LOCKHEED ENVIRONMENTAL SYSTEMS AND TECHNOLOGIES CO.
TWO ALLEN CENTER
1200 SMITH STREET, SUITE 800
HOUSTON, TX 77002

MEMORANDUM

DATE: May 13, 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 # 6-6248A, ESAT File # I-1971

Attached is the data review summary for Case # 24517
SDG # MFGH06
Site OLD BRAZOS FORGE

COMMENTS:

I. CONTRACTUAL ASSESSMENT OF DATA PACKAGE:

CCS failed to report the following non-compliance that the reviewer detected in the hardcopy package. The non-compliance did not affect the technical usability of the sample results.

The laboratory analyzed an Interference Check True Solution AB (ICSAB) that does not correspond to TABLE 2 on page E-21 of ILM04.0.

II. TECHNICAL/USABILITY ASSESSMENT OF DATA PACKAGE:

A total of 120 results were reviewed for this data package. The package is technically provisional because of the following problems.

A. The reviewer qualified approximately 18 percent of the results.

B. Selenium and thallium ICP coefficients of variation were high.

C. Field duplicate precision was poor for chromium and lead.

964515

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

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	24517	SITE	OLD BRAZOS FORGE
LABORATORY	CHEM	NO. OF SAMPLES	5
CONTRACT#	68-D5-0166	MATRIX	water
SDG#	MFGH06	REVIEWER (IF NOT ESD)	ESAT
SOW#	RAS ILM04.0	REVIEWER'S NAMES	Mike Fertitta
ACCT# 6TFAJN43 SF# TFAUZZ		COMPLETION DATE	May 13, 1996

SAMPLE NO.'s:					
	MFG-H06	MFG-H18			
	MFG-H07				
	MFG-H08				
	MFG-H09				

DATA ASSESSMENT SUMMARY

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

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

ACTION ITEMS:

AREAS OF CONCERN: The laboratory analyzed an ICSAB that does not comply with ILM04.0. One selenium analysis and one thallium analysis had high coefficients of variation. Aluminum, chromium, iron, and lead field duplicate results were inconsistent.

NOTABLE PERFORMANCE: The data package arrived at the Region 1 day before the contractual 35-day requirement.

INORGANIC QA REVIEW
CONTINUATION PAGE

CASE 24517 **SDG** MFGH06 **SITE** OLD BRAZOS FORGE **LAB** CHEM

COMMENTS: The laboratory analyzed five water samples for total metals and cyanide by SOW ILM04.0. The sampler identified samples MFG-H06 and MFG-H07 as field duplicates and sample MFG-H18 as the laboratory QC sample. The laboratory met the contractual 35-day data package turnaround requirement.

Approximately 43 percent of the results were above the CRDL's. The data package is technically provisional because of problems with ICP coefficients of variation and field duplicate precision. The technical usability of the sample results is discussed below, and any qualifications are listed in the attached Data Summary Table.

The reviewer conducted an Evidence Audit for the Complete Sample Delivery Group File (CSF), and the Evidence Inventory Checklist is attached to this report.

1. **Holding Times:** Acceptable. Field preservation of samples met contractual requirements. The laboratory met contractual and technical holding time criteria for all analyses.

2. **Calibrations:** Acceptable. Instrument calibrations met contractual requirements. CRDL standard analyses indicated acceptable instrument performance near the CRDL's.

3. **Blanks:** Acceptable. All blanks met contractual criteria. Calibration blanks contained nine target analytes below CRDL levels, but these concentrations did not affect the sample results. Aluminum, magnesium, and sodium preparation blank concentrations were due to baseline instability and not caused by contamination introduced during sample preparation.

4. **Pre-digestion/Pre-distillation Matrix Spike Recovery:** Acceptable. All matrix spike recoveries were within the QC limits.

5. **Duplicate Analysis:** Acceptable. Duplicate results for all analytes met SOW QC criteria.

INORGANIC QA REVIEW
CONTINUATION PAGE

CASE 24517 **SDG** MFGH06 **SITE** OLD BRAZOS FORGE **LAB** CHEM

6. **ICP Quality Control:**

   Interference Check Sample: Acceptable. Analyte recoveries for analyses of True Solution AB were within the QC limits, although concentrations of antimony, arsenic, lead, selenium, silver, and thallium did not meet contract specifications. In the reviewer's opinion, sample results were not affected since ICS analyses indicated acceptable application of interelement and background corrections.

   Serial Dilution: Acceptable. All serial dilution percent differences met the QC criterion.

   Coefficients of Variation: Provisional. Consistent replicate ICP readings indicated acceptable instrument precision for most analyses. The reviewer qualified as estimated the selenium result for sample MFG-H07 and the thallium result for sample MFG-H09 because coefficients of variation exceeded 20 percent.

7. **Furnace Atomic Absorption (FAA) Quality Control:** FAA was not used for this SDG.

8. **Laboratory Control Sample (LCS):** Acceptable. All LCS results were within the QC limits.

9. **Sample Verification:** The reviewer contacted the laboratory concerning a contractual non-compliance (see attached FAX Record Log).

10. **Other QC:**

    Field Duplicates: Provisional. Field duplicate results were consistent for most analytes. Chromium and lead differences exceeded twice the CRDL's, and RPD's exceeded 35 percent for aluminum and iron. The reviewer qualified all aluminum, chromium, iron, and lead sample results as estimated.

11. **Overall Assessment:** The data package is technically provisional because of the following problems.

    The reviewer qualified one selenium result and one thallium result as estimated because coefficients of variation were high.

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT Region 6 qualifiers assigned to results in the data review process.

U Undetected at the laboratory reported detection limit (IDL).

L Reported concentration is between the IDL and the CRDL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, FAA spike recovery, etc.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised detection limit because of apparent blank contamination.

^ Positive bias.

v Negative bias.

DATA SUMMARY

Case No.: 24517 SDG. No.: MFGH06 Reviewer: M. FERTITTA

Laboratory: CHEM Matrix: WATER Units: ug/L

EPA TR #=>	MFG-H06	FLAG	MFG-H07	FLAG	MFG-H08	FLAG	MFG-H09	FLAG	MFG-H18	FLAG	COMMENTS
ALUMINUM	7860	J	11700	J	5570	J	4420	J	1990	J	
ANTIMONY	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	
ARSENIC	8.1	L	12.8		7.1	L	9.5	L	6.8	L	
BARIUM	301		332		363		318		367		
BERYLLIUM	1.8	L	1.9	L	1.3	L	1.1	L	1.0	U	
CADMIUM	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	
CALCIUM	369000		410000		364000		266000		144000		
CHROMIUM	15.2	J	35.8	J	17.7	J	42.3	J	7.7	LJ	
COBALT	5.9	L	7.1	L	3.4	L	2.6	L	1.1	L	
COPPER	27.1		34.2		26.8		112		23.5	L	
IRON	3800	J	6410	J	3700	J	2770	J	1500	J	
LEAD	8.6	J	14.9	J	14.1	J	15.0	J	10.3	J	
MAGNESIUM	4430	L	5150		4260	L	3790	L	2750	L	
MANGANESE	237		271		503		842		100		
MERCURY	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	
NICKEL	21.4	L	35.0	L	37.6	L	217		19.0	L	
POTASSIUM	1720	L	2840	L	1700	L	2810	L	2500	L	
SELENIUM	4.0	U	4.0	UJ	4.0	U	4.0	U	4.0	U	
SILVER	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	
SODIUM	20700		20200		18100		31500		16700		
THALLIUM	6.0	U	6.0	U	6.0	U	6.0	UJ	6.0	U	
VANADIUM	22.3	L	30.3	L	18.7	L	18.0	L	10.1	L	
ZINC	41.4		61.4		113		153		59.1		
CYANIDE	7.0	U	7.0	U	11.2		7.0	U	7.0	U	

USEPA REGION: VI

INORGANIC REGIONAL ACCEPTANCE/REJECTION/REDUCED VALUE RECOMMENDATION FORM

LAB CODE: CHEM	CASE NO.: 24517	SDG NO.: MFGH06
SITE NAME: OLD BRAZOS FORGE		NUMBER OF SAMPLES: 8

FORM DUE DATE: 06/03/96

SDG MAILDATE: 05/07/96

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 PROCEESSED WITHOUT A SIGNATURE

NAME OF REGIONAL OFFICIAL: MAHMOUD ELFEKY

SIGNATURE: M. Elfeky DATE: 5-16-96

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

LAB CODE: CHEM	CASE NO.: 24517	SDG NO.: MFGH06

PART III. PARTIAL ACCEPTANCE AND REJECTION BY SAMPLE

ENTER AN "X" IN THE BLOCK TO THE RIGHT OF THE "Y" FOR THE FRACTION RECOMMENDED FOR REJECTION
ENTER A "D" IN THE BLOCK TO THE RIGHT OF THE "Y" FOR THE FRACTION RECOMMENDED FOR REDUCED VALUE.
ALL SAMPLES THAT ARE NOT MARKED WITH AN "X" OR A "D" ARE ACCEPTED.

SAMPLE	FRACTIONS ANALYZED METALS		CYANIDE	
LCSW	Y			
MFGH06	Y		Y	
MFGH07	Y		Y	
MFGH08	Y		Y	
MFGH09	Y		Y	
MFGH18	Y		Y	
MFGH18D	Y		Y	
MFGH18S	Y		Y	

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No.	24517	SDG No.	MFGH06	SDG Nos. To Follow	SAS No.	Date Rec	05/02/96

EPA Lab ID: CHEM

Lab Location: Englewood, NJ

Region: 6 Audit No.: 24517/MFGH06

Re_Submitted CSF? Yes _____ No X

Box No(s): ONE

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:	Michael J. Fertitta	Michael J. Fertitta/Data Reviewer	05/07/96
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

Lockheed Environmental Systems & Technologies Co. **I-1971**
ESAT Region 6

1200 Smith Street, Suite 800, Houston, TX 77002
Telephone: (713) 654-4844

FACSIMILE COVER SHEET

Please deliver the following pages to:

Name Divya Mehta

Firm CHEM

Address 110 Route 4

City Englewood **State** NJ 07631

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

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

Sender:

Name Michael J. Fertitta

Date May 13, 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) 654-4844.

MESSAGES:

Fax Model No. Xerox Telecopier 7033, (713) 654-4852

BOOKMARK

In Reference To
Case 24517 SDG MFGH06
ESAT File No. I-1971

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

FAX Record Log

Date of FAX: May 13, 1996
Laboratory Name: CHEM
Lab Contact: Divya Mehta
Region: 6
Regional Contact: Michael J. Fertitta-ESAT
FAX initiated by: _____ Laboratory ___X___ Region

In reference to data for the following samples:

MFG-H06	MFG-H18			
MFG-H07				
MFG-H08				
MFG-H09				

Summary of Questions/Issues:

ICP

The Interference Check True Solution AB (ICSAB) (pages 22 to 27) does not correspond to TABLE 2 on page E-21 of ILM04.0. Antimony, arsenic, selenium, and thallium are not present, and lead and silver concentrations are high. Please contact your ICSAB source (EPA-LV) for instructions concerning this matter and respond with the status of resolution.

The EPA expects the laboratory to look into the above items and submit the data within 7 days to:

Attn: Christy Macdowell - U.S. EPA
10625 Fallstone Road
Houston, TX 77099

If you have any questions, please contact me at (713) 654-4844.

Michael J. Fertitta — 05/13/96
Signature — Date

Distribution: (1) Lab Copy, (2) Region Copy

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MFGH06

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Matrix (soil/water): WATER Lab Sample ID: 3142S

Level (low/med): LOW Date Received: 03/28/96

% 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	7860			P
7440-36-0	Antimony	4.0	U		P
7440-38-2	Arsenic	8.1	B		P
7440-39-3	Barium	301			P
7440-41-7	Beryllium	1.8	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	369000			P
7440-47-3	Chromium	15.2			P
7440-48-4	Cobalt	5.9	B		P
7440-50-8	Copper	27.1			P
7439-89-6	Iron	3800			P
7439-92-1	Lead	8.6			P
7439-95-4	Magnesium	4430	B		P
7439-96-5	Manganese	237			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.4	B		P
7440-09-7	Potassium	1720	B		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	20700			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	22.3	B		P
7440-66-6	Zinc	41.4			P
	Cyanide	7.0	U		CA

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MFGH07

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Matrix (soil/water): WATER Lab Sample ID: 3141S

Level (low/med): LOW Date Received: 03/28/96

% 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	11700			P
7440-36-0	Antimony	4.0	U		P
7440-38-2	Arsenic	12.8			P
7440-39-3	Barium	332			P
7440-41-7	Beryllium	1.9	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	410000			P
7440-47-3	Chromium	35.8			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	34.2			P
7439-89-6	Iron	6410			P
7439-92-1	Lead	14.9			P
7439-95-4	Magnesium	5150			P
7439-96-5	Manganese	271			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	35.0	B		P
7440-09-7	Potassium	2840	B		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	20200			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	30.3	B		P
7440-66-6	Zinc	61.4			P
	Cyanide	7.0	U		CA

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MFGH08

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Matrix (soil/water): WATER Lab Sample ID: 3140S

Level (low/med): LOW Date Received: 03/28/96

% 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	5570			P
7440-36-0	Antimony	4.0	U		P
7440-38-2	Arsenic	7.1	B		P
7440-39-3	Barium	363			P
7440-41-7	Beryllium	1.3	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	364000			P
7440-47-3	Chromium	17.7			P
7440-48-4	Cobalt	3.4	B		P
7440-50-8	Copper	26.8			P
7439-89-6	Iron	3700			P
7439-92-1	Lead	14.1			P
7439-95-4	Magnesium	4260	B		P
7439-96-5	Manganese	503			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	37.6	B		P
7440-09-7	Potassium	1700	B		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	18100			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	18.7	B		P
7440-66-6	Zinc	113			P
	Cyanide	11.2			CA

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MFGH09

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Matrix (soil/water): WATER Lab Sample ID: 3139S

Level (low/med): LOW Date Received: 03/28/96

% 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	4420			P
7440-36-0	Antimony	4.0	U		P
7440-38-2	Arsenic	9.5	B		P
7440-39-3	Barium	318			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	266000			P
7440-47-3	Chromium	42.3			P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	112			P
7439-89-6	Iron	2770			P
7439-92-1	Lead	15.0			P
7439-95-4	Magnesium	3790	B		P
7439-96-5	Manganese	842			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	217			P
7440-09-7	Potassium	2810	B		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	31500			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	18.0	B		P
7440-66-6	Zinc	153			P
	Cyanide	7.0	U		CA

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MFGH18

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Matrix (soil/water): WATER Lab Sample ID: 3136S

Level (low/med): LOW Date Received: 03/28/96

% 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	1990			P
7440-36-0	Antimony	4.0	U		P
7440-38-2	Arsenic	6.8	B		P
7440-39-3	Barium	367			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	144000			P
7440-47-3	Chromium	7.7	B		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	23.5	B		P
7439-89-6	Iron	1500			P
7439-92-1	Lead	10.3			P
7439-95-4	Magnesium	2750	B		P
7439-96-5	Manganese	100			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	19.0	B		P
7440-09-7	Potassium	2500	B		P
7782-49-2	Selenium	4.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	16700			P
7440-28-0	Thallium	6.0	U		P
7440-62-2	Vanadium	10.1	B		P
7440-66-6	Zinc	59.1			P
	Cyanide	7.0	U		CA

Color Before: WHITE Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

ICP ID Number: P0 Date: 04/15/96

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	9.0	P
Antimony	206.80		60	4.0	P
Arsenic	189.00		10	5.0	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	16.0	P
Chromium	267.70		10	1.0	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	5.0	P
Iron	271.40		100	25.0	P
Lead	220.40		3	2.0	P
Magnesium	279.00		5000	6.0	P
Manganese	257.60		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.50		5000	29.0	P
Selenium	196.00		5	4.0	P
Silver	328.00		10	2.0	P
Sodium	588.90		5000	23.0	P
Thallium	190.90		10	6.0	P
Vanadium	292.40		50	1.0	P
Zinc	206.20		20	3.0	P
Cyanide			10		NR

Comments:
P0: ICP 61E TRACE ANALYZER

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

ICP ID Number: Date: 01/15/96

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	7.0	CA

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

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

ICP ID Number: Date: 04/15/96

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

R6

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

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

CASE NO. 24517 SDG NO. MFGH06
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	06	✓	✓
4.	Initial & Continuing Calibration Verification (Form IIA-IN)	07	12	✓	✓
5.	CRDL Standards For AA and ICP (Form IIB-IN)	13	17	✓	✓
6.	Blanks (Form III-IN)	18	21	✓	✓
7.	ICP Interference Check Sample (Form IV-IN)	22	27	✓	✓
8.	Spike Sample Recovery (Form VA-IN)	28	28	✓	✓
9.	Post Digest Spike Sample Recovery (Form VB-IN)	-	-	-	✓
10.	Duplicates (Form VI-IN)	29	29	✓	✓
11.	Laboratory Control Sample (Form VII-IN)	30	30	✓	✓
12.	Standard Addition Results (Form VIII-IN)	31	31	✓	✓
13.	ICP Serial Dilutions (Form IX-IN)	32	32	✓	✓
14.	Instrument Detection Limits (Form X-IN)	33	35	✓	✓
15.	ICP Interelement Correction Factors (Form XIA-IN)	36	36	✓	✓
16.	ICP Interelement Correction Factors (Form XIB-IN)	37	40	✓	✓
17.	ICP Linear Ranges (Form XII-IN)	41	41	✓	✓
18.	Preparation Log (Form XIII-IN)	42	44	✓	✓
19.	Analysis Run Log (Form XIV-IN)	45	51	✓	✓
20.	ICP Raw Data	52	178	✓	✓
21.	Furnace AA Raw Data	—	—	—	—
22.	Mercury Raw Data	179	185	✓	✓
23.	Cyanide Raw Data	186	188	✓	✓
24.	Preparation Logs Raw Data	189	197	✓	✓
25.	Percent Solids Determination Log	—	—	—	—

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
26. Traffic Report	198	198	✓	✓
27 EPA Shipping/Receiving Documents	—	—	—	—
Airbill (No. of Shipments 1)	199	199	✓	✓
Chain-of-Custody Records	198	198	✓	✓
Sample Tags	204	204	✓	✓
Sample Log-in Sheet (Lab & DCI)	200	202	✓	✓
SDG Cover Sheet	203	203	✓	✓
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) — 05/01/96 (Date)

Audited by (EPA):

Michael J. Fertitta (Signature) — MICHAEL J. FERTITTA DATA REVIEWER (Print Name & Title) — 5/7/96 (Date)

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

SOW No.: ILM04.0

EPA SAMPLE NO.	Lab Sample ID.
MFGH06	3142S
MFGH07	3141S
MFGH08	3140S
MFGH09	3139S
MFGH18	3136S
MFGH18D	3137S2
MFGH18S	3138DS

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: 4/30/96 Title: QA/QC OFFICER

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	1878.0	2028.21	108.0	25000.0	25777.40	103.1	25947.04	103.8	P
Antimony	970.0	981.00	101.1	500.0	502.71	100.5	505.54	101.1	P
Arsenic	50.9	49.22	96.7	500.0	513.82	102.8	523.87	104.8	P
Barium	1891.0	1960.66	103.7	500.0	491.94	98.4	497.45	99.5	P
Beryllium	478.0	455.04	95.2	100.0	99.71	99.7	102.16	102.2	P
Cadmium	493.0	476.13	96.6	500.0	491.17	98.2	499.60	99.9	P
Calcium	48810.0	51521.36	105.6	25000.0	26380.08	105.5	26977.54	107.9	P
Chromium	480.0	461.38	96.1	500.0	479.15	95.8	485.63	97.1	
Cobalt	487.0	507.68	104.2	500.0	477.32	95.5	490.96	98.2	P
Copper	486.0	493.42	101.5	500.0	485.80	97.2	502.95	100.6	P
Iron	1962.0	1891.44	96.4	10000.0	9840.52	98.4	10010.64	100.1	P
Lead	4739.0	4770.14	100.7	500.0	487.49	97.5	496.56	99.3	P
Magnesium	23859.0	25818.38	108.2	25000.0	26115.06	104.5	26570.96	106.3	P
Manganese	474.0	473.37	99.9	500.0	483.72	96.7	490.50	98.1	P
Mercury	4.9	4.68	95.5	5.0	5.34	106.8	5.23	104.6	CV
Nickel	488.0	461.82	94.6	500.0	480.09	96.0	487.82	97.6	P
Potassium	49182.0	48907.61	99.4	50000.0	46833.78	93.7	46823.68	93.6	P
Selenium	50.7	51.72	102.0	200.0	188.19	94.1	195.78	97.9	P
Silver	478.0	494.78	103.5	1000.0	1019.39	101.9	1030.38	103.0	P
Sodium	46804.0	48708.01	104.1	25000.0	25818.54	103.3	25682.77	102.7	P
Thallium	98.9	101.32	102.4	200.0	203.30	101.6	209.40	104.7	P
Vanadium	482.0	486.48	100.9	500.0	499.51	99.9	506.15	101.2	P
Zinc	2921.0	2804.15	96.0	500.0	495.16	99.0	509.04	101.8	P
Cyanide	90.0	91.40	101.6	500.0	477.50	95.5	483.20	96.6	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.: 24517 SAS No.: SDG No.: MFGH06

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	25365.87	101.5	25783.16	103.1	P
Antimony				500.0	493.74	98.7	515.78	103.2	P
Arsenic				500.0	513.28	102.7	518.93	103.8	P
Barium				500.0	480.16	96.0	505.46	101.1	P
Beryllium				100.0	99.22	99.2	101.48	101.5	P
Cadmium				500.0	486.94	97.4	496.90	99.4	P
Calcium				25000.0	26144.97	104.6	26079.22	104.3	P
Chromium				500.0	472.40	94.5	489.96	98.0	P
Cobalt				500.0	469.68	93.9	488.84	97.8	P
Copper				500.0	476.54	95.3	504.19	100.8	P
Iron				10000.0	9731.88	97.3	9865.20	98.7	P
Lead				500.0	481.31	96.3	492.18	98.4	P
Magnesium				25000.0	25841.80	103.4	26071.79	104.3	P
Manganese				500.0	477.10	95.4	495.05	99.0	P
Mercury				5.0	5.23	104.6	5.34	106.8	CV
Nickel				500.0	475.01	95.0	491.80	98.4	P
Potassium				50000.0	46134.70	92.3	47391.24	94.8	P
Selenium				200.0	194.18	97.1	194.76	97.4	P
Silver				1000.0	1006.00	100.6	1034.96	103.5	P
Sodium				25000.0	25129.19	100.5	26088.32	104.4	P
Thallium				200.0	202.36	101.2	209.11	104.6	P
Vanadium				500.0	490.54	98.1	513.44	102.7	P
Zinc				500.0	494.84	99.0	494.54	98.9	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.: 24517 SAS No.: SDG No.: MFGH06

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	26044.22	104.2	25567.11	102.3	P
Antimony				500.0	521.60	104.3	513.54	102.7	P
Arsenic				500.0	523.16	104.6	513.77	102.8	P
Barium				500.0	505.67	101.1	500.76	100.2	P
Beryllium				100.0	103.14	103.1	102.76	102.8	P
Cadmium				500.0	505.96	101.2	501.25	100.2	P
Calcium				25000.0	26893.87	107.6	26407.56	105.6	P
Chromium				500.0	495.28	99.1	491.86	98.4	P
Cobalt				500.0	493.30	98.7	487.96	97.6	P
Copper				500.0	507.89	101.6	503.94	100.8	P
Iron				10000.0	10047.51	100.5	9922.22	99.2	P
Lead				500.0	500.66	100.1	496.64	99.3	P
Magnesium				25000.0	26548.24	106.2	26175.56	104.7	P
Manganese				500.0	499.55	99.9	495.80	99.2	P
Mercury				5.0	5.23	104.6	5.23	104.6	CV
Nickel				500.0	497.03	99.4	494.10	98.8	P
Potassium				50000.0	48267.82	96.5	47554.79	95.1	P
Selenium				200.0	195.00	97.5	194.71	97.4	P
Silver				1000.0	1037.70	103.8	1022.15	102.2	P
Sodium				25000.0	26401.88	105.6	26015.32	104.1	P
Thallium				200.0	210.78	105.4	210.22	105.1	P
Vanadium				500.0	518.79	103.8	516.86	103.4	P
Zinc				500.0	506.82	101.4	504.80	101.0	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.: 24517 SAS No.: SDG No.: MFGH06

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	25657.40	102.6	25568.82	102.3	P
Antimony				500.0	515.50	103.1	519.76	104.0	P
Arsenic				500.0	514.62	102.9	508.36	101.7	P
Barium				500.0	499.36	99.9	499.94	100.0	P
Beryllium				100.0	103.86	103.9	103.62	103.6	P
Cadmium				500.0	507.44	101.5	502.19	100.4	P
Calcium				25000.0	27010.57	108.0	26644.28	106.6	P
Chromium				500.0	495.28	99.1	492.85	98.6	P
Cobalt				500.0	489.34	97.9	484.49	96.9	P
Copper				500.0	505.26	101.1	512.00	102.4	P
Iron				10000.0	10087.24	100.9	9979.41	99.8	P
Lead				500.0	499.99	100.0	495.65	99.1	P
Magnesium				25000.0	26449.93	105.8	26230.87	104.9	P
Manganese				500.0	497.84	99.6	495.40	99.1	P
Mercury									NR
Nickel				500.0	497.32	99.5	494.77	99.0	P
Potassium				50000.0	48098.94	96.2	49488.33	99.0	P
Selenium				200.0	192.26	96.1	196.80	98.4	P
Silver				1000.0	1021.60	102.2	1018.64	101.9	P
Sodium				25000.0	26182.06	104.7	26508.06	106.0	P
Thallium				200.0	204.22	102.1	206.54	103.3	P
Vanadium				500.0	519.54	103.9	519.06	103.8	P
Zinc				500.0	513.96	102.8	509.20	101.8	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.: 24517 SAS No.: SDG No.: MFGH06

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	25556.80	102.2	25925.24	103.7	P
Antimony				500.0	514.62	102.9	515.40	103.1	P
Arsenic				500.0	503.37	100.7	520.16	104.0	P
Barium				500.0	496.72	99.3	502.58	100.5	P
Beryllium				100.0	103.04	103.0	103.25	103.2	P
Cadmium				500.0	500.30	100.1	491.91	98.4	P
Calcium				25000.0	26754.99	107.0	25829.62	103.3	P
Chromium				500.0	489.36	97.9	484.49	96.9	P
Cobalt				500.0	480.53	96.1	482.98	96.6	P
Copper				500.0	510.92	102.2	499.93	100.0	P
Iron				10000.0	9984.42	99.8	9785.26	97.9	P
Lead				500.0	494.57	98.9	488.39	97.7	P
Magnesium				25000.0	26139.94	104.6	25931.10	103.7	P
Manganese				500.0	491.34	98.3	488.34	97.7	P
Mercury									NR
Nickel				500.0	491.04	98.2	485.32	97.1	P
Potassium				50000.0	49547.18	99.1	51846.14	103.7	P
Selenium				200.0	191.10	95.6	200.92	100.5	P
Silver				1000.0	1014.12	101.4	1031.84	103.2	P
Sodium				25000.0	26517.18	106.1	26632.24	106.5	P
Thallium				200.0	207.08	103.5	215.36	107.7	P
Vanadium				500.0	516.62	103.3	508.73	101.7	P
Zinc				500.0	509.21	101.8	477.95	95.6	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.: 24517 SAS No.: SDG No.: MFGH06

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	26800.24	107.2			P
Antimony				500.0	514.91	103.0			P
Arsenic				500.0	512.12	102.4			P
Barium				500.0	519.42	103.9			P
Beryllium				100.0	100.12	100.1			P
Cadmium				500.0	486.84	97.4			P
Calcium				25000.0	26835.86	107.3			P
Chromium				500.0	486.30	97.3			P
Cobalt				500.0	483.40	96.7			P
Copper				500.0	512.86	102.6			P
Iron				10000.0	10575.78	105.8			P
Lead				500.0	491.47	98.3			P
Magnesium				25000.0	26815.62	107.3			P
Manganese				500.0	492.22	98.4			P
Mercury									NR
Nickel				500.0	484.03	96.8			P
Potassium				50000.0	48171.70	96.3			P
Selenium				200.0	200.96	100.5			P
Silver				1000.0	1071.56	107.2			P
Sodium				25000.0	27151.69	108.6			P
Thallium				200.0	203.63	101.8			P
Vanadium				500.0	514.04	102.8			P
Zinc				500.0	474.98	95.0			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.: 24517 SAS No.: SDG No.: MFGH06

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				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony				120.0	126.52	105.4	117.12	97.6
Arsenic				20.0	20.74	103.7	22.54	112.7
Barium								
Beryllium				10.0	10.24	102.4	9.96	99.6
Cadmium				10.0	10.50	105.0	10.10	101.0
Calcium								
Chromium				20.0	20.96	104.8	20.28	101.4
Cobalt				100.0	106.03	106.0	102.83	102.8
Copper				50.0	55.87	111.7	53.79	107.6
Iron								
Lead				6.0	6.28	104.7	6.56	109.3
Magnesium								
Manganese				30.0	32.18	107.3	31.66	105.5
Mercury	0.2	0.26	130.0					
Nickel				80.0	84.82	106.0	82.50	103.1
Potassium								
Selenium				10.0	10.26	102.6	13.00	130.0
Silver				20.0	24.12	120.6	22.98	114.9
Sodium								
Thallium				20.0	18.74	93.7	20.26	101.3
Vanadium				100.0	107.50	107.5	103.86	103.9
Zinc				40.0	41.18	103.0	40.26	100.6

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.: 24517 SAS No.: SDG No.: MFGH06

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			123.96	103.3
Arsenic				20.0			23.58	117.9
Barium								
Beryllium				10.0			10.64	106.4
Cadmium				10.0			10.55	105.5
Calcium								
Chromium				20.0			21.32	106.6
Cobalt				100.0			107.16	107.2
Copper				50.0			56.63	113.3
Iron								
Lead				6.0			4.68	78.0
Magnesium								
Manganese				30.0			34.78	115.9
Mercury								
Nickel				80.0			85.85	107.3
Potassium								
Selenium				10.0			10.96	109.6
Silver				20.0			23.62	118.1
Sodium								
Thallium				20.0			28.72	143.6
Vanadium				100.0			108.42	108.4
Zinc				40.0			41.46	103.6

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.: 24517 SAS No.: SDG No.: MFGH06

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			123.46	102.9
Arsenic				20.0			20.96	104.8
Barium								
Beryllium				10.0			10.84	108.4
Cadmium				10.0			10.48	104.8
Calcium								
Chromium				20.0			21.38	106.9
Cobalt				100.0			105.88	105.9
Copper				50.0			56.02	112.0
Iron								
Lead				6.0			4.74	79.0
Magnesium								
Manganese				30.0			32.50	108.3
Mercury								
Nickel				80.0			84.94	106.2
Potassium								
Selenium				10.0			8.70	87.0
Silver				20.0			24.86	124.3
Sodium								
Thallium				20.0			17.08	85.4
Vanadium				100.0			108.80	108.8
Zinc				40.0			42.00	105.0

000015

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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.: 24517 SAS No.: SDG No.: MFGH06

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			121.20	101.0
Arsenic				20.0			18.08	90.4
Barium								
Beryllium				10.0			11.07	110.7
Cadmium				10.0			10.52	105.2
Calcium								
Chromium				20.0			21.29	106.4
Cobalt				100.0			104.20	104.2
Copper				50.0			56.02	112.0
Iron								
Lead				6.0			4.55	75.8
Magnesium								
Manganese				30.0			31.65	105.5
Mercury								
Nickel				80.0			85.04	106.3
Potassium								
Selenium				10.0			8.16	81.6
Silver				20.0			22.78	113.9
Sodium								
Thallium				20.0			22.53	112.6
Vanadium				100.0			108.40	108.4
Zinc				40.0			41.50	103.8

000015-A

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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.: 24517 SAS No.: SDG No.: MFGH06

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			119.24	99.4
Arsenic				20.0			21.30	106.5
Barium								
Beryllium				10.0			10.92	109.2
Cadmium				10.0			10.33	103.3
Calcium								
Chromium				20.0			20.85	104.2
Cobalt				100.0			104.34	104.3
Copper				50.0			54.12	108.2
Iron								
Lead				6.0			7.58	126.3
Magnesium								
Manganese				30.0			31.33	104.4
Mercury								
Nickel				80.0			83.23	104.0
Potassium								
Selenium				10.0			8.46	84.6
Silver				20.0			23.27	116.4
Sodium								
Thallium				20.0			23.20	116.0
Vanadium				100.0			105.78	105.8
Zinc				40.0			52.34	130.8

000016

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.: 24517 SAS No.: SDG No.: MFGH06

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			131.84	109.9
Arsenic				20.0			25.69	128.4
Barium								
Beryllium				10.0			11.06	110.6
Cadmium				10.0			11.09	110.9
Calcium								
Chromium				20.0			21.89	109.4
Cobalt				100.0			109.92	109.9
Copper				50.0			55.62	111.2
Iron								
Lead				6.0			7.13	118.8
Magnesium								
Manganese				30.0			33.30	111.0
Mercury								
Nickel				80.0			88.08	110.1
Potassium								
Selenium				10.0			11.31	113.1
Silver				20.0			23.75	118.8
Sodium								
Thallium				20.0			25.16	125.8
Vanadium				100.0			110.36	110.4
Zinc				40.0			43.78	109.4

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BLANKS

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	9.0	U	51.7	B	45.7	B	51.3	B	16.260	B	P
Antimony	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Arsenic	5.0	U	5.0	U	5.0	U	5.0	B	5.000	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	16.0	U	60.6	B	161.8	B	55.1	B	16.000	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	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Iron	25.0	U	25.0	U	25.0	U	25.0	U	25.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Magnesium	6.0	U	53.3	B	106.0	B	51.2	B	6.500	B	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	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium	29.0	U	29.0	U	29.0	U	29.0	U	29.000	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	-29.8	B	-24.5	B	-52.6	B	-69.2	B	-46.420	B	P
Thallium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cyanide	7.0	U	7.0	U	7.0	U			7.000	U	CA

