00037	.00019	.01031	.00000	.00051	.00035
SDev	.00008	.00005	.00014	.00213	.00006	.00036	.00019
%RSD	494.97	13.324	70.738	20.624	35666.	70.715	52.897
#1	.00008	-.00034	.00010	.01182	-.00005	.00076	.00049
#2	-.00004	-.00041	.00029	.00881	.00005	.00025	.00022

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00493	-.00005	.01288	-.00032	.00011	-.00829	.00021
SDev	.00297	.00003	.00290	.00020	.00015	.00000	.00044
%RSD	60.308	70.483	22.502	63.640	138.46	.00000	204.39
#1	.00283	-.00002	.01492	-.00018	.00000	-.00829	.00053
#2	.00703	-.00007	.01083	-.00047	.00022	-.00829	-.00010

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00039	.00074	.00122	.00720	-.00603
SDev	.00033	.00244	.00108	.00498	.00118
%RSD	84.688	327.63	88.269	69.072	19.568
#1	-.00016	-.00098	.00199	.00368	-.00520
#2	-.00062	.00246	.00046	.01072	-.00687

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Method: SOW40 Sample Name: 8391 Operator: SJ
Run Time: 08/08/96 11:54:25
Comment: MCSH50
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00411	.00593	.00212	.00195	.00007	.00729	-.00507
SDev	.00227	.00024	.00029	.00152	.00087	.02063	.00246
%RSD	55.331	4.0368	13.542	78.111	1305.7	282.84	48.618
#1	-.00250	.00610	.00232	.00087	-.00055	-.00729	-.00681
#2	-.00572	.00577	.00192	.00303	.00068	.02188	-.00333

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00025	-.00040	.00014	.01998	.00106	-.00025	.00044
SDev	.00002	.00001	.00028	.00000	.00039	.00036	.00031
%RSD	9.7532	3.1886	196.06	.00000	36.897	141.28	70.427
#1	.00023	-.00041	-.00005	.01998	.00134	-.00051	.00022
#2	.00026	-.00039	.00034	.01998	.00079	-.00000	.00066

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01598	.00006	.05414	.00005	.00000	.01281	.00031
SDev	.00330	.00002	.00000	.00046	.00031	.00213	.00017
%RSD	20.646	28.488	.00030	942.81	22827.	16.638	54.426
#1	.01832	.00007	.05414	-.00027	-.00022	.01130	.00043
#2	.01365	.00005	.05414	.00037	.00022	.01431	.00019

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.01836	.00139	.00248	.00853	-.00129
SDev	.00088	.00154	.00033	.00924	.00683
%RSD	4.7974	110.56	13.213	108.24	528.80
#1	.01773	.00247	.00225	.01507	-.00612
#2	.01898	.00030	.00271	.00200	.00354

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Method: SOW40 Sample Name: 7838 Operator: SJ
Run Time: 08/08/96 11:57:20
Comment: MDLL07
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00160	.00424	.00064	.02504	.07597	3.6131	.38046
SDev	.00278	.00615	.00008	.00154	.00386	.0547	.00089
%RSD	173.36	144.98	12.250	6.1688	5.0826	1.5133	.23334
#1	.00357	.00859	.00069	.02395	.07870	3.6517	.38109
#2	-.00036	-.00011	.00058	.02613	.07324	3.5744	.37983

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	-.00043	.01136	4.8573	.01386	.06491	.00691
SDev	.00004	.00000	.00014	.0125	.00037	.00018	.00011
%RSD	12.478	.16926	1.2491	.25651	2.6755	.27551	1.6033
#1	.00026	-.00044	.01146	4.8661	.01412	.06504	.00683
#2	.00031	-.00043	.01126	4.8485	.01360	.06479	.00699

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	65.472	.03952	.00505	.00644	.00046	-.00226	.25486
SDev	.164	.00007	.00207	.00016	.00047	.00000	.00064
%RSD	.25021	.16682	40.975	2.4749	100.96	.00000	.25044
#1	65.588	.03956	.00651	.00633	.00013	-.00226	.25531
#2	65.357	.03947	.00359	.00656	.00080	-.00226	.25441

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.05834	.00196	-.00001	.02804	.02356
SDev	.00011	.00018	.00020	.00113	.00286
%RSD	.18745	9.0794	1381.5	4.0345	12.150
#1	.05842	.00183	.00013	.02884	.02154
#2	.05827	.00208	-.00016	.02724	.02558

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Analysis Report QC Standard Thu 08-08-96 12:10:29 PM page 1

Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 08/08/96 12:08:36
Comment: EXT.BLANK
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00321	.00384	.00102	-.00022	.00027	.02079	-.02073
SDev	.00152	.00543	.00061	.00040	.00274	.00671	.00134
%RSD	47.139	141.46	59.544	179.49	1034.5	32.254	6.4702
#1	-.00429	.00767	.00145	.00006	.00220	.01605	-.02168
#2	-.00214	-.00000	.00059	-.00051	-.00167	.02553	-.01979

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00005	-.00034	.00015	-.00129	.00015	-.00000	.00035
SDev	.00001	.00000	.00020	.00030	.00002	.00072	.00006
%RSD	23.570	.03486	133.99	23.570	14.161	1436700.	17.594
#1	-.00006	-.00034	.00029	-.00107	.00014	.00051	.00031
#2	-.00004	-.00034	.00001	-.00150	.00017	-.00051	.00040

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00117	-.00007	-.00000	-.00042	-.00014	-.00829	.00041
SDev	.00364	.00000	.00372	.00011	.00004	.00000	.00010
%RSD	310.50	.06596	546620.	27.196	28.990	.00000	24.972
#1	.00140	-.00007	.00263	-.00050	-.00017	-.00829	.00033
#2	-.00375	-.00007	-.00263	-.00034	-.00011	-.00829	.00048

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00023	.00097	.00104	.00994	-.00523
SDev	.00033	.00146	.00019	.00899	.00382
%RSD	141.39	150.64	17.830	90.407	73.112
#1	-.00047	.00200	.00118	.01629	-.00793
#2	-.00000	-.00006	.00091	.00359	-.00253

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Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 08/08/96 12:11:35
Comment: EXT.BLANK
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00500	-.00070	.00138	-.00243	.00103	.01860	-.01946
SDev	.00202	.00049	.00151	.00200	.00016	.00567	.00090
%RSD	40.405	70.723	109.91	82.403	15.904	30.503	4.6171
#1	-.00643	-.00105	.00245	-.00101	.00114	.02261	-.02010
#2	-.00357	-.00035	.00031	-.00385	.00091	.01459	-.01883

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00006	-.00033	.00001	-.00301	-.00014	.00000	.00035
SDev	.00002	.00000	.00014	.00030	.00022	.00036	.00031
%RSD	40.406	.10463	937.13	10.102	157.02	799250.	88.344
#1	-.00008	-.00033	.00011	-.00322	-.00029	.00025	.00057
#2	-.00004	-.00033	-.00008	-.00279	.00002	-.00025	.00013

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00281	-.00009	.00293	-.00005	.00003	-.00979	.00002
SDev	.00065	.00002	.00290	.00018	.00004	.00000	.00030
%RSD	23.206	20.271	99.027	377.12	145.68	.00000	1275.6
#1	.00327	-.00010	.00088	.00008	.00006	-.00979	.00024
#2	.00235	-.00007	.00497	-.00018	-.00000	-.00979	-.00019

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00070	.00167	.00123	-.00917	.00089
SDev	.00033	.00091	.00181	.00556	.00025
%RSD	47.198	54.255	147.20	60.612	28.290
#1	-.00047	.00232	.00251	-.00524	.00107
#2	-.00093	.00103	-.00005	-.01310	.00071

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Analysis Report QC Standard Thu 08-08-96 12:21:35 PM page 1

Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 08/08/96 12:17:09
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04795	.05325	2.6660	.05523	.54967	23.707	.98047
SDev	.00379	.00770	.0018	.00031	.00155	.082	.00268
%RSD	7.8995	14.452	.06926	.56561	.28265	.34594	.27322
#1	.05063	.04781	2.6673	.05501	.55076	23.765	.98237
#2	.04528	.05870	2.6647	.05545	.54857	23.649	.97858

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0251	.25719	.32031	24.354	.24577	.27351	.24795
SDev	.0010	.00024	.00018	.025	.00063	.00072	.00050
%RSD	.09862	.09174	.05625	.10107	.25720	.26165	.20151
#1	1.0258	.25736	.32044	24.372	.24621	.27401	.24830
#2	1.0244	.25703	.32018	24.337	.24532	.27300	.24759

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0091	.25213	12.205	.25055	.29189	24.508	.25818
SDev	.0006	.00022	.012	.00030	.00004	.047	.00057
%RSD	.06234	.08853	.09492	.11818	.01432	.19126	.22228
#1	1.0096	.25229	12.197	.25075	.29192	24.542	.25859
#2	1.0087	.25197	12.213	.25034	.29186	24.475	.25777

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.6594	2.6070	2.6950	.05860	.05357
SDev	.0003	.0029	.0013	.01083	.00487
%RSD	.01987	.11064	.04955	18.481	9.0878
#1	1.6596	2.6091	2.6959	.05094	.05701
#2	1.6591	2.6050	2.6940	.06626	.05012

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Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 08/08/96 12:21:55
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04903	.04974	2.6509	.05951	.54691	23.540	.97543
SDev	.00480	.00322	.0152	.00106	.00752	.135	.00669
%RSD	9.7870	6.4808	.57414	1.7872	1.3743	.57190	.68618
#1	.04563	.05201	2.6401	.05876	.54159	23.445	.97069
#2	.05242	.04746	2.6617	.06026	.55222	23.636	.98016

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0214	.25550	.31821	24.211	.24375	.27110	.24720
SDev	.0026	.00158	.00147	.143	.00113	.00197	.00106
%RSD	.24981	.61825	.46275	.58869	.46512	.72600	.42992
#1	1.0196	.25439	.31717	24.110	.24295	.26971	.24644
#2	1.0232	.25662	.31925	24.312	.24455	.27250	.24795

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99942	.25042	12.123	.24806	.28943	24.411	.25668
SDev	.01297	.00117	.057	.00235	.00083	.042	.00176
%RSD	1.2980	.46627	.47118	.94575	.28769	.17019	.68378
#1	.99025	.24959	12.082	.24641	.28885	24.382	.25544
#2	1.0086	.25124	12.163	.24972	.29002	24.441	.25792

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.6462	2.5974	2.6772	.06643	.05610
SDev	.0162	.0077	.0189	.00529	.00102
%RSD	.98113	.29533	.70738	7.9625	1.8146
#1	1.6347	2.5920	2.6638	.06269	.05682
#2	1.6576	2.6029	2.6906	.07017	.05538

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Method: SOW40 Sample Name: 8545 Operator: SJ
Run Time: 08/08/96 12:25:42
Comment: MCRT50
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00344	-.00398	.00839	-.00460	-.00025	1.5932	.42311
SDev	.00253	.00198	.00047	.00414	.00435	.0134	.00247
%RSD	73.381	49.789	5.6255	89.971	1755.6	.84179	.58253
#1	.00523	-.00258	.00806	-.00753	-.00332	1.5837	.42137
#2	.00166	-.00538	.00873	-.00167	.00283	1.6026	.42486

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06038	-.00012	.00035	27.237	.37409	.00418	.03466
SDev	.00007	.00001	.00000	.079	.00063	.00000	.00013
%RSD	.11960	10.427	.06802	.29010	.16881	.00488	.35980
#1	.06043	-.00011	.00035	27.181	.37364	.00418	.03457
#2	.06033	-.00013	.00035	27.293	.37454	.00418	.03475

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.0130	.11367	5.1335	.17461	.00049	6.0467	.00171
SDev	.0023	.00019	.0083	.00055	.00016	.0085	.00027
%RSD	.07613	.16625	.16127	.31308	31.853	.14094	15.796
#1	3.0147	.11354	5.1276	.17422	.00038	6.0407	.00190
#2	3.0114	.11380	5.1393	.17499	.00060	6.0527	.00152

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.41987	.00801	.00858	.01364	-.01358
SDev	.00198	.00322	.00229	.00046	.00640
%RSD	.47086	40.166	26.683	3.3823	47.147
#1	.41847	.01029	.00696	.01397	-.01811
#2	.42127	.00574	.01020	.01331	-.00905

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Method: SOW40 Sample Name: 8546 Operator: SJ
Run Time: 08/08/96 12:28:28
Comment: MCRT52
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00568	-.00294	.00809	-.00219	.00158	1.6315	.83975
SDev	.00025	.00546	.00071	.00560	.00436	.0088	.00000
%RSD	4.4521	185.72	8.8175	256.00	276.10	.53749	.00005
#1	.00586	-.00679	.00859	-.00615	.00467	1.6377	.83975
#2	.00550	.00092	.00758	.00177	-.00151	1.6253	.83975

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08557	-.00011	.00038	27.230	.61188	.00259	.05926
SDev	.00012	.00000	.00010	.016	.00109	.00036	.00013
%RSD	.14065	.03602	25.295	.06027	.17800	13.826	.21252
#1	.08549	-.00011	.00045	27.219	.61111	.00233	.05918
#2	.08566	-.00011	.00031	27.242	.61265	.00284	.05935

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.6645	.12426	5.0780	.06661	.00069	5.9638	.00266
SDev	.0122	.00014	.0008	.00002	.00043	.0043	.00003
%RSD	.26198	.11040	.01632	.03419	62.978	.07145	1.2792
#1	4.6558	.12417	5.0774	.06663	.00099	5.9669	.00268
#2	4.6731	.12436	5.0786	.06660	.00038	5.9608	.00263

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.46872	.00822	.00802	.00406	-.00526
SDev	.00044	.00071	.00141	.00853	.01256
%RSD	.09351	8.6055	17.612	210.21	238.62
#1	.46841	.00772	.00902	.01009	-.01414
#2	.46903	.00872	.00702	-.00197	.00362

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Method: SOW40 Sample Name: 8547 Operator: SJ
Run Time: 08/08/96 12:31:26
Comment: MCRT54
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00496	-.00945	.00612	-.01159	.00171	1.6088	.70287
SDev	.00328	.00521	.00083	.00039	.00178	.0098	.00022
%RSD	66.149	55.100	13.552	3.3322	104.06	.60916	.03201
#1	.00264	-.01313	.00553	-.01132	.00296	1.6019	.70303
#2	.00728	-.00577	.00671	-.01187	.00045	1.6158	.70271

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09232	-.00015	.00017	26.916	.62226	.00170	.03062
SDev	.00001	.00001	.00001	.001	.00026	.00018	.00019
%RSD	.01304	8.2406	6.7686	.00451	.04201	10.550	.61345
#1	.09231	-.00014	.00017	26.916	.62208	.00182	.03049
#2	.09233	-.00016	.00016	26.917	.62244	.00157	.03076

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.8706	.12039	5.0288	.01881	.00044	5.8734	.00246
SDev	.0059	.00012	.0017	.00043	.00055	.0000	.00010
%RSD	.12210	.09975	.03293	2.3005	125.99	.00000	4.1088
#1	4.8664	.12031	5.0276	.01851	.00082	5.8734	.00239
#2	4.8748	.12048	5.0299	.01912	.00005	5.8734	.00253

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.11730	.00581	.00627	-.00009	-.01726
SDev	.00022	.00002	.00125	.00300	.00090
%RSD	.18705	.26103	19.849	3399.7	5.2098
#1	.11715	.00582	.00539	.00203	-.01790
#2	.11746	.00580	.00715	-.00221	-.01662

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Method: SOW40 Sample Name: 8548 Operator: SJ
Run Time: 08/08/96 12:34:13
Comment: MCRT56
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	-.00232	.01430	-.00579	-.00035	1.4826	.62755
SDev	.00177	.00521	.00028	.00360	.00224	.0222	.00559
%RSD	474.37	224.16	1.9325	62.135	637.86	1.4960	.89125
#1	.00162	-.00601	.01449	-.00324	-.00194	1.4670	.62360
#2	-.00088	.00136	.01410	-.00833	.00123	1.4983	.63151

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04826	-.00015	.00023	25.335	.47013	.00124	.03978
SDev	.00014	.00001	.00006	.106	.00174	.00089	.00025
%RSD	.29925	8.0687	28.109	.41742	.37068	72.114	.63184
#1	.04816	-.00016	.00028	25.261	.46889	.00061	.03960
#2	.04836	-.00014	.00019	25.410	.47136	.00187	.03996

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.0128	.13163	4.7322	.00871	.00180	5.6716	.00236
SDev	.0179	.00046	.0240	.00027	.00004	.0469	.00014
%RSD	.44552	.35209	.50731	3.1369	2.1591	.82648	5.7099
#1	4.0001	.13130	4.7152	.00852	.00182	5.6384	.00226
#2	4.0254	.13196	4.7491	.00891	.00177	5.7047	.00245

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.07553	.01219	.01534	.00706	-.01212
SDev	.00000	.00113	.00015	.00415	.00332
%RSD	.00428	9.2993	.95003	58.792	27.428
#1	.07553	.01299	.01524	.00999	-.00977
#2	.07553	.01138	.01544	.00412	-.01447

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Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 12:37:02
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.53129	.20206	.50711	.19781	.51614	47.241	24.749
SDev	.00505	.00248	.00118	.00692	.00436	.003	.000
%RSD	.95075	1.2280	.23223	3.4962	.84452	.00655	.00092
#1	.53487	.20030	.50627	.20270	.51922	47.243	24.749
#2	.52772	.20381	.50794	.19292	.51306	47.239	24.749

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49667	.10440	.51678	23.885	.49650	.48741	.48792
SDev	.00044	.00029	.00100	.010	.00044	.00054	.00081
%RSD	.08966	.27481	.19262	.04072	.08768	.11012	.16617
#1	.49698	.10420	.51608	23.878	.49619	.48703	.48849
#2	.49635	.10460	.51749	23.892	.49681	.48779	.48734

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8821	.49714	24.165	.49033	.96305	25.847	.50399
SDev	.0126	.00026	.029	.00020	.00326	.001	.00040
%RSD	.12764	.05183	.11989	.04180	.33878	.00412	.08042
#1	9.8732	.49696	24.144	.49019	.96536	25.846	.50428
#2	9.8910	.49732	24.185	.49048	.96075	25.848	.50370

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.52801	.49241	.51434	.20899	.19230
SDev	.00176	.00059	.00205	.00530	.00771
%RSD	.33264	.12014	.39839	2.5367	4.0099
#1	.52677	.49283	.51289	.21274	.19776
#2	.52925	.49199	.51579	.20524	.18685

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Method: SOW40 Sample Name: CCB6 Operator: SJ
Run Time: 08/08/96 12:39:59
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00054	-.00316	.00084	.00145	.00171	.02590	-.01614
SDev	.00076	.00149	.00031	.00072	.00092	.02321	.00157
%RSD	141.39	47.117	36.408	49.317	53.548	89.633	9.7131
#1	-.00000	-.00421	.00106	.00196	.00106	.04231	-.01504
#2	-.00107	-.00210	.00062	.00095	.00235	.00948	-.01725

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00007	-.00026	.00026	.00559	.00029	.00038	.00044
SDev	.00011	.00000	.00034	.00395	.00009	.00018	.00019
%RSD	159.10	.05880	129.68	70.711	29.708	47.145	42.310
#1	.00014	-.00026	.00050	.00838	.00035	.00051	.00057
#2	-.00001	-.00026	.00002	.00279	.00023	.00025	.00031

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00398	-.00001	.00673	-.00034	-.00022	-.00301	.00029
SDev	.00429	.00005	.00331	.00023	.00016	.00320	.00014
%RSD	107.69	418.59	49.198	67.344	70.844	106.07	47.124
#1	.00095	.00002	.00907	-.00018	-.00011	-.00075	.00019
#2	.00701	-.00005	.00439	-.00050	-.00033	-.00527	.00038

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00054	.00124	.00064	.00424	.00008
SDev	.00055	.00288	.00097	.00138	.00039
%RSD	100.84	231.90	150.56	32.642	476.93
#1	-.00016	.00328	-.00004	.00522	.00036
#2	-.00093	-.00080	.00132	.00326	-.00019

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Method: SOW40 Sample Name: 8549 Operator: SJ
Run Time: 08/08/96 12:50:23
Comment: MCSH57
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00529	-.00424	.02591	-.00332	.00119	1.7584	1.0988
SDev	.00000	.00298	.00059	.00428	.00235	.0201	.0078
%RSD	.00785	70.256	2.2586	129.02	197.13	1.1440	.71264
#1	.00529	-.00635	.02632	-.00029	-.00047	1.7442	1.0933
#2	.00529	-.00213	.02549	-.00634	.00286	1.7726	1.1043

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05705	-.00010	.00042	29.111	.19785	.00133	.05216
SDev	.00024	.00001	.00008	.138	.00120	.00018	.00031
%RSD	.42196	12.286	20.048	.47394	.60555	13.505	.60087
#1	.05687	-.00011	.00036	29.014	.19700	.00145	.05194
#2	.05722	-.00009	.00048	29.209	.19869	.00120	.05238

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.6960	.17798	5.8812	.01213	.00034	6.4331	.00253
SDev	.0136	.00060	.0170	.00059	.00012	.0522	.00017
%RSD	.36718	.33763	.28860	4.8831	34.075	.81143	6.6561
#1	3.6864	.17756	5.8692	.01255	.00043	6.3962	.00241
#2	3.7056	.17841	5.8932	.01171	.00026	6.4701	.00265

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.33292	.02654	.02559	.00310	-.00648
SDev	.00209	.00185	.00004	.01523	.00111
%RSD	.62651	6.9694	.14751	490.63	17.168
#1	.33145	.02785	.02557	.01387	-.00726
#2	.33440	.02523	.02562	-.00766	-.00569

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Analysis Report Thu 08-08-96 12:55:29 PM page 1

Method: SOW40 Sample Name: 8550 Operator: SJ
Run Time: 08/08/96 12:53:20
Comment: MCSB67
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00250	-.00438	.00316	-.00305	.00019	.02371	.01044
SDev	.00253	.00917	.00084	.00031	.00167	.00774	.00112
%RSD	101.02	209.51	26.713	10.164	897.13	32.636	10.673
#1	.00429	-.01087	.00375	-.00283	-.00099	.01824	.00965
#2	.00071	.00211	.00256	-.00327	.00136	.02918	.01123

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	-.00026	.00008	.05780	.00025	.00076	.00407
SDev	.00002	.00000	.00006	.00182	.00002	.00000	.00006
%RSD	4.7939	.16201	81.441	3.1544	8.7390	.00092	1.5187
#1	.00049	-.00026	.00012	.05909	.00026	.00076	.00402
#2	.00052	-.00026	.00003	.05652	.00023	.00076	.00411

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05144	.00074	.02810	-.00024	-.00003	.08663	.00007
SDev	.00793	.00005	.00041	.00005	.00020	.00213	.00037
%RSD	15.421	6.9889	1.4711	18.856	718.14	2.4595	525.89
#1	.05705	.00070	.02839	-.00027	-.00017	.08814	-.00019
#2	.04583	.00078	.02781	-.00021	.00011	.08512	.00033

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02657	.00272	.00337	-.00050	-.00431
SDev	.00066	.00038	.00107	.00946	.00419
%RSD	2.4814	13.833	31.830	1872.4	97.355
#1	.02611	.00299	.00413	.00618	-.00727
#2	.02704	.00245	.00261	-.00719	-.00134

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Method: SOW40 Sample Name: 8551 Operator: SJ
Run Time: 08/08/96 12:56:21
Comment: MCSB68
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	-.00561	.00127	-.00194	.00243	.01532	-.01472
SDev	.00278	.00149	.00026	.00164	.00312	.00825	.00223
%RSD	1553.9	26.516	20.613	84.178	128.34	53.875	15.175
#1	-.00214	-.00456	.00109	-.00310	.00022	.00948	-.01630
#2	.00179	-.00666	.00146	-.00079	.00463	.02115	-.01314

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00010	-.00026	.00010	.02922	.00054	-.00000	.00159
SDev	.00006	.00001	.00008	.00091	.00030	.00000	.00006
%RSD	58.926	4.7044	86.678	3.1196	56.599	56.602	3.8749
#1	.00006	-.00026	.00016	.02987	.00032	-.00000	.00155
#2	.00014	-.00025	.00004	.02858	.00076	-.00000	.00163

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00728	.00001	.01961	-.00074	-.00033	.03164	.00021
SDev	.00958	.00009	.00166	.00007	.00063	.00106	.00037
%RSD	131.68	738.57	8.4471	9.2231	189.60	3.3672	173.04
#1	.01405	-.00005	.01844	-.00079	-.00078	.03089	-.00005
#2	.00050	.00007	.02078	-.00069	.00011	.03239	.00048

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02634	.00071	.00155	.00032	-.00306
SDev	.00011	.00216	.00067	.00646	.00074
%RSD	.41885	304.13	43.389	2033.4	24.235
#1	.02642	-.00082	.00203	-.00425	-.00253
#2	.02626	.00224	.00108	.00488	-.00358

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Method: SOW40 Sample Name: 8553 Operator: SJ
Run Time: 08/08/96 13:00:29
Comment: MCSB70
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00018	-.00403	.00169	.00323	.00102	.36510	-.01187
SDev	.00581	.00074	.00050	.00257	.00070	.00980	.00268
%RSD	3245.3	18.471	29.736	79.604	68.766	2.6843	22.597
#1	-.00429	-.00350	.00133	.00141	.00151	.35817	-.01376
#2	.00393	-.00455	.00205	.00504	.00052	.37203	-.00997

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00101	-.00023	.00022	.30600	.00117	-.00013	.00269
SDev	.00005	.00000	.00013	.00091	.00002	.00054	.00025
%RSD	4.7537	.15292	58.664	.29794	1.8425	423.01	9.2711
#1	.00098	-.00023	.00013	.30664	.00119	-.00051	.00252
#2	.00105	-.00023	.00031	.30535	.00116	.00025	.00287

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00458	.00078	.07433	-.00006	.00017	H118.00	.00002
SDev	.00033	.00003	.00290	.00020	.00008	.64	.00030
%RSD	7.1577	4.4167	3.8975	318.20	47.956	.54619	1277.5
#1	.00481	.00075	.07229	-.00021	.00011	H118.46	-.00019
#2	.00435	.00080	.07638	.00008	.00022	H117.55	.00024

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02230	.00114	.00196	-.00148	.00554
SDev	.00011	.00090	.00031	.00161	.00304
%RSD	.49231	78.657	15.681	109.39	54.827
#1	.02222	.00051	.00174	-.00262	.00339
#2	.02238	.00178	.00218	-.00033	.00769

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Method: SOW40 Sample Name: 8554 Operator: SJ
Run Time: 08/08/96 13:04:34
Comment: MCSB71
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00089	.00167	.00152	.01038	.00323	2.1432	-.01202
SDev	.00278	.00273	.00004	.00138	.00167	.0000	.00246
%RSD	311.14	163.09	2.6510	13.334	51.546	.00000	20.481
#1	.00286	.00360	.00155	.00940	.00441	2.1432	-.01377
#2	-.00107	-.00026	.00149	.01136	.00205	2.1432	-.01028

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03068	-.00015	.00013	71.213	.00016	.00013	.02455
SDev	.00000	.00001	.00007	.149	.00009	.00018	.00031
%RSD	.00000	8.2485	54.824	.20952	53.289	141.46	1.2778
#1	.03068	-.00014	.00019	71.319	.00023	.00025	.02433
#2	.03068	-.00016	.00008	71.108	.00010	-.00000	.02477

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	.01549	13.778	-.00052	.00019	29.499	-.00012
SDev	.00237	.00003	.029	.00011	.00035	.082	.00010
%RSD	1026.0	.22195	.20725	22.097	184.45	.27808	84.812
#1	.00191	.01552	13.798	-.00043	-.00006	29.557	-.00005
#2	-.00144	.01547	13.757	-.00060	.00044	29.441	-.00019

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03705	.00213	.00122	.01221	.00948
SDev	.00044	.00220	.00102	.00161	.00127
%RSD	1.1906	103.06	84.099	13.227	13.401
#1	.03674	.00369	.00049	.01106	.00858
#2	.03737	.00058	.00194	.01335	.01038

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Method: SOW40 Sample Name: 8555 Operator: SJ
Run Time: 08/08/96 13:07:32
Comment: MCSB72
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00357	-.00525	.00330	.00340	.00121	1.8375	-.01551
SDev	.00303	.00149	.00008	.00018	.00290	.0052	.00023
%RSD	84.851	28.320	2.3893	5.4135	239.53	.28071	1.4602
#1	-.00143	-.00420	.00336	.00327	.00327	1.8339	-.01535
#2	-.00571	-.00631	.00325	.00354	-.00084	1.8412	-.01567

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01881	-.00022	.00017	22.817	.00045	-.00038	.05405
SDev	.00006	.00001	.00011	.076	.00017	.00018	.00006
%RSD	.31995	5.5200	61.589	.33298	39.055	47.108	.11523
#1	.01885	-.00023	.00025	22.871	.00032	-.00051	.05401
#2	.01877	-.00021	.00010	22.763	.00057	-.00025	.05409

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00595	.00095	4.6110	-.00021	.00009	4.5484	.00045
SDev	.00199	.00002	.0050	.00023	.00035	.0053	.00024
%RSD	33.552	1.8122	.10770	108.79	413.70	.11712	52.124
#1	.00736	.00096	4.6145	-.00037	.00033	4.5522	.00029
#2	.00454	.00093	4.6074	-.00005	-.00016	4.5446	.00062

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03660	.00415	.00289	-.00148	.00581
SDev	.00154	.00155	.00088	.01315	.00620
%RSD	4.2041	37.349	30.556	888.12	106.70
#1	.03768	.00305	.00351	-.01078	.01019
#2	.03551	.00525	.00226	.00782	.00143

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Method: SOW40 Sample Name: 8556 Operator: SJ
Run Time: 08/08/96 13:29:01
Comment: MCSB73
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00125	-.00297	.02256	.00491	.00205	1.9152	.00221
SDev	.00379	.01017	.00028	.00092	.00366	.0119	.00157
%RSD	303.12	341.86	1.2307	18.648	178.79	.61944	70.773
#1	-.00143	.00421	.02275	.00426	-.00054	1.9068	.00111
#2	.00393	-.01016	.02236	.00556	.00463	1.9236	.00332

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01907	-.00012	.00002	22.717	.00075	-.00038	.05484
SDev	.00002	.00000	.00006	.013	.00022	.00054	.00006
%RSD	.12621	.03156	294.60	.05752	28.875	141.35	.11418
#1	.01909	-.00012	-.00002	22.707	.00091	-.00076	.05480
#2	.01905	-.00012	.00007	22.726	.00060	-.00000	.05489

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00926	.00118	4.6332	.00010	.00006	4.7586	.00012
SDev	.00198	.00007	.0008	.00007	.00016	.0192	.00003
%RSD	21.422	5.8401	.01785	70.711	280.85	.40297	28.357
#1	.00786	.00123	4.6326	.00005	-.00006	4.7450	.00014
#2	.01067	.00113	4.6338	.00014	.00017	4.7721	.00010

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03854	.02030	.02366	.00471	.00500
SDev	.00099	.00237	.00075	.01361	.00532
%RSD	2.5671	11.672	3.1818	288.59	106.46
#1	.03784	.02198	.02313	-.00491	.00876
#2	.03924	.01863	.02420	.01434	.00124

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Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 08/08/96 13:40:28
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02178	.01968	.00721	.01431	.13706	.03246	-.00984
SDev	.00152	.00397	.00049	.00075	.00425	.00567	.00067
%RSD	6.9580	20.158	6.8071	5.2660	3.1004	17.479	6.8314
#1	.02071	.01688	.00756	.01377	.13406	.03647	-.00937
#2	.02285	.02249	.00687	.01484	.14007	.02845	-.01032

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00004	.01140	.01205	.03374	.02204	.11034	.05652
SDev	.00000	.00006	.00002	.00182	.00028	.00036	.00006
%RSD	.00000	.54733	.17802	5.4046	1.2847	.32446	.11084
#1	.00004	.01144	.01203	.03503	.02224	.11009	.05657
#2	.00004	.01135	.01206	.03245	.02184	.11059	.05648

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00215	.03338	.01143	.09006	.02380	.03390	.11216
SDev	.00231	.00005	.00207	.00016	.00012	.00213	.00010
%RSD	107.55	.15456	18.105	.17703	.49702	6.2854	.09032
#1	.00378	.03334	.00997	.08995	.02372	.03540	.11209
#2	.00051	.03341	.01290	.09018	.02389	.03239	.11224

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.04940	.00696	.00734	.01634	.01330
SDev	.00000	.00108	.00020	.00393	.00306
%RSD	.00044	15.476	2.7584	24.020	22.986
#1	.04940	.00772	.00748	.01912	.01114
#2	.04940	.00620	.00720	.01357	.01547

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Method: SOW40 Sample Name: ICSA194 Operator: SJ
Run Time: 08/08/96 13:43:21
Comment: ICS-A4
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00698	-.00971	-.00147	-.00453	-.00137	.04632	454.54
SDev	.00126	.00372	.00152	.00470	.00411	.00361	2.99
%RSD	18.099	38.281	103.48	103.86	299.36	7.7949	.65702
#1	-.00787	-.00708	-.00039	-.00120	-.00428	.04887	452.43
#2	-.00608	-.01234	-.00254	-.00785	.00153	.04377	456.65

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00270	-.00013	.00417	442.71	.03466	-.00001	.00864
SDev	.00000	.00001	.00027	2.63	.00017	.00000	.00004
%RSD	.00000	9.3613	6.5540	.59495	.50290	.50291	.46811
#1	.00270	-.00014	.00398	440.84	.03453	-.00001	.00867
#2	.00270	-.00012	.00436	444.57	.03478	-.00001	.00861

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	164.31	.04785	438.47	.01156	-.00048	.14011	-.00084
SDev	.73	.00030	2.38	.00016	.00004	.00106	.00015
%RSD	.44655	.61988	.54366	1.3788	8.2560	.76033	18.492
#1	163.79	.04764	436.78	.01145	-.00051	.13936	-.00095
#2	164.82	.04806	440.15	.01168	-.00046	.14087	-.00073

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.01009	-.01589	.00564	-.01429	.00028
SDev	.00163	.00319	.00070	.01987	.00277
%RSD	16.211	20.047	12.426	139.10	982.10
#1	.00893	-.01364	.00613	-.00023	-.00168
#2	.01124	-.01815	.00514	-.02834	.00224

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Analysis Report QC Standard Thu 08-08-96 01:50:56 PM page 1

Method: SOW40 Sample Name: ICSAB596 Operator: SJ
Run Time: 08/08/96 13:48:00
Comment: ICS-AB4
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08616	.09606	.04239	.03960	.53785	.05617	473.89
SDev	.00634	.00104	.00270	.00392	.00317	.01032	.38
%RSD	7.3635	1.0878	6.3774	9.8954	.58985	18.366	.07971
#1	.09065	.09680	.04048	.04238	.54009	.06346	473.62
#2	.08168	.09532	.04430	.03683	.53560	.04887	474.15

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46611	.43554	.84357	466.52	.44831	.40544	.46148
SDev	.00060	.00046	.00082	1.28	.00031	.00000	.00103
%RSD	.12934	.10608	.09769	.27398	.06915	.00003	.22438
#1	.46569	.43587	.84415	467.43	.44853	.40544	.46075
#2	.46654	.43521	.84299	465.62	.44809	.40544	.46221

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	172.61	.47774	460.71	.78056	.17972	.15141	.44239
SDev	.31	.00052	.99	.00140	.00019	.00213	.00031
%RSD	.18025	.10936	.21469	.17982	.10848	1.4072	.07040
#1	172.83	.47811	461.41	.78155	.17986	.15292	.44217
#2	172.39	.47737	460.01	.77956	.17958	.14991	.44261

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.83548	.02445	.05122	.05084	.03407
SDev	.00092	.00461	.00176	.03382	.01081
%RSD	.10991	18.860	3.4425	66.524	31.730
#1	.83613	.02119	.04998	.07476	.02642
#2	.83483	.02771	.05247	.02693	.04171

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Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 13:51:36
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51881	.19749	.49670	.20894	.51505	48.258	24.391
SDev	.00406	.00346	.00046	.00155	.00155	.862	.146
%RSD	.78256	1.7536	.09231	.74222	.30155	1.7861	.59908
#1	.51594	.19994	.49702	.21004	.51395	47.648	24.288
#2	.52168	.19504	.49637	.20784	.51615	48.867	24.495

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49940	.10237	.50517	23.516	.49209	.48735	.47919
SDev	.00159	.00017	.00143	.038	.00151	.00018	.00215
%RSD	.31780	.16984	.28217	.16283	.30640	.03782	.44902
#1	.49827	.10224	.50416	23.489	.49102	.48722	.47767
#2	.50052	.10249	.50618	23.543	.49315	.48748	.48071

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.7296	.49459	23.670	.48455	.93722	26.045	.49752
SDev	.0209	.00151	.070	.00235	.00409	.224	.00071
%RSD	.21518	.30561	.29729	.48437	.43627	.85896	.14323
#1	9.7148	.49352	23.620	.48289	.93433	25.887	.49701
#2	9.7444	.49566	23.720	.48621	.94011	26.203	.49802

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.51113	.48839	.50079	.23779	.19473
SDev	.00129	.00072	.00104	.00382	.00043
%RSD	.25192	.14690	.20721	1.6076	.22174
#1	.51022	.48788	.50152	.24049	.19504
#2	.51204	.48889	.50006	.23509	.19443