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BLANKS

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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			59.1	B	138.7	B	71.2	B			P
Antimony			4.0	U	4.0	U	4.0	U			P
Arsenic			5.0	U	5.0	U	5.0	U			P
Barium			1.1	B	1.0	U	1.0	U			P
Beryllium			1.0	U	1.0	U	1.0	U			P
Cadmium			1.0	B	1.0	U	1.0	U			P
Calcium			16.0	U	104.3	B	16.0	U			P
Chromium			1.0	U	1.0	U	1.0	U			P
Cobalt			1.2	B	1.0	U	1.0	U			P
Copper			5.0	U	5.0	U	5.0	U			P
Iron			25.0	U	34.2	B	25.0	U			P
Lead			2.0	U	2.0	U	2.0	U			P
Magnesium			15.6	B	103.5	B	13.4	B			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury			0.2	U	0.2	U	0.2	U			CV
Nickel			1.1	B	1.0	U	1.0	U			P
Potassium			29.0	U	29.0	U	29.0	U			P
Selenium			4.0	U	4.0	U	4.0	U			P
Silver			2.0	U	2.0	U	2.0	U			P
Sodium			-68.8	B	-58.9	B	-65.5	B			P
Thallium			6.0	U	6.4	B	6.0	U			P
Vanadium			1.0	U	1.0	U	1.0	U			P
Zinc			3.0	U	3.0	U	3.0	U			P
Cyanide											NR

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U.S. EPA - CLP

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BLANKS

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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			120.3	B	75.2	B	149.4	B			P
Antimony			4.0	U	4.0	U	4.0	U			P
Arsenic			5.0	U	5.0	U	5.0	U			P
Barium			1.0	U	1.0	U	1.0	U			P
Beryllium			1.0	U	1.0	U	1.1	B			P
Cadmium			1.0	U	1.0	U	1.0	U			P
Calcium			72.8	B	20.4	B	100.5	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			5.0	U	5.0	U	5.0	U			P
Iron			25.0	U	25.0	U	31.2	B			P
Lead			2.0	U	2.0	U	2.0	U			P
Magnesium			68.4	B	11.8	B	101.8	B			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury											NR
Nickel			1.0	U	1.0	U	1.0	U			P
Potassium			29.0	U	-37.8	B	29.0	U			P
Selenium			4.0	U	4.0	U	4.0	U			P
Silver			2.0	U	2.0	U	2.0	U			P
Sodium			-55.6	B	-53.9	B	-58.1	B			P
Thallium			6.0	U	6.0	U	6.0	U			P
Vanadium			1.0	U	1.0	U	1.0	U			P
Zinc			3.0	U	3.0	U	3.0	U			P
Cyanide											NR

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U.S. EPA - CLP

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BLANKS

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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			79.4	B	50.0	B					P
Antimony			4.0	U	4.0	U					P
Arsenic			5.0	U	5.0	U					P
Barium			1.0	U	1.0	U					P
Beryllium			1.1	B	1.0	U					P
Cadmium			1.0	U	1.0	U					P
Calcium			16.0	U	34.4	B					P
Chromium			1.0	U	1.0	U					P
Cobalt			1.0	U	1.3	B					P
Copper			5.0	U	5.0	U					P
Iron			25.0	U	25.0	U					P
Lead			2.0	U	2.0	U					P
Magnesium			13.1	B	34.0	B					P
Manganese			1.0	U	1.0	U					P
Mercury											NR
Nickel			1.0	U	1.0	B					P
Potassium			-48.8	B	29.0	U					P
Selenium			4.0	U	4.0	U					P
Silver			2.0	U	2.0	U					P
Sodium			-42.8	B	23.0	U					P
Thallium			6.0	U	6.0	U					P
Vanadium			1.0	U	1.0	U					P
Zinc			3.0	U	3.0	U					P
Cyanide											NR

U.S. EPA - CLP

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ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	524232	524769	460750	472672.3	90.1	454108	463094.1	88.2
Antimony	0	0	-2	-3.9		-1	-3.2	
Arsenic	0	0	1	6.3		4	4.9	
Barium	0	485	2	468.5	96.6	2	442.8	91.3
Beryllium	0	477	0	436.0	91.4	0	414.4	86.9
Cadmium	0	899	4	821.1	91.3	4	788.8	87.7
Calcium	547885	548122	474267	481493.7	87.8	470619	466596.7	85.1
Chromium	21	468	19	440.4	94.1	19	424.5	90.7
Cobalt	0	474	-4	432.5	91.2	-4	415.5	87.7
Copper	0	507	0	542.4	107.0	0	513.1	101.2
Iron	190704	191319	162888	168401.0	88.0	161716	160375.0	83.8
Lead	0	4535	0	4228.1	93.2	0	4079.6	90.0
Magnesium	529826	529875	470207	484029.2	91.3	466267	468934.8	88.5
Manganese	0	454	1	431.6	95.1	1	414.4	91.3
Mercury								
Nickel	0	882	2	791.0	89.7	2	760.6	86.2
Potassium	0	0	46	41.5		53	38.3	
Selenium	0	0	-5	-5.0		-3	3.1	
Silver	0	889	0	961.1	108.1	0	927.2	104.3
Sodium	0	0	82	83.2		44	44.7	
Thallium	0	0	-9	-7.0		-9	-7.4	
Vanadium	0	465	1	448.5	96.5	1	428.8	92.2
Zinc	0	941	7	765.9	81.4	6	894.6	95.1

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ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	524232	524769				466314	476238.5	90.8
Antimony	0	0				2	-4.2	
Arsenic	0	0				0	3.9	
Barium	0	485				2	471.6	97.2
Beryllium	0	477				0	435.1	91.2
Cadmium	0	899				3	826.1	91.9
Calcium	547885	548122				490062	486921.1	88.8
Chromium	21	468				20	449.5	96.0
Cobalt	0	474				-4	438.3	92.5
Copper	0	507				0	552.2	108.9
Iron	190704	191319				167735	166824.9	87.2
Lead	0	4535				-4	4275.4	94.3
Magnesium	529826	529875				479368	482202.5	91.0
Manganese	0	454				3	438.9	96.7
Mercury								
Nickel	0	882				2	802.7	91.0
Potassium	0	0				50	32.9	
Selenium	0	0				-2	-6.1	
Silver	0	889				0	966.4	108.7
Sodium	0	0				49	46.4	
Thallium	0	0				-16	-7.9	
Vanadium	0	465				1	457.3	98.3
Zinc	0	941				7	923.7	98.2

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ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	524232	524769				460348	469357.2	89.4
Antimony	0	0				0	-5.2	
Arsenic	0	0				0	4.4	
Barium	0	485				2	463.7	95.6
Beryllium	0	477				1	435.6	91.3
Cadmium	0	899				3	827.0	92.0
Calcium	547885	548122				495143	487125.5	88.9
Chromium	21	468				20	447.5	95.6
Cobalt	0	474				-4	433.4	91.4
Copper	0	507				0	547.6	108.0
Iron	190704	191319				168605	166307.8	86.9
Lead	0	4535				-3	4256.0	93.8
Magnesium	529826	529875				479038	479569.1	90.5
Manganese	0	454				1	435.4	95.9
Mercury								
Nickel	0	882				2	800.1	90.7
Potassium	0	0				56	46.6	
Selenium	0	0				-2	-2.5	
Silver	0	889				0	948.2	106.7
Sodium	0	0				55	54.7	
Thallium	0	0				-15	-2.1	
Vanadium	0	465				1	456.2	98.1
Zinc	0	941				6	781.7	83.1

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4

ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	524232	524769				455960	463712.6	88.4
Antimony	0	0				0	1.4	
Arsenic	0	0				4	0.7	
Barium	0	485				2	460.4	94.9
Beryllium	0	477				1	429.7	90.1
Cadmium	0	899				4	814.5	90.6
Calcium	547885	548122				484845	479579.2	87.5
Chromium	21	468				20	441.4	94.3
Cobalt	0	474				-4	424.0	89.5
Copper	0	507				-1	552.0	108.9
Iron	190704	191319				166557	164503.3	86.0
Lead	0	4535				-5	4199.5	92.6
Magnesium	529826	529875				471479	471573.6	89.0
Manganese	0	454				1	428.5	94.4
Mercury								
Nickel	0	882				2	787.8	89.3
Potassium	0	0				56	21.8	
Selenium	0	0				-5	-7.3	
Silver	0	889				0	939.8	105.7
Sodium	0	0				61	43.1	
Thallium	0	0				-19	-9.3	
Vanadium	0	465				2	453.0	97.4
Zinc	0	941				8	805.7	85.6

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4

ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	524232	524769				455441	462230.7	88.1
Antimony	0	0				2	-3.7	
Arsenic	0	0				5	6.1	
Barium	0	485				2	462.7	95.4
Beryllium	0	477				0	405.5	85.0
Cadmium	0	899				3	765.5	85.2
Calcium	547885	548122				453075	444412.0	81.1
Chromium	21	468				19	424.1	90.6
Cobalt	0	474				-4	425.2	89.7
Copper	0	507				0	513.0	101.2
Iron	190704	191319				159245	156748.0	81.9
Lead	0	4535				0	4017.4	88.6
Magnesium	529826	529875				455626	455987.4	86.1
Manganese	0	454				1	417.2	91.9
Mercury								
Nickel	0	882				2	755.9	85.7
Potassium	0	0				34	38.4	
Selenium	0	0				3	-8.3	
Silver	0	889				0	958.1	107.8
Sodium	0	0				65	79.8	
Thallium	0	0				-9	-6.1	
Vanadium	0	465				1	430.0	92.5
Zinc	0	941				6	779.8	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.: 24517 SAS No.: SDG No.: MFGH06

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	524232	524769				467409	474377.0	90.4
Antimony	0	0				2	-3.8	
Arsenic	0	0				6	6.9	
Barium	0	485				2	467.6	96.4
Beryllium	0	477				0	451.5	94.7
Cadmium	0	899				4	851.3	94.7
Calcium	547885	548122				491998	482590.1	88.0
Chromium	21	468				20	447.1	95.5
Cobalt	0	474				-4	444.5	93.8
Copper	0	507				1	533.7	105.3
Iron	190704	191319				172674	169966.2	88.8
Lead	0	4535				-3	4343.9	95.8
Magnesium	529826	529875				491650	492039.5	92.9
Manganese	0	454				1	438.9	96.7
Mercury								
Nickel	0	882				2	810.3	91.9
Potassium	0	0				35	39.8	
Selenium	0	0				-4	-5.5	
Silver	0	889				0	965.3	108.6
Sodium	0	0				67	81.7	
Thallium	0	0				-9	-6.3	
Vanadium	0	465				1	452.1	97.2
Zinc	0	941				7	806.8	85.7

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MFGH18S

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	3753.4500		1989.9000		2000.00	88.2		P
Antimony	75-125	465.6900		4.0000	U	500.00	93.1		P
Arsenic	75-125	45.7800		6.8400	B	40.00	97.4		P
Barium	75-125	2336.4600		366.8600		2000.00	98.5		P
Beryllium	75-125	50.2300		1.0000	U	50.00	100.5		P
Cadmium	75-125	49.0400		1.0000	U	50.00	98.1		P
Calcium									NR
Chromium	75-125	192.5200		7.6800	B	200.00	92.4		P
Cobalt	75-125	450.6200		1.0800	B	500.00	89.9		P
Copper	75-125	270.7800		23.5200	B	250.00	98.9		P
Iron	75-125	2403.5200		1498.5200		1000.00	90.5		P
Lead	75-125	28.7800		10.2700		20.00	92.6		P
Magnesium									NR
Manganese	75-125	552.5400		100.0400		500.00	90.5		P
Mercury	75-125	0.9240		0.2000	U	1.00	92.4		CV
Nickel	75-125	461.0000		19.0100	B	500.00	88.4		P
Potassium									NR
Selenium	75-125	10.9200		4.0000	U	10.00	109.2		P
Silver	75-125	50.2200		2.0000	U	50.00	100.4		P
Sodium									NR
Thallium	75-125	55.8500		6.0000	U	50.00	111.7		P
Vanadium	75-125	464.4900		10.1000	B	500.00	90.9		P
Zinc	75-125	515.8500		59.1000		500.00	91.4		P
Cyanide	75-125	96.8000		7.0000	U	100.00	96.8		CA

Comments:

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DUPLICATES

EPA SAMPLE NO.

MFGH18D

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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		1989.9000		2000.2000		0.5		P
Antimony		4.0000	U	4.0000	U			P
Arsenic		6.8400	B	8.7800	B	24.8		P
Barium	200.0	366.8600		368.8600		0.5		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		1.0000	U	1.0000	U			P
Calcium		144364.8400		145783.1700		1.0		P
Chromium		7.6800	B	7.7600	B	1.0		P
Cobalt		1.0800	B	1.3800	B	24.4		P
Copper		23.5200	B	23.6500	B	0.6		P
Iron		1498.5200		1502.9600		0.3		P
Lead	3.0	10.2700		9.3400		9.5		P
Magnesium		2750.5800	B	2764.2600	B	0.5		P
Manganese		100.0400		100.7200		0.7		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		19.0100	B	19.2000	B	1.0		P
Potassium		2498.7000	B	2533.8500	B	1.4		P
Selenium		4.0000	U	4.0000	U			P
Silver		2.0000	U	2.0000	U			P
Sodium	5000.0	16668.3200		16732.2000		0.4		P
Thallium		6.0000	U	6.0000	U			P
Vanadium		10.1000	B	10.4600	B	3.5		P
Zinc	20.0	59.1000		59.6000		0.8		P
Cyanide		7.0000	U	7.0000	U			CA

7
LABORATORY CONTROL SAMPLE

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Solid LCS Source:

Aqueous LCS Source: EPA-LV

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	939.0	938.46	99.9						
Antimony	512.0	491.51	96.0						
Arsenic	50.0	50.78	101.6						
Barium	945.5	933.14	98.7						
Beryllium	239.0	229.75	96.1						
Cadmium	296.4	283.92	95.8						
Calcium	24405.0	25025.28	102.5						
Chromium	240.0	234.86	97.9						
Cobalt	243.5	231.32	95.0						
Copper	243.0	241.61	99.4						
Iron	981.0	942.52	96.1						
Lead	2419.5	2375.08	98.2						
Magnesium	11929.5	12314.06	103.2						
Manganese	237.0	233.58	98.6						
Mercury									
Nickel	244.0	233.40	95.7						
Potassium	24591.0	20769.02	84.5						
Selenium	50.0	59.85	119.7						
Silver	290.6	243.62	83.8						
Sodium	23402.0	22361.30	95.6						
Thallium	50.0	55.48	111.0						
Vanadium	241.0	238.20	98.8						
Zinc	1460.5	1416.54	97.0						
Cyanide									

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STANDARD ADDITION RESULTS

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MFGH18L

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	1989.90		2126.30		6.9		P
Antimony	4.00	U	20.00	U			P
Arsenic	6.84	B	25.00	U	100.0		P
Barium	366.86		376.00	B	2.5		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	144364.84		144306.50		0.0		P
Chromium	7.68	B	7.35	B	4.3		P
Cobalt	1.08	B	5.00	U	100.0		P
Copper	23.52	B	26.40	B	12.2		P
Iron	1498.52		1546.40		3.2		P
Lead	10.27		11.00	B	7.1		P
Magnesium	2750.58	B	2793.60	B	1.6		P
Manganese	100.04		102.85		2.8		P
Mercury							NR
Nickel	19.01	B	22.30	B	17.3		P
Potassium	2498.70	B	2541.30	B	1.7		P
Selenium	4.00	U	20.00	U			P
Silver	2.00	U	10.00	U			P
Sodium	16668.32		17095.70	B	2.6		P
Thallium	6.00	U	30.00	U			P
Vanadium	10.10	B	9.90	B	2.0		P
Zinc	59.10		70.10	B	18.6		P

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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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11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

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	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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.: 24517 SAS No.: SDG No.: MFGH06

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	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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.: 24517 SAS No.: SDG No.: MFGH06

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	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
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.: 24517 SAS No.: SDG No.: MFGH06

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	588.90	0.0000000	0.0000000			
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

U.S. EPA - CLP

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ICP LINEAR RANGES (QUARTERLY)

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

ICP ID Number: P0 Date: 04/15/96

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	10.00	600000.0	P
Antimony	10.00	44000.0	P
Arsenic	10.00	39000.0	P
Barium	10.00	47000.0	P
Beryllium	10.00	27000.0	P
Cadmium	10.00	46000.0	P
Calcium	10.00	1150000.0	P
Chromium	10.00	65000.0	P
Cobalt	10.00	53000.0	P
Copper	10.00	50000.0	P
Iron	10.00	1000000.0	P
Lead	10.00	50000.0	P
Magnesium	10.00	650000.0	P
Manganese	10.00	47000.0	P
Mercury			NR
Nickel	10.00	50000.0	P
Potassium	10.00	90000.0	P
Selenium	10.00	50000.0	P
Silver	10.00	50000.0	P
Sodium	10.00	80000.0	P
Thallium	10.00	50000.0	P
Vanadium	10.00	54000.0	P
Zinc	10.00	45000.0	P

Comments:
P0: ICP 61E TRACE ANALYZER

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PREPARATION LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MFGH06	04/04/96		50
MFGH07	04/04/96		50
MFGH08	04/04/96		50
MFGH09	04/04/96		50
MFGH18	04/04/96		50
MFGH18D	04/04/96		50
MFGH18S	04/04/96		50
PBW	04/04/96		50

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PREPARATION LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MFGH06	04/18/96		100
MFGH07	04/18/96		100
MFGH08	04/18/96		100
MFGH09	04/18/96		100
MFGH18	04/18/96		100
MFGH18D	04/18/96		100
MFGH18S	04/18/96		100
PBW	04/18/96		100

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PREPARATION LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	04/16/96		100
MFGH06	04/16/96		100
MFGH07	04/16/96		100
MFGH08	04/16/96		100
MFGH09	04/16/96		100
MFGH18	04/16/96		100
MFGH18D	04/16/96		100
MFGH18S	04/16/96		100
PBW	04/16/96		100

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ANALYSIS RUN LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Instrument ID Number: CN Method: CA

Start date: 04/04/96 End date: 04/04/96

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	1500																									X
S10.0	1.00	1502																									X
S100.0	1.00	1504																									X
S500.0	1.00	1506																									X
S1000.0	1.00	1508																									X
ICV	1.00	1510																									X
ICB	1.00	1512																									X
CCV	1.00	1514																									X
CCB	1.00	1516																									X
PBW	1.00	1518																									X
ZZZZZZ	1.00	1520																									
MFGH18	1.00	1522																									X
MFGH18D	1.00	1524																									X
MFGH18S	1.00	1526																									X
MFGH09	1.00	1528																									X
MFGH08	1.00	1530																									X
MFGH07	1.00	1532																									X
MFGH06	1.00	1534																									X
ZZZZZZ	1.00	1536																									
CCV	1.00	1538																									X
CCB	1.00	1540																									X

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ANALYSIS RUN LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Instrument ID Number: CV Method: CV

Start date: 04/18/96 End date: 04/18/96

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	1413																X									
S0.2	1.00	1415																X									
S0.5	1.00	1417																X									
S1.0	1.00	1419																X									
S5.0	1.00	1421																X									
S10.0	1.00	1423																X									
ICV	1.00	1425																X									
ICB	1.00	1427																X									
CCV	1.00	1429																X									
CCB	1.00	1431																X									
CRA	1.00	1433																X									
PBW	1.00	1435																X									
ZZZZZZ	1.00	1437																									
MFGH18	1.00	1439																X									
MFGH18D	1.00	1441																X									
MFGH18S	1.00	1443																X									
MFGH09	1.00	1445																X									
MFGH08	1.00	1447																X									
MFGH07	1.00	1449																X									
MFGH06	1.00	1451																X									
CCV	1.00	1453																X									
CCB	1.00	1455																X									
ZZZZZZ	1.00	1457																									
ZZZZZZ	1.00	1459																									
ZZZZZZ	1.00	1501																									
ZZZZZZ	1.00	1503																									
ZZZZZZ	1.00	1505																									
ZZZZZZ	1.00	1507																									
ZZZZZZ	1.00	1509																									
ZZZZZZ	1.00	1511																									
ZZZZZZ	1.00	1513																									
ZZZZZZ	1.00	1515																									

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ANALYSIS RUN LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Instrument ID Number: CV Method: CV

Start date: 04/18/96 End date: 04/18/96

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	1517																X									
CCB	1.00	1519																X									
ZZZZZZ	1.00	1521																									
ZZZZZZ	1.00	1523																									
ZZZZZZ	1.00	1525																									
ZZZZZZ	1.00	1527																									
ZZZZZZ	1.00	1529																									
ZZZZZZ	1.00	1531																									
ZZZZZZ	1.00	1533																									
ZZZZZZ	1.00	1535																									
ZZZZZZ	1.00	1537																									
ZZZZZZ	1.00	1539																									
CCV	1.00	1541																X									
CCB	1.00	1543																X									
ZZZZZZ	1.00	1545																									
ZZZZZZ	10.00	1547																									
ZZZZZZ	1.00	1549																									
ZZZZZZ	1.00	1551																									
ZZZZZZ	1.00	1553																									
ZZZZZZ	1.00	1555																									
ZZZZZZ	1.00	1557																									
ZZZZZZ	1.00	1559																									
ZZZZZZ	1.00	1601																									
ZZZZZZ	1.00	1603																									
CCV	1.00	1605																X									
CCB	1.00	1607																X									
ZZZZZZ	1.00	1719																									
ZZZZZZ	1.00	1721																									
ZZZZZZ	1.00	1723																									
CCV	1.00	1725																X									
CCB	1.00	1727																X									

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ANALYSIS RUN LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Instrument ID Number: P0 Method: P

Start date: 04/18/96 End date: 04/18/96

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	0639		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	0642			X	X	X	X	X		X	X	X		X		X		X						X	X	
S	1.00	0645		X						X				X		X				X			X				
S	1.00	0647																				X					
S	1.00	0649																			X			X			
ICV	1.00	0651		X			X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X	X	
ICV	1.00	0655				X															X						
ICV	1.00	0658			X																						
ICV	1.00	0702																						X			
ICB	1.00	0707		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	0711			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	0714		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	0719		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	0722		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	0725		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0728																									
ZZZZZZ	1.00	0734																									
ZZZZZZ	1.00	0737																									
ZZZZZZ	1.00	0741																									
PBW	1.00	0744		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0749																									
ZZZZZZ	1.00	0752																									
LCSW	1.00	0756		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0806																									
ZZZZZZ	1.00	0809																									
CCV	1.00	0812		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	0815		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0823																									
ZZZZZZ	1.00	0826																									
ZZZZZZ	1.00	0829																									
ZZZZZZ	1.00	0832																									
ZZZZZZ	1.00	0836																									

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ANALYSIS RUN LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Instrument ID Number: P0 Method: P

Start date: 04/18/96 End date: 04/18/96

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	0839																									
ZZZZZZ	1.00	0843																									
CRI	1.00	0846			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	0849		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	0852		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	0855		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	0858		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0905																									
ZZZZZZ	1.00	0908																									
ZZZZZZ	1.00	0921																									
ZZZZZZ	5.00	0929																									
ZZZZZZ	1.00	0932																									
ZZZZZZ	1.00	0935																									
ZZZZZZ	1.00	0938																									
ZZZZZZ	5.00	0954																									
ZZZZZZ	1.00	1000																									
ZZZZZZ	1.00	1004																									
CCV	1.00	1007		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1010		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1014																									
ZZZZZZ	1.00	1017																									
ZZZZZZ	1.00	1020																									
ZZZZZZ	1.00	1023																									
ZZZZZZ	1.00	1026																									
ZZZZZZ	1.00	1029																									
ZZZZZZ	1.00	1032																									
CRI	1.00	1039			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1042		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1045		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1048		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1050		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1054																									

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ANALYSIS RUN LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Instrument ID Number: P0 Method: P

Start date: 04/18/96 End date: 04/18/96

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	1057																									
ZZZZZZ	1.00	1100																									
ZZZZZZ	5.00	1109																									
MFGH18	1.00	1114		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	
MFGH18D	1.00	1117		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MFGH18S	1.00	1120		X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X	
MFGH18L	5.00	1131		X	X	X	X	X	X	X̄	X	X	X	X	X	X̄	X		X	X̄	X	X	X̄	X	X	X	
ZZZZZZ	1.00	1134																									
ZZZZZZ	1.00	1138																									
CCV	1.00	1141		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	
CCB	1.00	1144		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1147																									
ZZZZZZ	1.00	1150																									
ZZZZZZ	1.00	1153																									
ZZZZZZ	1.00	1156																									
ZZZZZZ	1.00	1200																									
MFGH09	1.00	1203		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	
MFGH08	1.00	1206		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1212			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1215		X̄	X	X	X̄	X	X	X̄	X	X	X	X̄	X	X̄	X		X	X̄	X	X	X̄	X	X	X	
ICSAB	1.00	1222		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1225		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1228		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1233																									
ZZZZZZ	1.00	1236																									
ZZZZZZ	1.00	1239																									
ZZZZZZ	5.00	1242																									
MFGH07	1.00	1247		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄		X̄	X̄	X̄	X̄	X̄	X̄	X̄	X̄	
MFGH06	1.00	1253		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1256																									
ZZZZZZ	1.00	1259																									
ZZZZZZ	1.00	1302																									

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ANALYSIS RUN LOG

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

Lab Code: CHEM Case No.: 24517 SAS No.: SDG No.: MFGH06

Instrument ID Number: P0 Method: P

Start date: 04/18/96 End date: 04/18/96

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	1307																									
CCV	1.00	1310		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1313		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1317																									
ZZZZZZ	1.00	1320																									
ZZZZZZ	1.00	1323																									
ZZZZZZ	1.00	1328																									
ZZZZZZ	1.00	1332																									
ZZZZZZ	1.00	1335																									
ZZZZZZ	10.00	1340																									
CRI	1.00	1344			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1347		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1350		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1353		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1355		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	10.00	1402																									
ZZZZZZ	1.00	1407																									
ZZZZZZ	20.00	1419																									
CRI	1.00	1427			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1431		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1436		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1439		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1441		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1444																									
ZZZZZZ	1.00	1447																									
CRI	1.00	1450			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1456		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1500		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1503		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1506		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

NB/ORIGINAL ICP RAW DATA W/ CASE # 24493
P. C52-178) SDG # MAJP.51

INSTRUMENT ID # PO

Standardization Rpt. Thu 04-18-96 06:39:33 AM page 1

Method: SOW40 Standard: STD1-Blank (SO)

Elem	As1890	Tl1908	Sb2068	K_7664	Al3082	Ba4934	Be3130
Avge	-.05083	-.07500	.02917	-.39833	2.1742	-.00083	.19167
SDev	.00825	.01886	.05068	.02357	.0153	.00118	.00000
%RSD	16.229	25.142	173.75	5.9172	.70466	141.42	.00000
#1	-.05667	-.06167	-.00667	-.41500	2.1850	.00000	.19167
#2	-.04500	-.08833	.06500	-.38167	2.1633	-.00167	.19167

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714	Mn2576
Avge	.06333	-.10583	.04333	.00250	.46083	.08000	.02750
SDev	.02121	.00118	.00236	.00118	.00118	.00471	.00118
%RSD	33.495	1.1136	5.4393	47.140	.25573	5.8926	4.2855
#1	.04833	-.10667	.04167	.00333	.46000	.08333	.02833
#2	.07833	-.10500	.04500	.00167	.46167	.07667	.02667

Elem	Mg2790	Ni2316	Ag3280	Na5889	V_2924	Zn2062	PB220351
Avge	.02250	-.03667	.01333	.15500	-.09250	.03417	.86167
SDev	.00354	.00236	.00707	.00000	.00825	.00118	.40776
%RSD	15.713	6.4282	53.033	.00000	8.9185	3.4493	47.323
#1	.02000	-.03500	.00833	.15500	-.08667	.03500	1.1500
#2	.02500	-.03833	.01833	.15500	-.09833	.03333	.57333

Elem	220352	SE196021	196022
Avge	.08833	-.07167	.18917
SDev	.28520	.03300	.04125
%RSD	322.87	46.044	21.805
#1	-.11333	-.09500	.16000
#2	.29000	-.04833	.21833

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Standardization Rpt. Thu 04-18-96 06:42:57 AM page 1

Method: SOW40 Standard: STD2 (S)

Elem	As1890	Sb2068	Ba4934	Be3130	Cd2265	Cr2677	Co2286
Avge	46.332	166.63	443.85	97.814	702.53	289.47	40.357
SDev	.177	.77	1.24	.553	3.36	1.12	.191
%RSD	.38155	.46325	.27826	.56508	.47759	.38677	.47307
#1	46.457	167.18	444.73	98.205	704.91	290.26	40.492
#2	46.207	166.09	442.98	97.423	700.16	288.68	40.222

Elem	Cu3247	Mn2576	Ni2316	V_2924	Zn2062	PB220351	220352
Avge	92.405	378.41	308.56	177.97	77.192	1028.2	1443.2
SDev	.356	1.49	1.34	.74	.387	3.7	5.3
%RSD	.38516	.39397	.43350	.41387	.50076	.36059	.36674
#1	92.657	379.46	309.51	178.49	77.465	1030.8	1446.9
#2	92.153	377.35	307.61	177.45	76.918	1025.6	1439.4

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Method: SOW40 Standard: STD3 (S)

Elem	K_7664	Al3082	Ca3179	Fe2714	Mg2790	Na5889
Avge	102.89	271.17	173.75	68.772	140.79	47.724
SDev	.77	.66	.53	.080	.30	.166
%RSD	.74793	.24164	.30658	.11653	.21094	.34819
#1	102.35	270.71	173.38	68.715	140.58	47.607
#2	103.44	271.64	174.13	68.828	141.00	47.842

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Standardization Rpt. Thu 04-18-96 06:47:05 AM page 1

Method: SOW40 Standard: STD4 (5)

Elem	Ag3280
Avge	93.633
SDev	.075
%RSD	.08055
#1	93.580
#2	93.687

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Standardization Rpt. Thu 04-18-96 06:49:54 AM page 1

Method: SOW40 Standard: STD5 (S)

Elem	Tl1908	SE196021	196022
Avge	7.0942	8.3567	15.743
SDev	.0577	.0283	.073
%RSD	.81401	.33846	.46412
#1	7.1350	8.3767	15.692
#2	7.0533	8.3367	15.795

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Analysis Report QC Standard Thu 04-18-96 06:53:57 AM page 1

Method: SOW40 Sample Name: ICV692 Operator: SJ
Run Time: 04/18/96 06:51:54
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	.00303	.00496	4.7702	-.02195	-.00241	48.908	2.0282
SDev	.00457	.00114	.0141	.00201	.00061	.273	.0033
%RSD	150.74	23.093	.29629	9.1434	25.320	.55873	.16171
#1	.00627	.00577	4.7801	-.02054	-.00284	48.714	2.0305
#2	-.00020	.00415	4.7602	-.02337	-.00198	49.101	2.0259

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9607	.45505	.47613	51.521	.46139	.50768	.49343
SDev	.0012	.00029	.00052	.037	.00085	.00015	.00051
%RSD	.06230	.06364	.10913	.07237	.18529	.02880	.10402
#1	1.9615	.45526	.47650	51.548	.46199	.50758	.49379
#2	1.9598	.45485	.47577	51.495	.46078	.50778	.49306

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.8914	.47338	25.818	.46182	.49478	48.708	.48648
SDev	.0043	.00098	.023	.00061	.00041	.027	.00030
%RSD	.22919	.20719	.08758	.13231	.08376	.05595	.06122
#1	1.8945	.47407	25.834	.46226	.49449	48.689	.48669
#2	1.8884	.47268	25.802	.46139	.49507	48.727	.48627

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	2.8042	4.7180	4.7958	-.00771	-.02897
SDev	.0025	.0110	.0157	.00252	.00176
%RSD	.08984	.23214	.32739	32.615	6.0653
#1	2.8059	4.7257	4.8070	-.00593	-.02773
#2	2.8024	4.7102	4.7847	-.00949	-.03021

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Analysis Report QC Standard Thu 04-18-96 06:57:20 AM page 1

Method: SOW40 Sample Name: ICV-2{692} Operator: SJ
Run Time: 04/18/96 06:55:18
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	.04923	.00175	.00194	.05173	.00262	.00202	.00418
SDev	.00445	.00081	.00052	.00342	.00290	.00628	.00263
%RSD	9.0325	45.902	26.916	6.6175	110.43	311.13	62.840
#1	.05237	.00232	.00231	.05415	.00058	.00645	.00604
#2	.04608	.00119	.00157	.04931	.00467	-.00242	.00232

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00069	.00015	.00041	.01078	.00026	.00072	.00068
SDev	.00003	.00000	.00014	.00136	.00033	.00029	.00026
%RSD	3.8746	.04241	34.982	12.571	125.70	40.399	37.857
#1	.00067	.00015	.00031	.00983	.00003	.00052	.00086
#2	.00070	.00015	.00051	.01174	.00049	.00093	.00050

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00371	.00035	.00326	.00030	.00003	-.01226	.00016
SDev	.00648	.00005	.00335	.00019	.00034	.00000	.00013
%RSD	174.65	13.238	102.77	64.282	1245.3	.00000	80.812
#1	.00087	.00032	.00089	.00016	-.00021	-.01226	.00026
#2	-.00830	.00039	.00563	.00043	.00027	-.01226	.00007

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00000	.00249	.00167	.04548	.05481
SDev	.00008	.00046	.00055	.00671	.00180
%RSD	34569.	18.527	33.091	14.757	3.2906
#1	-.00005	.00282	.00206	.05023	.05608
#2	.00005	.00217	.00128	.04074	.05353

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Analysis Report QC Standard Thu 04-18-96 07:00:27 AM page 1

Method: SOW40 Sample Name: ICV694 Operator: SJ
Run Time: 04/18/96 06:58:25
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	.00018	-.00304	.00269	-.00333	.98100	.18798	.03485
SDev	.00470	.00525	.00098	.00046	.00283	.00571	.00044
%RSD	2616.0	172.48	36.624	13.705	.28863	3.0348	1.2648
#1	-.00314	.00067	.00338	-.00301	.97900	.19201	.03453
#2	.00350	-.00675	.00199	-.00365	.98300	.18395	.03516

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00079	.00014	.00028	.06447	-.00010	.00062	.00159
SDev	.00012	.00001	.00014	.00203	.00018	.00015	.00026
%RSD	15.152	8.3724	51.534	3.1544	181.82	23.577	16.112
#1	.00087	.00014	.00018	.06591	.00003	.00052	.00141
#2	.00070	.00015	.00038	.06303	-.00023	.00072	.00177

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00919	.00051	.03464	.00078	.00048	.01226	.00030
SDev	.00494	.00005	.00251	.00023	.00008	.00248	.00013
%RSD	53.759	9.2286	7.2526	29.260	15.777	20.203	43.514
#1	.01269	.00054	.03641	.00095	.00054	.01401	.00040
#2	.00570	.00047	.03286	.00062	.00043	.01051	.00021

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00254	.00256	.00275	-.01048	.00019
SDev	.00000	.00095	.00100	.00475	.00166
%RSD	.00613	37.100	36.405	45.356	862.77
#1	.00254	.00324	.00345	-.00712	-.00098
#2	.00254	.00189	.00204	-.01384	.00137

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Analysis Report QC Standard Thu 04-18-96 07:06:55 AM page 1

Method: SOW40 Sample Name: ICV-4{692} Operator: SJ
Run Time: 04/18/96 07:02:41
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	.00162	.10132	.09619	-.00552	.00198	.00887	.06784
SDev	.00089	.00294	.00001	.00347	.00219	.02054	.00110
%RSD	54.999	2.9059	.00503	62.982	110.88	231.42	1.6183
#1	.00099	.10340	.09619	-.00797	.00353	.02340	.06706
#2	.00225	.09924	.09620	-.00306	.00043	-.00565	.06862

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00050	.00004	.09269	.07405	-.00007	.00041	.00576
SDev	.00011	.00001	.00024	.00136	.00018	.00044	.00026
%RSD	21.347	28.185	.26314	1.8307	254.83	106.05	4.4654
#1	.00057	.00005	.09252	.07501	.00006	.00072	.00594
#2	.00042	.00003	.09286	.07310	-.00020	.00010	.00558

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01551	.00008	.01066	.00024	.10826	.06482	.00016
SDev	.00587	.00003	.00126	.00031	.00091	.00000	.00013
%RSD	37.828	40.483	11.787	125.71	.83679	.00000	80.812
#1	.01966	.00010	.01154	.00046	.10762	.06482	.00026
#2	.01136	.00005	.00977	.00003	.10890	.06482	.00007

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00059	.09553	.09652	-.00692	-.00482
SDev	.00000	.00185	.00092	.00559	.00243
%RSD	.02619	1.9387	.95259	80.810	50.385
#1	.00059	.09684	.09587	-.01088	-.00654
#2	.00059	.09422	.09717	-.00297	-.00311

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Method: SOW40 Sample Name: ICB Operator: SJ
Run Time: 04/18/96 07:07:47
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	.00135	-.00055	.00031	-.00277	.00018	-.01815	.00062
SDev	.00178	.00804	.00089	.00169	.00120	.00856	.00592
%RSD	131.99	1452.8	286.06	60.974	672.87	47.140	950.29
#1	.00261	-.00624	.00094	-.00396	.00103	-.01210	.00481
#2	.00009	.00513	-.00032	-.00157	-.00067	-.02420	-.00356

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	.00001	.00011	.00288	-.00033	.00010	-.00032
SDev	.00008	.00001	.00020	.00102	.00002	.00058	.00013
%RSD	94.281	141.23	186.89	35.355	6.1213	565.24	40.411
#1	.00014	.00002	.00025	.00359	-.00032	-.00031	-.00041
#2	.00003	.00000	-.00003	.00216	-.00035	.00052	-.00023

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01114	-.00010	-.00000	.00014	-.00021	-.02978	-.00016
SDev	.00463	.00003	.00209	.00019	.00038	.00000	.00020
%RSD	41.599	31.417	253450.	141.42	176.63	.00000	121.22
#1	-.01441	-.00012	-.00148	.00027	-.00048	-.02978	-.00030
#2	-.00786	-.00008	.00148	.00000	.00005	-.02978	-.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00081	.00194	-.00049	-.00326	-.00252
SDev	.00015	.00137	.00066	.00014	.00259
%RSD	18.865	70.806	133.83	4.2927	102.54
#1	-.00092	.00291	-.00003	-.00316	-.00435
#2	-.00070	.00097	-.00095	-.00336	-.00069

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Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 04/18/96 07:11:27
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	.02075	.01875	.00629	.01027	.12652	-.00524	.00423
SDev	.00102	.00049	.00039	.00254	.00262	.00970	.00000
%RSD	4.8992	2.6337	6.1973	24.781	2.0708	184.94	.07706
#1	.02147	.01910	.00601	.00847	.12837	-.01210	.00423
#2	.02003	.01840	.00656	.01207	.12467	.00161	.00423

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.01025	.01050	.02660	.02096	.10604	.05588
SDev	.00001	.00001	.00018	.00000	.00026	.00029	.00026
%RSD	5.4393	.11698	1.6773	.00000	1.2624	.27536	.45885
#1	.00023	.01026	.01063	.02660	.02077	.10583	.05570
#2	.00025	.01024	.01038	.02660	.02115	.10624	.05606

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00154	.03218	.00352	.08482	.02412	-.00175	.10750
SDev	.00031	.00000	.00419	.00053	.00019	.00000	.00016
%RSD	20.341	.00029	118.78	.63034	.78527	.00000	.15392
#1	.00132	.03218	.00056	.08520	.02426	-.00175	.10762
#2	.00176	.03218	.00648	.08444	.02399	-.00175	.10738

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04119	.00544	.00670	.01128	.00977
SDev	.00076	.00169	.00025	.00741	.00015
%RSD	1.8548	30.970	3.7192	65.717	1.5063
#1	.04173	.00425	.00688	.00604	.00966
#2	.04065	.00664	.00652	.01652	.00987

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Method: SOW40 Sample Name: ICSA994 Operator: SJ
Run Time: 04/18/96 07:14:28
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	.00062	-.00941	-.00025	-.00523	-.00172	.04639	460.75
SDev	.00711	.00280	.00086	.00130	.00654	.00970	2.02
%RSD	1139.7	29.694	340.30	24.816	380.18	20.906	.43825
#1	-.00441	-.00744	-.00086	-.00431	-.00635	.05325	459.32
#2	.00565	-.01139	.00035	-.00615	.00291	.03953	462.18

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00188	-.00000	.00387	474.27	.01925	-.00393	-.00044
SDev	.00004	.00000	.00001	3.10	.00031	.00015	.00003
%RSD	2.1213	38.816	.26852	.65468	1.5879	3.7190	5.8257
#1	.00191	-.00000	.00387	472.07	.01903	-.00383	-.00042
#2	.00185	-.00000	.00388	476.46	.01946	-.00403	-.00046

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	162.89	.00128	470.21	.00193	.00035	.08234	.00119
SDev	.82	.00004	2.32	.00029	.00019	.00000	.00046
%RSD	.50372	2.8828	.49391	14.834	53.278	.00000	38.822
#1	162.31	.00130	468.56	.00173	.00048	.08234	.00087
#2	163.47	.00125	471.85	.00213	.00022	.08234	.00152

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00663	-.13014	.06372	.00564	-.01058
SDev	.00000	.00221	.00237	.00922	.00260
%RSD	.00392	1.7006	3.7226	163.35	24.602
#1	.00663	-.12857	.06204	.01216	-.01242
#2	.00663	-.13170	.06540	-.00088	-.00874

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Analysis Report QC Standard Thu 04-18-96 07:21:46 AM page 1

Method: SOW40 Sample Name: ICSAB691 Operator: SJ
Run Time: 04/18/96 07:19:15
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	.00627	-.00700	4.2281	-.00505	-.00394	.04155	472.67
SDev	.00737	.00377	.0227	.00228	.00396	.00742	3.40
%RSD	117.48	53.895	.53602	45.178	100.66	17.849	.71855
#1	.01148	-.00433	4.2121	-.00666	-.00674	.04679	470.27
#2	.00106	-.00966	4.2441	-.00343	-.00113	.03631	475.07

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46847	.43599	.82115	481.49	.44039	.43252	.54243
SDev	.00386	.00327	.00560	3.59	.00253	.00394	.00464
%RSD	.82466	.74995	.68137	.74502	.57346	.91139	.85517
#1	.46574	.43368	.81719	478.96	.43861	.42973	.53915
#2	.47120	.43830	.82511	484.03	.44218	.43531	.54571

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	168.40	.43163	484.03	.79100	.96113	.08321	.44853
SDev	1.22	.00263	2.96	.00473	.00522	.00372	.00374
%RSD	.72421	.60982	.61118	.59867	.54359	4.4659	.83372
#1	167.54	.42977	481.94	.78765	.95744	.08058	.44588
#2	169.26	.43349	486.12	.79435	.96483	.08584	.45117

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.76586	3.9661	4.3572	-.01003	-.00259
SDev	.00244	.0129	.0274	.00491	.00582
%RSD	.31882	.32643	.62998	48.900	224.61
#1	.76414	3.9569	4.3378	-.00656	-.00671
#2	.76759	3.9752	4.3766	-.01350	.00152

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Analysis Report QC Standard Thu 04-18-96 07:24:19 AM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 07:22:15
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	.51382	.20330	.48750	.18820	.50271	46.834	25.777
SDev	.00229	.00678	.00140	.00452	.00043	.390	.143
%RSD	.44491	3.3365	.28736	2.3999	.08527	.83318	.55642
#1	.51544	.20810	.48849	.18500	.50302	47.110	25.879
#2	.51220	.19850	.48651	.19139	.50241	46.558	25.676

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49194	.09971	.49117	26.380	.47916	.47732	.48581
SDev	.00285	.00046	.00150	.156	.00305	.00190	.00283
%RSD	.58021	.45882	.30452	.59100	.63742	.39753	.58181
#1	.49396	.10004	.49223	26.490	.48132	.47866	.48781
#2	.48992	.09939	.49012	26.270	.47700	.47598	.48381

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8405	.48372	26.115	.48009	1.0194	25.819	.49951
SDev	.0526	.00257	.123	.00223	.0062	.134	.00251
%RSD	.53409	.53087	.47135	.46535	.60471	.51816	.50349
#1	9.8777	.48554	26.202	.48167	1.0238	25.913	.50129
#2	9.8034	.48191	26.028	.47851	1.0150	25.724	.49773

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.49517	.47398	.49415	.29117	.13748
SDev	.00168	.00166	.00127	.00278	.00811
%RSD	.33878	.35072	.25743	.95630	5.9010
#1	.49636	.47516	.49505	.29314	.13174
#2	.49398	.47281	.49325	.28920	.14321

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Analysis Report QC Standard Thu 04-18-96 07:27:24 AM page 1

Method: SOW40 Sample Name: CCB1 Operator: SJ
Run Time: 04/18/96 07:25:20
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	.00009	.00450	.00098	.00324	.00070	-.00887	.05174
SDev	.00102	.00313	.00093	.00024	.00117	.00342	.00066
%RSD	1131.1	69.521	94.555	7.5263	166.66	38.569	1.2765
#1	-.00063	.00671	.00033	.00306	-.00013	-.01129	.05220
#2	.00081	.00229	.00164	.00341	.00153	-.00645	.05127

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00026	.00006	.00030	.06063	-.00010	.00010	-.00004
SDev	.00001	.00001	.00021	.00068	.00006	.00000	.00000
%RSD	5.0508	20.051	69.583	1.1180	60.473	.01462	.61976
#1	.00025	.00005	.00015	.06111	-.00006	.00010	-.00004
#2	.00027	.00007	.00045	.06015	-.00014	.00010	-.00004

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01336	.00012	.05328	.00030	.00005	-.02453	-.00009
SDev	.00216	.00000	.00544	.00004	.00000	.00000	.00017
%RSD	16.203	.04993	10.214	12.856	1.1164	.00000	176.78
#1	.01183	.00012	.04943	.00032	.00005	-.02453	-.00021
#2	.01489	.00012	.05713	.00027	.00005	-.02453	.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00059	.00108	.00093	.00197	.00386
SDev	.00061	.00201	.00040	.00837	.00449
%RSD	102.86	186.40	42.383	424.33	116.28
#1	-.00016	-.00034	.00065	.00789	.00069
#2	-.00103	.00250	.00121	-.00395	.00703

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Analysis Report QC Standard Thu 04-18-96 07:34:10 AM page 1

Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 04/18/96 07:28:17
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	.00449	-.00244	.00023	.00180	.00038	-.00161	.02881
SDev	.00165	.00312	.00038	.00348	.00021	.00342	.00636
%RSD	36.769	127.97	167.44	193.58	56.378	212.13	22.077
#1	.00332	-.00465	-.00004	-.00066	.00053	-.00403	.03330
#2	.00566	-.00023	.00050	.00425	.00023	.00081	.02431

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	-.00000	-.00002	.04002	-.00023	-.00010	-.00045
SDev	.00001	.00000	.00001	.00746	.00004	.00029	.00006
%RSD	5.8926	258.95	49.204	18.630	17.756	282.99	13.982
#1	.00022	.00000	-.00001	.04530	-.00026	-.00031	-.00041
#2	.00023	-.00000	-.00003	.03475	-.00020	.00010	-.00050

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00701	.00013	.03493	.00057	.00021	-.02803	.00014
SDev	.00679	.00002	.00628	.00004	.00038	.00248	.00036
%RSD	96.820	11.953	17.976	6.7344	176.98	8.8388	259.27
#1	.00221	.00012	.03937	.00054	-.00005	-.02628	-.00012
#2	.01181	.00014	.03049	.00059	.00048	-.02978	.00040

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00086	-.00115	.00091	-.00108	.00321
SDev	.00023	.00093	.00103	.00069	.00485
%RSD	26.527	81.029	113.35	64.232	150.82
#1	-.00070	-.00049	.00018	-.00157	-.00021
#2	-.00103	-.00181	.00163	-.00059	.00664

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Analysis Report QC Standard Thu 04-18-96 07:36:44 AM page 1

Method: SOW40 Sample Name: PBS Operator: SJ
Run Time: 04/18/96 07:34:38
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	.00296	.00883	.00081	-.00018	.00028	.00121	.01146
SDev	.00025	.00033	.00097	.00129	.00007	.00399	.00373
%RSD	8.5731	3.7172	119.94	721.97	26.632	329.98	32.533
#1	.00314	.00860	.00150	.00073	.00033	.00403	.01410
#2	.00278	.00907	.00012	-.00109	.00022	-.00161	.00883

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	-.00002	-.00002	.01917	-.00010	-.00031	-.00041
SDev	.00005	.00002	.00006	.00169	.00026	.00000	.00026
%RSD	43.514	142.28	318.04	8.8388	262.73	.02116	63.139
#1	.00008	.00000	-.00006	.02037	-.00029	-.00031	-.00059
#2	.00016	-.00003	.00002	.01797	.00009	-.00031	-.00023

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00394	.00001	.01184	.00031	.00027	-.03854	-.00002
SDev	.00679	.00000	.00042	.00017	.00045	.00248	.00026
%RSD	172.43	.45300	3.5355	55.339	169.40	6.4282	1131.4
#1	-.00086	.00001	.01214	.00043	.00059	-.03679	-.00021
#2	.00874	.00001	.01154	.00019	-.00005	-.04029	.00016

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00103	.00178	.00033	.00413	-.00230
SDev	.00015	.00196	.00048	.01112	.00356
%RSD	14.866	110.36	145.12	269.38	154.75
#1	-.00113	.00316	.00068	.01200	-.00482
#2	-.00092	.00039	-.00001	-.00374	.00022

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Analysis Report QC Standard Thu 04-18-96 07:40:56 AM page 1

Method: SOW40 Sample Name: PBS Operator: SJ
Run Time: 04/18/96 07:37:35
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	.00252	.00093	-.00004	.00347	.00083	-.00242	.01239
SDev	.00368	.00427	.00051	.00137	.00134	.01255	.00152
%RSD	146.47	459.52	1132.2	39.426	162.42	518.54	12.299
#1	.00512	-.00209	-.00040	.00444	.00178	.00645	.01132
#2	-.00009	.00395	.00031	.00250	-.00012	-.01129	.01347

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	-.00002	-.00015	.01414	-.00013	.00021	-.00041
SDev	.00001	.00000	.00005	.00068	.00010	.00044	.00026
%RSD	17.678	1.3396	33.057	4.7939	78.354	212.11	62.656
#1	.00007	-.00002	-.00019	.01462	-.00006	-.00010	-.00059
#2	.00008	-.00002	-.00012	.01366	-.00020	.00052	-.00023

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00196	-.00002	.00977	.00024	-.00013	-.04204	-.00012
SDev	.00525	.00002	.00168	.00031	.00026	.00000	.00046
%RSD	268.39	69.702	17.144	125.71	196.13	.00000	395.98
#1	.00176	-.00001	.01095	.00003	.00005	-.04204	-.00044
#2	-.00567	-.00003	.00858	.00046	-.00032	-.04204	.00021

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00076	.00140	-.00075	.00541	.00251
SDev	.00038	.00025	.00063	.00153	.00129
%RSD	50.504	18.086	84.008	28.287	51.225
#1	-.00049	.00122	-.00120	.00649	.00343
#2	-.00103	.00157	-.00031	.00433	.00160

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Analysis Report QC Standard Thu 04-18-96 07:43:26 AM page 1

Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 04/18/96 07:41:21
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	.00422	.00244	-.00041	-.00293	-.00082	-.01089	.01208
SDev	.00051	.00148	.00047	.00046	.00184	.00513	.00504
%RSD	12.036	60.611	113.83	15.525	223.21	47.140	41.708
#1	.00386	.00139	-.00008	-.00325	.00048	-.01452	.00852
#2	.00458	.00349	-.00074	-.00261	-.00212	-.00726	.01565

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00008	-.00002	-.00004	.01150	-.00013	.00000	-.00027
SDev	.00001	.00002	.00001	.00034	.00002	.00015	.00019
%RSD	17.678	142.28	18.790	2.9463	15.673	454840.	70.350
#1	.00007	-.00003	-.00004	.01126	-.00014	.00010	-.00041
#2	.00008	.00000	-.00005	.01174	-.00012	-.00010	-.00014

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00283	-.00004	.00858	.00005	-.00029	-.04555	-.00014
SDev	.00587	.00002	.00084	.00012	.00026	.00000	.00010
%RSD	207.15	35.294	9.7521	212.13	89.723	.00000	70.711
#1	.00132	-.00003	.00799	-.00003	-.00048	-.04555	-.00007
#2	-.00698	-.00006	.00918	.00014	-.00011	-.04555	-.00021

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00130	-.00135	.00006	-.00334	-.00273
SDev	.00053	.00145	.00002	.00000	.00068
%RSD	41.253	106.94	32.740	.00498	24.885
#1	-.00092	-.00033	.00004	-.00334	-.00321
#2	-.00167	-.00238	.00007	-.00334	-.00225

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Analysis Report QC Standard Thu 04-18-96 07:46:23 AM page 1

Method: SOW40 Sample Name: PBW Operator: SJ
Run Time: 04/18/96 07:44:17
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	.00494	.00500	-.00010	-.00221	.00285	.00040	.01626
SDev	.00457	.00378	.00018	.00034	.00032	.01084	.00044
%RSD	92.567	75.650	171.23	15.167	11.110	2687.0	2.6899
#1	.00817	.00232	-.00023	-.00197	.00263	.00807	.01657
#2	.00171	.00767	.00002	-.00245	.00308	-.00726	.01595

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00016	-.00001	-.00012	.01102	-.00007	.00010	-.00014
SDev	.00005	.00001	.00003	.00034	.00018	.00029	.00039
%RSD	33.276	140.85	20.948	3.0744	254.67	282.75	284.73
#1	.00020	-.00000	-.00014	.01078	-.00020	-.00010	.00014
#2	.00012	-.00002	-.00011	.01126	.00006	.00031	-.00041

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00393	-.00004	.00651	.00042	.00000	-.04642	.00005
SDev	.00926	.00002	.00293	.00025	.00015	.00124	.00003
%RSD	235.41	35.161	45.002	59.306	87960.	2.6683	70.711
#1	.01048	-.00006	.00444	.00024	.00011	-.04730	.00007
#2	-.00262	-.00003	.00858	.00059	-.00011	-.04555	.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00081	.00065	-.00048	-.00039	-.00310
SDev	.00015	.00043	.00005	.00083	.00091
%RSD	18.877	65.161	11.224	212.15	29.361
#1	-.00070	.00035	-.00051	-.00098	-.00246
#2	-.00092	.00096	-.00044	.00020	-.00375

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Analysis Report QC Standard Thu 04-18-96 07:51:26 AM page 1

Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 04/18/96 07:49:23
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	.05124	.05886	2.4017	.05799	.49532	21.084	.94679
SDev	.00000	.00362	.0059	.00008	.00280	.058	.00046
%RSD	.00010	6.1468	.24453	.14538	.56464	.27599	.04827
#1	.05124	.05630	2.4059	.05793	.49335	21.043	.94712
#2	.05124	Q.06142	2.3976	.05805	.49730	21.125	.94647

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93892	.23096	.28602	25.103	.23671	.23329	.24325
SDev	.00115	.00007	.00043	.002	.00020	.00044	.00026
%RSD	.12301	.03115	.14969	.00810	.08577	.18780	.10557
#1	.93973	.23091	.28572	25.104	.23685	.23298	.24343
#2	.93810	.23101	.28633	25.101	.23657	.23360	.24306

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94432	.23512	12.403	.23564	.24533	22.621	.23985
SDev	.00340	.00026	.003	.00012	.00020	.031	.00096
%RSD	.36033	.11256	.02023	.04862	.08318	.13691	.40012
#1	.94673	.23531	12.401	.23572	.24548	22.642	.23917
#2	.94191	.23493	12.405	.23556	.24519	22.599	.24053

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	1.4262	2.3865	2.4092	.06028	.05686
SDev	.0008	.0070	.0053	.00487	.00227
%RSD	.05891	.29174	.22149	8.0742	3.9941
#1	1.4256	2.3914	2.4130	.05683	.05847
#2	1.4268	2.3816	2.4055	.06372	.05526

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Analysis Report QC Standard Thu 04-18-96 07:55:08 AM page 1

Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 04/18/96 07:52:17
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	.05160	.05165	2.3850	.05819	.49188	20.811	.94030
SDev	.00280	.00195	.0048	.00498	.00018	.013	.00174
%RSD	5.4168	3.7834	.20177	8.5563	.03599	.06305	.18484
#1	.04962	.05303	2.3884	.05467	.49200	20.802	.94153
#2	.05357	.05026	2.3816	Q.06171	.49175	20.821	.93908

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93572	.23022	.28449	25.048	.23590	.23257	.24238
SDev	.00158	.00016	.00045	.047	.00004	.00146	.00045
%RSD	.16884	.06802	.15859	.18808	.01716	.62786	.18593
#1	.93684	.23033	.28481	25.082	.23588	.23360	.24270
#2	.93461	.23011	.28417	25.015	.23593	.23154	.24207

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94647	.23423	12.342	.23437	.24431	22.435	.23898
SDev	.01638	.00034	.025	.00053	.00112	.024	.00073
%RSD	1.7304	.14615	.20351	.22813	.45780	.10490	.30464
#1	.95805	.23447	12.360	.23475	.24352	22.452	.23950
#2	.93489	.23399	12.325	.23399	.24510	22.418	.23847

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	1.4198	2.3687	2.3930	.06283	.05590
SDev	.0073	.0051	.0047	.00403	.00544
%RSD	.51099	.21701	.19435	6.4196	9.7391
#1	1.4250	2.3723	2.3963	.05998	.05205
#2	1.4147	2.3650	2.3897	.06569	.05975

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Method: SOW40 Sample Name: LCSW Operator: SJ
Run Time: 04/18/96 07:56:41
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	.05079	.05548	2.3751	.05985	.49151	20.769	.93846
SDev	.00114	.00510	.0056	.00215	.00205	.123	.00044
%RSD	2.2511	9.1841	.23528	3.5952	.41682	.59331	.04634
#1	.04998	.05909	2.3790	.05833	.49007	20.682	.93815
#2	.05160	.05188	2.3711	Q.06137	.49296	20.856	.93877

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93314	.22976	.28392	25.025	.23487	.23133	.24161
SDev	.00005	.00016	.00008	.013	.00028	.00029	.00000
%RSD	.00569	.06835	.02662	.05282	.12142	.12628	.00005
#1	.93310	.22987	.28387	25.016	.23467	.23154	.24161
#2	.93318	.22965	.28398	25.035	.23507	.23112	.24161

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.94253	.23358	12.314	.23340	.24363	22.361	.23821
SDev	.00093	.00011	.004	.00096	.00092	.056	.00016
%RSD	.09818	.04669	.03399	.40906	.37576	.24929	.06947
#1	.94318	.23366	12.311	.23407	.24298	22.322	.23809
#2	.94188	.23350	12.317	.23272	.24427	22.401	.23833

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	1.4165	2.3584	2.3833	.06038	.05959
SDev	.0002	.0008	.0079	.00668	.00008
%RSD	.01076	.03576	.33253	11.055	.12731
#1	1.4164	2.3590	2.3889	.05566	.05965
#2	1.4167	2.3578	2.3777	.06510	.05954

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Analysis Report QC Standard Thu 04-18-96 08:08:40 AM page 1

Method: SOW40 Sample Name: LCSS Operator: SJ
Run Time: 04/18/96 08:06:16
Comment: LCSS
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5850	.20157	.99780	.22505	1.0617	.38847	1.6249
SDev	.0005	.01413	.00404	.00185	.0020	.01084	.0063
%RSD	.01107	7.0096	.40456	.82164	.18483	2.7902	.39070
#1	4.5854	.19158	1.0007	.22636	1.0631	.39613	1.6294
#2	4.5847	.21157	.99495	.22375	1.0603	.38080	1.6204

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02638	.08616	.18478	931.51	.45178	.69657	33.693
SDev	.00004	.00015	.00053	5.36	.00114	.00230	.017
%RSD	.15098	.17683	.28835	.57508	.25227	.33070	.05028
#1	.02641	.08626	.18516	935.30	.45258	.69820	33.705
#2	.02635	.08605	.18440	927.73	.45097	.69494	33.681

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.04	.93659	583.40	.26654	.11518	.45197	.31101
SDev	.19	.00148	.94	.00078	.00004	.00248	.00020
%RSD	.18922	.15803	.16123	.29372	.03229	.54814	.06385
#1	100.18	.93764	584.06	.26710	.11515	.45373	.31115
#2	99.910	.93555	582.73	.26599	.11521	.45022	.31086

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.75451	.94968	1.0215	.23519	.22006
SDev	.00305	.00476	.0037	.00112	.00331
%RSD	.40475	.50084	.36048	.47501	1.5042
#1	.75667	.95304	1.0241	.23440	.22240
#2	.75235	.94631	1.0189	.23598	.21772

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Method: SOW40 Sample Name: LCSS Operator: SJ
Run Time: 04/18/96 08:09:07
Comment: LCSS
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.5342	.19432	.98663	.21841	1.0476	.37556	1.6005
SDev	.0442	.00528	.00477	.00037	.0030	.01312	.0107
%RSD	.97503	2.7161	.48337	.17091	.28369	3.4938	.66914
#1	4.5655	.19805	.99000	.21815	1.0497	.36628	1.6081
#2	4.5029	.19059	.98326	.21867	1.0455	.38484	1.5929

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02587	.08524	.18258	921.23	.44671	.68992	33.394
SDev	.00015	.00042	.00121	6.49	.00179	.00261	.174
%RSD	.56445	.48791	.66185	.70457	.40093	.37798	.52239
#1	.02598	.08553	.18344	925.82	.44798	.69176	33.517
#2	.02577	.08495	.18173	916.64	.44544	.68808	33.270

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.112	.92709	575.86	.26353	.11426	.44059	.30785
SDev	.453	.00354	2.45	.00012	.00034	.00124	.00122
%RSD	.45715	.38218	.42481	.04348	.30099	.28116	.39773
#1	99.432	.92959	577.59	.26361	.11450	.44146	.30871
#2	98.791	.92458	574.13	.26345	.11402	.43971	.30698

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.74647	.93626	1.0114	.23050	.21246
SDev	.00069	.00496	.0047	.00140	.00013
%RSD	.09187	.53028	.46198	.60836	.06286
#1	.74695	.93977	1.0147	.22951	.21255
#2	.74598	.93275	1.0081	.23149	.21236

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Analysis Report QC Standard Thu 04-18-96 08:14:27 AM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 08:12:16
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	.52388	.20941	.49656	.19579	.50555	46.824	25.947
SDev	.00102	.00599	.00200	.00725	.00339	.776	.343
%RSD	.19420	2.8589	.40353	3.7035	.66971	1.6582	1.3210
#1	.52316	.20517	.49798	.19066	.50794	47.373	26.189
#2	.52460	.21364	.49515	.20092	.50315	46.275	25.705

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49745	.10216	.49961	26.978	.48564	.49097	.50296
SDev	.00542	.00078	.00338	.345	.00444	.00457	.00680
%RSD	1.0889	.76640	.67669	1.2777	.91395	.93077	1.3525
#1	.50128	.10271	.50200	27.221	.48877	.49420	.50777
#2	.49362	.10161	.49722	26.734	.48250	.48773	.49815

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.011	.49050	26.571	.48783	1.0304	25.683	.50616
SDev	.074	.00453	.278	.00378	.0102	.385	.00351
%RSD	.73570	.92312	1.0462	.77502	.99075	1.5000	.69302
#1	10.063	.49370	26.768	.49050	1.0376	25.955	.50864
#2	9.9586	.48730	26.374	.48515	1.0232	25.410	.50368

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.50904	.48416	.50267	.30682	.14111
SDev	.00206	.00220	.00191	.00752	.00712
%RSD	.40434	.45358	.37978	2.4500	5.0459
#1	.51050	.48572	.50402	.30150	.13607
#2	.50759	.48261	.50132	.31213	.14614

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Method: SOW40 Sample Name: CCB2 Operator: SJ
Run Time: 04/18/96 08:15:05
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	.00467	-.00095	.00130	-.00020	.00210	.00807	.04569
SDev	.00114	.00031	.00064	.00097	.00018	.00571	.00920
%RSD	24.478	32.887	49.009	495.30	8.5153	70.711	20.138
#1	.00386	-.00073	.00085	.00049	.00197	.00403	.05220
#2	.00548	-.00117	.00175	-.00088	.00223	.01210	.03918

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	.00011	.00009	.16177	.00004	.00012	.00472
SDev	.00005	.00006	.00018	.06372	.00014	.00030	.00225
%RSD	12.036	54.464	197.70	39.388	330.17	259.08	47.603
#1	.00048	.00015	.00022	.20683	.00014	.00033	.00630
#2	.00040	.00007	-.00004	.11671	-.00006	-.00010	.00313

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02103	.00046	.10597	.00058	.00053	-.05256	.00023
SDev	.01361	.00017	.03558	.00002	.00023	.00248	.00003
%RSD	64.721	37.047	33.578	3.2889	42.338	4.7140	14.142
#1	.03066	.00058	.13113	.00057	.00069	-.05080	.00021
#2	.01141	.00034	.08081	.00059	.00037	-.05431	.00026

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00103	.00143	.00123	.00846	-.00446
SDev	.00076	.00094	.00049	.00807	.00542
%RSD	74.423	65.733	39.487	95.392	121.58
#1	.00157	.00076	.00089	.00275	-.00063
#2	.00049	.00209	.00158	.01416	-.00829

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Method: SOW40 Sample Name: 3210 Operator: SJ
Run Time: 04/18/96 08:23:22
Comment: MJK647
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02540	-.00220	.02169	.00016	.00019	4.4599	115.08
SDev	.00051	.00246	.00037	.00162	.00022	.0411	.05
%RSD	2.0011	111.91	1.6997	1035.2	111.94	.92098	.04092
#1	.02504	-.00394	.02143	-.00099	.00004	4.4889	115.11
#2	.02575	-.00046	.02195	.00131	.00035	4.4309	115.05

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.40641	.00270	-.00012	10.052	.11452	.05315	.10279
SDev	.00034	.00002	.00002	.017	.00008	.00058	.00020
%RSD	.08493	.88635	13.254	.17195	.07117	1.0990	.19778
#1	.40666	.00272	-.00011	10.065	.11458	.05356	.10293
#2	.40617	.00268	-.00013	10.040	.11447	.05273	.10264

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	116.08	4.7592	17.549	.05547	.00056	.68059	.27223
SDev	.09	.0004	.009	.00012	.00015	.01115	.00043
%RSD	.07610	.00850	.05250	.20655	27.165	1.6381	.15803
#1	116.14	4.7595	17.555	.05555	.00067	.67270	.27254
#2	116.01	4.7589	17.542	.05539	.00045	.68847	.27193

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.22531	-.01208	.03832	.01212	-.00573
SDev	.00008	.00207	.00047	.00055	.00270
%RSD	.03393	17.142	1.2260	4.5730	47.058
#1	.22525	-.01354	.03865	.01251	-.00764
#2	.22536	-.01062	.03799	.01173	-.00383

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Method: SOW40 Sample Name: 3211 Operator: SJ
Run Time: 04/18/96 08:26:20
Comment: MJK648
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02493	-.00244	.03565	-.00167	.00058	6.6523	128.03
SDev	.00445	.00655	.00082	.00036	.00028	.0177	.14
%RSD	17.838	268.96	2.2883	21.820	47.388	.26584	.11237
#1	.02178	.00220	.03508	-.00141	.00039	6.6648	127.93
#2	.02807	-.00707	.03623	-.00192	.00077	6.6398	128.13

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52404	.00222	.00020	21.685	.19587	.08792	.29219
SDev	.00074	.00000	.00005	.031	.00075	.00015	.00052
%RSD	.14187	.03969	26.775	.14380	.38419	.16587	.17714
#1	.52351	.00222	.00016	21.663	.19534	.08782	.29183
#2	.52456	.00221	.00024	21.707	.19640	.08803	.29256

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	165.58	2.5932	29.343	.12403	.00074	1.9086	.49385
SDev	.04	.0046	.051	.00008	.00012	.0037	.00179
%RSD	.02352	.17834	.17418	.06158	16.125	.19470	.36185
#1	165.55	2.5899	29.307	.12398	.00066	1.9060	.49259
#2	165.61	2.5965	29.379	.12408	.00082	1.9113	.49511

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.37634	-.00125	.05383	.00842	-.00663
SDev	.00160	.00067	.00089	.00404	.00145
%RSD	.42599	53.398	1.6512	47.976	21.804
#1	.37520	-.00172	.05320	.01128	-.00766
#2	.37747	-.00078	.05446	.00556	-.00561