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Method: SOW40 Sample Name: CCB7 Operator: SJ
Run Time: 08/08/96 13:54:03
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00413	-.00280	.00078	.00089	.00107	.03465	.02594
SDev	.00228	.00397	.00020	.00198	.00130	.01909	.00962
%RSD	55.335	141.44	26.245	223.08	121.78	55.080	37.084
#1	-.00251	-.00561	.00093	-.00051	.00015	.04814	.03275
#2	-.00574	.00000	.00064	.00229	.00199	.02115	.01914

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	-.00007	.00048	.04491	.00017	.00039	.00061
SDev	.00015	.00002	.00032	.01094	.00040	.00018	.00031
%RSD	51.426	34.780	65.205	24.360	230.94	47.114	50.533
#1	.00039	-.00005	.00071	.05265	.00046	.00052	.00083
#2	.00018	-.00009	.00026	.03718	-.00011	.00026	.00039

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01456	.00027	.04595	-.00018	.00031	.00226	.00062
SDev	.01257	.00014	.01324	.00009	.00083	.00426	.00014
%RSD	86.341	51.394	28.826	51.426	267.78	188.56	21.729
#1	.02346	.00037	.05531	-.00011	.00089	.00527	.00072
#2	.00567	.00017	.03658	-.00024	-.00028	-.00075	.00053

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00046	-.00018	.00125	-.01157	.00702
SDev	.00043	.00099	.00018	.00560	.00571
%RSD	93.505	544.45	14.555	48.450	81.387
#1	-.00016	.00052	.00113	-.00760	.00298
#2	-.00076	-.00088	.00138	-.01553	.01106

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Method: SOW40 Sample Name: 8557 Operator: SJ
Run Time: 08/08/96 13:59:46
Comment: MCSB74
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00305	.00036	.00284	-.00056	-.00019	1.8339	-.00238
SDev	.00025	.00496	.00000	.00596	.00006	.0186	.00045
%RSD	8.3156	1393.8	.13014	1060.2	29.188	1.0126	18.758
#1	-.00323	-.00315	.00284	.00365	-.00015	1.8470	-.00206
#2	-.00287	.00386	.00284	-.00478	-.00023	1.8208	-.00269

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01904	-.00006	.00012	22.276	.00027	.00026	.05549
SDev	.00007	.00001	.00001	.041	.00027	.00000	.00000
%RSD	.38763	20.455	9.1549	.18554	99.856	.03289	.00021
#1	.01899	-.00007	.00011	22.247	.00008	.00026	.05549
#2	.01910	-.00005	.00013	22.305	.00045	.00026	.05549

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00358	.00089	4.5191	-.00046	.00017	4.5672	.00017
SDev	.00395	.00002	.0083	.00053	.00000	.0234	.00017
%RSD	110.33	1.9577	.18316	116.17	.45092	.51316	100.93
#1	-.00079	.00091	4.5132	-.00083	.00017	4.5838	.00029
#2	-.00637	.00088	4.5249	-.00008	.00017	4.5507	.00005

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02841	.00255	.00298	-.01025	.00421
SDev	.00022	.00039	.00018	.01168	.00315
%RSD	.76101	15.161	6.1998	113.94	74.799
#1	.02857	.00282	.00285	-.00199	.00644
#2	.02826	.00228	.00311	-.01851	.00198

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Method: SOW40 Sample Name: 8558 Operator: SJ
Run Time: 08/08/96 14:03:00
Comment: MCSB74 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	-.00210	.00203	-.00108	.00160	1.8496	-.00776
SDev	.00508	.00050	.00087	.00077	.00097	.0088	.00000
%RSD	471.35	23.636	43.076	71.065	60.740	.47410	.00001
#1	.00251	-.00245	.00141	-.00054	.00229	1.8558	-.00776
#2	-.00467	-.00175	.00265	-.00162	.00091	1.8434	-.00776

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01911	-.00008	.00030	22.334	.00039	-.00000	.05576
SDev	.00003	.00001	.00014	.003	.00000	.00000	.00012
%RSD	.12874	15.637	46.000	.01496	.00331	.00331	.22063
#1	.01913	-.00009	.00040	22.332	.00039	-.00000	.05584
#2	.01910	-.00007	.00020	22.337	.00039	-.00000	.05567

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00951	.00091	4.5243	-.00041	-.00014	4.5695	.00034
SDev	.00328	.00003	.0124	.00028	.00012	.0032	.00000
%RSD	34.467	3.8872	.27441	67.882	85.685	.06994	.01845
#1	.01183	.00088	4.5156	-.00021	-.00022	4.5672	.00034
#2	.00719	.00093	4.5331	-.00060	-.00005	4.5718	.00034

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02963	.00075	.00266	-.00728	.00197
SDev	.00065	.00102	.00080	.00280	.00253
%RSD	2.1839	136.92	30.104	38.519	128.21
#1	.03009	.00002	.00209	-.00926	.00376
#2	.02917	.00147	.00323	-.00530	.00018

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Method: SOW40 Sample Name: 8559 Operator: SJ
Run Time: 08/08/96 14:06:29
Comment: MCSB74 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05286	.05512	.02429	.00775	.56750	1.7981	1.9702
SDev	.00838	.00000	.00160	.00044	.00189	.0021	.0002
%RSD	15.842	.00359	6.5796	5.6140	.33308	.11474	.01160
#1	.04694	.05512	.02542	.00744	.56617	1.7996	1.9703
#2	.05879	.05512	.02316	.00806	.56884	1.7967	1.9700

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1760	.05361	.05514	21.547	.21518	.53644	.31236
SDev	.0000	.00006	.00002	.004	.00013	.00074	.00025
%RSD	.00113	.11549	.03842	.01693	.06201	.13779	.07870
#1	2.1760	.05357	.05516	21.550	.21509	.53697	.31253
#2	2.1759	.05365	.05513	21.545	.21528	.53592	.31219

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0685	.54496	4.3793	.53528	.05418	4.4475	.53876
SDev	.0003	.00023	.0029	.00014	.00036	.0117	.00041
%RSD	.03096	.04194	.06610	.02579	.65600	.26349	.07562
#1	1.0683	.54512	4.3773	.53538	.05393	4.4557	.53847
#2	1.0687	.54479	4.3814	.53518	.05443	4.4392	.53904

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.59640	.02282	.02501	-.00539	.01422
SDev	.00259	.00232	.00124	.00561	.00341
%RSD	.43364	10.179	4.9626	103.97	23.978
#1	.59823	.02446	.02589	-.00143	.01181
#2	.59457	.02117	.02413	-.00936	.01664

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Method: SOW40 Sample Name: 8557LX5 Operator: SJ
Run Time: 08/08/96 14:16:51
Comment: MCSB74LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00108	-.00158	.00096	-.00121	-.00123	.39641	.02974
SDev	.00609	.00372	.00114	.00176	.00043	.00147	.00201
%RSD	565.63	235.84	118.70	145.43	35.259	.37082	6.7646
#1	.00323	.00105	.00016	-.00246	-.00092	.39537	.03117
#2	-.00538	-.00421	.00177	.00003	-.00153	.39744	.02832

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00452	-.00006	.00011	4.5186	.00030	-.00000	.01134
SDev	.00020	.00004	.00000	.0052	.00004	.00000	.00000
%RSD	4.3598	59.837	.15286	.11432	14.922	14.920	.00044
#1	.00465	-.00004	.00011	4.5223	.00033	-.00000	.01134
#2	.00438	-.00009	.00011	4.5150	.00027	-.00000	.01134

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00074	.00028	.91886	-.00023	-.00011	.90092	.00041
SDev	.00164	.00002	.00373	.00039	.00031	.00309	.00017
%RSD	222.80	6.2160	.40537	171.73	286.74	.34328	41.590
#1	.00042	.00027	.91622	-.00050	-.00033	.89873	.00053
#2	-.00190	.00030	.92149	.00005	.00011	.90311	.00029

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00689	.00035	.00127	-.01256	.00438
SDev	.00011	.00221	.00062	.00047	.00240
%RSD	1.5669	633.66	48.892	3.7242	54.814
#1	.00696	-.00121	.00083	-.01289	.00268
#2	.00681	.00191	.00171	-.01223	.00607

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Method: SOW40 Sample Name: 8579 Operator: SJ
Run Time: 08/08/96 14:23:01
Comment: MFGY81
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07789	-.00080	.48185	-.00286	.00454	43.990	50.027
SDev	.00533	.00269	.00097	.00150	.00264	.132	.116
%RSD	6.8426	335.33	.20064	52.501	58.162	.29901	.23172
#1	.07412	.00110	.48117	-.00393	.00640	44.083	50.109
#2	.08166	-.00271	.48254	-.00180	.00267	43.897	49.945

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.442	.01903	.01870	308.38	.50693	.10202	.13395
SDev	.024	.00001	.00018	.20	.00011	.00037	.00018
%RSD	.08136	.06622	.98364	.06464	.02146	.36231	.13174
#1	29.459	.01904	.01883	308.52	.50685	.10228	.13382
#2	29.425	.01902	.01857	308.24	.50701	.10176	.13407

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	206.01	7.8133	84.709	.43073	.00036	H191.63	.24768
SDev	.26	.0057	.012	.00018	.00023	.26	.00011
%RSD	.12825	.07343	.01423	.04274	66.264	.13398	.04315
#1	206.19	7.8093	84.700	.43060	.00019	H191.81	.24761
#2	205.82	7.8174	84.717	.43086	.00052	H191.45	.24776

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	3.2875	.47511	.48517	-.02971	.01036
SDev	.0038	.00156	.00067	.00698	.00568
%RSD	.11469	.32857	.13893	23.480	54.818
#1	3.2848	.47401	.48470	-.02478	.00634
#2	3.2901	.47622	.48565	-.03464	.01438

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Method: SOW40 Sample Name: 8580 Operator: SJ
Run Time: 08/08/96 14:26:04
Comment: MFGY81 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07412	-.00338	.47843	-.00367	.00519	44.028	49.887
SDev	.00761	.00966	.00303	.00131	.00194	.182	.150
%RSD	10.273	285.72	.63388	35.791	37.420	.41239	.30006
#1	.07950	-.01021	.47628	-.00460	.00382	43.899	49.782
#2	.06874	.00345	.48057	-.00274	.00656	44.156	49.993

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.306	.01895	.01876	304.24	.50267	.10110	.13345
SDev	.112	.00010	.00006	1.93	.00238	.00129	.00083
%RSD	.38107	.51695	.32326	.63557	.47377	1.2786	.61977
#1	29.227	.01888	.01872	302.88	.50098	.10019	.13287
#2	29.385	.01902	.01881	305.61	.50435	.10202	.13404

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	203.99	7.7639	84.155	.42754	-.00039	H191.60	.24635
SDev	.94	.0391	.427	.00166	.00051	.04	.00161
%RSD	.45960	.50423	.50744	.38750	130.19	.02112	.65434
#1	203.33	7.7362	83.853	.42637	-.00075	H191.62	.24521
#2	204.66	7.7916	84.457	.42871	-.00003	H191.57	.24749

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	3.2579	.47296	.48112	-.01883	.00380
SDev	.0199	.00075	.00416	.00484	.00434
%RSD	.61108	.15871	.86395	25.684	114.42
#1	3.2439	.47243	.47818	-.01541	.00072
#2	3.2720	.47349	.48406	-.02225	.00687

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Method: SOW40 Sample Name: 8581 Operator: SJ
Run Time: 08/08/96 14:29:03
Comment: MFGY81 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11228	.04514	.47889	.00948	.51307	42.407	50.083
SDev	.00482	.00024	.00434	.00154	.00315	.073	.128
%RSD	4.2957	.53166	.90571	16.205	.61502	.17151	.25550
#1	.11570	.04497	.47582	.00839	.51530	42.355	49.993
#2	.10887	.04531	.48196	.01056	.51084	42.458	50.174

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.112	.06575	.06369	294.20	.67183	.55158	.37960
SDev	.123	.00038	.00049	1.80	.00413	.00351	.00108
%RSD	.40912	.58174	.76161	.61131	.61538	.63628	.28334
#1	30.025	.06548	.06334	292.93	.66891	.54910	.37884
#2	30.199	.06602	.06403	295.47	.67476	.55407	.38036

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	198.39	7.9567	81.083	.85639	.04678	H187.40	.72128
SDev	1.03	.0405	.369	.00373	.00040	.30	.00371
%RSD	.51696	.50857	.45471	.43527	.86138	.16032	.51510
#1	197.66	7.9280	80.822	.85376	.04650	H187.18	.71865
#2	199.11	7.9853	81.344	.85903	.04707	H187.61	.72391

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	3.5905	.47351	.48154	-.01278	.02044
SDev	.0196	.00112	.00592	.00473	.00004
%RSD	.54552	.23610	1.2300	36.988	.17597
#1	3.5766	.47272	.47735	-.01612	.02047
#2	3.6043	.47430	.48573	-.00944	.02042

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Method: SOW40 Sample Name: 8579LX5 Operator: SJ
Run Time: 08/08/96 14:33:26
Comment: MFGY81LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01217	-.00319	.09923	.00072	.00386	8.7130	9.3005
SDev	.00304	.00474	.00077	.00540	.00329	.0230	.0235
%RSD	25.027	148.47	.77180	745.96	85.306	.26434	.25260
#1	.01432	-.00654	.09868	-.00310	.00153	8.6967	9.2839
#2	.01001	.00016	.09977	.00454	.00619	8.7293	9.3171

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.1795	.00374	.00379	58.103	.10058	.02061	.02579
SDev	.0121	.00000	.00003	.181	.00029	.00037	.00037
%RSD	.19531	.01039	.72864	.31068	.28810	1.7934	1.4461
#1	6.1710	.00374	.00377	57.975	.10078	.02035	.02553
#2	6.1880	.00374	.00381	58.231	.10037	.02087	.02606

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	41.271	1.5943	16.550	.08887	-.00037	52.362	.04853
SDev	.141	.0048	.064	.00034	.00023	.049	.00034
%RSD	.34124	.29987	.38536	.38838	63.184	.09358	.69410
#1	41.171	1.5909	16.505	.08862	-.00021	52.328	.04829
#2	41.370	1.5977	16.595	.08911	-.00054	52.397	.04877

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.68383	.09941	.09913	-.02224	.01203
SDev	.00194	.00097	.00162	.00675	.00474
%RSD	.28318	.97532	1.6347	30.359	39.377
#1	.68246	.10010	.09799	-.02701	.00868
#2	.68520	.09873	.10028	-.01746	.01538

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Method: SOW40 Sample Name: 8577 Operator: SJ
Run Time: 08/08/96 14:37:10
Comment: MFGW06
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00090	-.00788	.01260	.00336	-.00251	.02583	-.01314
SDev	.00076	.00174	.00041	.00273	.00027	.00154	.00089
%RSD	84.911	22.042	3.2812	81.273	10.771	5.9773	6.8115
#1	.00144	-.00665	.01231	.00530	-.00270	.02692	-.01250
#2	.00036	-.00910	.01290	.00143	-.00232	.02474	-.01377

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00320	-.00004	.00016	.19232	.00171	.00039	.00057
SDev	.00009	.00000	.00004	.00061	.00004	.00018	.00012
%RSD	2.6901	.10967	25.463	.31602	2.5960	47.211	21.430
#1	.00326	-.00004	.00019	.19275	.00168	.00052	.00049
#2	.00314	-.00004	.00013	.19189	.00174	.00026	.00066

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.23945	.00233	.03514	.00142	-.00022	.10697	.00016
SDev	.01025	.00007	.00538	.00009	.00039	.00320	.00003
%RSD	4.2804	3.0081	15.313	6.5021	177.12	2.9878	20.644
#1	.24670	.00238	.03894	.00148	.00006	.10471	.00019
#2	.23221	.00228	.03133	.00135	-.00050	.10923	.00014

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02689	.01265	.01258	-.00582	.00789
SDev	.00011	.00120	.00003	.00070	.00443
%RSD	.39984	9.4819	.20893	12.064	56.116
#1	.02697	.01181	.01256	-.00632	.01102
#2	.02682	.01350	.01260	-.00532	.00476

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Method: SOW40 Sample Name: 8578 Operator: SJ
Run Time: 08/08/96 14:40:26
Comment: MFGY41
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00162	-.00297	.00070	.00203	-.00090	.01892	-.01282
SDev	.00228	.00174	.00014	.00386	.00135	.00085	.00089
%RSD	141.37	58.380	19.883	190.18	151.05	4.4713	6.9531
#1	-.00323	-.00175	.00080	.00477	.00006	.01832	-.01345
#2	-.00000	-.00420	.00060	-.00070	-.00185	.01951	-.01219

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00221	.00000	.00007	.15751	.00139	-.00000	.00000
SDev	.00001	.00003	.00000	.00000	.00022	.00000	.00006
%RSD	.55678	1013400.	.97222	.00000	15.913	15.912	1895.7
#1	.00222	-.00002	.00007	.15751	.00124	-.00000	-.00004
#2	.00220	.00002	.00007	.15751	.00155	-.00000	.00005

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10840	.00122	.01874	.00065	-.00044	.04746	-.00000
SDev	.00660	.00003	.00124	.00002	.00039	.00000	.00034
%RSD	6.0873	2.8801	6.6234	3.5355	88.009	.00000	16565.
#1	.10374	.00119	.01962	.00063	-.00017	.04746	-.00024
#2	.11307	.00124	.01786	.00067	-.00072	.04746	.00024

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02004	.00029	.00090	-.00646	.00622
SDev	.00032	.00159	.00057	.00444	.00796
%RSD	1.6143	554.96	63.801	68.666	127.96
#1	.02026	.00141	.00049	-.00960	.01184
#2	.01981	-.00084	.00131	-.00332	.00059

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Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 14:43:09
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50410	.20041	.48295	.19361	.50491	48.277	23.416
SDev	.00051	.01711	.00311	.00412	.00390	.200	.095
%RSD	.10078	8.5391	.64489	2.1264	.77292	.41413	.40421
#1	.50446	.18831	.48074	.19652	.50767	48.136	23.349
#2	.50374	.21251	.48515	.19070	.50215	48.419	23.482

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48954	.09997	.49057	22.633	.47706	.47063	.47175
SDev	.00118	.00024	.00192	.067	.00133	.00129	.00172
%RSD	.24127	.23564	.39177	.29405	.27898	.27475	.36494
#1	.48871	.09981	.48921	22.586	.47612	.46972	.47054
#2	.49038	.10014	.49193	22.680	.47800	.47155	.47297

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.4507	.48036	22.853	.47205	.90947	25.439	.48626
SDev	.0269	.00125	.072	.00023	.00327	.129	.00129
%RSD	.28442	.25975	.31514	.04874	.35916	.50672	.26522
#1	9.4317	.47948	22.802	.47189	.90716	25.348	.48535
#2	9.4697	.48124	22.904	.47222	.91178	25.530	.48717