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Method: SOW40 Sample Name: 3215 Operator: SJ
Run Time: 04/18/96 08:29:44
Comment: MJK650
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01146	.00441	.00829	-.00784	.00233	2.6325	127.89
SDev	.00241	.00458	.00002	.00402	.00107	.0068	.11
%RSD	21.059	103.92	.22290	51.262	45.778	.26005	.08837
#1	.01317	.00764	.00831	-.00500	.00308	2.6277	127.81
#2	.00976	.00117	.00828	-.01069	.00157	2.6374	127.97

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48017	.00103	.00070	32.650	.14933	.12469	.36089
SDev	.00057	.00001	.00013	.025	.00053	.00044	.00013
%RSD	.11889	1.1197	19.034	.07785	.35369	.35143	.03531
#1	.47977	.00102	.00080	32.632	.14896	.12500	.36080
#2	.48057	.00104	.00061	32.668	.14970	.12438	.36098

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	205.43	2.9857	41.045	.14370	.00162	3.4222	.66191
SDev	.01	.0048	.068	.00010	.00026	.0012	.00106
%RSD	.00284	.16114	.16533	.06645	16.083	.03619	.15998
#1	205.43	2.9823	40.997	.14363	.00181	3.4213	.66116
#2	205.42	2.9891	41.093	.14377	.00144	3.4231	.66266

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.41326	-.02687	.02561	.00236	-.01287
SDev	.00046	.00037	.00015	.00849	.00182
%RSD	.11077	1.3636	.59678	360.10	14.153
#1	.41294	-.02661	.02551	.00836	-.01158
#2	.41358	-.02713	.02572	-.00364	-.01416

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Analysis Report Thu 04-18-96 08:36:05 AM page 1

Method: SOW40 Sample Name: 3216 Operator: SJ
Run Time: 04/18/96 08:32:40
Comment: MJK662
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02133	.00112	.02903	-.00265	.00104	8.7951	127.20
SDev	.00292	.00740	.00209	.00686	.00152	.0565	.20
%RSD	13.696	661.32	7.2036	258.58	145.02	.64214	.15360
#1	.02340	-.00411	.03051	.00220	.00212	8.8351	127.34
#2	.01927	.00635	.02755	-.00750	-.00003	8.7552	127.07

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.56273	.00234	.00018	16.264	.19111	.07367	.24297
SDev	.00034	.00001	.00007	.006	.00004	.00015	.00024
%RSD	.06134	.51850	37.749	.03751	.02138	.19818	.09802
#1	.56298	.00233	.00013	16.268	.19113	.07378	.24280
#2	.56249	.00235	.00022	16.259	.19108	.07357	.24314

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	153.91	2.2251	26.108	.11509	.00090	1.6108	.40159
SDev	.15	.0003	.017	.00088	.00023	.0037	.00010
%RSD	.09450	.01189	.06415	.76319	25.242	.23071	.02472
#1	154.02	2.2250	26.096	.11447	.00106	1.6134	.40166
#2	153.81	2.2253	26.120	.11571	.00074	1.6082	.40152

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.36133	-.00975	.04813	.01681	-.01224
SDev	.00237	.00149	.00385	.00918	.00572
%RSD	.65522	15.263	8.0076	54.590	46.738
#1	.35965	-.01080	.05085	.02330	-.00819
#2	.36300	-.00869	.04540	.01032	-.01628

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Analysis Report Thu 04-18-96 08:39:03 AM page 1

Method: SOW40 Sample Name: 3217 Operator: SJ
Run Time: 04/18/96 08:36:39
Comment: MJK663
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01801	-.00018	.03201	-.00388	.00232	6.6560	134.88
SDev	.00534	.00197	.00091	.00419	.00184	.0365	.30
%RSD	29.630	1100.3	2.8308	107.87	79.365	.54855	.21989
#1	.01423	.00121	.03137	-.00092	.00102	6.6301	134.67
#2	.02178	-.00157	.03265	-.00684	.00362	6.6818	135.09

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52610	.00232	.00014	22.241	.20356	.08658	.30929
SDev	.00098	.00001	.00009	.008	.00055	.00029	.00024
%RSD	.18673	.50075	63.675	.03809	.26998	.33747	.07883
#1	.52541	.00231	.00007	22.235	.20318	.08679	.30912
#2	.52680	.00233	.00020	22.247	.20395	.08637	.30947

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	173.31	2.6674	29.629	.12812	.00068	1.9472	.50085
SDev	.10	.0016	.021	.00032	.00030	.0087	.00089
%RSD	.05790	.05954	.07210	.25337	44.169	.44532	.17840
#1	173.38	2.6663	29.614	.12835	.00089	1.9410	.50022
#2	173.24	2.6685	29.644	.12789	.00047	1.9533	.50148

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.35667	-.00821	.05182	.00743	-.00945
SDev	.00053	.00125	.00197	.00709	.00276
%RSD	.15002	15.196	3.7955	95.502	29.159
#1	.35705	-.00733	.05043	.01244	-.00750
#2	.35629	-.00909	.05321	.00241	-.01140

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Analysis Report Thu 04-18-96 08:41:38 AM page 1

Method: SOW40 Sample Name: 3218 Operator: SJ
Run Time: 04/18/96 08:39:34
Comment: MJK664
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02170	.00304	.02756	.00046	.00204	8.4321	134.31
SDev	.00013	.00001	.00166	.00783	.00291	.0188	.20
%RSD	.58592	.35753	6.0325	1706.8	142.23	.22327	.15103
#1	.02179	.00305	.02873	-.00508	-.00001	8.4188	134.45
#2	.02161	.00304	.02638	.00600	.00410	8.4454	134.16

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.59921	.00245	.00008	17.987	.17904	.08555	.25023
SDev	.00072	.00000	.00030	.018	.00035	.00029	.00016
%RSD	.11964	.00666	368.70	.09987	.19363	.34146	.06384
#1	.59972	.00245	-.00013	18.000	.17880	.08576	.25012
#2	.59870	.00245	.00029	17.974	.17929	.08535	.25034

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	162.33	2.5626	30.815	.11995	.00088	2.6216	.44162
SDev	.26	.0020	.022	.00031	.00041	.0062	.00033
%RSD	.16019	.07960	.07070	.25470	47.314	.23626	.07493
#1	162.51	2.5640	30.831	.12017	.00058	2.6260	.44186
#2	162.14	2.5611	30.800	.11974	.00117	2.6172	.44139

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.37457	-.00933	.04573	.00942	-.00395
SDev	.00092	.00100	.00199	.01697	.00333
%RSD	.24474	10.736	4.3466	180.21	84.204
#1	.37522	-.00862	.04713	-.00258	-.00631
#2	.37392	-.01004	.04432	.02142	-.00160

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Analysis Report Thu 04-18-96 08:46:00 AM page 1

Method: SOW40 Sample Name: 3219 Operator: SJ
Run Time: 04/18/96 08:43:32
Comment: MJK668
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01363	.00042	.00781	-.01128	-.00067	2.4881	95.960
SDev	.00089	.00304	.00092	.00065	.00199	.0171	.419
%RSD	6.5240	730.33	11.784	5.7642	297.13	.68785	.43710
#1	.01426	-.00173	.00716	-.01082	.00074	2.4760	96.256
#2	.01300	.00256	.00846	-.01174	-.00208	2.5002	95.663

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.84908	.00093	.00037	27.576	.10422	.11469	.18925
SDev	.00538	.00004	.00003	.132	.00040	.00058	.00122
%RSD	.63324	4.0567	6.7288	.47688	.38646	.50920	.64263
#1	.85288	.00090	.00039	27.669	.10451	.11510	.19011
#2	.84528	.00095	.00035	27.483	.10394	.11427	.18839

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	211.38	3.0104	40.258	.12107	.00149	2.2091	.52862
SDev	1.53	.0162	.196	.00002	.00029	.0050	.00278
%RSD	.72189	.53895	.48696	.01577	19.707	.22430	.52584
#1	212.46	3.0218	40.397	.12109	.00128	2.2126	.53059
#2	210.31	2.9989	40.120	.12106	.00170	2.2056	.52666

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.44262	-.02557	.02425	.00457	-.01908
SDev	.00237	.00234	.00022	.00552	.00175
%RSD	.53480	9.1468	.91073	120.75	9.1602
#1	.44429	-.02723	.02409	.00847	-.02032
#2	.44095	-.02392	.02440	.00067	-.01785

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Analysis Report Thu 04-18-96 08:48:22 AM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 04/18/96 08:46:19
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	.02254	.02027	.00657	.01300	.11712	.00121	.02614
SDev	.00076	.00099	.00017	.00330	.00071	.00285	.00285
%RSD	3.3813	4.8707	2.5976	25.359	.60418	235.70	10.902
#1	.02200	.02096	.00645	.01533	.11762	-.00081	.02816
#2	.02308	.01957	.00669	.01067	.11662	.00323	.02413

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	.00996	.01010	.03307	.02028	.10283	.05380
SDev	.00005	.00001	.00002	.00034	.00000	.00044	.00000
%RSD	18.248	.12053	.17513	1.0248	.00052	.42598	.00194
#1	.00033	.00995	.01012	.03331	.02028	.10252	.05380
#2	.00025	.00997	.01009	.03283	.02028	.10314	.05380

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03476	.03166	.00855	.08250	.02299	-.02978	.10387
SDev	.00834	.00011	.00042	.00084	.00004	.00000	.00013
%RSD	23.985	.34422	4.8844	1.0184	.16219	.00000	.12743
#1	.02887	.03174	.00826	.08190	.02301	-.02978	.10378
#2	.04066	.03159	.00885	.08309	.02296	-.02978	.10396

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04027	.00672	.00649	.01692	.01107
SDev	.00038	.00037	.00044	.01015	.00008
%RSD	.94828	5.4596	6.7083	59.997	.70678
#1	.04000	.00698	.00618	.02410	.01102
#2	.04054	.00646	.00680	.00974	.01113

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Analysis Report Thu 04-18-96 08:51:12 AM page 1

Method: SOW40 Sample Name: ICSA994 Operator: SJ
Run Time: 04/18/96 08:49:06
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	.00422	-.00883	.00035	-.00290	-.00110	.05325	454.11
SDev	.00051	.00460	.00158	.00441	.00010	.01141	.15
%RSD	12.052	52.110	448.42	152.24	9.1781	21.427	.03271
#1	.00458	-.01209	-.00076	-.00601	-.00117	.06132	454.00
#2	.00386	-.00558	.00147	.00022	-.00103	.04518	454.21

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00188	-.00001	.00353	470.62	.01919	-.00393	-.00031
SDev	.00007	.00001	.00004	.32	.00047	.00044	.00013
%RSD	3.5355	134.33	1.1630	.06849	2.4401	11.154	40.490
#1	.00192	-.00000	.00351	470.39	.01886	-.00362	-.00022
#2	.00183	-.00002	.00356	470.85	.01952	-.00424	-.00040

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	161.72	.00136	466.27	.00192	.00038	.04380	.00084
SDev	.01	.00010	.23	.00000	.00008	.00000	.00010
%RSD	.00467	7.1230	.04893	.00000	20.140	.00000	11.785
#1	161.71	.00143	466.11	.00192	.00043	.04380	.00091
#2	161.72	.00129	466.43	.00192	.00032	.04380	.00077

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00636	-.12756	.06335	.02147	-.01490
SDev	.00099	.00249	.00113	.01766	.00212
%RSD	15.627	1.9500	1.7820	82.260	14.206
#1	.00706	-.12932	.06256	.00898	-.01340
#2	.00565	-.12580	.06415	.03396	-.01639

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Analysis Report QC Standard Thu 04-18-96 08:54:11 AM page 1

Method: SOW40 Sample Name: ICSAB691 Operator: SJ
Run Time: 04/18/96 08:52:03
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	.00493	-.00741	4.0796	.00309	-.00321	.03832	463.09
SDev	.00318	.00230	.0058	.00778	.00159	.00171	.04
%RSD	64.433	31.046	.14192	251.60	49.640	4.4659	.00946
#1	.00268	-.00579	4.0837	-.00241	-.00434	.03711	463.13
#2	.00717	-.00904	4.0755	.00859	-.00208	.03953	463.06

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.44280	.41445	.78878	466.60	.42450	.41549	.51310
SDev	.00013	.00048	.00008	.27	.00012	.00000	.00072
%RSD	.02998	.11650	.01054	.05717	.02880	.00001	.13942
#1	.44289	.41411	.78884	466.79	.42441	.41549	.51361
#2	.44270	.41479	.78872	466.41	.42458	.41549	.51259

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	160.37	.41441	468.93	.76062	.92723	.04467	.42882
SDev	.08	.00001	.25	.00118	.00042	.00124	.00016
%RSD	.05170	.00280	.05365	.15564	.04474	2.7730	.03858
#1	160.43	.41440	468.76	.76146	.92752	.04380	.42871
#2	160.32	.41442	469.11	.75979	.92694	.04555	.42894

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.89455	3.8279	4.2036	.02033	-.00540
SDev	.00267	.0063	.0056	.00473	.00928
%RSD	.29899	.16365	.13217	23.259	171.84
#1	.89266	3.8323	4.2075	.01699	-.01196
#2	.89644	3.8235	4.1997	.02368	.00116

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Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 08:55:18
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	.51328	.20237	.48132	.19419	.49375	46.135	25.366
SDev	.00026	.00350	.00585	.00328	.00624	.972	.373
%RSD	.04975	1.7299	1.2144	1.6878	1.2637	2.1059	1.4685
#1	.51310	.19989	.48545	.19651	.49816	46.822	25.629
#2	.51346	.20485	.47718	.19187	.48934	45.448	25.102

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.48016	.09922	.48694	26.145	.47240	.46968	.47655
SDev	.00714	.00149	.00655	.368	.00544	.00599	.00655
%RSD	1.4875	1.5061	1.3444	1.4065	1.1508	1.2744	1.3749
#1	.48521	.10028	.49157	26.405	.47625	.47391	.48118
#2	.47511	.09817	.48232	25.885	.46856	.46545	.47192

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.7319	.47710	25.842	.47501	1.0060	25.129	.49055
SDev	.1209	.00661	.332	.00521	.0137	.333	.00519
%RSD	1.2425	1.3863	1.2848	1.0974	1.3645	1.3260	1.0591
#1	9.8174	.48177	26.077	.47870	1.0157	25.365	.49422
#2	9.6464	.47242	25.607	.47133	.99630	24.894	.48688

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.49485	.46604	.48884	.29504	.14452
SDev	.00763	.00134	.00806	.00944	.00024
%RSD	1.5424	.28788	1.6494	3.2009	.16623
#1	.50025	.46699	.49454	.30172	.14469
#2	.48946	.46510	.48313	.28837	.14435

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Analysis Report QC Standard Thu 04-18-96 09:02:16 AM page 1

Method: SOW40 Sample Name: CCB3 Operator: SJ
Run Time: 04/18/96 08:58:39
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	.00503	-.00259	-.00019	.00252	.00088	-.02017	.05127
SDev	.00114	.00527	.00085	.00072	.00120	.01141	.00219
%RSD	22.728	203.56	438.45	28.585	137.11	56.568	4.2713
#1	.00584	.00114	.00041	.00303	.00173	-.02824	.05282
#2	.00422	-.00632	-.00079	.00201	.00003	-.01210	.04972

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00020	.00005	.00012	.05512	-.00030	.00010	-.00027
SDev	.00003	.00002	.00024	.00102	.00006	.00000	.00006
%RSD	13.469	47.109	201.69	1.8446	20.194	.01463	23.482
#1	.00018	.00007	.00028	.05440	-.00035	.00010	-.00022
#2	.00022	.00003	-.00005	.05584	-.00026	.00010	-.00031

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01685	.00016	.05121	-.00015	-.00008	-.06920	-.00000
SDev	.00587	.00000	.00419	.00013	.00026	.00124	.00003
%RSD	34.843	.04372	8.1744	89.995	329.77	1.7901	54e6
#1	.01270	.00016	.04825	-.00005	-.00027	-.06832	.00002
#2	.02100	.00016	.05417	-.00024	.00011	-.07007	-.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00113	-.00024	-.00017	.00688	.00037
SDev	.00031	.00209	.00023	.00028	.00121
%RSD	26.939	866.45	137.99	4.0398	327.86
#1	-.00135	.00124	-.00000	.00669	.00123
#2	-.00092	-.00172	-.00033	.00708	-.00049

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Method: SOW40 Sample Name: 3212 Operator: SJ
Run Time: 04/18/96 09:05:03
Comment: MJK649
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01849	.00416	.03139	.00062	.00093	1.6309	53.710
SDev	.00165	.00049	.00088	.00234	.00170	.0017	.005
%RSD	8.9346	11.833	2.7900	378.66	183.45	.10494	.00936
#1	.01732	.00381	.03201	-.00104	-.00028	1.6321	53.706
#2	.01965	.00450	.03077	.00228	.00213	1.6297	53.713

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.30373	.00131	.00032	9.9526	.08444	.04087	.15461
SDev	.00016	.00004	.00007	.0003	.00018	.00015	.00027
%RSD	.05245	2.7442	23.848	.00341	.21670	.35742	.17173
#1	.30384	.00129	.00026	9.9524	.08457	.04076	.15480
#2	.30362	.00134	.00037	9.9528	.08431	.04097	.15442

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	83.626	1.6274	12.015	.05514	.00078	.52467	.19485
SDev	.073	.0002	.013	.00042	.00034	.00372	.00040
%RSD	.08751	.00958	.10800	.76182	43.849	.70829	.20380
#1	83.678	1.6275	12.005	.05485	.00054	.52205	.19457
#2	83.574	1.6273	12.024	.05544	.00102	.52730	.19513

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.50112	.01515	.03939	.02124	-.00954
SDev	.00015	.00205	.00030	.00807	.00048
%RSD	.03044	13.550	.75083	37.982	4.9903
#1	.50123	.01661	.03960	.01553	-.00920
#2	.50101	.01370	.03918	.02694	-.00987

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Analysis Report Thu 04-18-96 09:11:06 AM page 1

Method: SOW40 Sample Name: 3213 Operator: SJ
Run Time: 04/18/96 09:08:19
Comment: MJK649 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02271	.00267	.02931	-.00286	-.00016	1.6019	53.000
SDev	.00991	.00052	.00084	.01002	.00179	.0143	.209
%RSD	43.638	19.564	2.8738	350.67	1090.8	.89033	.39467
#1	.02971	.00304	.02990	-.00995	.00110	1.6120	53.148
#2	.01570	.00230	.02871	.00423	-.00143	1.5918	52.852

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.30083	.00133	.00013	9.8507	.08382	.04076	.15347
SDev	.00100	.00001	.00005	.0359	.00041	.00000	.00062
%RSD	.33098	.87905	36.334	.36470	.48392	.00025	.40498
#1	.30153	.00134	.00010	9.8761	.08411	.04076	.15391
#2	.30013	.00132	.00017	9.8253	.08354	.04076	.15303

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	82.870	1.6096	11.866	.05445	.00056	.52467	.19277
SDev	.358	.0054	.042	.00086	.00012	.00124	.00076
%RSD	.43192	.33376	.35315	1.5780	20.658	.23609	.39483
#1	83.123	1.6134	11.896	.05506	.00064	.52555	.19330
#2	82.617	1.6058	11.836	.05385	.00048	.52380	.19223

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.49518	.01297	.03735	.01016	-.00927
SDev	.00275	.00152	.00051	.01322	.00845
%RSD	.55515	11.695	1.3649	130.16	91.140
#1	.49713	.01404	.03771	.00081	-.01524
#2	.49324	.01190	.03699	.01951	-.00330

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Analysis Report Thu 04-18-96 09:24:01 AM page 1

Method: SOW40 Sample Name: 3214 Operator: SJ
Run Time: 04/18/96 09:21:56
Comment: MJK649 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05824	.05493	.04998	.01036	.46007	1.6257	54.859
SDev	.00076	.00254	.00102	.00171	.00177	.0342	.601
%RSD	1.3095	4.6178	2.0490	16.526	.38381	2.1055	1.0951
#1	.05770	.05672	.05071	.00915	.46132	1.6499	55.284
#2	.05878	.05314	.04926	.01157	.45882	1.6015	54.434

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1658	.05048	.04961	9.8469	.26331	.48316	.38225
SDev	.0148	.00035	.00035	.0732	.00169	.00394	.00309
%RSD	.68531	.68907	.70657	.74346	.64076	.81591	.80847
#1	2.1763	.05072	.04986	9.8987	.26450	.48594	.38444
#2	2.1553	.05023	.04937	9.7951	.26211	.48037	.38007

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	83.767	2.0445	11.856	.49367	.04671	.54657	.62377
SDev	.626	.0140	.107	.00334	.00028	.01239	.00463
%RSD	.74732	.68397	.90133	.67688	.59854	2.2664	.74273
#1	84.209	2.0544	11.931	.49604	.04691	.55533	.62704
#2	83.324	2.0346	11.780	.49131	.04651	.53781	.62049

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.98488	.04627	.05181	.02956	.00090
SDev	.00832	.00034	.00169	.00419	.00049
%RSD	.84507	.72974	3.2712	14.184	54.243
#1	.99077	.04603	.05301	.02659	.00056
#2	.97900	.04651	.05061	.03252	.00125

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Analysis Report Thu 04-18-96 09:31:37 AM page 1

Method: SOW40 Sample Name: 3212LX5 Operator: SJ
Run Time: 04/18/96 09:29:33
Comment: MJK649LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00583	.00512	.00573	-.00180	.00180	.24123	10.675
SDev	.00229	.00231	.00098	.00422	.00155	.01597	.000
%RSD	39.191	45.103	17.088	234.21	86.475	6.6217	.00409
#1	.00422	.00349	.00504	.00118	.00070	.25252	10.675
#2	.00745	.00675	.00643	-.00479	.00290	.22993	10.676

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06497	.00024	-.00014	2.1174	.01798	.00846	.03095
SDev	.00019	.00001	.00001	.0075	.00008	.00015	.00007
%RSD	.28606	4.9575	8.3434	.35216	.45054	1.7253	.22537
#1	.06484	.00025	-.00015	2.1121	.01792	.00836	.03090
#2	.06510	.00024	-.00013	2.1227	.01803	.00857	.03100

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.784	.34900	2.5154	.01187	.00033	.04204	.04158
SDev	.045	.00132	.0071	.00017	.00023	.00248	.00007
%RSD	.25528	.37926	.28335	1.4480	68.988	5.8926	.15917
#1	17.752	.34806	2.5103	.01199	.00049	.04380	.04153
#2	17.816	.34993	2.5204	.01175	.00017	.04029	.04163

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.10480	.00461	.00629	.00443	-.00487
SDev	.00183	.00058	.00175	.00749	.00999
%RSD	1.7488	12.664	27.823	169.09	205.03
#1	.10351	.00502	.00505	-.00087	.00219
#2	.10610	.00419	.00753	.00973	-.01194

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Analysis Report Thu 04-18-96 09:34:49 AM page 1

Method: SOW40 Sample Name: 2896 Operator: SJ
Run Time: 04/18/96 09:32:45
Comment: MAJP57
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01535	.00341	.03124	-.00504	.00073	.70836	18.272
SDev	.00280	.00410	.00020	.00516	.00099	.01141	.036
%RSD	18.204	120.33	.64195	102.40	134.86	1.6107	.19540
#1	.01733	.00051	.03139	-.00139	.00143	.71642	18.298
#2	.01338	.00631	.03110	-.00869	.00003	.70029	18.247

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07296	.00059	-.00004	4.8776	.03425	.01816	.09649
SDev	.00015	.00002	.00018	.0112	.00012	.00015	.00014
%RSD	.20016	4.0632	443.83	.22931	.35566	.80407	.14313
#1	.07306	.00061	-.00017	4.8855	.03434	.01806	.09658
#2	.07286	.00058	.00009	4.8696	.03417	.01827	.09639

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	37.747	.73705	8.6745	.04638	.00041	.58599	.04390
SDev	.079	.00107	.0084	.00002	.00038	.00372	.00010
%RSD	.21026	.14577	.09661	.04117	93.100	.63417	.22615
#1	37.803	.73781	8.6804	.04637	.00014	.58336	.04397
#2	37.691	.73629	8.6686	.04639	.00067	.58862	.04383

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.15247	.02686	.03341	-.00405	-.00553
SDev	.00084	.00147	.00102	.00652	.00449
%RSD	.55090	5.4595	3.0578	161.08	81.242
#1	.15307	.02582	.03413	.00056	-.00235
#2	.15188	.02789	.03268	-.00866	-.00871

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Analysis Report Thu 04-18-96 09:37:35 AM page 1

Method: SOW40 Sample Name: 2897 Operator: SJ
Run Time: 04/18/96 09:35:32
Comment: MAJP57 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01167	.00513	.03028	-.00072	-.00074	.69545	18.150
SDev	.00241	.00692	.00019	.00237	.00123	.00685	.065
%RSD	20.684	134.76	.64097	330.60	167.40	.98437	.35604
#1	.00996	.01002	.03041	-.00240	.00014	.70029	18.195
#2	.01338	.00024	.03014	.00096	-.00161	.69061	18.104

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07251	.00056	-.00019	4.8531	.03402	.01837	.09583
SDev	.00017	.00002	.00009	.0125	.00004	.00015	.00053
%RSD	.23802	4.3231	45.587	.25840	.11770	.79491	.54945
#1	.07263	.00054	-.00025	4.8620	.03405	.01827	.09621
#2	.07239	.00058	-.00013	4.8442	.03399	.01847	.09546

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	37.607	.73287	8.6345	.04616	.00019	.59387	.04390
SDev	.111	.00193	.0205	.00002	.00023	.00000	.00003
%RSD	.29484	.26345	.23775	.04136	117.89	.00000	.07538
#1	37.685	.73424	8.6490	.04615	.00035	.59387	.04392
#2	37.529	.73151	8.6200	.04618	.00003	.59387	.04387

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.15204	.02692	.03193	.00892	-.00546
SDev	.00084	.00117	.00028	.00403	.00156
%RSD	.55251	4.3330	.89220	45.201	28.543
#1	.15264	.02775	.03173	.00607	-.00657
#2	.15145	.02610	.03213	.01177	-.00436

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Analysis Report Thu 04-18-96 09:44:55 AM page 1

Method: SOW40 Sample Name: 2898 Operator: SJ
Run Time: 04/18/96 09:38:55
Comment: MAJP57 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04942	.04714	.05495	.00813	.48801	.66963	18.879
SDev	.00191	.01121	.00061	.00136	.00196	.00342	.082
%RSD	3.8661	23.790	1.1200	16.739	.40238	.51116	.43368
#1	.05077	.05507	.05539	.00717	.48940	.66721	18.937
#2	.04807	.03921	.05452	.00909	.48662	.67205	18.821

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1576	.05118	.05251	4.6300	.23385	.49847	.35913
SDev	.0106	.00034	.00046	.0237	.00124	.00380	.00222
%RSD	.49344	.66823	.87039	.51242	.53188	.76241	.61946
#1	2.1651	.05143	.05283	4.6468	.23473	.50115	.36070
#2	2.1500	.05094	.05219	4.6132	.23297	.49578	.35756

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	36.712	1.3016	8.2352	.52450	.04118	.57285	.52188
SDev	.224	.0073	.0495	.00387	.00073	.00248	.00267
%RSD	.60905	.56200	.60055	.73791	1.7638	.43248	.51254
#1	36.870	1.3068	8.2702	.52723	.04170	.57460	.52377
#2	36.554	1.2964	8.2002	.52176	.04067	.57110	.51998

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.64190	.05134	.05673	.01927	.00264
SDev	.00351	.00055	.00119	.00210	.00100
%RSD	.54749	1.0721	2.0972	10.875	37.798
#1	.64438	.05096	.05757	.01779	.00194
#2	.63941	.05173	.05589	.02075	.00335

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Analysis Report Thu 04-18-96 09:59:11 AM page 1

Method: SOW40 Sample Name: 2896LX5 Operator: SJ
Run Time: 04/18/96 09:54:22
Comment: MAJP57LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00492	.00080	.00578	-.00039	.00213	.12037	3.6355
SDev	.00167	.00079	.00047	.00144	.00102	.00054	.0002
%RSD	34.059	99.461	8.0495	369.16	47.848	.44896	.00573
#1	.00373	.00136	.00611	-.00141	.00285	.11999	3.6356
#2	.00610	.00024	.00545	.00063	.00141	.12075	3.6353

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01740	.00043	-.00001	.98105	.00803	.00448	.02262
SDev	.00007	.00001	.00003	.00094	.00006	.00015	.00034
%RSD	.40086	2.7900	475.86	.09594	.78450	3.3683	1.4905
#1	.01736	.00042	-.00002	.98171	.00799	.00437	.02238
#2	.01745	.00043	.00001	.98038	.00808	.00459	.02286

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.6956	.16783	1.7411	.01024	-.00003	.04811	.01027
SDev	.0074	.00003	.0004	.00018	.00015	.00000	.00014
%RSD	.09656	.01915	.02223	1.7270	469.84	.00000	1.3373
#1	7.7009	.16781	1.7414	.01036	-.00013	.04811	.01017
#2	7.6903	.16785	1.7408	.01011	.00007	.04811	.01037

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.03048	.00730	.00503	.00125	-.00120
SDev	.00030	.00205	.00031	.00452	.00007
%RSD	.97740	28.036	6.2330	362.04	5.9825
#1	.03070	.00875	.00481	-.00195	-.00115
#2	.03027	.00585	.00525	.00445	-.00125

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Analysis Report Thu 04-18-96 10:02:14 AM page 1

Method: SOW40 Sample Name: 2899 Operator: SJ
Run Time: 04/18/96 10:00:12
Comment: MAJP58
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02092	.00144	1.0952	-.00190	-.00280	1.0050	24.375
SDev	.00116	.00300	.0023	.00185	.00185	.0151	.006
%RSD	5.5413	209.10	.21032	97.627	66.070	1.5056	.02271
#1	.02010	-.00069	1.0968	-.00321	-.00149	1.0157	24.379
#2	.02174	.00356	1.0936	-.00059	-.00411	.99428	24.371

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08191	.00115	.00229	9.3606	.11566	.02590	6.9896
SDev	.00001	.00001	.00004	.0216	.00011	.00060	.0143
%RSD	.01704	1.0622	1.9077	.23127	.09043	2.3304	.20401
#1	.08192	.00114	.00232	9.3759	.11573	.02633	6.9796
#2	.08190	.00116	.00226	9.3453	.11558	.02547	6.9997

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.515	1.3640	13.787	.25234	.00163	1.5197	.08330
SDev	.063	.0018	.019	.00028	.00055	.0070	.00055
%RSD	.13292	.12827	.13492	.10900	33.563	.46317	.65950
#1	47.560	1.3652	13.800	.25254	.00201	1.5147	.08369
#2	47.470	1.3627	13.774	.25215	.00124	1.5247	.08291

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.91401	1.1038	1.0910	.00974	-.00763
SDev	.00037	.0012	.0029	.00763	.00099
%RSD	.04075	.10431	.26314	78.292	12.984
#1	.91375	1.1047	1.0930	.00435	-.00693
#2	.91427	1.1030	1.0889	.01514	-.00833

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Analysis Report Thu 04-18-96 10:06:09 AM page 1

Method: SOW40 Sample Name: 2900 Operator: SJ
Run Time: 04/18/96 10:04:05
Comment: MAJP59
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02039	.00611	.09296	-.00222	.00171	1.1639	25.736
SDev	.00322	.00460	.00003	.00182	.00232	.0162	.066
%RSD	15.793	75.338	.03431	81.622	135.89	1.3929	.25700
#1	.02266	.00936	.09294	-.00094	.00335	1.1525	25.783
#2	.01811	.00285	.09299	-.00351	.00007	1.1754	25.690

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06500	.00091	.00010	8.1000	.05169	.02474	.43309
SDev	.00013	.00000	.00022	.0110	.00006	.00045	.00116
%RSD	.19320	.00559	215.03	.13557	.12246	1.8296	.26866
#1	.06509	.00091	-.00005	8.1077	.05164	.02442	.43391
#2	.06491	.00091	.00026	8.0922	.05173	.02506	.43227

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.696	.78450	13.809	.06649	.00014	.54748	.08158
SDev	.112	.00108	.033	.00035	.00047	.00000	.00010
%RSD	.23429	.13703	.24120	.53188	341.14	.00000	.12627
#1	47.775	.78526	13.833	.06674	-.00020	.54748	.08165
#2	47.617	.78374	13.786	.06624	.00047	.54748	.08150

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.22493	.09090	.09398	.00413	-.00535
SDev	.00052	.00045	.00027	.00530	.00010
%RSD	.23175	.49788	.28782	128.32	1.9109
#1	.22456	.09122	.09379	.00787	-.00528
#2	.22530	.09058	.09417	.00038	-.00543

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Analysis Report QC Standard Thu 04-18-96 10:10:28 AM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 10:07:15
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	.51893	.20911	.49218	.19477	.51579	47.391	25.783
SDev	.00789	.00683	.00108	.00768	.00287	.390	.054
%RSD	1.5208	3.2678	.21995	3.9408	.55725	.82216	.20791
#1	.51335	.21394	.49295	.20019	.51375	47.667	25.821
#2	.52451	.20428	.49142	.18934	.51782	47.116	25.745

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50546	.10149	.49690	26.079	.48996	.48885	.50419
SDev	.00067	.00007	.00069	.004	.00039	.00000	.00049
%RSD	.13309	.06663	.13800	.01564	.07935	.00002	.09689
#1	.50594	.10144	.49642	26.076	.49024	.48885	.50454
#2	.50499	.10153	.49739	26.082	.48969	.48885	.50385

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.8652	.49506	26.072	.49180	1.0350	26.088	.51345
SDev	.0106	.00002	.019	.00004	.0013	.031	.00051
%RSD	.10733	.00307	.07277	.00738	.12603	.11691	.09850
#1	9.8577	.49507	26.058	.49177	1.0340	26.110	.51381
#2	9.8727	.49504	26.085	.49182	1.0359	26.067	.51309

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.49454	.48279	.49680	.30606	.13995
SDev	.00133	.00041	.00182	.00026	.01133
%RSD	.26932	.08517	.36600	.08440	8.0946
#1	.49360	.48250	.49809	.30624	.14796
#2	.49548	.48308	.49552	.30588	.13194

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Analysis Report QC Standard Thu 04-18-96 10:12:53 AM page 1

Method: SOW40 Sample Name: CCB4 Operator: SJ
Run Time: 04/18/96 10:10:41
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	.00237	-.00045	.00006	.00150	.00204	-.00955	.05910
SDev	.00227	.00666	.00065	.00369	.00132	.00486	.00328
%RSD	95.978	1475.3	1120.9	246.57	64.621	50.912	5.5482
#1	.00076	-.00516	.00051	-.00111	.00111	-.01299	.06142
#2	.00397	.00426	-.00040	.00410	.00298	-.00611	.05679