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.49793	.47668	.48603	.18782	.19646
SDev	.00086	.00449	.00244	.00046	.00637
%RSD	.17206	.94102	.50184	.24295	3.2421
#1	.49732	.47351	.48431	.18750	.20096
#2	.49854	.47985	.48776	.18814	.19196

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Method: SOW40 Sample Name: CCB8 Operator: SJ
Run Time: 08/08/96 14:46:09
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00108	-.00105	.00020	-.00018	.00214	.00283	-.01282
SDev	.00000	.00397	.00061	.00024	.00227	.00023	.00179
%RSD	.00714	377.05	300.61	135.12	105.99	8.3081	13.979
#1	.00108	-.00386	-.00023	-.00034	.00375	.00266	-.01155
#2	.00108	.00175	.00063	-.00001	.00054	.00299	-.01409

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00009	-.00003	.00017	-.00086	-.00030	.00000	-.00022
SDev	.00004	.00001	.00006	.00091	.00022	.00037	.00000
%RSD	42.426	46.451	37.029	106.07	74.479	384010.	.07747
#1	.00011	-.00004	.00013	-.00021	-.00045	.00026	-.00022
#2	.00006	-.00002	.00022	-.00150	-.00014	-.00026	-.00022

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00910	-.00002	.00468	-.00076	-.00050	-.00452	.00005
SDev	.00562	.00000	.00041	.00009	.00055	.00107	.00014
%RSD	61.743	.39195	8.8393	12.036	110.16	23.570	282.05
#1	-.00513	-.00002	.00497	-.00070	-.00089	-.00377	-.00005
#2	-.01307	-.00002	.00439	-.00083	-.00011	-.00527	.00014

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00015	-.00088	.00073	-.00528	.00234
SDev	.00022	.00153	.00015	.00187	.00127
%RSD	141.36	174.94	20.297	35.357	54.453
#1	-.00030	-.00196	.00063	-.00396	.00144
#2	-.00000	.00021	.00084	-.00660	.00324

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Method: SOW40 Sample Name: 8582 Operator: SJ
Run Time: 08/08/96 14:50:17
Comment: MFGY82
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00108	.00017	.00211	-.00285	.00097	.01062	-.01488
SDev	.00051	.00074	.00126	.00162	.00076	.02468	.00067
%RSD	47.159	425.25	59.805	56.759	77.994	232.34	4.5251
#1	.00072	-.00035	.00300	-.00400	.00151	-.00683	-.01440
#2	.00143	.00070	.00122	-.00171	.00044	.02807	-.01536

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00016	.00001	.00013	.02493	.00210	.00026	.00017
SDev	.00004	.00001	.00009	.00030	.00042	.00000	.00018
%RSD	23.570	148.02	67.138	1.2192	20.054	.05224	105.89
#1	.00013	-.00000	.00007	.02471	.00180	.00026	.00004
#2	.00018	.00002	.00019	.02514	.00240	.00026	.00030

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00816	.00015	.00059	.00065	-.00008	.03766	.00046
SDev	.00165	.00011	.00124	.00012	.00012	.00533	.00017
%RSD	20.233	70.787	211.80	17.678	144.01	14.142	37.236
#1	.00933	.00007	-.00029	.00057	.00000	.03390	.00034
#2	.00700	.00022	.00147	.00073	-.00016	.04143	.00058

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02453	.00201	.00216	-.01355	.00242
SDev	.00086	.00109	.00134	.00561	.00518
%RSD	3.5117	54.355	62.309	41.368	214.16
#1	.02392	.00279	.00311	-.00959	-.00124
#2	.02514	.00124	.00121	-.01752	.00608

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Method: SOW40 Sample Name: 8583 Operator: SJ
Run Time: 08/08/96 14:58:46
Comment: MFGY83
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02626	.00558	.12712	.00157	.00140	26.437	16.907
SDev	.00127	.00206	.00175	.00497	.00077	.141	.026
%RSD	4.8339	36.963	1.3785	315.83	55.300	.53278	.15360
#1	.02716	.00412	.12588	.00509	.00194	26.537	16.925
#2	.02536	.00704	.12835	-.00194	.00085	26.337	16.888

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2924	.00396	.00409	193.80	.34274	.05568	.05876
SDev	.0023	.00004	.00021	1.01	.00146	.00018	.00013
%RSD	.10089	.92300	5.1634	.52235	.42569	.33271	.21441
#1	2.2940	.00394	.00394	193.08	.34171	.05581	.05867
#2	2.2908	.00399	.00424	194.51	.34377	.05555	.05885

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.984	6.4830	105.98	.15595	-.00009	H157.38	.07568
SDev	.102	.0135	.21	.00037	.00094	.96	.00075
%RSD	.21354	.20749	.19615	.23608	1067.4	.60720	.98446
#1	47.912	6.4735	105.83	.15569	-.00076	H158.05	.07515
#2	48.056	6.4925	106.12	.15621	.00058	H156.70	.07620

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.62712	.12537	.12798	-.01003	.00729
SDev	.00516	.00115	.00205	.01334	.00085
%RSD	.82274	.91694	1.6013	133.07	11.615
#1	.62347	.12456	.12653	-.00059	.00788
#2	.63077	.12618	.12942	-.01946	.00669

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Method: SOW40 Sample Name: 8598 Operator: SJ
Run Time: 08/08/96 15:02:37
Comment: MFGY66
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00126	.00036	.02115	.00008	.00074	.01002	-.00950
SDev	.00228	.00050	.00030	.00353	.00141	.00626	.00291
%RSD	181.94	139.08	1.4097	4583.5	189.33	62.474	30.651
#1	.00287	.00071	.02094	-.00242	-.00025	.00559	-.00744
#2	-.00036	.00001	.02136	.00257	.00174	.01444	-.01155

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	.00004	.00005	.06833	.00229	-.00013	.00030
SDev	.00011	.00001	.00002	.00760	.00015	.00055	.00012
%RSD	23.570	28.784	43.762	11.118	6.7727	421.84	40.247
#1	.00055	.00005	.00003	.07371	.00240	.00026	.00022
#2	.00039	.00003	.00007	.06296	.00218	-.00052	.00039

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01801	.00133	.01786	.00111	.00020	.15292	.00019
SDev	.00893	.00026	.00414	.00007	.00035	.00426	.00014
%RSD	49.566	19.822	23.181	6.2392	181.56	2.7866	70.924
#1	.02432	.00152	.02079	.00106	-.00006	.15593	.00010
#2	.01170	.00114	.01493	.00116	.00045	.14991	.00029

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02842	.02053	.02145	-.01157	.00582
SDev	.00097	.00043	.00066	.00327	.00366
%RSD	3.4114	2.0922	3.0603	28.269	62.915
#1	.02910	.02083	.02099	-.01389	.00323
#2	.02773	.02023	.02192	-.00926	.00840

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Method: SOW40 Sample Name: 8552 Operator: SJ
Run Time: 08/08/96 15:05:57
Comment: MCSB69
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00449	.00231	.00063	-.00094	.00348	1.4159	-.00776
SDev	.00076	.00273	.00177	.00287	.00140	.0079	.00000
%RSD	16.974	118.27	280.24	304.91	40.368	.55564	.01523
#1	.00502	.00424	-.00062	.00109	.00447	1.4104	-.00776
#2	.00395	.00038	.00188	-.00297	.00249	1.4215	-.00775

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01674	.00010	.00017	51.983	.00233	.00039	.00179
SDev	.00001	.00001	.00002	.100	.00002	.00018	.00000
%RSD	.07350	13.003	12.465	.19292	.95318	47.233	.00437
#1	.01673	.00009	.00015	52.053	.00231	.00052	.00179
#2	.01675	.00011	.00018	51.912	.00234	.00026	.00179

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32925	.06242	11.885	-.00039	-.00015	7.5156	.00016
SDev	.00261	.00028	.017	.00030	.00004	.0128	.00010
%RSD	.79233	.45086	.14627	76.603	26.792	.17010	62.970
#1	.32740	.06262	11.897	-.00060	-.00012	7.5247	.00023
#2	.33109	.06222	11.872	-.00018	-.00018	7.5066	.00009

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.03534	-.00126	.00156	-.00308	.00011
SDev	.00108	.00042	.00243	.01589	.00354
%RSD	3.0510	33.572	155.28	515.71	3171.9
#1	.03458	-.00156	-.00015	.00815	-.00239
#2	.03611	-.00096	.00328	-.01431	.00261

000162

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Analysis Report Thu 08-08-96 03:12:10 PM page 1

Method: SOW40 Sample Name: 8553X10 Operator: SJ
Run Time: 08/08/96 15:10:08
Comment: MCSB70X10 [For Na only]
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00520	-.00543	.00135	.00205	.00218	.02394	-.00269
SDev	.00279	.00074	.00056	.00009	.00049	.00122	.00045
%RSD	53.644	13.697	41.477	4.4604	22.404	5.0800	16.713
#1	-.00718	-.00596	.00174	.00198	.00183	.02480	-.00301
#2	-.00323	-.00491	.00095	.00211	.00252	.02308	-.00237

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00042	.00005	.00015	.04813	-.00002	.00013	.00000
SDev	.00001	.00000	.00010	.00213	.00022	.00018	.00006
%RSD	2.9463	.36971	64.313	4.4194	1404.8	141.47	43504.
#1	.00043	.00005	.00022	.04964	.00014	-.00000	.00004
#2	.00041	.00005	.00008	.04663	-.00017	.00026	-.00004

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00470	.00026	.01376	-.00050	-.00047	13.821	-.00002
SDev	.00660	.00002	.00331	.00005	.00012	.084	.00017
%RSD	140.50	6.6983	24.066	9.1240	24.788	.60891	705.03
#1	.00003	.00025	.01610	-.00047	-.00056	13.881	.00010
#2	.00937	.00027	.01142	-.00054	-.00039	13.762	-.00014

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00289	.00216	.00094	-.00413	.00509
SDev	.00086	.00002	.00082	.00771	.00366
%RSD	29.765	1.0715	87.209	186.60	71.863
#1	.00350	.00218	.00152	-.00958	.00768
#2	.00229	.00215	.00036	.00132	.00251

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Analysis Report Thu 08-08-96 03:22:32 PM page 1

Method: SOW40 Sample Name: 8557 A Operator: SJ
Run Time: 08/08/96 15:20:30
Comment: MCSB74 A
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04848	.00035	.00260	-.00082	.00072	1.8128	-.01220
SDev	.00122	.00592	.00022	.00572	.00263	.0005	.00173
%RSD	2.5071	1670.6	8.4573	700.89	366.86	.02686	14.181
#1	.04934	.00454	.00244	-.00486	-.00114	1.8125	-.01342
#2	.04762	-.00383	.00275	.00323	.00257	1.8132	-.01098

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01826	.00018	.00025	24.198	.00044	-.00026	.05371
SDev	.00010	.00000	.00003	.025	.00002	.00037	.00018
%RSD	.53901	.26760	12.519	.10412	5.1252	141.34	.34293
#1	.01819	.00018	.00028	24.181	.00045	-.00000	.05358
#2	.01833	.00018	.00023	24.216	.00042	-.00052	.05384

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00546	.00081	4.8199	-.00037	.00004	4.6739	-.00000
SDev	.00588	.00000	.0103	.00009	.00019	.0000	.00041
%RSD	107.80	.00719	.21456	24.595	518.39	.00000	3313500.
#1	.00962	.00081	4.8126	-.00044	-.00010	4.6739	.00029
#2	.00130	.00081	4.8272	-.00031	.00017	4.6739	-.00029

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.02753	.00171	.00303	.00773	-.00502
SDev	.00011	.00054	.00059	.00547	.00584
%RSD	.38269	31.345	19.487	70.809	116.23
#1	.02746	.00209	.00262	.00386	-.00915
#2	.02760	.00133	.00345	.01159	-.00089

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Analysis Report Thu 08-08-96 03:36:43 PM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 08/08/96 15:34:47
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01740	.01705	.00762	.01039	.13029	.00451	-.01422
SDev	.00127	.00074	.00004	.00164	.00265	.01203	.00023
%RSD	7.2930	4.3608	.49756	15.765	2.0318	266.88	1.5907
#1	.01650	.01758	.00760	.00923	.13216	-.00400	-.01438
#2	.01830	.01652	.00765	.01155	.12842	.01301	-.01406

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00003	.01101	.01128	.02192	.02103	.10662	.05345
SDev	.00005	.00005	.00006	.00030	.00009	.00074	.00006
%RSD	188.56	.45115	.56457	1.3865	.42243	.69326	.11479
#1	-.00001	.01105	.01133	.02213	.02110	.10714	.05350
#2	.00006	.01098	.01124	.02170	.02097	.10609	.05341

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00990	.03197	.00498	.08589	.02195	.02561	.10712
SDev	.00330	.00000	.00290	.00009	.00028	.00106	.00020
%RSD	33.322	.00013	58.160	.10716	1.2572	4.1595	.19022
#1	.00757	.03197	.00703	.08583	.02214	.02637	.10727
#2	.01224	.03197	.00293	.08596	.02175	.02486	.10698

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.04531	.00669	.00808	.01710	.00709
SDev	.00011	.00003	.00007	.00934	.00216
%RSD	.23726	.45117	.88473	54.643	30.412
#1	.04539	.00672	.00803	.01049	.00861
#2	.04523	.00667	.00813	.02370	.00557

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Analysis Report Thu 08-08-96 03:44:47 PM page 1

Method: SOW40 Sample Name: ICSA194 Operator: SJ
Run Time: 08/08/96 15:42:44
Comment: ICS-A5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00647	-.00283	-.00082	.00240	-.00269	.05647	475.23
SDev	.00457	.00048	.00195	.00034	.00333	.00487	.77
%RSD	70.584	16.949	238.31	13.962	123.89	8.6233	.16272
#1	-.00324	-.00249	.00056	.00264	-.00033	.05302	474.68
#2	-.00970	-.00317	-.00220	.00216	-.00505	.05991	475.77

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00269	.00011	.00290	481.84	.03331	.00064	.00822
SDev	.00003	.00003	.00060	1.21	.00018	.00018	.00019
%RSD	.91535	24.107	20.557	.25109	.53393	28.767	2.3415
#1	.00267	.00009	.00248	480.98	.03344	.00051	.00808
#2	.00271	.00012	.00332	482.70	.03319	.00077	.00835

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	175.33	.04619	472.16	.01150	-.00004	.14993	-.00024
SDev	.27	.00001	.63	.00014	.00035	.00000	.00055
%RSD	.15180	.01001	.13440	1.2002	968.79	.00000	227.68
#1	175.14	.04619	471.71	.01160	-.00028	.14993	.00015
#2	175.52	.04619	472.61	.01141	.00021	.14993	-.00063

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.00554	-.02678	.01197	-.00417	.00564
SDev	.00025	.00272	.00157	.00107	.00103
%RSD	4.4772	10.148	13.127	25.618	18.210
#1	.00571	-.02486	.01308	-.00493	.00636
#2	.00536	-.02870	.01086	-.00341	.00491

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Analysis Report QC Standard Thu 08-08-96 03:53:39 PM page 1

Method: SOW40 Sample Name: ICSAB596 Operator: SJ
Run Time: 08/08/96 15:51:18
Comment: ICS-AB5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09637	.09642	.04014	.04629	.52034	.04648	493.49
SDev	.00252	.01232	.00096	.00074	.00916	.00049	1.14
%RSD	2.6176	12.779	2.3875	1.6005	1.7614	1.0476	.23127
#1	.09815	.10513	.03946	.04682	.52682	.04683	492.69
#2	.09458	.08771	.04081	.04577	.51386	.04614	494.30

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44947	.40959	.79727	505.49	.42221	.37854	.45171
SDev	.00089	.00036	.00114	.11	.00047	.00018	.00129
%RSD	.19708	.08772	.14248	.02209	.11025	.04876	.28667
#1	.44884	.40934	.79807	505.41	.42254	.37867	.45079
#2	.45010	.40985	.79647	505.57	.42188	.37841	.45263

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	182.97	.44978	491.60	.74016	.17060	.14839	.42227
SDev	.14	.00000	.25	.00000	.00008	.00000	.00044
%RSD	.07820	.00061	.05049	.00000	.04491	.00000	.10388
#1	182.87	.44978	491.42	.74016	.17066	.14839	.42196
#2	183.07	.44978	491.77	.74016	.17055	.14839	.42258

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.84490	.01050	.05473	.04381	.04751
SDev	.00078	.00146	.00215	.00805	.00286
%RSD	.09279	13.908	3.9270	18.378	6.0192
#1	.84435	.01153	.05321	.04951	.04549
#2	.84545	.00947	.05625	.03812	.04954

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Analysis Report QC Standard Thu 08-08-96 03:56:19 PM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 08/08/96 15:54:18
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50658	.19758	.47472	.21588	.49586	46.080	25.455
SDev	.00685	.00248	.00352	.00220	.00140	.203	.055
%RSD	1.3518	1.2529	.74250	1.0185	.28160	.43960	.21500
#1	.50174	.19933	.47721	.21744	.49487	46.223	25.493
#2	.51142	.19583	.47223	.21433	.49685	45.936	25.416

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48396	.09710	.47968	25.755	.46531	.45651	.47095
SDev	.00074	.00007	.00005	.052	.00020	.00000	.00117
%RSD	.15254	.07722	.01054	.20111	.04278	.00001	.24809
#1	.48448	.09715	.47972	25.792	.46545	.45651	.47178
#2	.48343	.09705	.47965	25.719	.46517	.45651	.47013

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.346	.46789	25.384	.46216	.90795	26.202	.47688
SDev	.022	.00060	.054	.00166	.00251	.072	.00048
%RSD	.21533	.12762	.21298	.35847	.27603	.27389	.09977
#1	10.362	.46831	25.422	.46333	.90972	26.253	.47655
#2	10.331	.46747	25.346	.46099	.90618	26.151	.47722

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	.49182	.46645	.47880	.21372	.21695
SDev	.00150	.00441	.00309	.00432	.00115
%RSD	.30562	.94522	.64523	2.0234	.53083
#1	.49076	.46957	.48098	.21678	.21776
#2	.49289	.46333	.47661	.21067	.21614

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Analysis Report QC Standard Thu 08-08-96 04:00:30 PM page 1

Method: SOW40 Sample Name: CCB9 Operator: SJ
Run Time: 08/08/96 15:57:06
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	PB	SE	Sb2068	K_7664	Al3082
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00233	.00053	.00133	.00433	.00076	.01549	.02335
SDev	.00381	.00518	.00103	.00005	.00032	.00244	.00666
%RSD	163.28	986.11	77.620	1.0876	42.615	15.714	28.495
#1	.00036	.00419	.00060	.00436	.00053	.01722	.02806
#2	-.00502	-.00314	.00206	.00430	.00099	.01377	.01865