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00114	.00052	.00102	.01464	.00098	.00119	.00113
SDev	.00015	.00001	.00027	.00094	.00041	.00014	.00000
%RSD	13.363	2.1410	26.752	6.4282	41.839	11.796	.01265
#1	.00125	.00052	.00121	.01531	.00126	.00109	.00113
#2	.00103	.00051	.00083	.01398	.00069	.00129	.00113

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00324	.00082	.01561	.00113	.00008	-.06885	.00069
SDev	.00114	.00018	.00000	.00022	.00026	.00117	.00038
%RSD	35.208	21.768	.00950	19.285	321.69	1.7039	54.744
#1	.00404	.00094	.01561	.00098	.00026	-.06802	.00096
#2	.00243	.00069	.01561	.00128	-.00010	-.06968	.00042

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00010	.00238	-.00109	.00292	.00079
SDev	.00007	.00313	.00058	.00310	.00398
%RSD	70.471	131.14	52.931	106.13	501.53
#1	-.00015	.00459	-.00150	.00073	-.00202
#2	-.00005	.00017	-.00068	.00512	.00361

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Analysis Report Thu 04-18-96 10:16:44 AM page 1

Method: SOW40 Sample Name: 2901 Operator: SJ
Run Time: 04/18/96 10:14:43
Comment: MAJP60
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01536	-.00127	.97393	-.00559	-.00052	1.1112	22.400
SDev	.00251	.00078	.00237	.00503	.00236	.0108	.023
%RSD	16.345	61.500	.24315	89.919	454.60	.97264	.10273
#1	.01359	-.00183	.97561	-.00915	.00115	1.1189	22.417
#2	.01714	-.00072	.97226	-.00204	-.00219	1.1036	22.384

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14526	.00103	.00121	6.2441	.10389	.02224	5.3471
SDev	.00018	.00000	.00023	.0100	.00031	.00000	.0077
%RSD	.12233	.01207	19.323	.16079	.29848	.00034	.14445
#1	.14538	.00103	.00104	6.2512	.10411	.02224	5.3526
#2	.14513	.00103	.00137	6.2370	.10367	.02224	5.3417

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	46.064	.98995	10.884	.30780	.00086	.88178	.06766
SDev	.065	.00176	.026	.00154	.00000	.00117	.00025
%RSD	.14209	.17822	.24204	.50106	.12485	.13304	.37376
#1	46.110	.99120	10.903	.30889	.00086	.88095	.06748
#2	46.017	.98871	10.866	.30671	.00086	.88261	.06784

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.79359	.97113	.97531	.00029	-.00849
SDev	.00049	.00044	.00375	.00194	.00846
%RSD	.06185	.04493	.38443	660.57	99.615
#1	.79324	.97082	.97796	.00166	-.01448
#2	.79394	.97144	.97266	-.00108	-.00251

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Analysis Report Thu 04-18-96 10:19:34 AM page 1

Method: SOW40 Sample Name: 2902 Operator: SJ
Run Time: 04/18/96 10:17:21
Comment: MAJP61
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01149	.00054	.60916	-.00212	.00106	.74743	23.989
SDev	.00299	.00317	.00052	.00209	.00131	.01081	.048
%RSD	26.025	583.36	.08454	98.596	124.58	1.4460	.20202
#1	.00937	.00279	.60879	-.00360	.00198	.73979	24.023
#2	.01360	-.00170	.60952	-.00064	.00013	.75507	23.954

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06483	.00097	.00005	7.3408	.05333	.01721	2.3181
SDev	.00000	.00002	.00007	.0053	.00000	.00014	.0034
%RSD	.00000	2.3442	142.25	.07266	.00023	.81339	.14839
#1	.06483	.00096	.00010	7.3446	.05333	.01731	2.3205
#2	.06483	.00099	-.00000	7.3370	.05333	.01711	2.3156

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	47.230	.76468	11.403	.12002	.00024	.43135	.05253
SDev	.085	.00077	.021	.00009	.00025	.00235	.00079
%RSD	.18030	.10082	.18343	.07559	104.08	.54393	1.5045
#1	47.290	.76523	11.418	.11996	.00006	.42969	.05309
#2	47.170	.76414	11.388	.12009	.00042	.43301	.05197

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.50250	.60197	.61269	.00490	-.00558
SDev	.00056	.00049	.00053	.00117	.00255
%RSD	.11157	.08196	.08579	23.780	45.644
#1	.50289	.60162	.61232	.00408	-.00738
#2	.50210	.60232	.61307	.00573	-.00378

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Analysis Report Thu 04-18-96 10:22:28 AM page 1

Method: SOW40 Sample Name: 2891 Operator: SJ
Run Time: 04/18/96 10:20:26
Comment: MCSG30
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00330	-.00134	-.00230	-.00224	.00090	.00497	.05941
SDev	.00287	.00412	.00048	.00033	.00064	.01783	.00205
%RSD	87.033	306.43	20.709	14.650	70.723	358.99	3.4536
#1	.00533	-.00426	-.00196	-.00201	.00045	-.00764	.05796
#2	.00127	.00157	-.00264	-.00247	.00136	.01758	.06086

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.00034	-.00014	.06545	.00033	-.00000	.00178
SDev	.00001	.00001	.00001	.00000	.00027	.00014	.00018
%RSD	4.7141	3.2710	5.3878	.00000	82.507	171530.	10.317
#1	.00026	.00033	-.00015	.06545	.00014	.00010	.00191
#2	.00028	.00035	-.00013	.06545	.00052	-.00010	.00165

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02021	.00004	.01260	.00045	.00080	.01244	.00007
SDev	.00229	.00003	.00271	.00049	.00069	.00117	.00013
%RSD	11.312	70.977	21.522	109.10	86.708	9.4281	188.56
#1	.01860	.00002	.01068	.00010	.00031	.01161	-.00002
#2	.02183	.00006	.01451	.00080	.00128	.01327	.00016

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.03033	-.00330	-.00181	.00996	-.00825
SDev	.00021	.00031	.00087	.00297	.00097
%RSD	.69249	9.5263	47.936	29.844	11.802
#1	.03018	-.00352	-.00119	.01206	-.00894
#2	.03048	-.00308	-.00242	.00786	-.00756

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Analysis Report Thu 04-18-96 10:25:30 AM page 1

Method: SOW40 Sample Name: 2892 Operator: SJ
Run Time: 04/18/96 10:23:28
Comment: MCSG31
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00473	.00582	-.00089	-.00071	-.00067	.00611	.05752
SDev	.00036	.00222	.00015	.00308	.00017	.01946	.00391
%RSD	7.5753	38.093	17.188	430.56	25.339	318.20	6.7990
#1	.00448	.00739	-.00078	-.00289	-.00055	-.00764	.06029
#2	.00499	.00426	-.00100	.00146	-.00080	.01987	.05476

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	.00036	-.00012	.04992	.00051	-.00010	.00117
SDev	.00011	.00001	.00005	.00063	.00021	.00028	.00006
%RSD	48.954	3.1983	46.800	1.2571	42.090	282.54	5.2031
#1	.00015	.00037	-.00008	.05036	.00036	.00010	.00121
#2	.00031	.00035	-.00016	.04947	.00066	-.00030	.00113

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01314	-.00019	.00657	.00064	.00010	.01244	-.00022
SDev	.00257	.00003	.00271	.00018	.00015	.00117	.00041
%RSD	19.533	15.644	41.262	28.284	143.95	9.4281	183.85
#1	.01132	-.00017	.00849	.00051	-.00000	.01327	-.00051
#2	.01495	-.00021	.00465	.00077	.00021	.01161	.00007

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.02948	-.00068	-.00099	.01170	-.00683
SDev	.00014	.00004	.00025	.01060	.00062
%RSD	.47600	5.8759	24.985	90.595	9.1502
#1	.02958	-.00071	-.00082	.00420	-.00639
#2	.02939	-.00065	-.00117	.01919	-.00727

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Analysis Report Thu 04-18-96 10:28:23 AM page 1

Method: SOW40 Sample Name: 2893 Operator: SJ
Run Time: 04/18/96 10:26:21
Comment: MCSG32
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00110	.00589	-.00194	-.00175	-.00014	1.5598	.06085
SDev	.00120	.00191	.00116	.00598	.00179	.0303	.00123
%RSD	108.78	32.373	59.618	341.64	1255.7	1.9401	2.0255
#1	.00025	.00724	-.00276	-.00598	.00113	1.5812	.06172
#2	.00194	.00454	-.00112	.00248	-.00141	1.5384	.05998

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.76166	.00046	-.00004	92.595	.00031	-.00010	.00120
SDev	.00230	.00002	.00016	.297	.00041	.00000	.00024
%RSD	.30162	4.8800	404.17	.32055	132.99	.10207	20.372
#1	.76328	.00048	.00008	92.805	.00002	-.00010	.00138
#2	.76003	.00044	-.00016	92.385	.00060	-.00010	.00103

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.08278	.25611	46.240	.00285	.00067	20.239	.00065
SDev	.00046	.00093	.166	.00036	.00062	.190	.00000
%RSD	.55830	.36377	.35842	12.741	92.057	.93902	.00000
#1	-.08310	.25677	46.357	.00310	.00111	20.373	.00065
#2	-.08245	.25545	46.122	.00259	.00023	20.104	.00065

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.02740	-.00291	-.00146	.00449	-.00482
SDev	.00056	.00194	.00077	.00543	.00626
%RSD	2.0446	66.785	52.596	120.97	129.69
#1	.02701	-.00428	-.00201	.00065	-.00925
#2	.02780	-.00154	-.00092	.00833	-.00040

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Analysis Report Thu 04-18-96 10:31:12 AM page 1

Method: SOW40 Sample Name: 2894 Operator: SJ
Run Time: 04/18/96 10:29:10
Comment: MCSG33
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01234	-.00488	.00458	-.00433	.00004	1.8132	.88932
SDev	.00299	.00091	.00014	.00145	.00199	.0027	.00412
%RSD	24.216	18.693	3.1172	33.616	5283.6	.14902	.46295
#1	.01023	-.00423	.00468	-.00330	-.00137	1.8151	.89223
#2	.01446	-.00552	.00448	-.00535	.00145	1.8113	.88641

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4579	.00057	-.00001	84.394	.00074	.00722	.00541
SDev	.0002	.00002	.00002	.021	.00000	.00000	.00018
%RSD	.00723	3.9771	175.14	.02528	.32079	.00001	3.4020
#1	2.4581	.00059	-.00003	84.379	.00074	.00722	.00554
#2	2.4578	.00055	.00000	84.409	.00074	.00722	.00528

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.3778	17.121	35.735	.01990	.00074	21.164	.00311
SDev	.0032	.007	.022	.00031	.00000	.073	.00044
%RSD	.22941	.04237	.06051	1.5501	.11723	.34366	14.244
#1	1.3800	17.116	35.751	.02012	.00074	21.216	.00279
#2	1.3756	17.126	35.720	.01968	.00075	21.113	.00342

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.05971	.00265	.00554	.00080	-.00685
SDev	.00056	.00049	.00046	.00012	.00223
%RSD	.93899	18.617	8.2371	15.101	32.545
#1	.05931	.00230	.00586	.00072	-.00528
#2	.06010	.00300	.00521	.00089	-.00843

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Analysis Report Thu 04-18-96 10:34:10 AM page 1

Method: SOW40 Sample Name: 2917 Operator: SJ
Run Time: 04/18/96 10:32:06
Comment: MCSG34
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00465	.00434	-.00214	.00138	.00107	.75622	.06157
SDev	.00215	.00035	.00010	.00125	.00040	.00054	.00020
%RSD	46.280	8.0001	4.5271	90.764	37.813	.07146	.33368
#1	.00313	.00409	-.00221	.00049	.00136	.75584	.06171
#2	.00617	.00458	-.00207	.00227	.00078	.75660	.06142

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.6445	.00046	-.00012	57.333	-.00016	.00158	.00284
SDev	.0034	.00000	.00010	.033	.00006	.00014	.00006
%RSD	.20761	.00000	82.730	.05692	37.263	8.8377	2.1447
#1	1.6421	.00046	-.00005	57.310	-.00012	.00168	.00288
#2	1.6470	.00046	-.00020	57.356	-.00020	.00148	.00279

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.16584	4.2518	29.782	.00287	.00018	14.278	.00105
SDev	.00343	.0055	.002	.00004	.00018	.019	.00000
%RSD	2.0670	.12905	.00505	1.2627	102.09	.13146	.00000
#1	.16342	4.2479	29.783	.00285	.00005	14.264	.00105
#2	.16827	4.2557	29.780	.00290	.00031	14.291	.00105

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.02914	-.00332	-.00156	.00364	.00027
SDev	.00035	.00011	.00009	.00310	.00034
%RSD	1.2028	3.2452	5.8682	85.114	128.49
#1	.02889	-.00339	-.00163	.00145	.00002
#2	.02939	-.00324	-.00150	.00583	.00051

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Analysis Report Thu 04-18-96 10:41:43 AM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 04/18/96 10:39:41
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	.02358	.02873	.00468	.01097	.12397	-.01070	.05567
SDev	.00144	.00095	.00084	.00406	.00114	.02594	.00307
%RSD	6.0836	3.3162	17.905	37.016	.92375	242.44	5.5167
#1	.02257	.02941	.00528	.00810	.12316	-.02904	.05350
#2	.02460	.02806	.00409	.01384	.12478	.00764	.05784

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00077	.01064	.01055	.05214	.02132	.10717	.05664
SDev	.00006	.00001	.00003	.00251	.00033	.00028	.00037
%RSD	8.2222	.10785	.29028	4.8143	1.5507	.26126	.65003
#1	.00082	.01065	.01053	.05391	.02109	.10737	.05638
#2	.00073	.01063	.01057	.05036	.02155	.10697	.05690

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01065	.03479	.01617	.08586	.02363	-.01742	.10843
SDev	.00600	.00027	.00116	.00058	.00044	.00117	.00051
%RSD	56.285	.76700	7.1975	.67625	1.8504	6.7343	.46645
#1	.00641	.03498	.01699	.08545	.02332	-.01659	.10807
#2	.01489	.03460	.01535	.08627	.02394	-.01825	.10879

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04146	.00652	.00378	.01690	.00805
SDev	.00042	.00148	.00052	.00129	.00542
%RSD	1.0135	22.715	13.821	7.6462	67.391
#1	.04116	.00756	.00415	.01599	.00421
#2	.04176	.00547	.00341	.01781	.01188

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Analysis Report Thu 04-18-96 10:44:22 AM page 1

Method: SOW40 Sample Name: ICSA994 Operator: SJ
Run Time: 04/18/96 10:42:15
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	-.00043	-.01635	-.00364	-.00247	.00165	.05044	466.31
SDev	.00048	.00095	.00154	.00449	.00060	.00757	1.43
%RSD	111.86	5.8226	42.264	181.71	36.169	14.999	.30682
#1	-.00077	-.01568	-.00255	.00070	.00207	.05579	467.33
#2	-.00009	-.01702	-.00473	-.00565	.00123	.04509	465.30

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00226	.00041	.00341	490.06	.02045	-.00436	.00010
SDev	.00004	.00002	.00019	.88	.00033	.00042	.00027
%RSD	1.6836	5.4193	5.7081	.18022	1.6138	9.6293	281.67
#1	.00229	.00040	.00354	490.69	.02069	-.00406	.00029
#2	.00223	.00043	.00327	489.44	.02022	-.00466	-.00010

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	167.73	.00253	479.37	.00249	.00003	.04894	.00098
SDev	.22	.00019	.77	.00022	.00011	.00117	.00022
%RSD	.13063	7.7253	.16018	8.7477	379.07	2.3970	22.499
#1	167.89	.00267	479.91	.00234	-.00005	.04977	.00083
#2	167.58	.00239	478.82	.00264	.00011	.04811	.00114

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00692	-.12361	.05545	.01638	-.01176
SDev	.00021	.00083	.00271	.00064	.00639
%RSD	3.0340	.67404	4.8838	3.9232	54.356
#1	.00707	-.12420	.05736	.01683	-.00724
#2	.00677	-.12303	.05353	.01592	-.01628

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Analysis Report QC Standard Thu 04-18-96 10:47:09 AM page 1

Method: SOW40 Sample Name: ICSAB691 Operator: SJ
Run Time: 04/18/96 10:45:02
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	.00387	-.00789	4.2754	-.00608	-.00416	.03286	476.24
SDev	.00000	.00856	.0033	.00231	.00274	.01081	1.08
%RSD	.00540	108.55	.07778	37.973	65.793	32.889	.22632
#1	.00387	-.00183	4.2730	-.00771	-.00223	.04051	477.00
#2	.00387	-.01394	4.2777	-.00445	-.00610	.02522	475.48

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.47157	.43512	.82612	486.92	.44953	.43829	.55222
SDev	.00128	.00130	.00320	2.13	.00087	.00070	.00130
%RSD	.27183	.29926	.38727	.43733	.19444	.15961	.23485
#1	.47248	.43604	.82839	488.43	.45015	.43878	.55314
#2	.47067	.43420	.82386	485.42	.44891	.43780	.55130

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	166.82	.43889	482.20	.80273	.96638	.04645	.45730
SDev	.58	.00136	1.29	.00263	.00124	.00000	.00069
%RSD	.34616	.30960	.26764	.32775	.12790	.00000	.15208
#1	167.23	.43985	483.12	.80459	.96725	.04645	.45779
#2	166.42	.43792	481.29	.80087	.96550	.04645	.45681

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.92367	4.0469	4.3880	.01093	-.01446
SDev	.00402	.0043	.0071	.00916	.00796
%RSD	.43556	.10576	.16116	83.811	55.042
#1	.92651	4.0499	4.3830	.01741	-.02009
#2	.92082	4.0439	4.3930	.00445	-.00883

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Analysis Report QC Standard Thu 04-18-96 10:50:12 AM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 10:48:03
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	.52316	.21078	.50067	.19500	.52161	48.268	26.044
SDev	.00215	.01796	.00102	.00309	.00106	.058	.033
%RSD	.41145	8.5215	.20444	1.5857	.20291	.11979	.12843
#1	.52164	.19808	.50140	.19718	.52086	48.227	26.068
#2	.52468	Q.22348	.49995	.19281	.52235	48.309	26.021

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50568	.10314	.50596	26.894	.49528	.49330	.50790
SDev	.00148	.00050	.00117	.120	.00111	.00182	.00141
%RSD	.29367	.48904	.23074	.44682	.22366	.36877	.27808
#1	.50673	.10350	.50678	26.979	.49606	.49459	.50890
#2	.50463	.10279	.50513	26.809	.49450	.49202	.50690

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.048	.49956	26.548	.49703	1.0377	26.402	.51879
SDev	.031	.00129	.077	.00218	.0021	.042	.00174
%RSD	.31319	.25808	.29029	.43806	.20338	.15996	.33512
#1	10.070	.50047	26.603	.49857	1.0392	26.372	.52002
#2	10.025	.49865	26.494	.49549	1.0362	26.432	.51756

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.50683	.49237	.50476	.30130	.14264
SDev	.00217	.00202	.00053	.00258	.00334
%RSD	.42846	.40951	.10591	.85684	2.3441
#1	.50836	.49380	.50514	.30312	.14501
#2	.50529	.49095	.50438	.29947	.14028

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Analysis Report QC Standard Thu 04-18-96 10:52:51 AM page 1

Method: SOW40 Sample Name: CCB5 Operator: SJ
Run Time: 04/18/96 10:50:47
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	.00101	.00639	-.00039	-.00094	.00016	-.01108	.13871
SDev	.00371	.00238	.00012	.00036	.00183	.02756	.00986
%RSD	365.37	37.208	30.152	38.404	1119.5	248.71	7.1096
#1	-.00161	.00471	-.00047	-.00120	-.00113	-.03057	.14569
#2	.00364	.00807	-.00030	-.00069	.00145	.00841	.13174

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00048	.00055	.00019	.10427	.00029	.00030	.00005
SDev	.00013	.00001	.00004	.01224	.00017	.00000	.00018
%RSD	26.683	2.0584	20.189	11.735	60.594	.01458	384.24
#1	.00039	.00056	.00022	.11292	.00041	.00030	-.00008
#2	.00057	.00054	.00016	.09562	.00016	.00030	.00018

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03421	.00027	.10350	.00036	.00105	-.05890	.00018
SDev	.00715	.00000	.01046	.00004	.00011	.00117	.00010
%RSD	20.901	.06693	10.101	10.102	10.374	1.9919	53.033
#1	.03927	.00027	.11089	.00033	.00098	-.05807	.00011
#2	.02916	.00027	.09611	.00038	.00113	-.05973	.00025

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00040	.00278	-.00194	.00420	-.00348
SDev	.00021	.00241	.00101	.00181	.00035
%RSD	53.038	86.654	52.084	43.052	10.050
#1	-.00055	.00108	-.00123	.00292	-.00323
#2	-.00025	.00448	-.00266	.00548	-.00373

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Analysis Report Thu 04-18-96 10:56:10 AM page 1

Method: SOW40 Sample Name: 3082 Operator: SJ
Run Time: 04/18/96 10:54:07
Comment: MCSG42
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00262	.00110	.00763	-.00082	-.00041	1.4498	.09790
SDev	.00072	.00237	.00011	.00003	.00277	.0076	.00350
%RSD	27.377	215.33	1.3949	3.8707	666.70	.52185	3.5746
#1	.00313	-.00058	.00755	-.00080	-.00237	1.4551	.10037
#2	.00211	.00278	.00770	-.00084	.00154	1.4444	.09543

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31677	.00058	.00039	80.505	.00097	-.00040	.00082
SDev	.00135	.00001	.00009	.326	.00033	.00042	.00018
%RSD	.42473	1.9694	24.212	.40531	34.103	105.98	22.452
#1	.31772	.00059	.00046	80.736	.00074	-.00069	.00069
#2	.31582	.00057	.00032	80.275	.00120	-.00010	.00095

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01960	.01726	26.445	.00105	.00133	32.760	-.00002
SDev	.00364	.00015	.113	.00025	.00015	.226	.00038
%RSD	18.553	.84843	.42903	24.145	10.996	.69112	1697.1
#1	-.02217	.01736	26.525	.00087	.00123	32.920	-.00029
#2	-.01703	.01716	26.364	.00123	.00144	32.600	.00025

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	1.0001	.00527	.00879	.00254	-.00248
SDev	.0027	.00063	.00015	.00413	.00208
%RSD	.26633	11.953	1.7241	162.74	84.188
#1	1.0020	.00482	.00889	-.00038	-.00100
#2	.99819	.00572	.00868	.00546	-.00395

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Analysis Report Thu 04-18-96 11:00:24 AM page 1

Method: SOW40 Sample Name: 3083 Operator: SJ
Run Time: 04/18/96 10:57:16
Comment: MCSG42 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01040	.00435	.00628	.00232	-.00037	1.4570	.07771
SDev	.00407	.00095	.00122	.00222	.00237	.0103	.00041
%RSD	39.093	21.846	19.458	95.334	647.21	.70470	.52710
#1	.01327	.00502	.00715	.00389	.00131	1.4498	.07742
#2	.00752	.00368	.00542	.00076	-.00204	1.4643	.07800

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31749	.00054	.00035	80.851	.00085	-.00030	.00086
SDev	.00047	.00000	.00006	.098	.00012	.00028	.00012
%RSD	.14792	.00576	17.736	.12147	13.786	94.205	14.359
#1	.31716	.00054	.00030	80.782	.00076	-.00049	.00078
#2	.31783	.00054	.00039	80.921	.00093	-.00010	.00095

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.02682	.01715	26.529	.00145	.00069	32.783	.00020
SDev	.01116	.00003	.032	.00002	.00025	.041	.00006
%RSD	41.623	.17003	.11968	1.2515	36.748	.12524	31.427
#1	-.03472	.01713	26.507	.00144	.00051	32.754	.00016
#2	-.01893	.01717	26.552	.00146	.00087	32.812	.00025

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	1.0027	.00599	.00643	.01387	-.00336
SDev	.0001	.00105	.00130	.00362	.00153
%RSD	.01396	17.608	20.307	26.086	45.382
#1	1.0026	.00674	.00735	.01643	-.00228
#2	1.0028	.00525	.00550	.01131	-.00444

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Analysis Report Thu 04-18-96 11:03:13 AM page 1

Method: SOW40 Sample Name: 3084 Operator: SJ
Run Time: 04/18/96 11:00:54
Comment: MCSG42 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04443	.05892	.02590	.01464	.48009	1.3970	1.9442
SDev	.00251	.01108	.00040	.00892	.00209	.0378	.0094
%RSD	5.6515	18.799	1.5575	60.954	.43542	2.7077	.48260
#1	.04265	.06676	.02618	.02094	.47861	1.4238	1.9375
#2	.04620	.05109	.02561	.00833	.48157	1.3703	1.9508

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3089	.05033	.04991	77.892	.18880	.45033	.24458
SDev	.0196	.00057	.00056	.435	.00058	.00308	.00086
%RSD	.84711	1.1346	1.1121	.55788	.30896	.68368	.35011
#1	2.2951	.04992	.04952	77.585	.18839	.44815	.24398
#2	2.3227	.05073	.05030	78.199	.18922	.45251	.24519

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.93740	.47714	25.617	.44449	.05348	31.619	.45938
SDev	.00762	.00328	.180	.00281	.00008	.079	.00338
%RSD	.81334	.68641	.70145	.63271	.15775	.24858	.73628
#1	.94279	.47483	25.490	.44251	.05342	31.563	.45699
#2	.93201	.47946	25.744	.44648	.05353	31.674	.46177

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	1.4296	.02350	.02708	.02582	.00913
SDev	.0115	.00121	.00120	.01461	.00612
%RSD	.80394	5.1644	4.4301	56.564	67.074
#1	1.4214	.02264	.02793	.03615	.01345
#2	1.4377	.02436	.02623	.01550	.00480

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Analysis Report Thu 04-18-96 11:11:59 AM page 1

Method: SOW40 Sample Name: 3082LX5 Operator: SJ
Run Time: 04/18/96 11:09:55
Comment: MCSG42LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00380	.00035	.00169	-.00071	-.00017	.31169	.06289
SDev	.00048	.00048	.00017	.00104	.00115	.00577	.00329
%RSD	12.572	134.17	10.190	146.40	678.92	1.8508	5.2263
#1	.00414	.00069	.00157	-.00144	-.00098	.31577	.06521
#2	.00347	.00002	.00181	.00002	.00064	.30761	.06056

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06468	.00052	-.00009	15.977	.00025	.00040	.00008
SDev	.00008	.00003	.00010	.025	.00019	.00014	.00000
%RSD	.11774	6.5292	111.44	.15711	78.916	35.373	1.5213
#1	.06463	.00054	-.00002	15.959	.00011	.00049	.00008
#2	.06474	.00049	-.00016	15.994	.00038	.00030	.00009

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.01597	.00344	5.2227	.00065	.00010	6.6259	.00034
SDev	.01030	.00006	.0147	.00002	.00015	.0437	.00000
%RSD	64.478	1.7310	.28172	2.7730	140.24	.66012	.00000
#1	-.02325	.00348	5.2123	.00064	.00021	6.5949	.00034
#2	-.00869	.00340	5.2331	.00067	.00000	6.6568	.00034

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.20486	.00324	.00093	.00575	-.00389
SDev	.00049	.00042	.00005	.00581	.00132
%RSD	.23938	13.113	5.1787	101.07	33.870
#1	.20451	.00294	.00090	.00164	-.00296
#2	.20521	.00354	.00096	.00986	-.00482

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Analysis Report Thu 04-18-96 11:16:42 AM page 1

Method: SOW40 Sample Name: 3136 Operator: SJ
Run Time: 04/18/96 11:14:40
Comment: MFGH18
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00685	-.00148	.01028	.00085	-.00037	2.4987	1.9899
SDev	.00335	.00190	.00079	.00068	.00057	.0016	.0029
%RSD	48.900	128.50	7.7095	80.015	156.52	.06489	.14468
#1	.00921	-.00283	.01084	.00133	-.00077	2.4976	1.9879
#2	.00448	-.00014	.00972	.00037	.00004	2.4998	1.9919

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36686	.00073	.00042	144.36	.00769	.00109	.02353
SDev	.00005	.00000	.00002	.09	.00000	.00000	.00006
%RSD	.01383	.01072	3.8197	.06476	.00192	.00000	.25816
#1	.36690	.00073	.00043	144.30	.00769	.00109	.02357
#2	.36683	.00073	.00041	144.43	.00769	.00109	.02348

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.4985	.10005	2.7506	.01901	.00049	16.668	.01010
SDev	.0040	.00019	.0008	.00040	.00000	.033	.00016
%RSD	.26700	.19269	.02810	2.0994	.11977	.19707	1.5644
#1	1.4957	.09991	2.7511	.01873	.00049	16.692	.01021
#2	1.5013	.10019	2.7500	.01930	.00049	16.645	.00999

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.05911	.00972	.01055	.00489	-.00114
SDev	.00084	.00027	.00105	.00090	.00146
%RSD	1.4227	2.7734	9.9491	18.487	127.58
#1	.05971	.00991	.01130	.00425	-.00011
#2	.05852	.00953	.00981	.00553	-.00217

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Analysis Report Thu 04-18-96 11:19:41 AM page 1

Method: SOW40 Sample Name: 3137 Operator: SJ
Run Time: 04/18/96 11:17:35
Comment: MFGH18 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00879	.00032	.00935	.00144	.00236	2.5339	2.0002
SDev	.00299	.00127	.00029	.00018	.00118	.0049	.0010
%RSD	34.003	402.12	3.0858	12.302	50.123	.19195	.05126
#1	.01091	-.00058	.00955	.00132	.00152	2.5304	1.9995
#2	.00668	.00121	.00914	.00157	.00319	2.5373	2.0009

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36887	.00075	.00055	145.78	.00777	.00138	.02366
SDev	.00077	.00001	.00009	.22	.00019	.00014	.00037
%RSD	.20989	1.5051	15.821	.14958	2.5002	10.119	1.5501
#1	.36832	.00076	.00049	145.63	.00763	.00148	.02340
#2	.36941	.00074	.00061	145.94	.00791	.00128	.02392

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.5030	.10072	2.7643	.01921	.00062	16.732	.01046
SDev	.0057	.00002	.0015	.00009	.00040	.018	.00010
%RSD	.38037	.01476	.05603	.47235	64.671	.10517	.90655
#1	1.5070	.10071	2.7654	.01914	.00034	16.720	.01039
#2	1.4989	.10073	2.7632	.01927	.00090	16.745	.01053

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.05961	.00965	.00920	.01357	-.00453
SDev	.00084	.00066	.00010	.00026	.00014
%RSD	1.4111	6.8866	1.1217	1.9045	3.0284
#1	.06020	.01012	.00927	.01339	-.00463
#2	.05901	.00918	.00912	.01375	-.00444

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Analysis Report Thu 04-18-96 11:22:51 AM page 1

Method: SOW40 Sample Name: 3138 Operator: SJ
Run Time: 04/18/96 11:20:44
Comment: MFGH18 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04578	.05586	.02878	.01093	.46570	2.4349	3.7535
SDev	.00251	.00491	.00101	.00428	.00206	.0065	.0059
%RSD	5.4849	8.7873	3.5227	39.120	.44253	.26633	.15801
#1	.04400	.05933	.02806	.00791	.46424	2.4303	3.7493
#2	.04756	.05239	.02950	.01396	.46715	2.4395	3.7576

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3365	.05024	.04905	140.76	.19253	.45062	.27079
SDev	.0053	.00007	.00032	.13	.00002	.00014	.00043
%RSD	.22489	.13281	.65219	.09495	.01027	.03106	.15834
#1	2.3327	.05019	.04883	140.66	.19252	.45053	.27049
#2	2.3402	.05028	.04928	140.85	.19254	.45072	.27109

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4035	.55255	2.6722	.46101	.05023	16.219	.46450
SDev	.0011	.00088	.0008	.00058	.00033	.016	.00133
%RSD	.04714	.15839	.02925	.12594	.65943	.10126	.28582
#1	2.4027	.55193	2.6717	.46060	.04999	16.207	.46356
#2	2.4043	.55317	2.6728	.46142	.05046	16.230	.46544

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.51586	.02658	.02986	.01731	.00779
SDev	.00112	.00064	.00120	.00633	.00327
%RSD	.21736	2.4249	4.0041	36.563	41.918
#1	.51665	.02613	.02902	.01284	.00548
#2	.51506	.02704	.03071	.02179	.01010

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Analysis Report Thu 04-18-96 11:33:26 AM page 1

Method: SOW40 Sample Name: 3136LX5 Operator: SJ
Run Time: 04/18/96 11:31:21
Comment: MFGH18LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00194	-.00000	.00221	-.00169	.00138	.50827	.42526
SDev	.00072	.00174	.00082	.00051	.00054	.00416	.00144
%RSD	36.898	104870.	36.864	30.307	38.980	.81923	.33784
#1	.00245	-.00123	.00279	-.00205	.00177	.50532	.42627
#2	.00144	.00123	.00164	-.00133	.00100	.51121	.42424

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07520	.00056	-.00002	28.861	.00148	.00040	.00528
SDev	.00008	.00001	.00014	.040	.00012	.00014	.00006
%RSD	.10127	1.9898	610.13	.13806	7.8910	35.381	1.1663
#1	.07525	.00057	-.00012	28.889	.00156	.00049	.00523
#2	.07515	.00055	.00008	28.833	.00139	.00030	.00532

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.30929	.02058	.55872	.00446	.00026	3.4192	.00199
SDev	.00257	.00007	.00271	.00025	.00036	.0008	.00006
%RSD	.83227	.36063	.48501	5.6894	138.58	.02331	3.1780
#1	.30747	.02063	.55680	.00429	.00001	3.4197	.00203
#2	.31111	.02052	.56063	.00464	.00052	3.4186	.00194

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.01402	.00413	.00127	.00399	-.00449
SDev	.00000	.00056	.00094	.00000	.00077
%RSD	.00070	13.460	74.366	.00176	17.038
#1	.01402	.00452	.00194	.00399	-.00503
#2	.01402	.00374	.00060	.00399	-.00395

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Analysis Report Thu 04-18-96 11:37:05 AM page 1