Elem	Ba4934	Be3130	Cd2265	CA3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	.00017	.00045	.04034	.00006	.00039	.00004
SDev	.00004	.00001	.00028	.00490	.00011	.00018	.00012
%RSD	19.285	7.4086	60.409	12.147	176.41	47.134	280.45
#1	.00022	.00018	.00065	.04380	.00014	.00052	.00013
#2	.00017	.00016	.00026	.03687	-.00002	.00026	-.00004

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01314	.00010	.03989	-.00054	.00002	-.00231	.00024
SDev	.00223	.00007	.00893	.00009	.00079	.00217	.00007
%RSD	16.999	70.811	22.393	17.142	3802.3	94.281	28.296
#1	.01472	.00015	.04620	-.00060	.00058	-.00077	.00029
#2	.01156	.00005	.03357	-.00047	-.00054	-.00384	.00019

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.00053	-.00027	.00212	.01676	-.00179
SDev	.00032	.00002	.00155	.00501	.00254
%RSD	60.831	7.0148	73.190	29.926	141.91
#1	-.00030	-.00026	.00102	.01321	.00001
#2	-.00076	-.00028	.00322	.02030	-.00359

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ICAP 61E TRACE ANALYZER LOGBOOK

DATE	RUN ID	PROJECT #:	INIT.	COMMENT
8/6/96	9621901	2264 NJ, 2265NJ, 2194R	MR/	
		2246NJ, 2272C, 2273C	SD	
8/07/96	—	clients	SD	—
8/08/96	9622001	2112R, 2212R, 2187R	SD	
—	—	2217R, 2220R	↓	
				000170

Rev. 12/95

000019
Logbook Page Number: _____

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INSTRUMENT ID # P1

Standardization Rpt. Wed 08-21-96 02:14:51 PM page 1

Standard: STD1-Blank (S0)

Elem	Na5889	Ca3179	Fe2599	Mg2798
Avge	.00250	.00000	.00050	-.00020
SDev	.00014	.00000	.00014	.00085
%RSD	5.6569	.00000	28.284	-424.26
#1	.00260	.00000	.00060	.00040
#2	.00240	.00000	.00040	-.00080

NB| ORIGINAL ICP RAW DATA W| CASE # 24889
P: (171-213) SDG # ME2W68
K 8/22

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STD. PREP. DATE: 08/16/96
LOG BOOK PAGE #27

Standardization Rpt. Wed 08-21-96 02:17:07 PM page 1

Standard: STD3 (S)

Elem	Na5889	Ca3179	Fe2599	Mg2798
Avge	.70160	.65360	1.3625	3.1062
SDev	.00028	.00651	.0018	.0105
%RSD	.04031	.99532	.13494	.33691
#1	.70180	.64900	1.3612	3.0988
#2	.70140	.65820	1.3638	3.1136

000172

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Analysis Report QC Standard Wed 08-21-96 02:21:12 PM page 1

Method: CLP_NA Sample Name: ICV195 Operator: MR
Run Time: 08/21/96 14:19:38
Comment: ICV-1
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	51.652	54.383	2.1395	26.230
SDev	.152	.270	.0332	.059
%RSD	.29373	.49734	1.5530	.22564
#1	51.759	54.575	2.1630	26.272
#2	51.545	54.192	2.1160	26.188

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Analysis Report QC Standard Wed 08-21-96 02:24:02 PM page 1

Method: CLP_NA Sample Name: ICB Operator: MR
Run Time: 08/21/96 14:21:31
Comment: BLANK
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.04291	.24480	.00587	.04346
SDev	.01012	.00000	.00208	.04325
%RSD	23.570	.00000	35.355	99.519
#1	.05006	.24480	.00734	.07404
#2	.03576	.24480	.00441	.01288

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Analysis Report Wed 08-21-96 02:28:30 PM page 1

Method: CLP_NA Sample Name: CRI Operator: MR
Run Time: 08/21/96 14:26:54
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.06437	.24480	-.00147	-.01449
SDev	.00000	.00000	.00415	.02504
%RSD	.00000	.00000	-282.84	-172.85
#1	.06437	.24480	-.00441	.00322
#2	.06437	.24480	.00147	-.03219

"U"175

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Analysis Report Wed 08-21-96 02:30:02 PM page 1

Method: CLP_NA Sample Name: ICSA194 Operator: MR
Run Time: 08/21/96 14:28:52
Comment: ICS-A1
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.13589	533.01	196.52	553.53
SDev	.00000	.60	.94	2.06
%RSD	.00000	.11163	.47869	.37257
#1	.13589	533.43	197.19	554.99
#2	.13589	532.59	195.86	552.08

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Analysis Report QC Standard Wed 08-21-96 02:32:07 PM page 1

Method: CLP_NA Sample Name: ICSAB596 Operator: MR
Run Time: 08/21/96 14:31:06
Comment: ICS-AB1
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.13589	531.33	196.79	553.85
SDev	.00000	.96	.39	1.81
%RSD	.00000	.18122	.19627	.32715
#1	.13589	530.65	197.07	555.13
#2	.13589	532.01	196.52	552.57

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Analysis Report QC Standard Wed 08-21-96 02:34:30 PM page 1

Method: CLP_NA Sample Name: CCV5 Operator: MR
Run Time: 08/21/96 14:33:26
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	24.968	26.086	10.367	24.503
SDev	.061	.195	.064	.002
%RSD	.24306	.74651	.62097	.00903
#1	25.011	25.949	10.322	24.502
#2	24.925	26.224	10.413	24.505

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Analysis Report QC Standard Wed 08-21-96 02:36:29 PM page 1

Method: CLP_NA Sample Name: CCB1 Operator: MR
Run Time: 08/21/96 14:35:07
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.04291	.04590	.01762	.04536
SDev	.01012	.02164	.00623	.00664
%RSD	23.570	47.140	35.355	14.630
#1	.05006	.06120	.02203	.04066
#2	.03576	.03060	.01322	.05005

1104179

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Analysis Report QC Standard Wed 08-21-96 02:38:25 PM page 1

Method: CLP_NA Sample Name: PBW Operator: MR
Run Time: 08/21/96 14:37:12
Comment: EXT.BLANK
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.03576	.03060	.00441	.00782
SDev	.02023	.00000	.00415	.03318
%RSD	56.569	.00000	94.281	424.26
#1	.05006	.03060	.00734	.03128
#2	.02146	.03060	.00147	-.01564

"U"180

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Analysis Report QC Standard Wed 08-21-96 02:40:21 PM page 1

Method: CLP_NA Sample Name: PBW Operator: MR
Run Time: 08/21/96 14:39:06
Comment: EXT.BLANK
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.04291	.03060	.00441	.03128
SDev	.01012	.02164	.00415	.03539
%RSD	23.570	70.711	94.281	113.14
#1	.05006	.04590	.00734	.00626
#2	.03576	.01530	.00147	.05630

"U"181

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8122

Analysis Report QC Standard Wed 08-21-96 02:43:11 PM page 1

Method: CLP_NA Sample Name: LCSW Operator: MR
Run Time: 08/21/96 14:41:16
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	25.890	26.821	1.0661	12.703
SDev	.071	.389	.0062	.071
%RSD	.27347	1.4521	.58438	.55719
#1	25.840	26.545	1.0617	12.753
#2	25.940	27.096	1.0705	12.653

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Analysis Report QC Standard Wed 08-21-96 02:44:38 PM page 1

Method: CLP_NA Sample Name: LCSW Operator: MR
Run Time: 08/21/96 14:43:24
Comment: LCSW
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	26.205	27.333	1.0837	12.739
SDev	.233	.032	.0021	.046
%RSD	.88774	.11875	.19163	.36462
#1	26.370	27.356	1.0852	12.772
#2	26.041	27.310	1.0822	12.706

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8/22

Analysis Report Wed 08-21-96 02:56:13 PM page 1

Method: CLP_NA Sample Name: 8496 Operator: MR
Run Time: 08/21/96 14:54:09
Comment: MEZW68
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	140.48	152.68	.08957	48.449
SDev	.33	.13	.00000	.024
%RSD	.23760	.08503	.00000	.05021
#1	140.24	152.77	.08957	48.431
#2	140.72	152.59	.08957	48.466

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8122

Analysis Report Wed 08-21-96 02:57:52 PM page 1

Method: CLP_NA Sample Name: 8497 Operator: MR
Run Time: 08/21/96 14:56:33
Comment: MEZW68 D
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	140.72	153.14	.09104	48.669
SDev	.08	.41	.00208	.080
%RSD	.05751	.26846	2.2810	.16361
#1	140.77	153.43	.09251	48.725
#2	140.66	152.85	.08957	48.613

000185

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Analysis Report Wed 08-21-96 02:59:33 PM page 1

Method: CLP_NA Sample Name: 8498 Operator: MR
Run Time: 08/21/96 14:58:13
Comment: MEZW68 S
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	139.41	151.95	1.1160	48.253
SDev	.50	1.14	.0145	.150
%RSD	.35551	.74758	1.3026	.31170
#1	139.76	152.75	1.1263	48.359
#2	139.06	151.15	1.1057	48.147

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8/22

Analysis Report Wed 08-21-96 03:02:42 PM page 1

Method: CLP_NA Sample Name: 8496LX5 Operator: MR
Run Time: 08/21/96 15:00:34
Comment: MEZW68LX5
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	26.784	29.169	.01762	9.3434
SDev	.303	.054	.00208	.0310
%RSD	1.1329	.18544	11.785	.33141
#1	26.570	29.131	.01615	9.3215
#2	26.999	29.207	.01909	9.3653

000187

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8/22

Analysis Report Wed 08-21-96 03:04:39 PM page 1

Method: CLP_NA Sample Name: 8499 Operator: MR
Run Time: 08/21/96 15:03:13
Comment: MEZW69
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	190.82	141.00	.13510	38.386
SDev	.91	.66	.01038	.192
%RSD	.47703	.46805	7.6859	.50131
#1	191.47	141.46	.14244	38.522
#2	190.18	140.53	.12775	38.250

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B 8122

Analysis Report Wed 08-21-96 03:06:35 PM page 1

Method: CLP_NA Sample Name: 8500 Operator: MR
Run Time: 08/21/96 15:05:19
Comment: MEZW70
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	76.706	194.71	.05140	60.814
SDev	.303	.01	.00415	.215
%RSD	.39558	.00555	8.0812	.35280
#1	76.491	194.72	.04846	60.662
#2	76.920	194.71	.05433	60.965

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Analysis Report QC Standard Wed 08-21-96 03:08:24 PM page 1

Method: CLP_NA Sample Name: CCV5 Operator: MR
Run Time: 08/21/96 15:07:03
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	25.325	26.958	10.630	24.918
SDev	.303	.216	.162	.336
%RSD	1.1982	.80262	1.5238	1.3492
#1	25.111	26.805	10.515	24.680
#2	25.540	27.111	10.744	25.156

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8822

Analysis Report QC Standard Wed 08-21-96 03:11:06 PM page 1

Method: CLP_NA Sample Name: CCB2 Operator: MR
Run Time: 08/21/96 15:09:05
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.08582	.04590	-.00294	.05161
SDev	.03034	.00000	.00208	.01991
%RSD	35.355	.00000	-70.711	38.569
#1	.10728	.04590	-.00147	.03754
#2	.06437	.04590	-.00441	.06569

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B 8/22

Analysis Report Wed 08-21-96 03:13:06 PM page 1

Method: CLP_NA Sample Name: 8501 Operator: MR
Run Time: 08/21/96 15:11:40
Comment: MEZW71
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	76.248	191.93	.04993	59.398
SDev	.243	.31	.01038	.142
%RSD	.31837	.16347	20.797	.23832
#1	76.076	191.71	.05727	59.298
#2	76.420	192.15	.04258	59.498

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Analysis Report Wed 08-21-96 03:15:28 PM page 1

Method: CLP_NA Sample Name: 8502 Operator: MR
Run Time: 08/21/96 15:13:29
Comment: MEZW72
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.24317	.20655	.01175	.07351
SDev	.01012	.07573	.00208	.04203
%RSD	4.1595	36.665	17.678	57.170
#1	.25032	.26010	.01028	.10323
#2	.23602	.15300	.01322	.04379

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Analysis Report Wed 08-21-96 03:20:39 PM page 1

Method: CLP_NA Sample Name: 8577 Operator: MR
Run Time: 08/21/96 15:18:44
Comment: ~~MFGW06~~ MFGW06
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.17165	.26010	.28928	.07664
SDev	.01012	.00000	.00000	.02433
%RSD	5.8925	.00000	.00000	31.748
#1	.17880	.26010	.28928	.09384
#2	.16450	.26010	.28928	.05943

000194

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Analysis Report Wed 08-21-96 03:22:50 PM page 1

Method: CLP_NA Sample Name: 8578 Operator: MR
Run Time: 08/21/96 15:21:08
Comment: MFGY41
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.16450	.22950	.15272	.06725
SDev	.00000	.00000	.00208	.01991
%RSD	.00000	.00000	1.3598	29.600
#1	.16450	.22950	.15419	.05318
#2	.16450	.22950	.15125	.08133

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8/22

Analysis Report Wed 08-21-96 03:24:40 PM page 1

Method: CLP_NA Sample Name: 8582 Operator: MR
Run Time: 08/21/96 15:23:19
Comment: MFGY82
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.10013	.03825	.01909	.03284
SDev	.01012	.01082	.00000	.00664
%RSD	10.102	28.284	.00000	20.203
#1	.10728	.04590	.01909	.02815
#2	.09298	.03060	.01909	.03754

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Analysis Report Wed 08-21-96 03:28:39 PM page 1

Method: CLP_NA Sample Name: 8598 Operator: MR
Run Time: 08/21/96 15:25:17
Comment: MFGY66
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.15019	.04590	-.00441	.03910
SDev	.00000	.00000	.00000	.00221
%RSD	.00000	.00000	.00000	5.6569
#1	.15019	.04590	-.00441	.04066
#2	.15019	.04590	-.00441	.03754

004197

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B 8/22

Analysis Report Wed 08-21-96 03:45:56 PM page 1

Method: CLP_NA Sample Name: 8583 Operator: MR
Run Time: 08/21/96 15:44:06
Comment: MFGY83
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	246.94	261.31	100.91	143.23
SDev	.81	.11	.50	.56
%RSD	.32768	.04141	.49595	.39380
#1	247.51	261.38	101.26	143.63
#2	246.37	261.23	100.56	142.83

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8/22

Analysis Report Wed 08-21-96 03:49:08 PM page 1

Method: CLP_NA Sample Name: CRI Operator: MR
Run Time: 08/21/96 15:47:42
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.09298	.05355	.00881	.03284
SDev	.00000	.01082	.00208	.01548
%RSD	.00000	20.203	23.570	47.140
#1	.09298	.06120	.00734	.04379
#2	.09298	.04590	.01028	.02190

000199

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8/22

Analysis Report Wed 08-21-96 03:53:41 PM page 1

Method: CLP_NA Sample Name: ICSA194 Operator: MR
Run Time: 08/21/96 15:50:36
Comment: ICS-A2
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.15721	497.75	185.60	540.53
SDev	.00000	1.86	.83	1.32
%RSD	.00000	.37283	.44826	.24397
#1	.15721	496.44	185.01	539.60
#2	.15721	499.06	186.18	541.47

000200

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8122

Analysis Report QC Standard Wed 08-21-96 03:56:34 PM page 1

Method: CLP_NA Sample Name: ICSAB596 Operator: MR
Run Time: 08/21/96 15:55:10
Comment: ICS-AB2
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.15721	496.17	185.43	538.70
SDev	.00000	1.62	.65	1.19
%RSD	.00000	.32750	.35310	.22068
#1	.15721	497.32	185.89	539.54
#2	.15721	495.02	184.96	537.86

004201

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B 8/22

Analysis Report QC Standard Wed 08-21-96 03:58:10 PM page 1

Method: CLP_NA Sample Name: CCV5 Operator: MR
Run Time: 08/21/96 15:57:02
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	24.634	24.884	9.9360	24.744
SDev	.203	.173	.0970	.215
%RSD	.82405	.69551	.97622	.86962
#1	24.778	25.007	10.005	24.896
#2	24.491	24.762	9.8674	24.592

004202

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8722

Analysis Report QC Standard Wed 08-21-96 04:01:26 PM page 1

Method: CLP_NA Sample Name: CCB3 Operator: MR
Run Time: 08/21/96 15:59:14
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.06835	.06799	.01715	.06478
SDev	.00967	.01923	.00373	.02770
%RSD	14.142	28.284	21.757	42.755
#1	.07519	.08159	.01979	.04519
#2	.06152	.05439	.01451	.08436

0001203

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P8122

Wed 08-21-96 04:05:36 PM page 1

Analysis Report

Operator: MR

Method: CLP_NA Sample Name: 8579
Run Time: 08/21/96 16:03:37
Comment: MFGY81
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	281.18	335.18	417.83	147.88
SDev	.14	.81	1.06	.32
%RSD	.04813	.24097	.25358	.21466
#1	281.09	334.61	417.08	147.66
#2	281.28	335.75	418.58	148.11

Wed 08-21-96 04:07:58 PM page

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6/43

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Analysis Report Wed 08-21-96 04:08:59 PM page 1

Method: CLP_NA Sample Name: 8580 Operator: MR
Run Time: 08/21/96 16:06:27
Comment: MFGY81 D
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	281.93	336.65	418.28	148.90
SDev	.28	.84	.01	.19
%RSD	.09944	.24848	.00312	.13020
#1	281.73	336.06	418.29	148.77
#2	282.13	337.24	418.27	149.04

000205

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Analysis Report Wed 08-21-96 04:13:36 PM page 1

Method: CLP_NA Sample Name: 8581 Operator: MR
Run Time: 08/21/96 16:12:12
Comment: MFGY81 S
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	272.78	325.88	407.84	144.98
SDev	.63	.44	1.30	.30
%RSD	.23035	.13572	.31879	.21015
#1	273.23	326.19	408.76	145.19
#2	272.34	325.56	406.92	144.76

000206

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8/22

Analysis Report Wed 08-21-96 04:15:39 PM page 1

Method: CLP_NA Sample Name: 8579LX5 Operator: MR
Run Time: 08/21/96 16:14:16
Comment: MFGY81LX5
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	57.327	71.159	92.920	30.791
SDev	1.083	.942	1.410	.552
%RSD	1.8885	1.3242	1.5177	1.7921
#1	58.093	71.825	93.917	31.181
#2	56.562	70.492	91.922	30.401

0004207

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B822

Analysis Report Wed 08-21-96 04:21:56 PM page 1

Method: CLP_NA Sample Name: CRI Operator: MR
Run Time: 08/21/96 16:18:39
Comment: 2XCRDL
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.10253	.07479	.08705	.06177
SDev	.01933	.00962	.00933	.01917
%RSD	18.856	12.856	10.714	31.044
#1	.11620	.08159	.09365	.04821
#2	.08886	.06799	.08046	.07532

0001208

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#872

Analysis Report Wed 08-21-96 04:24:24 PM page 1

Method: CLP_NA Sample Name: ICSA194 Operator: MR
Run Time: 08/21/96 16:22:50
Comment: ICS-A3
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.15721	473.93	177.05	513.70
SDev	.00000	.64	.79	2.28
%RSD	.00000	.13593	.44882	.44293
#1	.15721	473.47	176.49	512.09
#2	.15721	474.38	177.62	515.31

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Analysis Report QC Standard Wed 08-21-96 04:26:26 PM page 1

Method: CLP_NA Sample Name: ICSAB596 Operator: MR
Run Time: 08/21/96 16:25:04
Comment: ICS-AB3
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.15038	475.92	177.78	516.48
SDev	.00967	.97	.49	1.89
%RSD	6.4282	.20406	.27490	.36671
#1	.15721	476.61	178.13	517.82
#2	.14354	475.24	177.44	515.14

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#8722

Analysis Report QC Standard Wed 08-21-96 04:28:32 PM page 1

Method: CLP_NA Sample Name: CCV5 Operator: MR
Run Time: 08/21/96 16:27:01
Comment: CCV
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	23.889	24.429	9.7646	24.105
SDev	.077	.298	.1530	.075
%RSD	.32371	1.2202	1.5665	.30935
#1	23.835	24.640	9.8727	24.158
#2	23.944	24.218	9.6564	24.052

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Analysis Report QC Standard Wed 08-21-96 04:30:12 PM page 1

Method: CLP_NA Sample Name: CCB4 Operator: MR
Run Time: 08/21/96 16:29:02
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Na5889	Ca3179	Fe2599	Mg2798
Units	ppm	ppm	ppm	ppm
Avge	.06152	.08839	.03429	.09943
SDev	.01933	.02885	.00560	.00000
%RSD	31.427	32.636	16.318	.00000
#1	.04785	.10878	.03825	.09943
#2	.07519	.06799	.03034	.09943

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CHEMTECH
CONSULTING GROUP, INC.

ICAP 9000 LOGBOOK

DATE	RUN ID	PROJECT #:	INIT.	COMMENT
08/21/96	96234 03	2212R, 2220R	S	—

000213

Rev. 12/95

Logbook Page Number: 000006

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INSTRUMENT ID CODE : CV.

2220

MERCURY
Cold Vapor AA

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____

Project No.: 2212R, 2217R, 2220R

Units: PPB (ug/L)
Analyst: _____

Date: 08/09/96
r: 0.9982 x: 0.0220 b: -0.0384

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:
			$SnCl_2$	R0365
			NaCl - Hydroxyl Amine Hydrochloride	R0369

Lab Sample No.	Client Sample No.	Matrix W/S	# Box Smp.	# Box S-Blk	ug Hg 100 mL	ug Hg 1000 mL	Dil. Fact	Final Con. PPB	Time	STD TV
BLK (0.0PPB)	S0		2.0	0.0	<0.02			<0.2	15.33	
Std-1 (0.2PPB)	S0.2		4.5	2.5	0.02			0.2	15.35	
Std-2 (0.5PPB)	S0.5		7.5	5.5	0.05			0.5	15.37	
Std-3 (1.0PPB)	S1.0		9.0	7.0	0.10			1.0	15.39	
Std-4 (5.0PPB)	S5.0		26.5	24.5	0.50			5.0	15.41	
Std-5 (10.0PPB)	S10.0		49.0	47.0	1.00			10.0	15.43	
ICV	(#0791)		25.5	23.5	0.4786			4.786	15.45	
ICB			2.5	0.5	<0.02			<0.2	15.47	
CCV	5.0PPB		26.0	26.0	0.5336			5.336	15.49	
CCB1			2.5	0.5	<0.02			<0.2	15.51	
CRA	0.2PPB		4.5	2.5	0.0166			0.166	15.53	
PBW		W	3.0	1.0	<0.02			<0.2	15.55	
2212R-8496	MEZW68	W	3.0	1.0	<0.02			<0.2	15.57	
8497	MEZW68D	W	3.0	1.0	<0.02			<0.2	15.59	
8498	MEZW68S	W	8.0	6.0	0.0936			0.936	16.01	
8499	MEZW69	W	3.0	1.0	<0.02			<0.2	16.03	

r = Correlation Coefficient
x = Slope
b = Constant
Rev. 12/95

NO ORIGINAL HG. RAW DATA W/ CASE # 24889
SDG # MEZ2068

HU1214

COPY

MERCURY
Cold Vapor AA

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____

Project No.: 2212R, 2217R, 2220R

Units: PPB (ug/L)

Analyst: JB

Date: 08/09/96

r: 0.9982 x: 0.0220 b: -0.0384

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W/S	# Box Smp.	# Box S-Blk	ug Hg 100 mL	ug Hg 1000 mL	Dil. Fact	Final Con. PPB	Time	STD TV
8500	MEZW70	W	3.0	1.0	<0.02			<0.2	16.05	
8501	MEZW71	W	3.0	1.0	<0.02			<0.2	16.07	
8502	MEZW72	W	3.0	1.0	<0.02			<0.2	16.09	
PBW		W	3.0	1.0	<0.02			<0.2	16.11	
ECV	5.0 PPB		26.5	24.5	0.5006			5.006	16.13	
ECB2			2.5	0.5	<0.02			<0.2	16.15	
2217R-8545	MCRT50	W	2.5	0.5	<0.02			<0.2	16.17	
8546	MCRT52	W	3.0	1.0	<0.02			<0.2	16.19	
8547	MCRT54	W	2.5	0.5	<0.02			<0.2	16.21	
8548	MCRT56	W	2.5	0.5	<0.02			<0.2	16.23	
8549	MCSH57	W	3.0	1.0	<0.02			<0.2	16.25	
8550	MCSB67	W	2.5	0.5	<0.02			<0.2	16.27	
8551	MCSB68	W	1.5	0.0	<0.02			<0.2	16.29	
8552	MCSB69	W	3.0	1.0	<0.02			<0.2	16.31	
8553	MCSB70	W	3.0	1.0	<0.02			<0.2	16.33	
8554	MCSB71	W	3.0	1.0	<0.02			<0.2	16.35	

r = Correlation Coefficient
x = Slope
b = Constant
Rev. 12/95

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MERCURY
Cold Vapor AA

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____

Project No.: 2212R, 2217R, 2220R

Units: PPB (ug/L)
Analyst: [illegible]

Date: 08/09/96.
r: 0.9982 x: 0.0220 b: -0.0384

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W/S	# Box Smp.	# Box S-Blk	ug Hg 100 mL	ug Hg 1000 mL	Dil. Fact	Final Con. PPB	Time	STD TV
CCV	5.0 PPB		26.0	24.0	0.4896			4.896	16.37	
CCB3			2.5	0.5	<0.02			<0.2	16.39	
8555	MCSB72	W	2.5	0.5	<0.02			<0.2	16.41	
8556	MCSB73	W	3.0	1.0	<0.02			<0.2	16.43	
8557	MCSB74	W	2.0	0.0	<0.02			<0.2	16.45	
8558	MCSB74D	W	2.5	0.5	<0.02			<0.2	16.47	
8559	MCSB74S	W	8.5	6.5	0.1046			1.046	16.49	
PBW			2.5	0.5	<0.02			<0.2	16.51	
2220R-8547	MFGW06	W	2.5	0.5	<0.02			<0.2	16.53	
8578	MFGY41	W	2.5	0.5	<0.02			<0.2	16.55	
8579	MFGY81	W	2.5	0.5	<0.02			<0.2	16.57	
8580	MFGY81D	W	3.0	1.0	<0.02			<0.2	16.59	
CCV	5.0 PPB		27.0	25.0	0.5116			5.116	17.01	
CCB4			3.0	1.0	<0.02			<0.2	17.03	
8581	MFGY81S	W	8.0	6.0	0.0936			0.936	17.05	
8582	MFGY82	W	2.5	0.5	<0.02			<0.2	17.07	

r = Correlation Coefficient
x = Slope
b = Constant
Rev. 12/95

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MERCURY
Cold Vapor AA

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____

Project No.: 2212R, 2214R, 2220R

Units: PPB (ug/L)

Date: 08/09/96

Analyst: _____

r: 0.9982 x: 0.0220 b: -0.0384

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W / S	# Box Smp.	# Box S-Blk	ug Hg 100 mL	ug Hg 1000 mL	Dil. Fact	Final Con. PPB	Time	STD TV
8583	MFG483	W	3.0	1.0	<0.02			<0.2	17.09	
8598	MFG466	W	3.0	1.0	<0.02			<0.2	17.11	
		W	2.5	0.5	<0.02			<0.2	17.13	
ccv	5.0 PPB		26.5	24.5	0.5006			5.006	17.15	
ccb5			2.0	0.0	<0.02			<0.2	17.17	

8/9/96

r = Correlation Coefficient
x = Slope
b = Constant
Rev. 12/95

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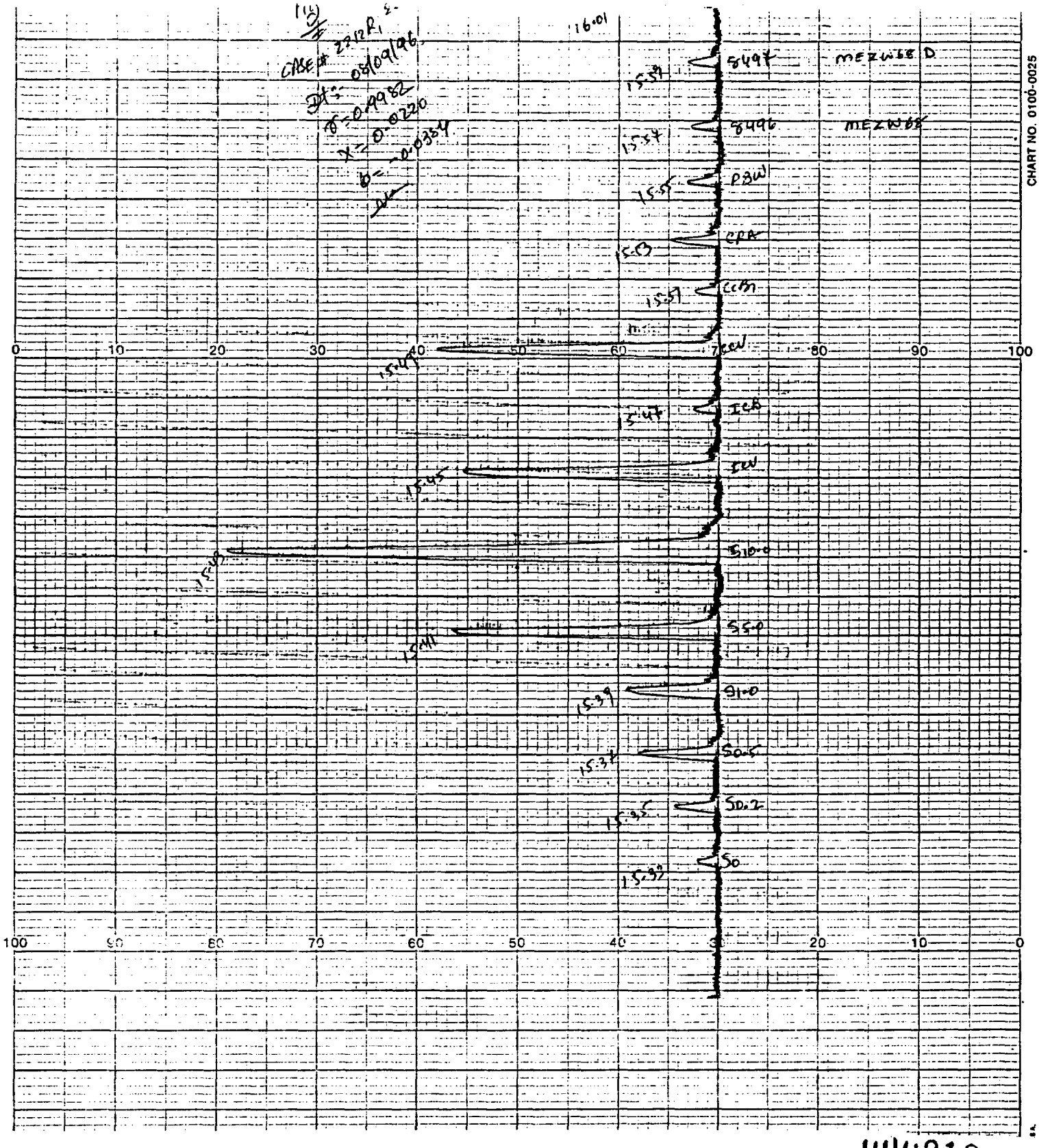

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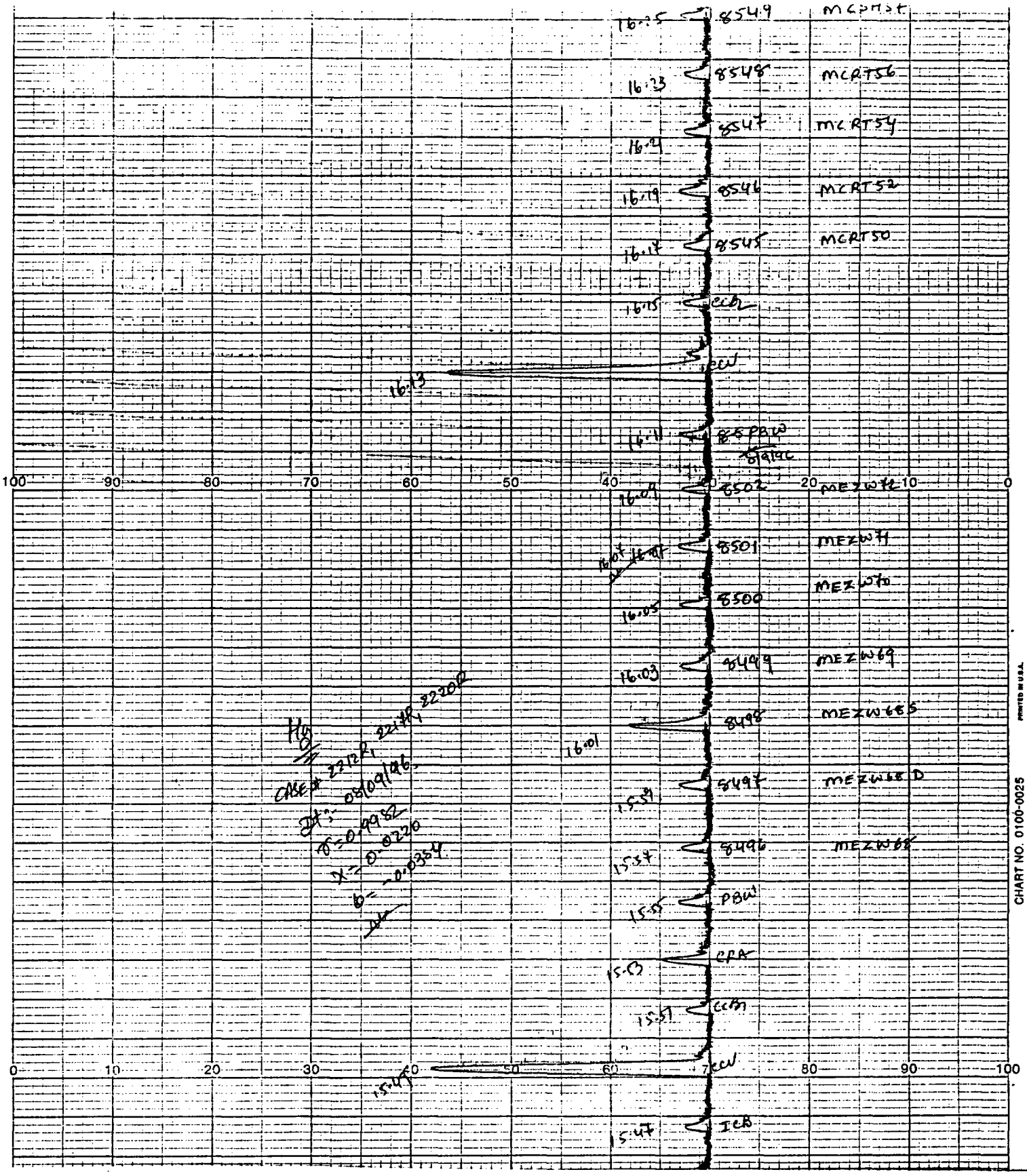
BS 8/13



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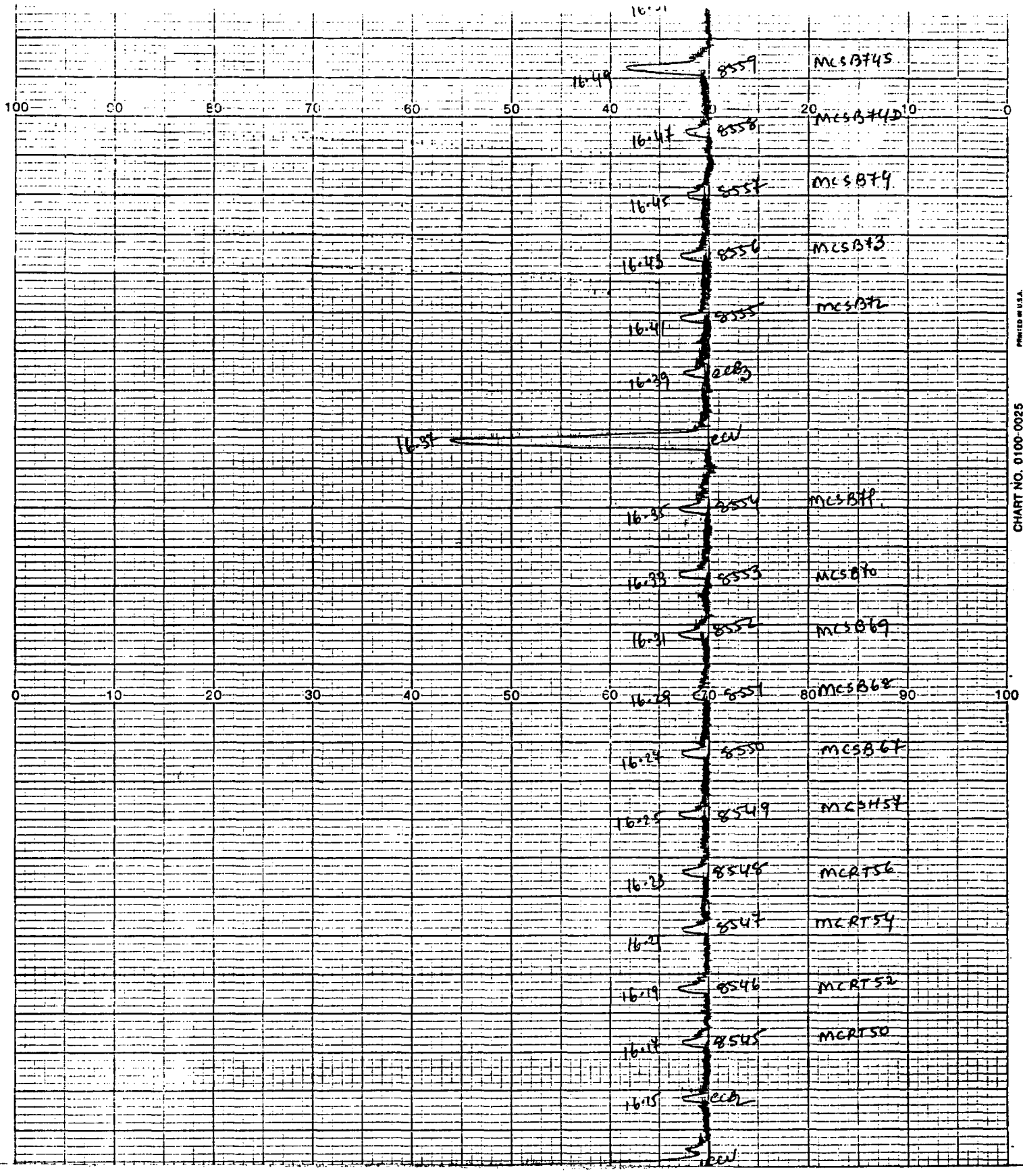