Method: SOW40 Sample Name: 2918 Operator: SJ
Run Time: 04/18/96 11:34:57
Comment: MCSG35
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00085	.00426	-.00101	.00277	-.00082	-.03057	.05723
SDev	.00203	.00063	.00046	.00319	.00186	.00865	.00226
%RSD	240.45	14.900	44.927	115.03	227.18	28.284	3.9394
#1	.00228	.00470	-.00069	.00502	.00050	-.02446	.05564
#2	-.00059	.00381	-.00134	.00052	-.00213	-.03668	.05883

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.00051	-.00019	.06678	.00052	-.00020	-.00061
SDev	.00005	.00000	.00002	.00188	.00012	.00014	.00012
%RSD	20.951	.02448	12.138	2.8190	22.304	70.650	20.178
#1	.00028	.00051	-.00021	.06811	.00060	-.00010	-.00052
#2	.00021	.00051	-.00018	.06545	.00044	-.00030	-.00069

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00464	-.00040	.00493	.00046	.00031	.02986	-.00020
SDev	.00028	.00000	.00039	.00015	.00000	.00938	.00025
%RSD	6.1090	.01169	7.8620	31.427	.29471	31.427	125.71
#1	-.00484	-.00040	.00520	.00036	.00031	.02323	-.00038
#2	-.00444	-.00040	.00465	.00056	.00031	.03650	-.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.03251	-.00139	-.00083	.01069	-.00113
SDev	.00049	.00292	.00076	.00065	.00507
%RSD	1.5094	210.30	91.441	6.0419	448.40
#1	.03216	.00068	-.00137	.01023	.00246
#2	.03285	-.00346	-.00029	.01115	-.00472

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Analysis Report Thu 04-18-96 11:40:18 AM page 1

Method: SOW40 Sample Name: 2934 Operator: SJ
Run Time: 04/18/96 11:38:04
Comment: MCSG36
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00440	.00022	-.00150	.00144	.00186	.00650	.05984
SDev	.00060	.00095	.00048	.00163	.00091	.00811	.00103
%RSD	13.598	428.96	31.861	113.54	49.203	124.78	1.7184
#1	.00482	.00089	-.00116	.00028	.00121	.01223	.05912
#2	.00397	-.00045	-.00184	.00259	.00250	.00076	.06057

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00023	.00052	-.00014	.05369	.00059	.00020	.00004
SDev	.00001	.00000	.00008	.00094	.00017	.00014	.00006
%RSD	5.4393	.00594	54.275	1.7532	29.598	70.741	141.59
#1	.00024	.00052	-.00009	.05435	.00071	.00030	-.00000
#2	.00022	.00052	-.00020	.05302	.00047	.00010	.00009

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00242	-.00042	.00246	.00047	.00039	.00581	.00007
SDev	.00285	.00003	.00387	.00045	.00011	.00587	.00006
%RSD	117.74	7.0535	157.37	95.555	28.323	101.02	94.281
#1	-.00041	-.00044	-.00028	.00015	.00046	.00166	.00011
#2	-.00444	-.00040	.00520	.00080	.00031	.00995	.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.02686	-.00259	-.00096	.00685	-.00123
SDev	.00007	.00007	.00068	.00142	.00174
%RSD	.26149	2.5250	70.916	20.741	141.30
#1	.02681	-.00255	-.00048	.00585	-.00246
#2	.02691	-.00264	-.00144	.00786	-.00000

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Analysis Report QC Standard Thu 04-18-96 11:43:11 AM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 11:41:04
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	.51378	.21023	.49664	.19471	.51355	47.555	25.567
SDev	.00442	.00224	.00243	.00187	.00223	.086	.024
%RSD	.86113	1.0659	.48906	.95843	.43510	.18068	.09477
#1	.51065	.20865	.49492	.19603	.51197	47.494	25.584
#2	.51690	.21181	.49836	.19339	.51513	47.616	25.550

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50076	.10276	.50125	26.408	.49186	.48796	.50394
SDev	.00062	.00001	.00102	.029	.00051	.00070	.00086
%RSD	.12419	.01116	.20372	.10812	.10269	.14338	.17042
#1	.50120	.10275	.50197	26.428	.49222	.48845	.50455
#2	.50032	.10277	.50053	26.387	.49150	.48746	.50333

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.9222	.49580	26.176	.49411	1.0222	26.015	.51687
SDev	.0129	.00068	.028	.00044	.0015	.023	.00047
%RSD	.12974	.13752	.10653	.08813	.14215	.09019	.09174
#1	9.9313	.49628	26.195	.49442	1.0232	25.999	.51720
#2	9.9131	.49532	26.156	.49380	1.0211	26.032	.51653

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.50480	.48259	.50357	.29801	.14383
SDev	.00196	.00175	.00276	.00077	.00240
%RSD	.38863	.36282	.54865	.25977	1.6714
#1	.50619	.48135	.50161	.29856	.14553
#2	.50341	.48382	.50552	.29747	.14213

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Analysis Report QC Standard Thu 04-18-96 11:46:11 AM page 1

Method: SOW40 Sample Name: CCB6 Operator: SJ
Run Time: 04/18/96 11:44:04
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	.00186	-.00101	-.00096	-.00024	.00158	-.02178	.07117
SDev	.00131	.00396	.00054	.00004	.00247	.00270	.00102
%RSD	70.705	392.77	56.161	16.162	156.52	12.405	1.4370
#1	.00279	-.00381	-.00058	-.00027	-.00017	-.01987	.07189
#2	.00093	.00179	-.00134	-.00022	.00332	-.02369	.07045

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	.00059	.00019	.01575	-.00008	-.00010	-.00035
SDev	.00004	.00002	.00019	.00063	.00035	.00028	.00000
%RSD	13.258	3.8040	100.40	3.9837	424.65	282.99	.23691
#1	.00026	.00060	.00006	.01531	.00016	-.00030	-.00035
#2	.00031	.00057	.00033	.01620	-.00033	.00010	-.00035

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00423	-.00002	.01342	.00063	.00103	-.06553	.00009
SDev	.00658	.00003	.00155	.00002	.00044	.00117	.00022
%RSD	155.26	140.38	11.543	2.8861	42.490	1.7902	247.49
#1	-.00888	-.00000	.01232	.00064	.00134	-.06470	.00025
#2	.00041	-.00004	.01451	.00062	.00072	-.06636	-.00007

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00124	.00216	-.00249	.00585	-.00325
SDev	.00000	.00180	.00169	.00181	.00083
%RSD	.02397	83.432	67.797	30.937	25.642
#1	-.00124	.00088	-.00130	.00457	-.00266
#2	-.00124	.00343	-.00368	.00713	-.00383

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Analysis Report Thu 04-18-96 11:49:28 AM page 1

Method: SOW40 Sample Name: 2935 Operator: SJ
Run Time: 04/18/96 11:47:17
Comment: MCSG37
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00685	.00483	.00437	-.00555	.00016	1.2560	.25621
SDev	.00120	.00778	.00007	.00955	.00135	.0005	.00020
%RSD	17.461	161.04	1.7234	172.00	856.21	.04302	.08017
#1	.00769	-.00067	.00442	.00120	-.00080	1.2557	.25636
#2	.00600	.01033	.00432	-.01231	.00111	1.2564	.25607

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.9152	.00085	-.00009	87.952	.00114	.00980	.00458
SDev	.0010	.00001	.00010	.054	.00014	.00000	.00018
%RSD	.03396	1.3222	113.74	.06171	11.811	.00034	3.9525
#1	2.9145	.00084	-.00016	87.913	.00105	.00980	.00471
#2	2.9159	.00086	-.00002	87.990	.00124	.00980	.00445

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.7535	8.4356	31.636	.01259	.00077	24.318	.00060
SDev	.0206	.0029	.025	.00053	.00007	.028	.00000
%RSD	.54856	.03428	.07964	4.1806	9.5084	.11577	.00000
#1	3.7389	8.4335	31.618	.01296	.00082	24.298	.00060
#2	3.7680	8.4376	31.654	.01221	.00071	24.338	.00060

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04588	.00358	.00476	.00674	-.01161
SDev	.00021	.00004	.00009	.02120	.00382
%RSD	.45795	1.0489	1.9730	314.40	32.891
#1	.04574	.00360	.00483	.02173	-.00891
#2	.04603	.00355	.00469	-.00825	-.01431

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Analysis Report Thu 04-18-96 11:52:25 AM page 1

Method: SOW40 Sample Name: 2936 Operator: SJ
Run Time: 04/18/96 11:50:16
Comment: MCSG38
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00211	.00793	-.00256	.00008	-.00072	1.4169	.08598
SDev	.00215	.00444	.00080	.00420	.00051	.0043	.00185
%RSD	101.89	55.919	31.163	5158.4	70.499	.30512	2.1467
#1	.00363	.00480	-.00312	-.00289	-.00036	1.4139	.08728
#2	.00059	.01107	-.00200	.00305	-.00108	1.4200	.08467

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11569	.00069	-.00006	100.57	.00543	-.00060	.00125
SDev	.00016	.00001	.00017	.07	.00019	.00042	.00006
%RSD	.14263	1.6150	274.33	.07144	3.5740	70.559	4.9532
#1	.11557	.00070	.00006	100.52	.00530	-.00030	.00130
#2	.11580	.00068	-.00018	100.62	.00557	-.00089	.00121

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.03522	.01683	34.062	.00036	.00085	40.144	.00063
SDev	.00596	.00007	.067	.00004	.00025	.230	.00016
%RSD	16.912	.44691	.19552	10.102	29.912	.57277	25.254
#1	-.03101	.01689	34.015	.00033	.00067	39.981	.00074
#2	-.03943	.01678	34.109	.00038	.00103	40.306	.00051

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.02730	-.00379	-.00196	.01396	-.00676
SDev	.00070	.00040	.00139	.00581	.00340
%RSD	2.5665	10.614	71.002	41.648	50.389
#1	.02680	-.00350	-.00294	.00985	-.00916
#2	.02780	-.00407	-.00097	.01808	-.00435

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Analysis Report Thu 04-18-96 11:55:38 AM page 1

Method: SOW40 Sample Name: 3080 Operator: SJ
Run Time: 04/18/96 11:53:33
Comment: MCSG39
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00676	-.00067	-.00130	-.00204	-.00001	-.01911	.07553
SDev	.00108	.00127	.00015	.00057	.00173	.04431	.00266
%RSD	15.912	190.54	11.648	27.952	24060.	231.93	3.5288
#1	.00600	.00023	-.00141	-.00245	-.00123	.01223	.07742
#2	.00752	-.00156	-.00119	-.00164	.00121	-.05044	.07365

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00095	.00060	-.00011	.13090	.00069	-.00010	-.00009
SDev	.00014	.00001	.00020	.00282	.00047	.00000	.00037
%RSD	14.676	1.9063	182.03	2.1573	67.938	.11646	429.36
#1	.00105	.00059	.00003	.13289	.00102	-.00010	.00017
#2	.00085	.00060	-.00025	.12890	.00036	-.00010	-.00035

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00689	.00117	.03341	.00040	.00005	.09622	-.00016
SDev	.00572	.00024	.00736	.00049	.00080	.00000	.00025
%RSD	82.952	20.206	22.024	123.17	1578.1	.00000	161.62
#1	.01093	.00134	.03862	.00074	.00062	.09622	.00002
#2	.00285	.00101	.02821	.00005	-.00051	.09622	-.00034

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.03439	-.00009	-.00190	.00877	-.00737
SDev	.00063	.00140	.00046	.00569	.00195
%RSD	1.8352	1631.9	24.357	64.833	26.424
#1	.03394	-.00107	-.00157	.00475	-.00599
#2	.03484	.00090	-.00223	.01279	-.00875

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Analysis Report Thu 04-18-96 11:59:42 AM page 1

Method: SOW40 Sample Name: 3081 Operator: SJ
Run Time: 04/18/96 11:56:31
Comment: MCSG41
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01057	.00254	.01630	.00247	.00250	1.9775	3.2834
SDev	.00239	.00052	.00075	.00398	.00091	.0222	.0142
%RSD	22.630	20.455	4.6166	161.49	36.481	1.1204	.43184
#1	.01226	.00217	.01683	-.00035	.00186	1.9618	3.2733
#2	.00888	.00291	.01576	.00528	.00314	1.9932	3.2934

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.39919	.00118	-.00030	42.126	.00608	.00435	.01948
SDev	.00183	.00001	.00002	.209	.00033	.00070	.00005
%RSD	.45785	.96401	7.4600	.49678	5.4742	16.078	.26089
#1	.39790	.00117	-.00031	41.978	.00632	.00386	.01952
#2	.40048	.00119	-.00028	42.274	.00585	.00485	.01945

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	18.345	1.6343	27.368	.00889	.00062	11.004	.01089
SDev	.083	.0073	.144	.00005	.00018	.080	.00025
%RSD	.45380	.44450	.52512	.61222	28.868	.72491	2.3231
#1	18.286	1.6291	27.267	.00885	.00050	10.948	.01106
#2	18.403	1.6394	27.470	.00893	.00075	11.061	.01071

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.12453	.01398	.01744	.01080	-.00164
SDev	.00014	.00286	.00028	.00103	.00544
%RSD	.11278	20.435	1.6313	9.4933	332.61
#1	.12443	.01600	.01724	.01007	-.00548
#2	.12463	.01196	.01764	.01152	.00221

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Analysis Report Thu 04-18-96 12:02:56 PM page 1

Method: SOW40 Sample Name: 3085 Operator: SJ
Run Time: 04/18/96 12:00:45
Comment: MCSG43
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01065	-.00286	.01709	-.00137	-.00086	1.8307	3.3969
SDev	.00227	.00258	.00006	.00337	.00087	.0135	.0105
%RSD	21.328	90.250	.37047	246.16	102.10	.73796	.30826
#1	.00905	-.00468	.01704	-.00375	-.00148	1.8212	3.3895
#2	.01226	-.00103	.01713	.00101	-.00024	1.8403	3.4044

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37235	.00117	-.00023	38.088	.00620	.00396	.01924
SDev	.00115	.00002	.00003	.121	.00010	.00014	.00011
%RSD	.31020	1.9090	13.704	.31797	1.5417	3.5363	.58875
#1	.37153	.00115	-.00025	38.002	.00613	.00386	.01932
#2	.37316	.00119	-.00020	38.174	.00627	.00406	.01916

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	16.755	1.5355	25.030	.01073	.00020	10.098	.01066
SDev	.074	.0047	.115	.00004	.00087	.025	.00025
%RSD	.43873	.30411	.45962	.33833	445.50	.24397	2.3718
#1	16.703	1.5322	24.948	.01075	-.00042	10.080	.01048
#2	16.807	1.5388	25.111	.01070	.00081	10.115	.01084

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.10634	.01455	.01834	.00818	-.00607
SDev	.00077	.00252	.00115	.00594	.00210
%RSD	.72486	17.331	6.2586	72.552	34.640
#1	.10579	.01277	.01915	.00399	-.00756
#2	.10689	.01634	.01753	.01238	-.00459

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Analysis Report Thu 04-18-96 12:05:51 PM page 1

Method: SOW40 Sample Name: 3139 Operator: SJ
Run Time: 04/18/96 12:03:35
Comment: MFGH09
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00954	-.00872	.01498	.00028	.00204	2.8071	4.4169
SDev	.00048	.00194	.00022	.00185	.00101	.0162	.0263
%RSD	5.0109	22.190	1.4454	652.94	49.604	.57755	.59519
#1	.00988	-.00735	.01513	.00159	.00275	2.8185	4.4355
#2	.00921	-.01009	.01483	-.00102	.00132	2.7956	4.3983

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31753	.00112	.00047	265.76	.04235	.00256	.11197
SDev	.00164	.00000	.00003	1.20	.00019	.00042	.00049
%RSD	.51564	.00973	6.5039	.45015	.45602	16.386	.43830
#1	.31869	.00112	.00049	266.61	.04248	.00227	.11232
#2	.31637	.00112	.00045	264.92	.04221	.00286	.11162

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.7706	.84230	3.7871	.21689	.00062	31.503	.01802
SDev	.0072	.00354	.0198	.00074	.00004	.181	.00022
%RSD	.25823	.42077	.52223	.34299	5.8920	.57346	1.2282
#1	2.7757	.84481	3.8010	.21742	.00065	31.631	.01817
#2	2.7656	.83980	3.7731	.21636	.00060	31.376	.01786

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.15299	.01452	.01521	.00565	-.00236
SDev	.00007	.00114	.00024	.00104	.00327
%RSD	.04592	7.8371	1.5590	18.359	138.30
#1	.15294	.01532	.01504	.00492	-.00005
#2	.15304	.01371	.01538	.00639	-.00467

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Analysis Report Thu 04-18-96 12:09:05 PM page 1

Method: SOW40 Sample Name: 3140 Operator: SJ
Run Time: 04/18/96 12:06:24
Comment: MFGH08
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00710	-.00595	.01414	.00198	.00261	1.6989	5.5651
SDev	.00155	.00463	.00017	.00332	.00091	.0216	.0043
%RSD	21.900	77.724	1.2415	167.56	34.970	1.2723	.07740
#1	.00600	-.00922	.01426	-.00037	.00196	1.7142	5.5682
#2	.00820	-.00268	.01401	.00433	.00325	1.6836	5.5621

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.36276	.00126	.00023	363.64	.01774	.00336	.02683
SDev	.00085	.00000	.00014	.73	.00004	.00014	.00006
%RSD	.23442	.01233	59.670	.20052	.21860	4.1646	.23460
#1	.36336	.00126	.00013	364.15	.01777	.00346	.02679
#2	.36216	.00126	.00033	363.12	.01771	.00326	.02688

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.7030	.50306	4.2626	.03764	.00068	18.091	.01866
SDev	.0137	.00064	.0023	.00018	.00022	.123	.00032
%RSD	.37043	.12676	.05464	.48201	31.957	.68087	1.6937
#1	3.6933	.50351	4.2642	.03751	.00084	18.178	.01889
#2	3.7127	.50261	4.2609	.03777	.00053	18.004	.01844

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.11312	.01266	.01486	.00845	-.00121
SDev	.00070	.00066	.00006	.00039	.00515
%RSD	.61951	5.2105	.42342	4.5778	426.97
#1	.11362	.01312	.01482	.00873	-.00485
#2	.11262	.01219	.01491	.00818	.00243

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Analysis Report Thu 04-18-96 12:14:42 PM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 04/18/96 12:12:28
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	.02096	.01709	.00474	.00871	.12347	-.01261	.06598
SDev	.00203	.00623	.00007	.00135	.00213	.00162	.00411
%RSD	9.6963	36.444	1.5759	15.506	1.7216	12.856	6.2277
#1	.01953	.02149	.00480	.00776	.12197	-.01146	.06888
#2	.02240	.01268	.00469	.00967	.12497	-.01376	.06307

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00029	.01085	.01048	.12136	.02139	.10588	.05603
SDev	.00001	.00006	.00001	.01380	.00027	.00014	.00000
%RSD	4.4194	.51769	.06403	11.376	1.2716	.13211	.00236
#1	.00030	.01089	.01049	.13112	.02120	.10579	.05603
#2	.00028	.01081	.01048	.11159	.02158	.10598	.05603

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00579	.03250	.00739	.08495	.02486	-.01410	.10881
SDev	.01057	.00000	.00116	.00024	.00268	.00117	.00003
%RSD	182.49	.00007	15.720	.27768	10.800	8.3189	.02905
#1	.01327	.03250	.00821	.08511	.02296	-.01327	.10879
#2	-.00168	.03250	.00657	.08478	.02676	-.01493	.10883

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04200	.00733	.00347	.00996	.00810
SDev	.00021	.00012	.00006	.00620	.00507
%RSD	.50108	1.5729	1.5790	62.295	62.624
#1	.04215	.00741	.00351	.01434	.00451
#2	.04186	.00725	.00343	.00557	.01168

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Method: SOW40 Sample Name: ICSA994 Operator: SJ
Run Time: 04/18/96 12:15:58
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	-.00000	-.01501	-.00288	-.00234	-.00039	.05579	460.35
SDev	.00419	.00761	.00092	.00294	.00080	.00865	.46
%RSD	85802.	50.664	31.909	125.23	204.02	15.498	.10080
#1	-.00296	-.00963	-.00223	-.00442	-.00095	.04968	460.02
#2	.00295	-.02039	-.00353	-.00027	.00017	.06190	460.68

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00201	.00062	.00294	495.14	.02041	-.00406	.00008
SDev	.00006	.00002	.00023	1.80	.00015	.00028	.00023
%RSD	3.1567	3.6354	7.7397	.36423	.76123	6.8891	302.88
#1	.00197	.00060	.00310	493.87	.02030	-.00426	-.00009
#2	.00206	.00063	.00278	496.42	.02052	-.00386	.00024

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	168.61	.00137	479.04	.00204	.00003	.05475	.00145
SDev	.36	.00003	.67	.00013	.00018	.00235	.00006
%RSD	.21499	1.8597	.13976	6.2261	589.76	4.2855	4.3514
#1	168.35	.00139	478.56	.00195	-.00010	.05641	.00150
#2	168.86	.00135	479.51	.00213	.00016	.05309	.00141

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00628	-.11117	.05046	.03400	-.02024
SDev	.00014	.00253	.00013	.00078	.00477
%RSD	2.2354	2.2748	.24838	2.2976	23.542
#1	.00638	-.10938	.05055	.03455	-.02361
#2	.00618	-.11296	.05037	.03345	-.01687

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Analysis Report QC Standard Thu 04-18-96 12:24:07 PM page 1

Method: SOW40 Sample Name: ICSAB691 Operator: SJ
Run Time: 04/18/96 12:22:00
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	.00437	-.00208	4.2560	-.00250	-.00518	.04662	469.36
SDev	.00287	.00158	.0077	.00502	.00068	.00757	1.01
%RSD	65.605	76.151	.18192	200.62	13.192	16.229	.21602
#1	.00235	-.00096	4.2506	.00105	-.00469	.04127	468.64
#2	.00640	-.00319	4.2615	-.00605	-.00566	.05197	470.07

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46372	.43563	.82696	487.13	.44750	.43344	.54761
SDev	.00068	.00061	.00244	.98	.00017	.00196	.00008
%RSD	.14780	.13910	.29527	.20032	.03911	.45203	.01473
#1	.46324	.43520	.82523	486.44	.44737	.43206	.54755
#2	.46421	.43606	.82869	487.82	.44762	.43483	.54766

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	166.31	.43537	479.57	.80009	.94821	.05475	.45623
SDev	.16	.00050	.35	.00042	.00044	.00000	.00076
%RSD	.09343	.11457	.07258	.05216	.04620	.00000	.16628
#1	166.20	.43502	479.32	.80039	.94790	.05475	.45569
#2	166.42	.43572	479.82	.79980	.94852	.05475	.45676

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.78175	4.0363	4.3643	.02319	-.01516
SDev	.00112	.0044	.0094	.00401	.00551
%RSD	.14345	.10888	.21519	17.289	36.386
#1	.78254	4.0332	4.3576	.02603	-.01126
#2	.78096	4.0394	4.3709	.02036	-.01905

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Analysis Report QC Standard Thu 04-18-96 12:27:12 PM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 12:25:02
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	.51462	.20422	.49999	.19226	.51551	48.099	25.657
SDev	.00442	.00235	.00045	.00172	.00088	.240	.045
%RSD	.85973	1.1519	.09039	.89279	.17125	.49997	.17445
#1	.51149	.20255	.50031	.19105	.51489	48.269	25.689
#2	.51775	.20588	.49967	.19348	.51614	47.929	25.626

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49937	.10386	.50744	27.011	.49528	.48934	.50526
SDev	.00013	.00009	.00030	.020	.00056	.00042	.00061
%RSD	.02542	.08701	.05974	.07550	.11386	.08583	.12090
#1	.49946	.10380	.50722	27.025	.49568	.48905	.50569
#2	.49928	.10393	.50765	26.996	.49488	.48964	.50483

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.087	.49785	26.450	.49733	1.0216	26.182	.51955
SDev	.012	.00003	.007	.00111	.0010	.093	.00111
%RSD	.11619	.00597	.02635	.22255	.09983	.35397	.21295
#1	10.079	.49787	26.455	.49655	1.0223	26.248	.52033
#2	10.096	.49783	26.445	.49811	1.0209	26.117	.51877

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.51396	.49010	.50487	.29536	.14149
SDev	.00133	.00093	.00021	.00452	.00033
%RSD	.25916	.19073	.04242	1.5314	.23614
#1	.51302	.49076	.50502	.29216	.14125
#2	.51491	.48944	.50472	.29856	.14172

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Analysis Report QC Standard Thu 04-18-96 12:30:05 PM page 1

Method: SOW40 Sample Name: CCB7 Operator: SJ
Run Time: 04/18/96 12:28:03
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	.00457	-.00101	-.00082	.00001	-.00024	-.02446	.12027
SDev	.00155	.00048	.00026	.00393	.00044	.02810	.00596
%RSD	34.046	47.146	31.219	29233.	182.14	114.90	4.9522
#1	.00347	-.00134	-.00100	.00279	-.00055	-.04433	.12448
#2	.00566	-.00067	-.00064	-.00277	.00007	-.00459	.11606

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00035	.00075	.00029	.07277	.00010	.00010	-.00052
SDev	.00008	.00000	.00001	.00722	.00010	.00028	.00024
%RSD	21.757	.00417	2.7098	9.9167	100.92	282.89	47.380
#1	.00030	.00075	.00030	.07787	.00003	-.00010	-.00069
#2	.00040	.00075	.00028	.06767	.00016	.00030	-.00034

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01985	-.00004	.06845	.00060	.00164	-.05558	.00007
SDev	.00057	.00003	.00813	.00016	.00072	.00117	.00006
%RSD	2.8547	69.217	11.879	27.081	44.174	2.1108	94.281
#1	.01944	-.00006	.07420	.00049	.00113	-.05641	.00011
#2	.02025	-.00002	.06270	.00072	.00216	-.05475	.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00119	.00066	-.00155	.00402	-.00196
SDev	.00021	.00118	.00020	.00853	.00167
%RSD	17.683	178.06	12.781	212.15	85.105
#1	-.00104	-.00017	-.00141	.01005	-.00078
#2	-.00134	.00150	-.00169	-.00201	-.00314

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Analysis Report Thu 04-18-96 12:35:27 PM page 1

Method: SOW40 Sample Name: 3224 Operator: SJ
Run Time: 04/18/96 12:33:23
Comment: MJK657
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01014	.00556	.00321	-.00132	.00038	13.684	.43598
SDev	.00179	.00319	.00050	.00369	.00057	.184	.00678
%RSD	17.681	57.324	15.576	278.93	152.89	1.3427	1.5561
#1	.00888	.00781	.00356	.00129	-.00003	13.814	.44077
#2	.01141	.00331	.00286	-.00393	.00078	13.554	.43118

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03063	.00075	.00011	15.137	.00832	.00297	.03036
SDev	.00015	.00003	.00017	.058	.00016	.00014	.00006
%RSD	.49723	4.4951	153.51	.38552	1.8852	4.7186	.21168
#1	.03074	.00078	.00023	15.178	.00821	.00307	.03041
#2	.03052	.00073	-.00001	15.096	.00843	.00287	.03032

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.6223	.93059	4.7160	.01359	.00092	24.139	.00362
SDev	.0243	.00377	.0175	.00049	.00018	.223	.00028
%RSD	.43224	.40474	.37014	3.6056	19.819	.92337	7.8567
#1	5.6395	.93326	4.7283	.01393	.00079	24.297	.00342
#2	5.6051	.92793	4.7036	.01324	.00105	23.981	.00382

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.06377	.00363	.00300	.00507	-.00447
SDev	.00000	.00086	.00032	.00891	.00112
%RSD	.00021	23.581	10.799	175.93	24.988
#1	.06377	.00424	.00323	.01137	-.00368
#2	.06377	.00303	.00277	-.00124	-.00526

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Analysis Report Thu 04-18-96 12:38:24 PM page 1

Method: SOW40 Sample Name: 3225 Operator: SJ
Run Time: 04/18/96 12:36:17
Comment: MJK657 D
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00879	.00496	.00345	-.00154	.00169	13.572	.42102
SDev	.00371	.00648	.00095	.00324	.00196	.103	.00288
%RSD	42.164	130.67	27.594	210.66	115.95	.76052	.68365
#1	.01141	.00038	.00278	.00075	.00308	13.645	.42305
#2	.00617	.00954	.00413	-.00383	.00030	13.499	.41898

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03032	.00074	-.00004	15.019	.00838	.00267	.02988
SDev	.00001	.00000	.00006	.041	.00012	.00028	.00012
%RSD	.04187	.00835	151.38	.27366	1.4017	10.483	.40005
#1	.03033	.00074	.00000	15.048	.00830	.00247	.02980
#2	.03031	.00074	-.00008	14.990	.00846	.00287	.02997

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.5780	.92266	4.6713	.01302	.00082	23.947	.00338
SDev	.0234	.00236	.0155	.00013	.00011	.116	.00013
%RSD	.42026	.25553	.33198	.97532	13.197	.48498	3.7463
#1	5.5946	.92432	4.6822	.01311	.00090	24.029	.00329
#2	5.5615	.92099	4.6603	.01293	.00074	23.865	.00346

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.06179	.00587	.00226	.00672	-.00561
SDev	.00028	.00005	.00145	.00064	.00452
%RSD	.45385	.90301	63.983	9.5744	80.669
#1	.06199	.00590	.00124	.00717	-.00241
#2	.06159	.00583	.00329	.00626	-.00881

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Analysis Report Thu 04-18-96 12:41:45 PM page 1

Method: SOW40 Sample Name: 3226 Operator: SJ
Run Time: 04/18/96 12:39:36
Comment: MJK657 S
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04806	.05704	.02272	.01088	.49810	11.675	2.2864
SDev	.00072	.00270	.00078	.00034	.00388	.030	.0031
%RSD	1.4929	4.7337	3.4169	3.0934	.77959	.25458	.13454
#1	.04857	.05895	.02326	.01111	.49535	11.696	2.2886
#2	.04755	.05513	.02217	.01064	.50085	11.654	2.2842

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1418	.05441	.05359	12.670	.20865	.49120	.28774
SDev	.0001	.00006	.00013	.021	.00012	.00042	.00055
%RSD	.00416	.10297	.24721	.16840	.05610	.08548	.19144
#1	2.1417	.05445	.05368	12.685	.20856	.49149	.28735
#2	2.1418	.05437	.05350	12.655	.20873	.49090	.28813

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.7095	1.2716	3.9303	.49705	.05380	20.943	.49347
SDev	.0020	.0017	.0081	.00085	.00033	.001	.00025
%RSD	.03509	.13295	.20725	.17157	.60833	.00560	.05124
#1	5.7109	1.2728	3.9360	.49765	.05403	20.944	.49365
#2	5.7081	1.2704	3.9245	.49644	.05357	20.942	.49329

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.58175	.02169	.02322	.01740	.00766
SDev	.00098	.00183	.00026	.00300	.00097
%RSD	.16863	8.4568	1.0982	17.223	12.706
#1	.58106	.02299	.02340	.01952	.00698
#2	.58244	.02039	.02304	.01528	.00835

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Method: SOW40 Sample Name: 3224LX5 Operator: SJ
Run Time: 04/18/96 12:42:26
Comment: MJK657LX5
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00313	.00387	.00018	-.00517	.00113	2.6445	.12897
SDev	.00096	.00111	.00063	.00271	.00037	.0060	.00103
%RSD	30.582	28.672	353.27	52.334	32.809	.22574	.79537
#1	.00380	.00465	-.00027	-.00326	.00140	2.6403	.12825
#2	.00245	.00308	.00062	-.00709	.00087	2.6487	.12970

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00647	.00071	-.00010	3.1024	.00170	.00040	.00564
SDev	.00003	.00000	.00010	.0003	.00002	.00042	.00043
%RSD	.39229	.00435	100.83	.01011	1.1447	106.18	7.6086
#1	.00645	.00071	-.00017	3.1022	.00169	.00010	.00534
#2	.00649	.00071	-.00003	3.1027	.00172	.00069	.00595

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1596	.19442	.96155	.00327	-.00025	4.5159	.00047
SDev	.0063	.00009	.00349	.00027	.00004	.0070	.00006
%RSD	.54188	.04573	.36250	8.3189	14.519	.15587	13.469
#1	1.1552	.19449	.96402	.00308	-.00022	4.5209	.00042
#2	1.1640	.19436	.95909	.00346	-.00027	4.5109	.00051

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.01344	.00218	-.00081	-.01082	-.00239
SDev	.00048	.00101	.00044	.01004	.00090
%RSD	3.5570	46.516	53.872	92.764	37.845
#1	.01310	.00146	-.00111	-.00372	-.00303
#2	.01378	.00289	-.00050	-.01792	-.00175

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Analysis Report Thu 04-18-96 12:49:10 PM page 1

Method: SOW40 Sample Name: 3141 Operator: SJ
Run Time: 04/18/96 12:47:07
Comment: MFGH07
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01276	.00021	.01487	-.00193	.00083	2.8434	11.710
SDev	.00024	.00239	.00078	.00516	.00121	.0049	.109
%RSD	1.8734	1120.2	5.2432	267.29	146.26	.17105	.92801
#1	.01293	.00190	.01542	-.00558	.00168	2.8468	11.786
#2	.01259	-.00148	.01432	.00172	-.00003	2.8399	11.633

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.33160	.00193	.00028	409.85	.03581	.00712	.03418
SDev	.00314	.00001	.00009	4.02	.00052	.00014	.00031
%RSD	.94541	.58169	32.757	.98125	1.4617	1.9685	.91832
#1	.33382	.00194	.00022	412.70	.03618	.00702	.03441
#2	.32939	.00192	.00035	407.01	.03544	.00722	.03396

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.4096	.27093	5.1458	.03503	.00031	20.194	.03029
SDev	.0620	.00294	.0492	.00015	.00004	.157	.00000
%RSD	.96790	1.0835	.95612	.41442	11.508	.77845	.00000
#1	6.4534	.27301	5.1806	.03513	.00034	20.305	.03029
#2	6.3657	.26886	5.1110	.03492	.00029	20.083	.03029

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.06142	.01058	.01698	-.00031	-.00273
SDev	.00049	.00083	.00076	.00483	.00533
%RSD	.79947	7.8120	4.4550	1562.5	195.11
#1	.06107	.01116	.01751	-.00372	-.00650
#2	.06177	.00999	.01644	.00310	.00104

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Analysis Report Thu 04-18-96 12:55:17 PM page 1