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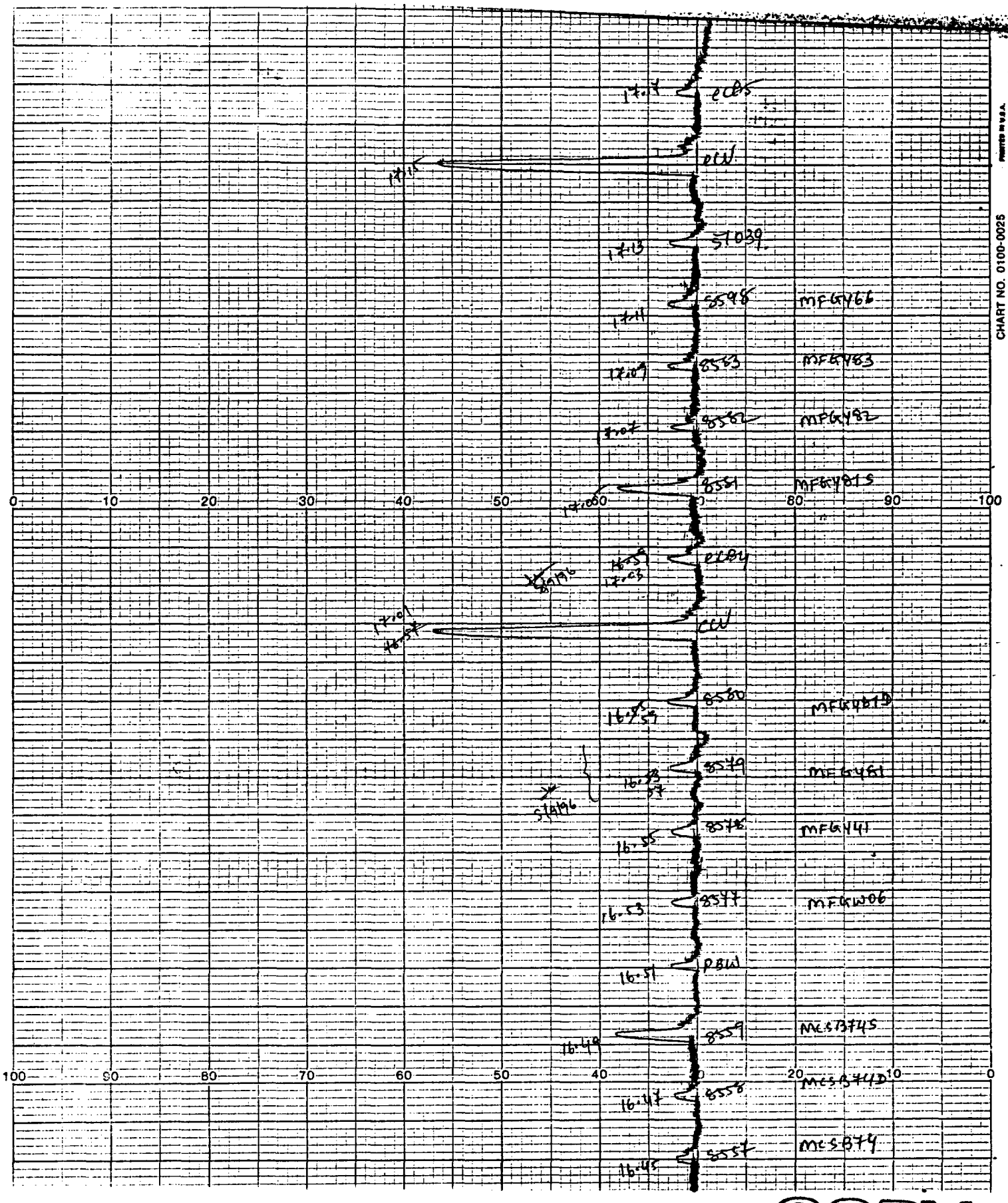

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CHEMTECH
CONSULTING GROUP, INC

MERCURY ANALYSIS LOGBOOK

END TIME	CORR. COFF. r	SLOPE x	CONC. b	ANALYST	COMMENT
17.00	0.9971 ~~0.9971~~ 4/9/96	0.0225	-0.0511	[illegible]	—
18.30.	0.9978	0.0210	-0.0407	[illegible]	—
19.00.	0.9989	0.0220	-0.0255	[illegible]	—
18.00.	0.9982	0.0220	-0.0384	[illegible]	—

LOGBOOK PAGE: 000007

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CHEMTECH
CONSULTING GROUP INC

MERCURY ANALYSIS LOGBOOK

DATE	CASE No.	BATCH No.	START TIME	% ABSORBANCE OF STD. BLK	STD1	STD2	STD3	STD4	STD5
				0.0PPB	0.2PPB	0.5PPB	1.0PPB	5.0PPB	10.0PPB
8/3/96	2187R 2265N5 2210A5P 2186R		12.30	0.0	3.5	6.0	7.0	25.5	46.0
8/4/96	2183R 2211R		14.00	0.0	3.0	6.0	7.5	25.0	49.5
8/7/96	Client		15.00	0.0	3.0	4.0	6.0	23.0	47.0
08/09/96	2212R 2217R 2220R		14.00	0.0	2.5	5.5	7.0	24.5	47.0

LOGBOOK PAGE: 000007

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INSTRUMENT ID CODE: CN

CYANIDE

Analysis Spectrophotometric Method, λ = 578 nm 1 cm Cell

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____ Project No.: 2187 R; 2220R

Analyst: MR Date: 07-29-96 r: 0.9999 X: 0.8977 b: 0.0001

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:
CCV	2.5 ml	D0306	Pyridine barbituric acid sol	D0295
working std	10 ml	D0306	Buffer	D0296
			Chloramine-T	D0307
			NaOH	D0303

Lab Sample No.	Client Sample No.	Matrix	Color Vol mL	ABS	Dist. Conc.	Dil. Fac.	CN^- mg/L	CN^- mg/Kg	Time
S0	S0	water	50	0.0000	<0.0100	–	<0.0100		17:15
S1	S10	water	50	0.0109	0.0100	–	0.0100		17:17
S2	S100	water	50	0.1159	0.1000	–	0.1000		17:19
S3	S500	water	50	0.5491	0.5000	–	0.5000		17:21
S4	S1000	water	50	1.1173	1.0000	–	1.0000		17:23
ICV	(#1191)	water	50	0.1023	0.0919	–	0.0919		17:25
ICB		water	50	0.0009	<0.0100	–	<0.0100		17:27
CCV-1	(0.5mg/L)	water	50	0.5551	0.4984	–	0.4984		17:29
CCB-1		water	50	0.0013	<0.0100	–	<0.0100		17:31
MidRange		water	50	0.5720	0.5136	–	0.5136		17:33
PBW		water	50	0.0011	<0.0100	–	<0.0100		17:35
PBW		water	50	0.0006	<0.0100	–	<0.0100		17:37
2187-R 8382	MCSH37	water	50	0.0017	<0.0100	–	<0.0100		17:39
8383	MCSH39	water	50	0.0041	<0.0100	–	<0.0100		17:41
8384	MCSH41	water	50	0.0075	<0.0100	–	<0.0100		17:43
8385	MCSH43	water	50	0.0034	<0.0100	–	<0.0100		17:45
8386	MCSH43D	water	50	0.0031	<0.0100	–	<0.0100		17:47

r = Corelation Coefficient
x = Slope NB ORIGINAL CN. RAW DATA W/ CASE #24848 SDG# MCSH37
b = Constant
Rev. 12/95

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CYANIDE

Analysis Spectrophotometric Method, λ = 578 nm 1 cm Cell

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____ Project No.: 2187R; 2220R

Analyst: MR Date: 07-29-96 r: 0.9999 X: 0.8977 b: 0.0001

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix	Color Vol mL	ABS	Dist. Conc.	Dil. Fac.	CN^- mg/L	CN^- mg/Kg	Time
8387	MCSH43S	water	50	0.1116	0.1003	–	0.1003		17:49
8388	MCSH45	water	50	0.0052	<0.0100	–	<0.0100		17:51
CCV-2	(0.5mg/L)	water	50	0.5438	0.4883	–	0.4883		17:53
CCB-2		water	50	0.0017	<0.0100	–	<0.0100		17:55
8389	MCSH47	water	50	0.0070	<0.0100	–	<0.0100		17:57
8390	MCSH49	water	50	0.0037	<0.0100	–	<0.0100		17:59
8391	MCSH50	water	50	0.0070	<0.0100	–	<0.0100		18:01
2220-R 8572	MFAW06	water	50	0.0027	<0.0100	–	<0.0100		18:03
8578	MFAY41	water	50	0.0028	<0.0100	–	<0.0100		18:05
8579	MFAY81	water	50	0.0034	<0.0100	–	<0.0100		18:07
8580	MFAY81D	water	50	0.0037	<0.0100	–	<0.0100		18:09
8581	MFAY81S	water	50	0.1141	0.1025	–	0.1025		18:11
8582	MFAY82	water	50	0.039	<0.0100	–	<0.0100		18:13
8583	MFAY83	water	50	0.045	<0.0100	–	<0.0100		18:15
CCV-3	(0.5mg/L)	water	50	0.5622	0.5048	–	0.5048		18:17
CCB-3		water	50	0.0010	<0.0100	–	<0.0100		18:19
8598	MFAY66	water	50	0.031	<0.0100	–	<0.0100		18:21

r = Corelation Coefficient
x = Slope
b = Constant
Rev. 12/95

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CYANIDE

Analysis Spectrophotometric Method, λ = 578 nm 1 cm Cell

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____ Project No.: 2187R, 2220R

Analyst: MR Date: 07-29-96 r: 0.9999 X: 0.08977 b: 0.0001

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix	Color Vol mL	ABS	Dist. Conc.	Dil. Fac.	CN^- mg/L	CN^- mg/Kg	Time
CCV-4	0.5mg/L	water	50	0.5661	0.5082	—	0.5082		18:23
CCB-4		water	50	0.0012	<0.0100	—	<0.0100		18:25

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r = Corelation Coefficient
x = Slope
b = Constant
Rev. 12/95

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CHEMTECH
CONSULTING GROUP INC

CYANIDE ANALYSIS LOGBOOK

DATE	CASE No.	BATCH No.	START TIME	% ABSORBANCE OF STD. BLK	STD1	STD2	STD3	STD4	END TIME	CORR. COFF. r	SLOPE x	CONC. b	ANALYST	COMMENT
07/03/96	clients		16:30	0.0000	0.043	0.1174	0.5820	1.1253	19:00	1.0000	0.8888	-0.0019	K/AM	
07/08/96	IDL study-1		10:30	0.0000	0.0116	0.1143	0.5987	1.2046	12:20	0.9999	0.8293	0.0020	AM/MR	
07/09/96	20692, 20693		17:00	0.0000	0.0120	0.1192	0.5812	1.1291	19:30	0.9999	0.8786	-0.0031	K	
07-10-96	IDL study-2		11:35	0.0000	0.0109	0.1213	0.5569	1.1604	13:15	0.9998	0.8665	0.0015	AM/MR	
07-11-96	clients		16:00	0.0000	0.0121	0.1247	0.5720	1.1669	18:00	0.9999	0.8609	-0.0009	K	
7-12-96	IDL study-3		11:00	0.0000	0.0110	0.1095	0.5735	1.1878	12:10	0.9998	0.8429	0.0048	AM/MR.	
7-13-96	20668, 20690 R, 2040 CR		16:00	0.0000	0.0121	0.1281	0.5916	1.1623	18:30	0.9999	0.8614	-0.0045	K	
7-15-96	2111R		16:00	0.0000	0.0123	0.1239	0.6016	1.1521	17:42	0.9998	0.8654	-0.0060	K	
7-16-96	2096NJ, 2116NJ, clients		16:30	0.0000	0.0119	0.1222	0.5949	1.1616	18:30	0.9999	0.8587	-0.0035	K	
7-18-96	2112, 2113C, 2118C		14:00	0.0000	0.0111	0.1238	0.5891	1.1232	16:00	1.0000	0.8888	-0.0009	K	
7-22-96	2145R		10:30	0.0000	0.0124	0.1275	0.6092	1.2438	11:45	0.9999	0.8065	0.0006	K	
7-23-96	clients, 2211J-Study 4		16:00	0.0000	0.0108	0.1093	0.5486	1.1042	18:45	1.0000	0.9059	0.0008	K	
7-24-96	2183-R		10:00	0.0000	0.0119	0.1230	0.5891	1.2017	19:00	0.9999	0.8346	0.0006	K	
7-25-96	2186-R		17:30	0.0000	0.0113	0.1131	0.5670	1.1231	20:00	1.0000	0.8895	-0.0008	K	
7-29-96	2187R, 2220R		16:00	0.0000	0.0109	0.1159	0.5491	1.1123	19:00	0.9999	0.8977	0.0001	K	

LOGBOOK PAGE: 000005

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CONSULTING GROUP INC

CYANIDE ANALYSIS LOGBOOK

LOGBOOK PAGE: 000006

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PREP. CODE: P.

CHEMTECH
CONSULTING GROUP, INC.

Sample Preparation Worksheet
ICP and AA Furnace

Matrix: Water | Project No.: 2220A | ICP. Dig. Date 08/08/96

Initial Vol: 100 mL | Final Vol. 100 mL | Fur. Dig. Date: ___/___/___

SDG No.: _____ | Analyst: DB

Hot Plate Temp. 94 °C | Method #: _____

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Stock #:
LCSW	100ml	I0069	Con. HNO3	M0117
PDS #1	1ml	I0070	DB R HNO3 (1:1)	I0064
PDS #2	1ml	I0071	HCl (1:1)	I0062
PDS #3	1ml	I0072	—	—

Lab Sample No.	Client Sample No.	Color		Clarity		pH	Comment
		Before	After	Before	After		
LCSW		colorless	colorless	clear	clear	<2	—
PBW		colorless	colorless	clear	clear	4.8	—
-2220A -8577	-MFLW06	colorless	colorless	clear	clear	<2	—
-8578	-MFLY41	colorless	colorless	clear	clear	<2	—
-8579	-MFLY81	Brown	cloudy	clear	clear	<2	—
-8580D	-MFLY81D	Brown	cloudy	clear	clear	<2	—
-8581S	-MFLY81S	Brown	cloudy	clear	clear	<2	—
-8582	-MFLY82	colorless	colorless	clear	clear	<2	—
-8583	-MFLY83	Brown	cloudy	clear	clear	<2	—
2220A -8584	-MFLY66	Brown	cloudy	clear	clear	<2	—

DB

Rev. 12/95

100228

HG. PREP. W. SHEET CODE : CV.

MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Project No.: 2212R/ 2217R/2220R.

Autoclave / Water Bath Temp.: 95°C ~~94°C~~ SBS 8/9/96 Autoclave Pressure: —

Balance Check: (0.20g) 0.20gm. Analyst (s) SBS Date: 08/09/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:
Working-Std.		R0368	$KMnO_4$	R0366
ICV		H0021	$K_2S_2O_8$	R0367
Spike soln.		R0368	HNO_3	H0041
			H_2SO_4	H0042

Lab Sample No.	Client Sample No.	Matrix W/S	Sampl Wt. / Vol	Comment
BLK (0.0PPB)	S0			
Std-1 (0.2PPB)	S0.2			
Std-2 (0.5PPB)	S0.5			
Std-3 (1.0PPB)	S1.0			
Std-4 (5.0PPB)	S5.0			
Std-5 (10.0PPB)	S10.0			
ICV	(#0791)			
ICB				
CCV	5.0 PPB			
CCB1				
CRA	0.2 PPB			
PBW		W	100 ml.	
2212R 8496	MEZW 68	W	100 ml.	
8497 ~~8685~~	MEZW 69 D	W	100 ml.	
8498 ~~8685~~	MEZW 685	W	100 ml.	spike added 1.0PPB
8499	MEZW 69	W	100 ml.	104229

Rev. 12/95

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10B ORIGINAL HG. PREP. W. SHEET W./ CASE # 24889
SDG # MEZW 68

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MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Project No.: 2212R/2217R/2220R.

Autoclave / Water Bath Temp.: ~~94°C~~ 95°C SBS 8/9/96 Autoclave Pressure: —

Balance Check: (0.20g) 0.20gm. Analyst (s) SBS Date: 08/09/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W / S	Sampl Wt. / Vol	Comment
8500	MEZW70	W	100ml.	
8501	MEZW71	W	100ml.	
8502	MEZW72	W	100ml.	
CCV	5.0 PPB			
CCB2				
2217R 8545	MCRT50	W	100ml.	
8546	MCRT52	W	100ml.	
8547	MCRT54	W	100ml.	
8548	MCRT56	W	100ml.	
8549	MCSH57	W	100ml.	
8550	MCSB67	W	100ml.	
8551	MCSB68	W	100ml.	
8552	MCSB69	W	100ml.	
8553	MCSB70	W	100ml.	
8554	MCSB71	W	100ml.	
CCV	~~BB~~ SBS 8/9/96 5.0 PPB			001230

Rev. 12/95

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MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Project No.: 2212R/2217R/2220R.

Autoclave / Water Bath Temp.: ~~94°C~~ 95°C SBS 8/9/96 Autoclave Pressure: —

Balance Check: (0.20g) 0.20gm Analyst (s) SBS Date: 08/09/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W / S	Sampl Wt. / Vol	Comment
CCB3				
8555	MCSB 72	W	100ml.	
8556	MCSB 73	W	100ml.	
8557	MCSB 74	W	100ml.	
8558 D SBS 8/9/96	MCSB 74D	W	100ml.	
8559 S SBS 8/9/96	MCSB 74S	W	100ml.	spike added 1.0PPB
2220R 8577	MFGW 06	W	100ml.	
8578	MFGY 41	W	100ml.	
8579	MFGY 81	W	100ml.	
8580 D SBS 8/9/96	MFGY 81D	W	100ml.	
8581 S SBS 8/9/96	MFGY 81S	W	100ml.	spike added 1.0PPB.
CCV				
CCB4				
8582	MFGY 82	W	100ml.	
8583	MFGY 83	W	100ml.	
8598	MFGY 66	W	100ml.	1004231

Rev. 12/95

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8/13

MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Project No.: 2212R/2217R/2220R.

Autoclave / Water Bath Temp.: 95°C Autoclave Pressure: —

Balance Check: (0.20g) — Analyst (s) SBS Date: 08/09/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W / S	Sampl Wt. / Vol	Comment
PBW		W	100ml.	
PBW		W	100ml.	
38037	51039	W	100ml.	
CCV	5.0 PPB			
CCB5				
				SBS 8/9/96

Rev. 12/95

Page 4 of 4

001232

COPY

BS/B

CHEMTECH
CONSULTING GROUP, INC.

MERCURY DIGESTION LOGBOOK

95°C => water bath 121°C => Autoclave

Date	Project No.:	Batch No.:	Matrix	Digst. Time	Digst. Pressure	Digst. Temp.	Analyst	Comment
1/26/96	2111R		Soil	16.10	15psi	121°C	[illegible]	—
1/29/96	Client		water TCLP	9.00	—	95°C	[illegible]	—
1/30/96	2145R		water	9.00	—	95°C	[illegible]	—
5/1/96	Client		Soil	9.00	15psi	121°C	[illegible]	—
5/1/96	client		water TCLP	9.00	—	95°C	[illegible]	—
5/2/96	2161 ASP		water	9.00	—	95°C	[illegible]	—
5/2/96	2161 ASP		soil	9.30	15psi	121°C	[illegible]	—
5/3/96	2187R, 2265NS 2210ASP		water	9.00	—	95°C	[illegible]	—
5/3/96	2186R		Soil	9.15	15psi	121°C	[illegible]	—
5/4/96	2183R 2211R		Soil	9.00	15psi	121°C	[illegible]	—
5/4/96	2183R		Soil	16.00	15psi	121°C	[illegible]	—
5/7/96	client		soil	10.00	15psi	121°C	[illegible]	—
5/7/96	Client		water TCLP	10.30	—	95°C	[illegible]	—
5/9/96	2212R 2217R, 2220R		water	9.00	—	95°C	SBS	—

Rev. 12/95

1101233

Logbook Page Number: 10

COPY

8/13

CYANIDE DISTILLATION LOG

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Rec. Date ___/___/_____ Project No.: 2187-R; 2220-R

SDG No.: _____ Distilled Date: 07/29/96 Analyst (s) MR/SS

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:
ICV	0.5	C0027	NaOH	D0303
Mid Range	2.5	D0306	H_2SO_4	D0293
Spike	0.5	D0306	$MgCl_2$	D0294

SET #:	Lab Sample No.	Client Sample No.	Matrix	Wt. / Vol (g. / mL.)	pH	Sulfide Test	Comment
1	ICV	(#1191)	water	50	>12	-ve	T.V.=0.09mg/L
2	ICB		water	50	>12	-ve	
3	Mid Range		water	50	>12	-ve	T.V.=0.50mg/L
4	PBW		water	50	>12	-ve	
5	PBW		water	50	>12	-ve	
6	2187-R 8382	MCSH 37	water	50	>12	-ve	
7	8383	MCSH 39	water	50	>12	-ve	
8	8384	MCSH 41	water	50	>12	-ve	
9	8385	MCSH 43	water	50	>12	-ve	
1	8386	MCSH43D	water	50	>12	-ve	
2	8387	MCSH43S	water	50	>12	-ve	T.V.=0.10mg/L
3	8388	MCSH 45	water	50	>12	-ve	
4	8389	MCSH 47	water	50	>12	-ve	
5	8390	MCSH 49	water	50	>12	-ve	
6	8391	MCSH 50	water	50	>12	-ve	
7	2220-R 8577	MFGW06	water	50	>12	-ve	
8	8578	~~MFGY41~~ MFGY41	water	50	>12	-ve	
9	8579	MFGY81	water	50	>12	-ve	

000234

Final Distilate Volume: 50ml

Rev. 12/95

COPY

CYANIDE DISTILLATION LOG

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Rec. Date ___/___/_____ Project No.: 2187 R; 2220 R

SDG No.: _____ Distilled Date: 07/29/96 Analyst (s) MR/SS

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:

SET #:	Lab Sample No.	Client Sample No.	Matrix	Wt. / Vol (g. / mL.)	pH	Sulfide Test	Comment
1	8580	MFGY81 D	water	50	>12	-ve	
2	8581	MFGY81 S	water	50	>12	-ve	T.V.= 0.10mg/L
3	8582	MFGY82	water	50	>12	-ve	
4	8583	MFGY83	water	50	>12	-ve	
5	8598	MFGY66	water	50	>12	-ve	
6							
7							
8							
9							

COPY 7/29/96

Final Distilate Volume: 50ml

Rev. 12/95

1101235

CHEMTECH
CONSULTING GROUP, INC

CYANIDE DISTILLATION LOGBOOK

DATE DIST.	CASE No.	BATCH No.	MATRIX	ANALYST	COMMENT
07/01/96	2018R;	2020C	soil & water	[illegible]	
07/03/96	clients		water	[illegible]	
07/08/96	IDL Study-1		water	Pm/MR	
07/09/96	2065R;	2092MJ	soil	[illegible]	
07-10-96	IDL Study-2		water	Pm/MR	
07-11-96	Clients		water	Pm/MR	
07-12-96	IDL Study-3		water	Pm/MR	
07/13/96	2066R, 2061R, 2040CR		water	[illegible]	
07/15/96	2111R		soil	[illegible]	
07-16-96	2096MJ, 2116MJ clients		water	[illegible]	
07/18/96	2112R, 2113C 2118C		water	[illegible]	
07/22/96	2145R		water	M/SS	
07/23/96	study-16, 2199MJ 2141R, 2170R		water	[illegible]/SS	
07/24/96	2183-R		soil	M/SS	
07/25/96	2186-R		soil	M/SS	
07/29/96	2187R, 2220R		water	M/SS	

LOGBOOK PAGE: 6

1U1236

COPY

8/01

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

Case No.: 24893

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil (High only)
7. Waste (High only)
8. Other (specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NaOH
4. H_2SO_4
5. $K_2CR_2O_7$
6. Ice only
7. Other (specify in Column D)
N. Not preserved

2. Region No.: VI
Sampling Co.: WESTON
4. Date Shipped: 7/25/96
Carrier: FEDEX
6. Date Received -- Received by: 7/26/96 B. Moroughs SDG # MFGW06
Sampler (Name): Jay Ishigo
Airbill Number: 1325904495
Laboratory Contract Number: 68-D5-0166
Unit Price
Sampler Signature: [signature]
5. Ship To: Chemtech, 110 Route 4, Englewood, NJ 07631, (201) 567-6868, ATTN: Divya Mehta
7. Transfer to:
Date Received
Received by
Contract Number
Price

3. Purpose*
Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED
Early Action: [ ] CLEM, [ ] PA, [ ] REM, [ ] RI, [ ] SI, [X] ESI
Long-Term Action: [ ] FS, [ ] RD, [ ] RA, [ ] O&M, [ ] NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MFGW06	2	L	G	2,3		X	X					6-013053-54	B02-22-1	7/24/96 1750	FFF24	JLI			
MFGY41	2	L	G	2,3		X	X					6-012839-40	D06-43-1	7/24/96 1740	FFE81	JLI			
MFGY81	2	L	G	2,3		X	X					6-013027-30	B01-21-1	7/24/96 1130	FFF21	JLI			
MFGY82	4	L	G	2,3		X	X					6-013037-38	B01-45-1	7/24/96 1600	FFF22	JLI			
MFGY83	2	L	G	2,3		X	X					6-013045-46	B02-21-1	7/24/96 1045	FFF23	JLI			

Shipment for Case Complete? (Y/N)
Page 1 of 1
Sample(s) to be Used for Laboratory QC: MFGY81
Additional Sampler Signatures: Jay Hill
Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	7/24/96 1900	FEDEX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		B. Moroughs	7/26/96 9130		

(10,237)

A21-012-14 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

368898

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analysis)

Case No.: 24892

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaOH
   4. H_2SO_4
   5. $K_2CR_2O_7$
   6. Ice only
   7. Other (specify in Column D)
   N. Not preserved

2. Region No.: VI
Sampling Co.: WESTON
4. Date Shipped: 7/25/96
Carrier: FEDEX
6. Date Received -- Received by: 7-26-96 B. Morovati SSC# MFC-W06
Sampler (Name): by Ishigo
Airbill Number: 1325933814
Laboratory Contract Number: 68-D5-0166
Unit Price:
Sampler Signature:
5. Ship To: Chemtech, 110 Route 4, Englewood, NJ 07631, (201) 567-6868, ATTN: Divya Menda
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MFG1W6	4	L	G	2,3		X	X					6-012951-52	P02-43-1	7/25/96 1000	FFF06	JLI			

Shipment for Case Complete? (Y/N):
Page 1 of 1
Sample(s) to be Used for Laboratory QC:
Additional Sampler Signatures: Troy Hill
Chain of Custody Seal Number(s):

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	7/25/96 1900	TEDEX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		B. Morovati	7/26/96 9:30		

A21-012-14 REV.

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

368897

FedEx USA Airbill

Tracking Number 1325133814

11 100 55358080 6197

From

7/25/96 Sender's FedEx Account Number 0770-1853-0

Phone (713)-621-1620

Dept./Floor/Suite/Room

Company ROY F WESTON INC

Address 5599 SAN FELIPE STE 700

City HOUSTON State TX Zip 77056

Your Internal Billing Reference Information

To

Recipient's Name Divya Mehta Phone (201) 567-6863

Dept./Floor/Suite/Room

Company Chemteels

Address 110 Route

(HOLD" at FedEx location, print FedEx address here)

City Englewood State NJ Zip 07631

For HOLD at FedEx Location check here

1 Hold Weekday (Not available with FedEx First Overnight)

31 Hold Saturday (Not available at all locations.) (Not available with FedEx First Overnight or FedEx Standard Overnight)

For Saturday Delivery check here

3 (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

B. Moroughi
7/26/96 9:30

1 3 2 5 5 3 3 8 1 4

Express Packs to Service

Express Freight Service

Packaging

Special Handling

Does this shipment contain dangerous goods?

Yes

Dry Ice

Cargo Aircraft Only

Payment

Bill to:

Total Packages 1 Total Weight 24

Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify Federal Express against any claim arising therefrom.

238

Check here if package was damaged

WCBL 8/96
Rev. Date 3/96
PART #147966

000239

FedEx USA Airbill

Tracking Number 1325904495

From

Date 7/25/96 Sender's FedEx Account Number 0770-1853-0

Name Joy Ishigo Phone (713)-621-1620

Dept/Floor/Suite/Room

Company ROY F WESTON INC

Address 5599 SAN FELIPE STE 700

City HOUSTON State TX Zip 77056

Your Internal Billing Reference Information

To

Name Divya Mehta Phone (201) 567-6868

Dept/Floor/Suite/Room

Company Chemtech

Address 110 Route 4

(Fedex location, print Fedex address here)

City Englewood State NJ Zip 07631

For HOLD at FedEx Location check here

1 Hold Weekday (Not available with FedEx First Overnight) 31 Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

For Saturday Delivery check here

3 (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

B moroni 7/26/96 9:30

1 3 2 5 9 0 4 4 9 5

L

FedEx Retrieval Copy

74 100 55358080 615

Express Package Service (Packages under 150 lbs.)

X

Express Freight Service (Packages over 150 lbs.)

Packaging

X

Special Handling

Does this shipment contain dangerous goods?

Payment

Bill to:

X

Total Packages 1 Total Weight 55

Release Signature

238

Check here if packages are damaged

WCSL 6000
Rev. Date 3/96
PART #147956

000240

FedEx USA Airbill

Express Tracking Number: 1325133814

FedEx Arrival Copy

11 100 55358060 619

From

Date: 7/25/96

Sender's FedEx Account Number: 0770-1853-0

Phone: (713)-621-1620

Sender's Name: [illegible]

Company: ROY F WESTON INC

Address: 5599 SAN FELIPE STE 700

City: HOUSTON State: TX Zip: 77056

To

Phone: (201) 567-6808

Recipient's Name: Divya Mehta

Company: Chemtech

Address: 110 Route

City: Eastlewood State: NJ Zip: 07631

For Saturday Delivery check here

B. Moroughs
7/26/96 9:30

Express Package Service

Express Freight Service

Packaging

Special Handling

Payment

Total Packages: 1 Total Weight: 24

Recipient Signature

238

Check here if packages were damaged

(Handwritten) 000239

FedEx USA Airbill

Tracking Number 1325904495

FedEx Retrieval Copy

74 100 55358DAO 615

From

Date 7/25/96 Sender's FedEx Account Number 0770-1853-0

Sender's Name Jay Ishigo Phone 713-621-1620

Dept./Floor/Suite/Room

Company ROY F WESTON INC

Address 5599 SAN FELIPE STE 700

City HOUSTON State TX Zip 77056

Your Internal Billing Reference Information

To

Recipient's Name Divya Mehta Phone (201) 567-6868

Dept./Floor/Suite/Room

Company Chemtech

Address 110 Routt

City Englewood State NJ Zip 07631

For HOLD at FedEx Location check here

For Saturday Delivery check here

B Moroni 7/26/96 9:30

Express Package Service

Express Freight Service

Packaging

Special Handling

Payment

Total Packages 1 Total Weight 55

Release Signature

238

L

1 3 2 5 9 0 4 4 9 5

WORK 0000
Rev. Date 3/96
PART #147890

001240
4

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY Bm pH Verified by Bm
CLIENT : USEPA CLP SMO SAMPLE BATCH NUMBER : 1497
PROJECT NAME : 2220R CLIENT NO. : 7
SAMPLES DELIVERED : 07/26/96 AT 0930 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 07/26/96 TIME 0930

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED

ANALYSES REQUESTED

8577 MFGW06 07/24/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. ISHIGO LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 904 495
TEMP: 3.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96

8578 MFGY41 07/24/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. ISHIGO LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 904 495
TEMP: 3.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96

8579 MFGY81 07/24/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. ISHIGO LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 904 495
TEMP: 3.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96

8580 MFGY81DUP 07/24/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. ISHIGO LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 904 495
TEMP: 3.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96

8581 MFGY81PDS 07/24/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. ISHIGO LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 904 495
TEMP: 3.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96

1101241

3 Bm

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY Bm pH Verified by Bm
CLIENT : USEPA CLP SMO SAMPLE BATCH NUMBER : 1497
PROJECT NAME : 2220R CLIENT NO. : 7
SAMPLES DELIVERED : 07/26/96 AT 0930 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 07/26/96 TIME 0930

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED

ANALYSES REQUESTED

8582 MFGY82 07/24/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. ISHIGO LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 904 495
TEMP: 3.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96

8583 MFGY83 07/24/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. ISHIGO LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 904 495
TEMP: 3.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96

8584 LCSW 07/24/96 3GCU
TAL ,
MATRIX: WW SAMPLER: LOCATION: L. C. S. W.
TYPE SAMPLE: Grab COMMENT:
RESULTS PROMISED NO LATER THAN : 08/30/96

001242

3Bm

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY BM pH Verified by R
CLIENT : USEPA CLP SMO SAMPLE BATCH NUMBER : 1502
PROJECT NAME : 2220R CLIENT NO. : 7
SAMPLES DELIVERED : 07/26/96 AT 0930 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 07/26/96 TIME 15:20

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED
ANALYSES REQUESTED				
8598	MFGY66	07/25/96		3PNU,3PBU
TALMCN ,				
MATRIX: WW SAMPLER: J. ISHIGO				LOCATION: REGION 6
TYPE SAMPLE: Grab				COMMENT: CON#: 68-D5-0166 DO#: A2 CASE#: 24893 FEDEX#: 1325 933 814 TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 08/30/96				

1101243
K

BR

SAMPLE LOG-IN SHEET

Lab Name: Chemtech	Page 1 of 1
Received By (Print Name): Babak Moromati	Log-in Date: 7/26/96
Received By (Signature): B. Moromati	
Case Number: 24893	Sample Delivery Group No.: MFGW06
	SAS Number:

Remarks:

			EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1.	Custody Seal(s)	Present/Absent* Intact/Broken	MFGW06	013053-54	8577	Intact
2.	Custody Seal Nos.	NA	MFGY41	012839-40	8578	
3.	Chain-of Custody Records	Present/Absent*	81	013027-30	8579-81	
4.	Traffic Reports or Packing Lists	Present/Absent*	82	013037-38	8582	
5.	Airbill	Airbill/Sticker Present/Absent*	83	013045-46	8583	
6.	Airbill No.	1325 933814 1325 904495	66	012951-2	8598	
7.	Sample Tags	Present/Absent*				
	Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody				
8.	Sample Condition Temp: 3.0°C	Intact/Broken*/Leaking				
9.	Does information on custody records, traffic reports, and sample tags agree?	Yes/No*				
10.	Date Received at Lab	7/26/96				
11.	Time Received	9:30				

Sample Transfer	
Fraction	Fraction
Area #	Area #
By	By
On	On

* Contact SMO and attach record of resolution.

Reviewed By	Logbook No.
Date	Logbook Page No.

SAMPLE DELIVERY GROUP (SDG) TRAFFIC REPORT (TR) COVER SHEET

Lab Name: Chemtech Contract No.: 68-D5-0166

Lab Code: Chem Case No.: 24893 SAS No.: _____

Full Sample Analysis Price in Contract: $ _____

SDG No./First Sample in SDG: mFGW06 Sample Receipt Date: 7/26/96
(Lowest EPA Sample Number in first shipment of samples received under SDG.) (MM/DD/YY)

Last Sample in SDG: mFGY83 Sample Receipt Date: 7/26/96
(Highest EPA Sample Number in last shipment of samples received under SDG.) (MM/DD/YY)

EPA Sample Numbers in the SDG (listed in alphanumeric order)

1	mFGW06	11	
2	mFGY41	12	
3	66	13	
4	81	14	
5	82	15	
6	83	16	
7		17	
8		18	
9		19	
10		20	

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

B. Moroun 7/26/96

Signature Date

000245