Method: SOW40 Sample Name: 3142 Operator: SJ
Run Time: 04/18/96 12:53:10
Comment: MFGH06
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00811	.00172	.00865	.00042	.00127	1.7226	7.8647
SDev	.00084	.00158	.00110	.00159	.00040	.0043	.0097
%RSD	10.316	91.912	12.659	374.65	31.768	.25097	.12273
#1	.00752	.00060	.00788	-.00070	.00098	1.7196	7.8715
#2	.00870	.00284	.00943	.00155	.00155	1.7257	7.8578

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.30107	.00176	.00040	369.15	.01520	.00593	.02710
SDev	.00065	.00001	.00001	1.18	.00015	.00014	.00030
%RSD	.21500	.64078	3.5635	.32026	1.0228	2.3579	1.1238
#1	.30153	.00175	.00039	369.99	.01509	.00584	.02732
#2	.30061	.00177	.00041	368.31	.01531	.00603	.02689

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.7964	.23702	4.4254	.02136	.00042	20.739	.02226
SDev	.0126	.00034	.0012	.00002	.00007	.027	.00010
%RSD	.33120	.14393	.02618	.08494	17.532	.13010	.42597
#1	3.7876	.23726	4.4246	.02137	.00047	20.758	.02233
#2	3.8053	.23678	4.4263	.02135	.00036	20.720	.02220

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04137	.00642	.00975	.00309	-.00089
SDev	.00028	.00120	.00104	.00534	.00500
%RSD	.67736	18.727	10.691	172.89	561.79
#1	.04117	.00557	.00901	.00687	-.00443
#2	.04156	.00727	.01049	-.00069	.00265

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Method: SOW40 Sample Name: 3221 Operator: SJ
Run Time: 04/18/96 12:56:01
Comment: MJK652
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00524	.00470	.00174	-.00546	-.00124	.42225	7.2508
SDev	.00012	.00031	.00032	.00415	.00131	.01675	.0183
%RSD	2.2814	6.6791	18.438	76.023	105.69	3.9675	.25206
#1	.00532	.00448	.00196	-.00839	-.00031	.43409	7.2637
#2	.00515	.00493	.00151	-.00252	-.00217	.41040	7.2379

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03900	.00097	-.00024	6.9341	.01521	.00316	.04091
SDev	.00018	.00002	.00011	.0471	.00025	.00014	.00044
%RSD	.45567	2.3404	45.492	.67871	1.6606	4.4227	1.0635
#1	.03912	.00095	-.00017	6.9674	.01538	.00326	.04122
#2	.03887	.00098	-.00032	6.9008	.01503	.00306	.04060

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.710	.13210	3.3803	.01091	.00054	5.2716	.03867
SDev	.051	.00050	.0097	.00036	.00051	.0012	.00028
%RSD	.43925	.38161	.28649	3.3276	94.953	.02226	.73571
#1	11.747	.13246	3.3872	.01116	.00090	5.2724	.03887
#2	11.674	.13175	3.3735	.01065	.00018	5.2708	.03847

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04870	-.00027	.00273	-.00745	-.00448
SDev	.00028	.00016	.00040	.00248	.00741
%RSD	.57606	58.138	14.671	33.245	165.50
#1	.04850	-.00016	.00301	-.00570	-.00972
#2	.04890	-.00038	.00245	-.00920	.00076

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Analysis Report Thu 04-18-96 01:01:18 PM page 1

Method: SOW40 Sample Name: 3222 Operator: SJ
Run Time: 04/18/96 12:59:07
Comment: MJK654
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00558	.00366	.00232	-.00420	.00035	.72833	.70921
SDev	.00538	.00222	.00038	.00044	.00003	.00865	.00124
%RSD	96.436	60.740	16.292	10.383	9.5681	1.1872	.17493
#1	.00938	.00523	.00258	-.00389	.00033	.73444	.71009
#2	.00177	.00209	.00205	-.00451	.00038	.72221	.70834

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01989	.00085	-.00013	19.908	.00295	.00059	.01660
SDev	.00006	.00001	.00012	.046	.00004	.00042	.00012
%RSD	.31909	1.2999	88.568	.23009	1.3358	70.796	.73450
#1	.01993	.00084	-.00022	19.941	.00292	.00030	.01651
#2	.01984	.00086	-.00005	19.876	.00298	.00089	.01669

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5615	.74714	4.4669	.00438	.00001	7.9393	.00264
SDev	.0043	.00090	.0058	.00027	.00011	.0035	.00041
%RSD	.16761	.12105	.13019	6.2209	836.95	.04432	15.580
#1	2.5645	.74778	4.4710	.00457	-.00006	7.9418	.00235
#2	2.5585	.74650	4.4628	.00418	.00009	7.9368	.00293

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.03374	.00185	.00255	-.00994	-.00137
SDev	.00014	.00075	.00020	.00456	.00160
%RSD	.41526	40.306	7.7072	45.885	116.14
#1	.03365	.00238	.00269	-.00672	-.00250
#2	.03384	.00132	.00241	-.01317	-.00025

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Analysis Report Thu 04-18-96 01:04:20 PM page 1

Method: SOW40 Sample Name: 3223 Operator: SJ
Run Time: 04/18/96 13:02:18
Comment: MJK655
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00829	.00316	.00130	-.00126	-.00016	.55599	1.2257
SDev	.00084	.00238	.00078	.00415	.00226	.01459	.0037
%RSD	10.103	75.159	60.564	329.30	1372.5	2.6243	.30167
#1	.00888	.00484	.00185	.00167	-.00176	.54567	1.2230
#2	.00769	.00148	.00074	-.00419	.00143	.56631	1.2283

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01563	.00085	-.00004	8.7826	.00341	.00040	.01436
SDev	.00001	.00001	.00008	.0195	.00023	.00042	.00006
%RSD	.08118	1.3267	189.76	.22149	6.8320	106.28	.42002
#1	.01563	.00084	.00001	8.7964	.00325	.00010	.01440
#2	.01564	.00085	-.00010	8.7689	.00358	.00069	.01432

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2846	.06751	2.9168	.00435	.00022	5.5155	.00646
SDev	.0074	.00021	.0015	.00034	.00036	.0364	.00000
%RSD	.32513	.30753	.05315	7.9263	163.62	.65936	.00000
#1	2.2794	.06765	2.9179	.00411	-.00003	5.4897	.00646
#2	2.2899	.06736	2.9157	.00459	.00048	5.5412	.00646

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.06229	.00250	.00070	.00505	-.00437
SDev	.00014	.00249	.00006	.00834	.00208
%RSD	.22534	99.741	7.7831	165.16	47.622
#1	.06239	.00426	.00067	.01095	-.00290
#2	.06219	.00074	.00074	-.00085	-.00584

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Analysis Report Thu 04-18-96 01:10:03 PM page 1

Method: SOW40 Sample Name: 3227 Operator: SJ
Run Time: 04/18/96 13:07:56
Comment: MJK658
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00693	.00376	.01284	-.00041	.00157	10.468	.16905
SDev	.00060	.00111	.00060	.00068	.00145	.004	.00144
%RSD	8.6232	29.526	4.6756	163.80	92.822	.04129	.85283
#1	.00651	.00455	.01242	-.00089	.00259	10.465	.17007
#2	.00736	.00298	.01327	.00007	.00054	10.471	.16803

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01093	.00086	-.00001	10.743	.00143	.00089	.01539
SDev	.00001	.00001	.00008	.025	.00016	.00000	.00012
%RSD	.11611	1.2877	1091.0	.23363	10.850	.00433	.79729
#1	.01094	.00086	-.00006	10.761	.00132	.00089	.01530
#2	.01092	.00087	.00005	10.726	.00154	.00089	.01547

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.1688	.21596	3.3011	.00595	.00055	21.023	.00136
SDev	.0017	.00034	.0058	.00004	.00000	.000	.00019
%RSD	.14622	.15788	.17604	.60958	.12996	.00000	13.910
#1	1.1676	.21620	3.3052	.00593	.00055	21.023	.00123
#2	1.1700	.21572	3.2969	.00598	.00055	21.023	.00150

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.06234	.01317	.01268	.00741	-.00427
SDev	.00063	.00043	.00111	.00248	.00021
%RSD	1.0116	3.2649	8.7376	33.439	4.8623
#1	.06189	.01347	.01190	.00566	-.00412
#2	.06279	.01287	.01346	.00916	-.00441

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Analysis Report QC Standard Thu 04-18-96 01:12:54 PM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 13:10:46
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	.50836	.20655	.49565	.19681	.51977	49.488	25.569
SDev	.00084	.00655	.00092	.00316	.00067	.578	.202
%RSD	.16452	3.1698	.18467	1.6063	.12862	1.1673	.79196
#1	.50896	.21118	.49630	.19458	.51930	49.897	25.712
#2	.50777	.20192	.49501	.19905	.52024	49.080	25.426

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49995	.10363	.50220	26.644	.49285	.48449	.51200
SDev	.00301	.00045	.00216	.141	.00260	.00364	.00417
%RSD	.60167	.43226	.42934	.52754	.52826	.75091	.81462
#1	.50208	.10394	.50372	26.744	.49469	.48707	.51495
#2	.49783	.10331	.50067	26.545	.49101	.48192	.50905

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.9794	.49541	26.231	.49478	1.0186	26.508	.51906
SDev	.0555	.00245	.171	.00268	.0077	.251	.00243
%RSD	.55639	.49345	.65254	.54274	.75953	.94706	.46893
#1	10.019	.49714	26.352	.49667	1.0241	26.686	.52078
#2	9.9402	.49368	26.110	.49288	1.0132	26.331	.51734

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.50921	.48469	.50105	.29799	.14698
SDev	.00133	.00003	.00138	.00091	.00517
%RSD	.26106	.00651	.27576	.30465	3.5146
#1	.51015	.48467	.50203	.29863	.14333
#2	.50827	.48471	.50008	.29734	.15063

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Analysis Report QC Standard Thu 04-18-96 01:15:34 PM page 1

Method: SOW40 Sample Name: CCB8 Operator: SJ
Run Time: 04/18/96 13:13:23
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	.00457	.00359	-.00054	.00143	-.00012	-.03783	.07524
SDev	.00251	.00064	.00008	.00117	.00081	.01243	.00102
%RSD	54.996	17.818	15.118	81.658	675.54	32.855	1.3559
#1	.00279	.00313	-.00048	.00060	-.00069	-.04662	.07452
#2	.00634	.00404	-.00060	.00225	.00045	-.02904	.07596

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.00087	.00011	.02041	.00004	.00010	-.00100
SDev	.00000	.00002	.00007	.00031	.00017	.00000	.00031
%RSD	.00000	2.5516	67.119	1.5372	424.79	.04378	30.699
#1	.00024	.00086	.00006	.02019	-.00008	.00010	-.00121
#2	.00024	.00089	.00016	.02063	.00016	.00010	-.00078

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00242	-.00007	.01177	.00031	.00141	-.05392	-.00009
SDev	.00286	.00010	.00000	.00029	.00011	.00117	.00035
%RSD	118.38	141.11	.00736	94.281	7.6281	2.1757	388.91
#1	-.00039	-.00015	.01177	.00010	.00149	-.05309	-.00034
#2	-.00444	-.00000	.01177	.00051	.00133	-.05475	.00016

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00104	.00283	-.00220	-.00221	.00322
SDev	.00028	.00020	.00002	.00078	.00136
%RSD	26.922	7.1371	1.0201	35.346	42.088
#1	-.00124	.00297	-.00218	-.00277	.00226
#2	-.00084	.00268	-.00221	-.00166	.00418

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Analysis Report Thu 04-18-96 01:19:52 PM page 1

Method: SOW40 Sample Name: 3228 Operator: SJ
Run Time: 04/18/96 13:17:44
Comment: MJK659
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00769	.00083	.00969	-.00396	.00176	23.993	1.6236
SDev	.00048	.00000	.00020	.00011	.00017	.168	.0060
%RSD	6.2212	.10387	2.1118	2.6558	9.6937	.69821	.36682
#1	.00735	.00083	.00984	-.00404	.00188	24.112	1.6279
#2	.00803	.00083	.00955	-.00389	.00164	23.875	1.6194

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04998	.00103	.00033	12.524	.02884	.00088	.02096
SDev	.00015	.00001	.00009	.019	.00021	.00028	.00006
%RSD	.30473	1.0975	28.692	.15032	.74094	31.687	.29419
#1	.05009	.00102	.00039	12.537	.02869	.00108	.02100
#2	.04987	.00103	.00026	12.511	.02900	.00069	.02092

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.7608	.24037	1.1574	.01350	.00057	73.781	.02877
SDev	.0034	.00016	.0035	.00004	.00018	.380	.00006
%RSD	.19486	.06785	.30120	.26886	32.039	.51516	.21977
#1	1.7632	.24048	1.1599	.01347	.00070	74.049	.02881
#2	1.7584	.24025	1.1550	.01352	.00044	73.512	.02872

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.06945	.00995	.00956	-.00039	-.00572
SDev	.00063	.00112	.00025	.00222	.00125
%RSD	.90789	11.295	2.5948	574.77	21.812
#1	.06901	.01075	.00939	.00118	-.00661
#2	.06990	.00916	.00974	-.00195	-.00484

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Analysis Report Thu 04-18-96 01:23:20 PM page 1

Method: SOW40 Sample Name: 3229 Operator: SJ
Run Time: 04/18/96 13:20:51
Comment: MJK660
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01233	.00015	.01307	-.00061	.00136	28.242	2.6447
SDev	.00203	.00317	.00006	.00223	.00044	.150	.0092
%RSD	16.489	2103.4	.44934	362.99	32.442	.53003	.34912
#1	.01376	-.00209	.01311	.00096	.00104	28.348	2.6512
#2	.01089	.00239	.01303	-.00219	.00167	28.136	2.6381

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06077	.00124	.00119	18.252	.07002	.00018	.01557
SDev	.00020	.00000	.00005	.013	.00008	.00014	.00018
%RSD	.33418	.02133	3.9192	.06877	.11130	77.488	1.1780
#1	.06091	.00124	.00122	18.261	.07007	.00028	.01544
#2	.06063	.00124	.00116	18.243	.06996	.00008	.01570

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.92890	.20733	.37026	.01058	.00016	H108.59	.06357
SDev	.00200	.00013	.00194	.00020	.00044	.40	.00054
%RSD	.21500	.06440	.52319	1.8856	280.43	.36730	.84535
#1	.93031	.20743	.37163	.01044	.00047	H108.88	.06395
#2	.92749	.20724	.36889	.01073	-.00015	H108.31	.06319

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.07492	.01316	.01302	.00324	-.00251
SDev	.00056	.00105	.00043	.00704	.00014
%RSD	.74845	7.9480	3.2830	217.41	5.5051
#1	.07452	.01390	.01272	.00822	-.00261
#2	.07531	.01242	.01333	-.00174	-.00241

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Analysis Report Thu 04-18-96 01:26:02 PM page 1

Method: SOW40 Sample Name: 3230 Operator: SJ
Run Time: 04/18/96 13:23:56
Comment: MJK661
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00828	.00466	.00624	.00675	.00432	33.733	4.7156
SDev	.00227	.00414	.00128	.00098	.00091	.858	.0555
%RSD	27.444	88.775	20.559	14.476	21.016	2.5424	1.1761
#1	.00988	.00759	.00714	.00606	.00496	34.339	4.7548
#2	.00667	.00174	.00533	.00744	.00368	33.126	4.6764

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14150	.00106	.00061	27.549	.03319	.00078	.04401
SDev	.00189	.00000	.00002	.259	.00031	.00042	.00049
%RSD	1.3365	.01032	3.1884	.94072	.93203	53.599	1.1230
#1	.14283	.00106	.00060	27.732	.03341	.00049	.04436
#2	.14016	.00106	.00062	27.366	.03297	.00108	.04366

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	3.5964	.40525	2.1628	.01316	.00076	H108.80	.01650
SDev	.0346	.00451	.0240	.00025	.00047	1.19	.00022
%RSD	.96177	1.1124	1.1117	1.9297	61.744	1.0901	1.3414
#1	3.6208	.40843	2.1798	.01298	.00043	H109.64	.01665
#2	3.5719	.40206	2.1458	.01334	.00110	H107.96	.01634

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.09804	.00853	.00511	.01196	.00418
SDev	.00000	.00175	.00105	.00534	.00409
%RSD	.00027	20.485	20.620	44.654	97.726
#1	.09804	.00976	.00586	.01573	.00129
#2	.09804	.00729	.00437	.00818	.00707

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Analysis Report Thu 04-18-96 01:30:49 PM page 1

Method: SOW40 Sample Name: 3231 Operator: SJ
Run Time: 04/18/96 13:28:46
Comment: MJK667
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00414	.00381	.03446	-.00159	.00329	9.6463	.16613
SDev	.00144	.00222	.00013	.00160	.00219	.0648	.00021
%RSD	34.638	58.148	.38460	100.49	66.771	.67225	.12701
#1	.00313	.00225	.03437	-.00046	.00484	9.6005	.16628
#2	.00516	.00538	.03456	-.00272	.00174	9.6922	.16598

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01060	.00090	-.00009	10.119	.00191	.00079	.01056
SDev	.00003	.00001	.00012	.021	.00004	.00042	.00018
%RSD	.23950	1.2371	138.31	.21084	2.0380	53.063	1.7365
#1	.01058	.00089	-.00000	10.104	.00193	.00109	.01043
#2	.01062	.00090	-.00018	10.134	.00188	.00049	.01069

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0200	.20547	3.1216	.00443	.00022	19.878	.00179
SDev	.0023	.00034	.0054	.00013	.00003	.062	.00028
%RSD	.22398	.16598	.17374	2.8694	16.254	.31279	15.910
#1	1.0216	.20523	3.1178	.00452	.00024	19.834	.00159
#2	1.0184	.20571	3.1255	.00434	.00019	19.922	.00199

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.05099	.03465	.03437	-.00475	-.00003
SDev	.00000	.00024	.00032	.00117	.00181
%RSD	.00006	.69083	.91869	24.726	5306.7
#1	.05099	.03482	.03415	-.00392	.00124
#2	.05099	.03449	.03459	-.00558	-.00131

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Analysis Report Thu 04-18-96 01:34:58 PM page 1

Method: SOW40 Sample Name: 3232 Operator: SJ
Run Time: 04/18/96 13:32:46
Comment: MJK669
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00465	.00659	.00264	-.00137	.00091	.35652	3.8679
SDev	.00144	.00317	.00058	.00171	.00011	.01999	.0331
%RSD	30.868	48.109	22.006	124.69	11.645	5.6083	.85481
#1	.00566	.00883	.00305	-.00258	.00083	.37066	3.8913
#2	.00363	.00435	.00223	-.00016	.00098	.34238	3.8445

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02644	.00097	-.00016	7.6771	.00897	.00217	.02553
SDev	.00011	.00002	.00018	.0493	.00033	.00014	.00013
%RSD	.43204	2.2837	113.30	.64163	3.6811	6.4311	.49374
#1	.02652	.00099	-.00029	7.7120	.00920	.00227	.02562
#2	.02636	.00096	-.00003	7.6423	.00874	.00208	.02545

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.8350	.10392	3.0844	.00753	-.00019	3.5628	.02175
SDev	.0289	.00065	.0229	.00002	.00007	.0434	.00044
%RSD	.42240	.62764	.74085	.24092	37.613	1.2183	2.0348
#1	6.8555	.10438	3.1005	.00754	-.00024	3.5935	.02206
#2	6.8146	.10346	3.0682	.00752	-.00014	3.5321	.02144

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.06858	.00227	.00283	.00069	-.00239
SDev	.00063	.00008	.00083	.00365	.00076
%RSD	.92017	3.6651	29.246	528.14	31.618
#1	.06813	.00232	.00341	-.00189	-.00292
#2	.06902	.00221	.00224	.00327	-.00185

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Method: SOW40 Sample Name: 3233 Operator: SJ
Run Time: 04/18/96 13:35:53
Comment: MJK653
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00592	.00258	.00504	-.00358	.01052	-.01681	.27336
SDev	.00012	.00301	.00012	.00043	.00027	.00648	.00062
%RSD	2.0197	116.44	2.3184	11.883	2.5546	38.569	.22589
#1	.00600	.00471	.00496	-.00328	.01071	-.02140	.27379
#2	.00583	.00046	.00512	-.00388	.01033	-.01223	.27292

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00147	.00090	.00004	.25691	.00108	.00030	.02288
SDev	.00006	.00001	.00003	.00094	.00017	.00000	.00012
%RSD	4.3116	1.2484	81.329	.36638	16.113	.01459	.53818
#1	.00143	.00089	.00002	.25758	.00121	.00030	.02279
#2	.00152	.00090	.00006	.25624	.00096	.00030	.02297

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.15944	.00175	.03972	.00307	.00023	.39402	.00047
SDev	.00543	.00004	.00000	.00056	.00040	.00117	.00006
%RSD	3.4049	2.5407	.00094	18.343	171.83	.29773	13.469
#1	.15560	.00178	.03972	.00267	-.00005	.39485	.00042
#2	.16328	.00172	.03971	.00346	.00051	.39319	.00051

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.05119	.00500	.00506	-.00268	-.00403
SDev	.00042	.00079	.00056	.00143	.00007
%RSD	.82114	15.714	11.090	53.552	1.7650
#1	.05149	.00556	.00467	-.00166	-.00408
#2	.05089	.00444	.00546	-.00369	-.00398

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Analysis Report Thu 04-18-96 01:42:45 PM page 1

Method: SOW40 Sample Name: 3229X10 Operator: SJ
Run Time: 04/18/96 13:40:45
Comment: MJK660X10 {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	.00287	.00459	.00046	-.00713	.00029	1.9851	.30287
SDev	.00036	.00253	.00062	.00248	.00196	.0200	.00144
%RSD	12.485	55.244	135.71	34.748	678.22	1.0072	.47475
#1	.00262	.00638	.00090	-.00538	.00167	1.9710	.30389
#2	.00313	.00279	.00002	-.00888	-.00110	1.9993	.30186

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00624	.00092	-.00002	1.8734	.00696	-.00000	.00036
SDev	.00005	.00002	.00004	.0003	.00006	.00042	.00000
%RSD	.81393	2.4464	257.17	.01675	.83782	24364.	.03002
#1	.00620	.00090	.00001	1.8731	.00692	.00030	.00036
#2	.00627	.00093	-.00004	1.8736	.00700	-.00030	.00036

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08745	.02137	.03440	.00186	-.00085	11.265	.00624
SDev	.00086	.00009	.00155	.00002	.00022	.047	.00000
%RSD	.98145	.41623	4.5042	.97532	25.550	.41656	.00000
#1	.08806	.02143	.03550	.00185	-.00101	11.232	.00624
#2	.08685	.02131	.03331	.00187	-.00070	11.298	.00624

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00758	.00179	-.00019	-.01515	-.00318
SDev	.00028	.00265	.00037	.00652	.00049
%RSD	3.6995	148.23	192.65	43.039	15.293
#1	.00738	.00366	-.00046	-.01054	-.00283
#2	.00777	-.00009	.00007	-.01975	-.00352

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Analysis Report Thu 04-18-96 01:46:07 PM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 04/18/96 13:44:04
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	.01809	.02253	.00455	.00816	.12120	-.02140	.07223
SDev	.00514	.00269	.00045	.00255	.00068	.00324	.00307
%RSD	28.424	11.941	9.8697	31.320	.55731	15.152	4.2442
#1	.02172	.02444	.00424	.00635	.12072	-.01911	.07440
#2	.01445	.02063	.00487	.00996	.12168	-.02369	.07006

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.01108	.01052	.02862	.02129	.10420	.05603
SDev	.00000	.00000	.00016	.00063	.00006	.00056	.00024
%RSD	.00000	.00351	1.4909	2.1926	.27537	.53723	.43569
#1	.00013	.01108	.01063	.02906	.02134	.10460	.05620
#2	.00013	.01108	.01041	.02818	.02125	.10381	.05586

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00054	.03165	.00464	.08505	.02278	-.01991	.10841
SDev	.00658	.00010	.00116	.00049	.00004	.00000	.00079
%RSD	1213.4	.32840	24.992	.57601	.17163	.00000	.72898
#1	-.00411	.03173	.00382	.08540	.02281	-.01991	.10897
#2	.00519	.03158	.00547	.08470	.02276	-.01991	.10785

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04151	.00782	.00294	.00452	.00995
SDev	.00007	.00024	.00055	.00365	.00201
%RSD	.16872	3.0728	18.768	80.841	20.250
#1	.04156	.00765	.00255	.00193	.00853
#2	.04146	.00799	.00333	.00710	.01138

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Analysis Report Thu 04-18-96 01:49:11 PM page 1

Method: SOW40 Sample Name: ICSA994 Operator: SJ
Run Time: 04/18/96 13:47:02
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	.00431	-.01869	-.00494	-.00542	-.00004	.05579	455.96
SDev	.00167	.00586	.00191	.00090	.00003	.00865	.63
%RSD	38.865	31.334	38.705	16.641	70.007	15.498	.13854
#1	.00549	-.02283	-.00630	-.00478	-.00002	.06190	456.41
#2	.00312	-.01455	-.00359	-.00606	-.00006	.04968	455.51

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00194	.00090	.00353	484.85	.01970	-.00436	-.00070
SDev	.00001	.00000	.00016	.05	.00015	.00042	.00008
%RSD	.65473	.01032	4.4582	.01081	.78842	9.6325	11.452
#1	.00193	.00090	.00341	484.88	.01959	-.00406	-.00064
#2	.00195	.00090	.00364	484.81	.01981	-.00466	-.00076

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	166.56	.00116	471.48	.00221	.00011	.06055	.00181
SDev	.15	.00002	.37	.00004	.00044	.00352	.00019
%RSD	.09090	1.7908	.07851	1.6444	400.10	5.8118	10.476
#1	166.66	.00114	471.74	.00223	.00042	.06304	.00194
#2	166.45	.00117	471.22	.00218	-.00020	.05807	.00168

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00816	-.11226	.04792	.01537	-.01566
SDev	.00084	.00105	.00337	.00391	.00058
%RSD	10.305	.93344	7.0362	25.433	3.6999
#1	.00757	-.11152	.04553	.01813	-.01607
#2	.00875	-.11300	.05030	.01260	-.01525

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Analysis Report QC Standard Thu 04-18-96 01:52:07 PM page 1

Method: SOW40 Sample Name: ICSAB691 Operator: SJ
Run Time: 04/18/96 13:50:03
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	.00074	-.00927	4.1995	-.00734	.00135	.02178	463.71
SDev	.00371	.00823	.0042	.00116	.00440	.01783	.23
%RSD	500.91	88.785	.10005	15.819	325.39	81.876	.04939
#1	-.00188	-.00345	4.2024	-.00652	-.00176	.00917	463.55
#2	.00336	-.01509	4.1965	-.00816	.00447	.03439	463.87

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46036	.42975	.81452	479.58	.44137	.42404	.55197
SDev	.00027	.00001	.00009	.29	.00025	.00098	.00015
%RSD	.05790	.00256	.01083	.05980	.05724	.23101	.02798
#1	.46054	.42976	.81446	479.78	.44155	.42473	.55186
#2	.46017	.42974	.81459	479.38	.44119	.42335	.55208

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	164.50	.42846	471.57	.78776	.93976	.04313	.45305
SDev	.23	.00037	.18	.00007	.00003	.00000	.00044
%RSD	.14251	.08588	.03835	.00922	.00370	.00000	.09768
#1	164.67	.42872	471.70	.78781	.93973	.04313	.45337
#2	164.34	.42820	471.45	.78771	.93978	.04313	.45274

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.80569	3.9756	4.3097	.01074	-.01624
SDev	.00086	.0012	.0057	.00351	.00000
%RSD	.10729	.02934	.13219	32.724	.00428
#1	.80508	3.9764	4.3138	.01323	-.01624
#2	.80630	3.9748	4.3057	.00826	-.01624

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Analysis Report QC Standard Thu 04-18-96 01:55:13 PM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 13:53:04
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	.50338	.20708	.49458	.19110	.51462	49.547	25.557
SDev	.00191	.00320	.00267	.00527	.00268	.459	.120
%RSD	.38014	1.5461	.54022	2.7574	.52148	.92599	.46846
#1	.50202	.20934	.49647	.18738	.51652	49.872	25.641
#2	.50473	.20482	.49269	.19483	.51272	49.223	25.472

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49672	.10304	.50031	26.755	.48936	.48054	.51092
SDev	.00110	.00009	.00111	.124	.00171	.00112	.00129
%RSD	.22231	.08636	.22172	.46321	.34942	.23290	.25324
#1	.49750	.10310	.50109	26.843	.49057	.48133	.51184
#2	.49594	.10298	.49952	26.667	.48815	.47975	.51001

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.9844	.49134	26.140	.49104	1.0141	26.517	.51662
SDev	.0638	.00138	.123	.00118	.0032	.182	.00171
%RSD	.63886	.28036	.47109	.24018	.31902	.68572	.33041
#1	10.030	.49232	26.227	.49188	1.0164	26.646	.51783
#2	9.9393	.49037	26.053	.49021	1.0118	26.389	.51542

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.50921	.48050	.50151	.28250	.14609
SDev	.00133	.00072	.00434	.00118	.00728
%RSD	.26121	.15071	.86627	.41653	4.9871
#1	.51015	.47999	.50458	.28167	.14093
#2	.50827	.48102	.49844	.28334	.15124

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Analysis Report QC Standard Thu 04-18-96 01:57:48 PM page 1

Method: SOW40 Sample Name: CCB9 Operator: SJ
Run Time: 04/18/96 13:55:43
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	.00118	.00038	-.00094	-.00299	-.00034	-.02102	.14946
SDev	.00347	.00255	.00005	.00243	.00030	.00703	.01520
%RSD	292.96	663.05	5.2446	81.452	89.982	33.427	10.174
#1	-.00127	-.00142	-.00090	-.00127	-.00055	-.02598	.16021
#2	.00364	.00219	-.00097	-.00471	-.00012	-.01605	.13870

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00037	.00106	.00022	.10050	.00030	.00069	-.00095
SDev	.00003	.00002	.00002	.01631	.00000	.00056	.00000
%RSD	6.8986	2.1214	6.7192	16.234	.04006	80.821	.12066
#1	.00035	.00108	.00023	.11204	.00030	.00109	-.00095
#2	.00039	.00105	.00021	.08896	.00030	.00030	-.00095

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03118	-.00002	.10185	.00065	.00149	-.05807	.00040
SDev	.00916	.00003	.01742	.00005	.00007	.00000	.00022
%RSD	29.369	130.27	17.108	8.3189	4.9253	.00000	54.997
#1	.03765	-.00000	.11417	.00069	.00144	-.05807	.00025
#2	.02470	-.00004	.08953	.00062	.00154	-.05807	.00056

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00064	.00112	-.00195	-.00664	-.00119
SDev	.00042	.00002	.00006	.00339	.00196
%RSD	65.245	1.9219	3.2172	51.063	164.90
#1	-.00035	.00114	-.00191	-.00424	.00020
#2	-.00094	.00111	-.00200	-.00903	-.00258

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Analysis Report Thu 04-18-96 02:06:29 PM page 1

Method: SOW40 Sample Name: 3230X10 Operator: SJ
Run Time: 04/18/96 14:02:49
Comment: MJK661X10 {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	.00558	.00124	-.00066	-.00402	.00177	2.5144	.52317
SDev	.00227	.00143	.00038	.00090	.00003	.0227	.00842
%RSD	40.718	114.90	58.182	22.395	1.8430	.90268	1.6101
#1	.00397	.00225	-.00039	-.00338	.00179	2.5304	.52913
#2	.00719	.00023	-.00093	-.00465	.00175	2.4983	.51721

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01485	.00100	-.00002	2.8826	.00328	-.00010	.00360
SDev	.00005	.00002	.00018	.0126	.00012	.00000	.00049
%RSD	.34180	2.2495	732.15	.43538	3.5493	.02891	13.616
#1	.01489	.00102	.00010	2.8915	.00336	-.00010	.00394
#2	.01482	.00098	-.00015	2.8737	.00320	-.00010	.00325

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37354	.04282	.24321	.00178	.00631	11.967	.00145
SDev	.00057	.00009	.00000	.00049	.00319	.072	.00006
%RSD	.15290	.20776	.00030	27.470	50.578	.59795	4.3514
#1	.37313	.04289	.24322	.00213	.00857	12.018	.00141
#2	.37394	.04276	.24321	.00144	.00405	11.917	.00150

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.01060	.00111	-.00153	-.00779	-.00216
SDev	.00091	.00027	.00044	.00235	.00250
%RSD	8.5923	24.605	28.619	30.106	115.84
#1	.01125	.00130	-.00122	-.00945	-.00039
#2	.00996	.00092	-.00184	-.00614	-.00392

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Analysis Report Thu 04-18-96 02:10:32 PM page 1

Method: SOW40 Sample Name: 2895 Operator: SJ
Run Time: 04/18/96 14:07:46
Comment: MAJP51
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3208	.00495	H184.17	.12088	.01557	1.7764	6.9194
SDev	.0014	.00522	.10	.00093	.00054	.0095	.0047
%RSD	.05878	105.39	.05270	.77106	3.4669	.53434	.06796
#1	2.3217	.00864	H184.10	.12154	.01519	1.7831	6.9227
#2	2.3198	.00126	H184.24	.12022	.01595	1.7697	6.9160

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.1532	.00185	2.9110	391.55	.05706	.10262	3.4067
SDev	.0001	.00000	.0005	.13	.00020	.00029	.0015
%RSD	.00091	.01434	.01834	.03284	.34386	.27985	.04458
#1	7.1532	.00185	2.9106	391.46	.05720	.10241	3.4056
#2	7.1533	.00185	2.9114	391.64	.05692	.10282	3.4078

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.899	1.2285	189.05	.62891	.07712	.52057	.14313
SDev	.021	.0004	.00	.00024	.00008	.00237	.00054
%RSD	.02158	.03310	.00229	.03772	.10010	.45620	.37682
#1	95.914	1.2288	189.05	.62874	.07717	.52225	.14352
#2	95.884	1.2282	189.05	.62908	.07706	.51889	.14275

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	H247.47	179.56	186.44	.11546	.12355
SDev	.20	.00	.15	.00195	.00235
%RSD	.08014	.00261	.07894	1.6867	1.9023
#1	H247.61	179.56	186.34	.11408	.12521
#2	H247.33	179.56	186.54	.11684	.12189

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Analysis Report Thu 04-18-96 02:22:31 PM page 1

Method: SOW40 Sample Name: 2895x20 Operator: SJ
Run Time: 04/18/96 14:19:34
Comment: MAJP51x20 {For Pb,Zn only}
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11823	.00164	9.8294	.00210	.00140	.02610	.35931
SDev	.00186	.00375	.0057	.00059	.00030	.02109	.00129
%RSD	1.5736	229.05	.05767	28.097	21.457	80.812	.35825
#1	.11691	-.00101	9.8254	.00168	.00118	.01119	.36022
#2	.11955	.00429	9.8334	.00252	.00161	.04102	.35840

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.33860	.00108	.15899	19.600	.00306	.00629	.16098
SDev	.00005	.00002	.00039	.007	.00028	.00014	.00006
%RSD	.01549	2.0821	.24587	.03511	8.9824	2.2823	.03775
#1	.33864	.00106	.15871	19.605	.00286	.00639	.16102
#2	.33857	.00109	.15927	19.595	.00325	.00619	.16093

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.0818	.06878	9.4768	.03574	.00436	-.03191	.00709
SDev	.0006	.00007	.0016	.00040	.00019	.00000	.00010
%RSD	.01131	.10950	.01664	1.1232	4.3115	.00000	1.3426
#1	5.0814	.06883	9.4757	.03546	.00449	-.03191	.00702
#2	5.0822	.06872	9.4779	.03602	.00423	-.03191	.00716

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	31.823	9.8474	9.8205	-.00419	.00520
SDev	.006	.0047	.0062	.00153	.00163
%RSD	.01785	.04723	.06283	36.515	31.439
#1	31.819	9.8441	9.8162	-.00311	.00404
#2	31.827	9.8507	9.8249	-.00527	.00635

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Analysis Report Thu 04-18-96 02:30:11 PM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 04/18/96 14:27:52
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	.02131	.02321	.00758	.00847	.11924	-.04549	.06684
SDev	.00000	.00179	.00027	.00176	.00208	.00316	.00085
%RSD	.00007	7.7279	3.5358	20.791	1.7469	6.9551	1.2783
#1	.02131	.02448	.00777	.00722	.12072	-.04773	.06744
#2	.02131	.02194	.00739	.00971	.11777	-.04325	.06623

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00024	.01093	.01034	.03230	.02085	.10435	.05412
SDev	.00001	.00003	.00014	.00094	.00006	.00014	.00036
%RSD	5.4393	.30766	1.3589	2.9059	.28186	.13756	.67503
#1	.00025	.01095	.01044	.03296	.02081	.10425	.05438
#2	.00023	.01090	.01024	.03163	.02089	.10445	.05386

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00322	.03133	.00863	.08323	.02327	-.01343	.10578
SDev	.00230	.00005	.00040	.00038	.00022	.00000	.00013
%RSD	71.468	.14422	4.5758	.46037	.96880	.00000	.11998
#1	.00484	.03137	.00891	.08351	.02311	-.01343	.10587
#2	.00159	.03130	.00835	.08296	.02343	-.01343	.10569

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.05234	.01006	.00636	.00325	.01103
SDev	.00207	.00052	.00066	.01168	.00313
%RSD	3.9582	5.1939	10.338	359.23	28.323
#1	.05380	.00969	.00683	-.00501	.01324
#2	.05087	.01043	.00590	.01151	.00882

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Analysis Report Thu 04-18-96 02:34:02 PM page 1

Method: SOW40 Sample Name: ICSA994 Operator: SJ
Run Time: 04/18/96 14:31:47
Comment: ICS-A6
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00517	-.00853	-.00031	.00347	.00161	.03356	455.44
SDev	.01315	.00033	.00005	.00416	.00156	.00633	1.25
%RSD	254.29	3.8278	16.927	120.14	96.675	18.856	.27374
#1	-.00413	-.00830	-.00034	.00052	.00271	.02908	454.56
#2	.01447	-.00876	-.00027	.00641	.00051	.03803	456.32

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00175	.00007	.00275	453.08	.01852	-.00417	.00050
SDev	.00003	.00001	.00013	.38	.00071	.00029	.00032
%RSD	1.4965	15.985	4.5827	.08285	3.8114	6.8868	63.809
#1	.00173	.00008	.00266	452.81	.01802	-.00437	.00028
#2	.00177	.00006	.00284	453.34	.01902	-.00396	.00073

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	159.24	.00105	455.63	.00159	.00038	.06549	.00087
SDev	.13	.00000	.71	.00002	.00045	.00237	.00025
%RSD	.08332	.36706	.15519	1.1498	120.00	3.6262	29.010
#1	159.15	.00105	455.13	.00160	.00069	.06381	.00070
#2	159.34	.00105	456.13	.00157	.00006	.06717	.00105

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00589	-.12879	.06298	.01856	-.00397
SDev	.00027	.00208	.00110	.00348	.00793
%RSD	4.5477	1.6129	1.7470	18.744	199.92
#1	.00608	-.12732	.06220	.02101	-.00957
#2	.00570	-.13026	.06376	.01610	.00164

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Analysis Report QC Standard Thu 04-18-96 02:38:19 PM page 1

Method: SOW40 Sample Name: ICSAB691 Operator: SJ
Run Time: 04/18/96 14:36:11
Comment: ICS-AB6
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00613	-.00606	4.0174	-.00830	-.00367	.03841	462.23
SDev	.00720	.00374	.0215	.00208	.00376	.00685	3.32
%RSD	117.45	61.762	.53568	25.016	102.42	17.849	.71854
#1	.01121	-.00341	4.0022	-.00977	-.00634	.04325	459.88
#2	.00104	-.00870	4.0326	-.00683	-.00101	.03356	464.58

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46268	.40551	.76548	444.41	.42413	.42523	.51305
SDev	.00382	.00304	.00522	3.31	.00243	.00388	.00440
%RSD	.82465	.74995	.68137	.74502	.57346	.91139	.85777
#1	.45999	.40336	.76179	442.07	.42241	.42249	.50994
#2	.46538	.40766	.76917	446.75	.42585	.42797	.51617

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	156.75	.41724	455.99	.75588	.95814	.07976	.43003
SDev	1.14	.00255	2.79	.00453	.00521	.00356	.00359
%RSD	.72421	.61030	.61119	.59867	.54358	4.4659	.83371
#1	155.95	.41544	454.02	.75268	.95446	.07725	.42750
#2	157.55	.41904	457.96	.75908	.96182	.08228	.43257

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.77980	3.7913	4.1287	-.01471	-.00515
SDev	.00293	.0124	.0260	.00489	.00551
%RSD	.37585	.32597	.63052	33.229	107.03
#1	.77773	3.7826	4.1103	-.01126	-.00904
#2	.78187	3.8001	4.1471	-.01817	-.00125

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Analysis Report QC Standard Thu 04-18-96 02:41:17 PM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 14:39:07
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	.52017	.21537	.48839	.20093	.51541	51.846	25.925
SDev	.00930	.00231	.00104	.00392	.01144	5.395	.125
%RSD	1.7884	1.0720	.21405	1.9535	2.2198	10.406	.48158
#1	.51359	.21374	.48765	.19815	.50732	48.031	25.837
#2	.52675	.21700	.48913	.20371	.52350	Q55.661	26.014

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.50259	.10325	.49192	25.830	.48449	.48298	.49993
SDev	.00193	.00386	.00308	.089	.00112	.00345	.00354
%RSD	.38350	3.7401	.62627	.34396	.23074	.71332	.70767
#1	.50123	.10052	.48974	25.767	.48370	.48054	.49743
#2	.50395	.10598	.49410	25.892	.48528	.48541	.50243

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.7853	.48835	25.931	.48533	1.0318	26.632	.50873
SDev	.0719	.00173	.136	.00184	.0059	.139	.00181
%RSD	.73514	.35423	.52472	.37973	.56981	.52165	.35549
#1	9.7344	.48713	25.835	.48403	1.0277	26.534	.50746
#2	9.8361	.48958	26.027	.48663	1.0360	26.730	.51001

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.47795	.47933	.49286	.30381	.15026
SDev	.00434	.00310	.00003	.00111	.00531
%RSD	.90856	.64764	.00635	.36479	3.5356
#1	.47488	.47713	.49283	.30303	.14650
#2	.48102	.48152	.49288	.30459	.15401

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Analysis Report QC Standard Thu 04-18-96 02:43:58 PM page 1

Method: SOW40 Sample Name: CCB10 Operator: SJ
Run Time: 04/18/96 14:41:55
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	.00070	.00231	-.00168	-.00020	-.00233	-.04885	.07937
SDev	.00012	.00097	.00062	.00347	.00393	.00475	.00065
%RSD	17.677	41.949	37.176	1779.7	169.02	9.7160	.81435
#1	.00079	.00300	-.00124	-.00265	-.00510	-.05220	.07983
#2	.00061	.00163	-.00212	.00226	.00045	-.04549	.07892

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00031	.00111	.00024	.01482	-.00024	.00010	-.00155
SDev	.00003	.00002	.00011	.00063	.00002	.00029	.00000
%RSD	8.5710	2.0286	45.148	4.2215	8.3632	282.68	.03706
#1	.00029	.00113	.00017	.01438	-.00025	-.00010	-.00155
#2	.00032	.00110	.00032	.01526	-.00022	.00030	-.00155

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00284	-.00011	.01311	.00067	.00053	-.04282	-.00011
SDev	.00460	.00003	.00000	.00055	.00053	.00119	.00019
%RSD	162.23	28.196	.00191	81.589	99.196	2.7730	169.71
#1	.00042	-.00009	.01311	.00106	.00016	-.04198	-.00025
#2	-.00609	-.00013	.01310	.00028	.00091	-.04366	.00002

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00118	.00074	-.00287	-.00678	.00305
SDev	.00027	.00008	.00089	.00320	.00361
%RSD	22.622	10.250	31.166	47.142	118.39
#1	.00099	.00079	-.00223	-.00904	.00050
#2	.00137	.00068	-.00350	-.00452	.00560

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Analysis Report Thu 04-18-96 02:46:36 PM page 1

Method: SOW40 Sample Name: 3082 PS Operator: SJ
Run Time: 04/18/96 14:44:25
Comment: MCSG42A(PS) 4/26
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00610	.00165	.01319	.01134	.00206	1.4818	.02889
SDev	.00265	.00017	.00183	.00263	.00011	.0285	.00066
%RSD	43.341	10.147	13.893	23.205	5.4853	1.9201	2.2850
#1	.00423	.00153	.01448	.00948	.00214	1.5019	.02936
#2	.00798	.00177	.01189	.01320	.00198	1.4617	.02843

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32267	.00057	.00134	81.864	.00186	.00032	-.00013
SDev	.00350	.00001	.00014	.639	.00029	.00000	.00019
%RSD	1.0842	2.1806	10.363	.78054	15.523	.02255	140.71
#1	.32514	.00058	.00144	82.316	.00166	.00032	-.00000
#2	.32020	.00057	.00124	81.413	.00207	.00032	-.00027

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00642	.01820	27.145	.00212	.00150	33.687	.00109
SDev	.00140	.00023	.226	.00025	.00030	.359	.00003
%RSD	21.737	1.2861	.83087	12.016	20.184	1.0646	3.0744
#1	-.00543	.01837	27.304	.00230	.00129	33.941	.00106
#2	-.00741	.01804	26.985	.00194	.00172	33.434	.00111

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	1.0483	.01392	.01283	.00636	.01379
SDev	.0068	.00003	.00272	.00832	.00017
%RSD	.65241	.22424	21.199	130.75	1.2362
#1	1.0531	.01394	.01475	.00048	.01391
#2	1.0434	.01390	.01090	.01224	.01367

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Analysis Report Thu 04-18-96 02:49:39 PM page 1

Method: SOW40 Sample Name: 3224 PS Operator: SJ
Run Time: 04/18/96 14:47:27
Comment: MJK657 PS
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00728	.01464	.00828	-.00717	.00172	12.973	.36899
SDev	.00348	.00030	.00052	.00055	.00007	.050	.00287
%RSD	47.790	2.0655	6.3021	7.6495	4.1182	.38803	.77669
#1	.00975	.01486	.00791	-.00678	.00177	12.937	.36696
#2	.00482	.01443	.00865	-.00756	.00167	13.008	.37101

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03018	.00045	.00029	14.565	.00774	.00254	.02820
SDev	.00000	.00001	.00017	.027	.00033	.00045	.00013
%RSD	.00000	2.7384	60.154	.18658	4.3075	17.696	.44223
#1	.03018	.00046	.00042	14.546	.00797	.00223	.02829
#2	.03018	.00044	.00017	14.585	.00750	.00286	.02811

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.3962	3.0552	4.6048	.01292	.00086	23.641	.00304
SDev	.0134	.0064	.0205	.00027	.00019	.022	.00040
%RSD	.24869	.20993	.44474	2.1198	22.169	.09256	13.155
#1	5.3867	3.0506	4.5903	.01273	.00100	23.625	.00333
#2	5.4057	3.0597	4.6193	.01311	.00073	23.656	.00276

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.09295	.00830	.00827	-.01568	-.00297
SDev	.00265	.00115	.00021	.00473	.00315
%RSD	2.8567	13.818	2.5856	30.176	105.88
#1	.09108	.00749	.00812	-.01903	-.00075
#2	.09483	.00912	.00842	-.01234	-.00520

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Analysis Report Thu 04-18-96 02:55:00 PM page 1

Method: SOW40 Sample Name: CRI Operator: SJ
Run Time: 04/18/96 14:50:44
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	.02569	.02516	.00714	.01132	.13185	-.00890	.02767
SDev	.00167	.00440	.00080	.00100	.00132	.00930	.00152
%RSD	6.5037	17.477	11.267	8.8495	1.0019	104.53	5.5042
#1	.02451	.02205	.00771	.01202	.13278	-.01548	.02659
#2	.02688	.02827	.00657	.01061	.13092	-.00232	.02875

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00017	.01106	.01109	.03387	.02189	.10992	.05563
SDev	.00001	.00006	.00018	.00068	.00027	.00045	.00032
%RSD	7.8567	.56174	1.6390	2.0060	1.2255	.40960	.56956
#1	.00016	.01101	.01096	.03339	.02208	.10961	.05541
#2	.00018	.01110	.01122	.03435	.02170	.11024	.05585

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00947	.03330	.00720	.08808	.02375	.04900	.11037
SDev	.00716	.00000	.00170	.00008	.00057	.00122	.00080
%RSD	75.633	.00031	23.647	.08883	2.3833	2.4811	.72539
#1	.00441	.03330	.00599	.08803	.02415	.04814	.10980
#2	.01454	.03330	.00840	.08814	.02335	.04986	.11094

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.04379	.00846	.00649	.00163	.01609
SDev	.00024	.00113	.00064	.00122	.00210
%RSD	.55174	13.387	9.9053	74.842	13.035
#1	.04362	.00926	.00694	.00077	.01757
#2	.04396	.00766	.00603	.00250	.01460

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Analysis Report Thu 04-18-96 02:58:47 PM page 1

Method: SOW40 Sample Name: ICSA994 Operator: SJ
Run Time: 04/18/96 14:56:36
Comment: ICS-A7
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00580	-.00885	-.00266	-.00402	.00183	.03482	467.41
SDev	.01476	.00034	.00006	.00477	.00170	.00657	1.28
%RSD	254.28	3.8274	2.2038	118.59	92.949	18.856	.27374
#1	-.00463	-.00861	-.00270	-.00740	.00304	.03018	466.50
#2	.01624	-.00909	-.00262	-.00065	.00063	.03946	468.31

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00177	.00008	.00354	492.00	.01953	-.00436	.00143
SDev	.00003	.00001	.00014	.41	.00074	.00030	.00033
%RSD	1.4965	15.969	3.9756	.08285	3.8114	6.8867	23.309
#1	.00175	.00009	.00344	491.71	.01900	-.00457	.00120
#2	.00179	.00007	.00364	492.29	.02005	-.00414	.00167

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	172.67	.00091	491.65	.00170	.00038	.06705	.00092
SDev	.14	.00000	.76	.00002	.00045	.00243	.00027
%RSD	.08332	.41185	.15520	1.1498	119.94	3.6262	29.010
#1	172.57	.00091	491.11	.00172	.00070	.06533	.00073
#2	172.78	.00092	492.19	.00169	.00006	.06877	.00111

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.00709	-.12616	.05816	.02044	-.01607
SDev	.00032	.00219	.00117	.00382	.00900
%RSD	4.5450	1.7380	2.0074	18.708	56.025
#1	.00732	-.12461	.05734	.02314	-.02244
#2	.00687	-.12771	.05899	.01774	-.00970

000174

COPY

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Analysis Report QC Standard Thu 04-18-96 03:02:15 PM page 1

Method: SOW40 Sample Name: ICSAB691 Operator: SJ
Run Time: 04/18/96 15:00:06
Comment: ICS-AB7
Mode: CONC Corr. Factor: 1

Elem	As1890	Tl1908	Pb	Se	Sb2068	K_7664	Al3082
Units	PPM	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00688	-.00626	4.3439	-.00546	-.00380	.03985	474.38
SDev	.00808	.00388	.0233	.00245	.00412	.00711	3.41
%RSD	117.33	61.997	.53648	44.873	108.47	17.849	.71854
#1	.01260	-.00352	4.3275	-.00719	-.00671	.04488	471.97
#2	.00117	-.00900	4.3604	-.00373	-.00089	.03482	476.79

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.46762	.45152	.85135	482.59	.44712	.44449	.53375
SDev	.00386	.00339	.00580	3.60	.00256	.00405	.00458
%RSD	.82466	.74995	.68139	.74502	.57346	.91139	.85754
#1	.46489	.44912	.84725	480.05	.44530	.44162	.53051
#2	.47035	.45391	.85545	485.13	.44893	.44735	.53698

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	169.97	.43891	492.04	.81034	.96535	.08166	.45214
SDev	1.23	.00268	3.01	.00485	.00525	.00365	.00377
%RSD	.72421	.61030	.61119	.59867	.54359	4.4659	.83371
#1	169.10	.43701	489.91	.80691	.96164	.07908	.44948
#2	170.84	.44080	494.17	.81377	.96906	.08424	.45481

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.80685	4.0746	4.4766	-.01611	-.00021
SDev	.00257	.0133	.0282	.00537	.00630
%RSD	.31882	.32713	.63032	33.371	2935.7
#1	.80503	4.0652	4.4566	-.01231	-.00467
#2	.80867	4.0841	4.4965	-.01991	.00424

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Analysis Report QC Standard Thu 04-18-96 03:06:49 PM page 1

Method: SOW40 Sample Name: CCV5 Operator: SJ
Run Time: 04/18/96 15:03:28
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	.51212	.20363	.49147	.20097	.51492	48.172	26.800
SDev	.00150	.00263	.00598	.00487	.00473	.597	.203
%RSD	.29217	1.2922	1.2172	2.4242	.91830	1.2397	.75707
#1	.51318	.20549	.49570	.20441	.51826	48.594	26.944
#2	.51106	.20177	.48724	.19752	.51157	47.749	26.657

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.51942	.10012	.48684	26.836	.48631	.48340	.51287
SDev	.00385	.00104	.00456	.290	.00535	.00431	.00302
%RSD	.74120	1.0363	.93677	1.0790	1.1008	.89102	.58805
#1	.52215	.10086	.49007	27.041	.49009	.48644	.51500
#2	.51670	.09939	.48362	26.631	.48252	.48035	.51074

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.576	.49222	26.816	.48404	1.0716	27.152	.51404
SDev	.105	.00470	.238	.00619	.0094	.140	.00626
%RSD	.98828	.95518	.88876	1.2779	.87990	.51659	1.2184
#1	10.650	.49555	26.984	.48841	1.0782	27.251	.51847
#2	10.502	.48890	26.647	.47966	1.0649	27.053	.50961

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	.47498	.47452	.49982	.30740	.14855
SDev	.00365	.00594	.00600	.01359	.00058
%RSD	.76925	1.2517	1.2011	4.4223	.38774
#1	.47757	.47872	.50407	.31701	.14895
#2	.47240	.47032	.49558	.29779	.14814

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KH 129

Analysis Report QC Standard Thu 04-18-96 03:10:14 PM page 1

Method: SOW40 Sample Name: ~~CCB12~~ CCB11 Operator: SJ
Run Time: 04/18/96 15:06:59 4/18/96
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	.00476	-.00336	.00079	.00137	.00256	.01300	.05001
SDev	.00237	.00135	.00063	.00178	.00010	.00473	.00322
%RSD	49.759	40.271	80.392	130.10	3.8895	36.365	6.4315
#1	.00644	-.00431	.00034	.00011	.00263	.00966	.05228
#2	.00309	-.00240	.00124	.00262	.00249	.01634	.04773

Elem	Ba4934	Be3130	Cd2265	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00086	.00049	.00077	.03435	.00052	.00128	-.00040
SDev	.00004	.00001	.00005	.00257	.00031	.00000	.00006
%RSD	4.5134	2.3235	7.0291	7.4925	59.509	.00599	15.742
#1	.00089	.00050	.00081	.03617	.00074	.00128	-.00044
#2	.00084	.00048	.00074	.03253	.00030	.00128	-.00035

Elem	Fe2714	Mn2576	Mg2790	Ni2316	Ag3280	Na5889	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00376	.00053	.03405	.00102	.00094	.02269	.00081
SDev	.00031	.00013	.00162	.00007	.00057	.00119	.00003
%RSD	8.2592	24.970	4.7563	7.0711	60.414	5.2378	3.9284
#1	.00354	.00063	.03519	.00097	.00134	.02353	.00078
#2	.00398	.00044	.03290	.00107	.00054	.02185	.00083

Elem	Zn2062	220351	220352	196021	196022
Units	ppm	PPM	PPM	PPM	PPM
Avge	-.00034	.00294	-.00027	-.01221	.00806
SDev	.00028	.00040	.00075	.00015	.00258
%RSD	80.631	13.624	275.04	1.2523	32.015
#1	-.00015	.00266	-.00080	-.01232	.00623
#2	-.00054	.00322	.00026	-.01211	.00988

000177

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CHEMTECH
CONSULTING GROUP, INC.

ICAP 61E TRACE ANALYZER LOGBOOK

DATE	RUN ID	PROJECT #:	INIT.	COMMENT
04/17/96	9610801	1458 R 1384R, 1389R, 1405R, 1413R	[illegible]	
04/18/96	9610901	1426R, 1427R, 1378R, 1379R, 1414R	[illegible]	

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Rev. 12/95

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Logbook Page Number: 000008

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CHEMTECH
CONSULTING GROUP, INC.

MERCURY
Cold Vapor AA

Method #: _____

Project No.: ~~1405RAS~~, 1413RAS, 1414RAS

Units: PPB (ug/L)

Analyst: _____

Date: 04/18/96

r: 0.9965 x: 0.0221 b: -0.0292

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:
			$SnCl_2$	R0136
			~~NaCl Hydroxylamine~~ Hydrochloride	R0137

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 (0.0 PPB)	S_0		1.0	0.0	<0.02			<0.2	14.13	
Std-1 (0.2 PPB)	$S_{0.2}$		3.5	2.5	0.02			0.2	14.15	
Std-2 (0.5 PPB)	$S_{0.5}$		4.0	3.0	0.05			0.5	14.17	
Std-3 (1.0 PPB)	$S_{1.0}$		7.5	6.5	0.10			1.0	14.19	
Std-4 (5.0 PPB)	$S_{5.0}$		27.5	26.5	0.50			5.0	14.21	
Std-5 (10.0 PPB)	$S_{10.0}$		46.0	45.0	1.00			10.0	14.23	
ICV			23.5	22.5	0.4681			4.681	14.25	
ICB			2.5	1.5	<0.02			<0.2	14.27	
CCV	5.0 PPB		26.5	25.5	0.5343			5.343	14.29	
CCB1			2.5	1.5	<0.02			<0.2	14.31	
CRA	0.2 PPB		3.5	2.5	0.0261			0.261	14.33	
PBW		W	2.5	1.5	<0.02			<0.2	14.35	
~~1405RAS-2222 3050~~	~~MAFRG01~~	W	2.5	1.5	<0.02			<0.2	14.37	
1414RAS-3136	MFGH18	W	2.5	1.5	<0.02			<0.2	14.39	
3137	MFGH18D	W	2.5	1.5	<0.02			<0.2	14.41	
3138	MFGH18S	W	6.5	5.5	~~<0.02~~ 0.0924			0.924	14.43	

r = Correlation Coefficient
x = Slope
b = Constant
Rev. 12/95

COMMENTS: ALL '2222' SAMPLES WERE ANALYZED TWICE. (BY MISTAKE) 4/30/96

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Page 1 of 4

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NB/ORIGINAL HG. RAW DATA W/CASE #24517
SDG # MFGH135

MERCURY
Cold Vapor AA

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____

Project No.: ~~1405RAB, 1413RAB, 1414RAB~~ was 11

Units: PPB (ug/L)
Analyst: _____

Date: 4 / 18 / 96
r: _____ x: _____ b: _____

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
3139	MFGH09	W	2.5	1.5	<0.02			<0.2	14:45	
3140	MFGH08	W	2.5	1.5	<0.02			<0.2	14:47	
3141	MFGH07	W	2.0	1.0	<0.02			<0.2	14:49	
3142	MFGH06	W	2.0	1.0	<0.02			<0.2	14:51	
CCV	5.0 PPB		26.0	25.0	0.5233			5.233	14:53	
CCB2			2.0	1.0	<0.02			<0.2	14:55	
~~PBS~~ 2222 was 11		S	2.5	1.5	<0.02			<0.2	14:57	
~~LCS~~ 2222 was 11	(#0287)	S	13.0	12.0	0.2360	2.360	10	23.60	14:59	
1405RAB 2222 was 11 ~~3042~~	~~MAFP54~~ was 11	S	2.5	1.5	<0.02			<0.2	15:01	
2222 ~~3043~~	~~MAFP55~~ was 11	S	2.0	1.0	<0.02			<0.2	15:03	
2222 ~~3044~~	~~MAFP56~~ was 11	S	2.5	1.5	<0.02			<0.2	15:05	
2222 ~~3045~~	~~MAFP57~~ was 11	S	2.5	1.5	<0.02			<0.2	15:07	
2222 ~~3046~~	~~MAFP57D~~ was 11	S	2.0	1.0	<0.02			<0.2	15:09	
2222 ~~3047~~	~~MAFP57S~~ was 11	S	7.0	6.0	0.1034			1.034	15:11	
2222 ~~3048~~	~~MAFP58~~ was 11	S	2.5	1.5	<0.02			<0.2	15:13	
2222 ~~3049~~	MAFP59 was 11	S	2.0	1.0	<0.02			<0.2	15:15	

r = Correlation Coefficient
x = Slope
b = Constant
Rev. 12/95

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5/01/96

MERCURY
Cold Vapor AA

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____

Project No.: ~~1405RAS~~, 1413RAS, 1414RAS
was 1

Units: PPB (ug/L)

Date: 4 / 18 / 96

Analyst: _____

r: _____ x: _____ b: _____

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	25.0	0.5233			5.233	15:17	
ccb3			21.0	0.0	<0.02			<0.2	15:19	
~~3053~~ 2222	~~MAFP4u5 was 1~~	S	O.C.	O.C.	Will be Diluted			—	15:21	
1413RAS-3127	MFAGH39	S	2.0	1.0	<0.02			<0.2	15:23	
3128	MFAGH39D	S	2.5	1.5	<0.02			<0.2	15:25	
3129	MFAGH39S	S	7.0	6.0	0.1034			1.034	15:27	
3130	MFGH40	S	2.0	1.0	<0.02			<0.2	15:29	
3131	MFGH36	S	2.0	1.0	<0.02			<0.2	15:31	
3132	MFGH35	S	5.0	4.0	0.0592			0.592	15:33	
3133	MFGH37	S	2.0	1.0	<0.02			<0.2	15:35	
3134	MFGH38	S	2.0	1.0	<0.02			<0.2	15:37	
3155	MFGH44	S	2.5	1.5	<0.02			<0.2	15:39	
CCV	5.0 PPB		26.5	25.5	0.5343			5.343	15:41	
ccb4			2.0	1.0	<0.02			<0.2	15:43	
PBS		S	2.5	1.5	<0.02			<0.2	15:45	
LCSS	A0287	S	13.0	12.0	0.2360	2.360	10	23.60	15:47	

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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.: ~~1408RAS~~, ~~1413RAS~~, ~~1414RAS~~ vost

Units: PPB (ug/L)

Date: 4/18/96

Analyst: _____

r: _____ x: _____ b: _____

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
3156	MFGH41	S	1.5	0.5	<0.02			<0.2	15:49	
3157	MFGH45	S	2.0	1.0	<0.02			<0.2	15:51	
3158	MFGH42	S	2.0	1.0	<0.02			<0.2	15:53	
3159	MFGH46	S	4.5	3.5	0.0481			0.481	15:55	
3160	MFGH43	S	2.5	1.5	<0.02			<0.2	15:57	
3161	MFGE00 vost	S	2.5	1.5	<0.02			<0.2	15:59	
3162	MFGD97	S	2.0	1.0	<0.02			<0.2	16:01	
3163	MFGD99	S	2.5	1.5	<0.02			<0.2	16:03	
CCV	5.0 PPB		26.0	25.0	0.5233			5.233	16:05	
CCB5			2.0	1.0	<0.02			<0.2	16:07	
vost ~~PBS~~ 22222		S	2.5	1.5	<0.02			<0.2	17:19	
vost ~~LCSS~~ 22222	(#0287)	S	13.5	12.5	0.2470	2.470	10	24.70	17:21	
~~3055~~ 22222	~~MFFP45~~ vost	S	11.0	10.0	0.1918	1.918	10	19.18	17:23	
CCV	5.0 PPB		26.0	25.0	0.5233			5.233	17:25	
CCB6			2.0	1.0	<0.02			<0.2	17:27	

r = Correlation Coefficient
x = Slope
b = Constant
Rev. 12/95

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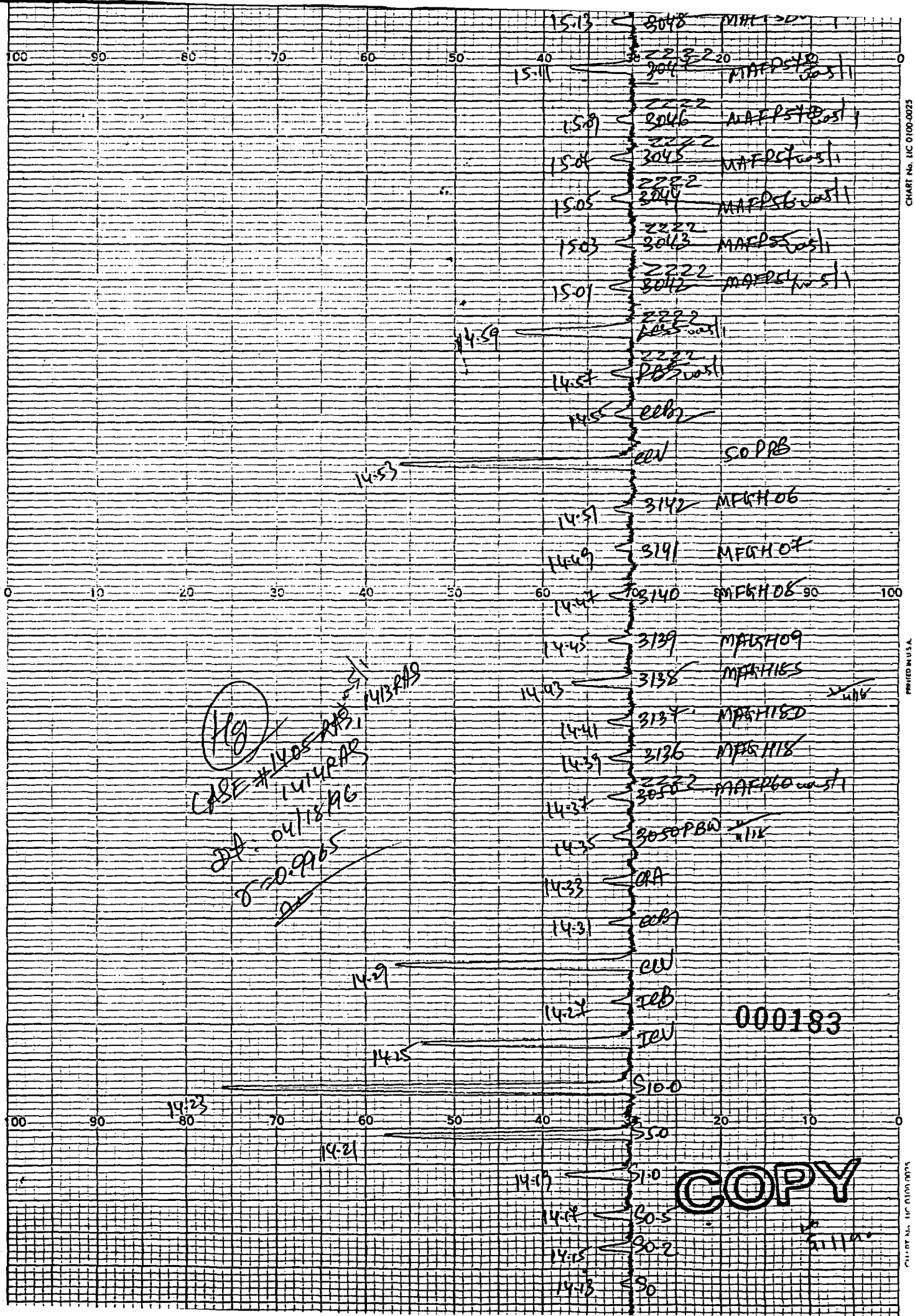
5/01/96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15.03 3043 MAFP53 Cost 1
15.01 3042 MAFP52 Cost 1
14.59 Cost 1
14.57 PB5 Cost 1
14.55 ccb
14.53 cc SOPB
3142 MFGH06
14.51
14.49 3141 MFGH07
14.47 3140 MFGH08
14.45 3139 MFGH09
14.43 3138 MFGH185
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14.39 3136 MFGH18
14.37 3050 MAFP60 cost 1
14.35 3050PBW
14.33 ORA
14.31 ccb
14.29 cc
14.27 TCB
14.25 TCV
S100
14.23
S50
14.21
14.19 S1.0
14.17 S0.5
14.15 S0.2
14.13 S0
Hg
CASE #1405-RAS1
1413RAS
1414PAS
1414PG
DA: 04/18/PG
r = 0.9965
000183
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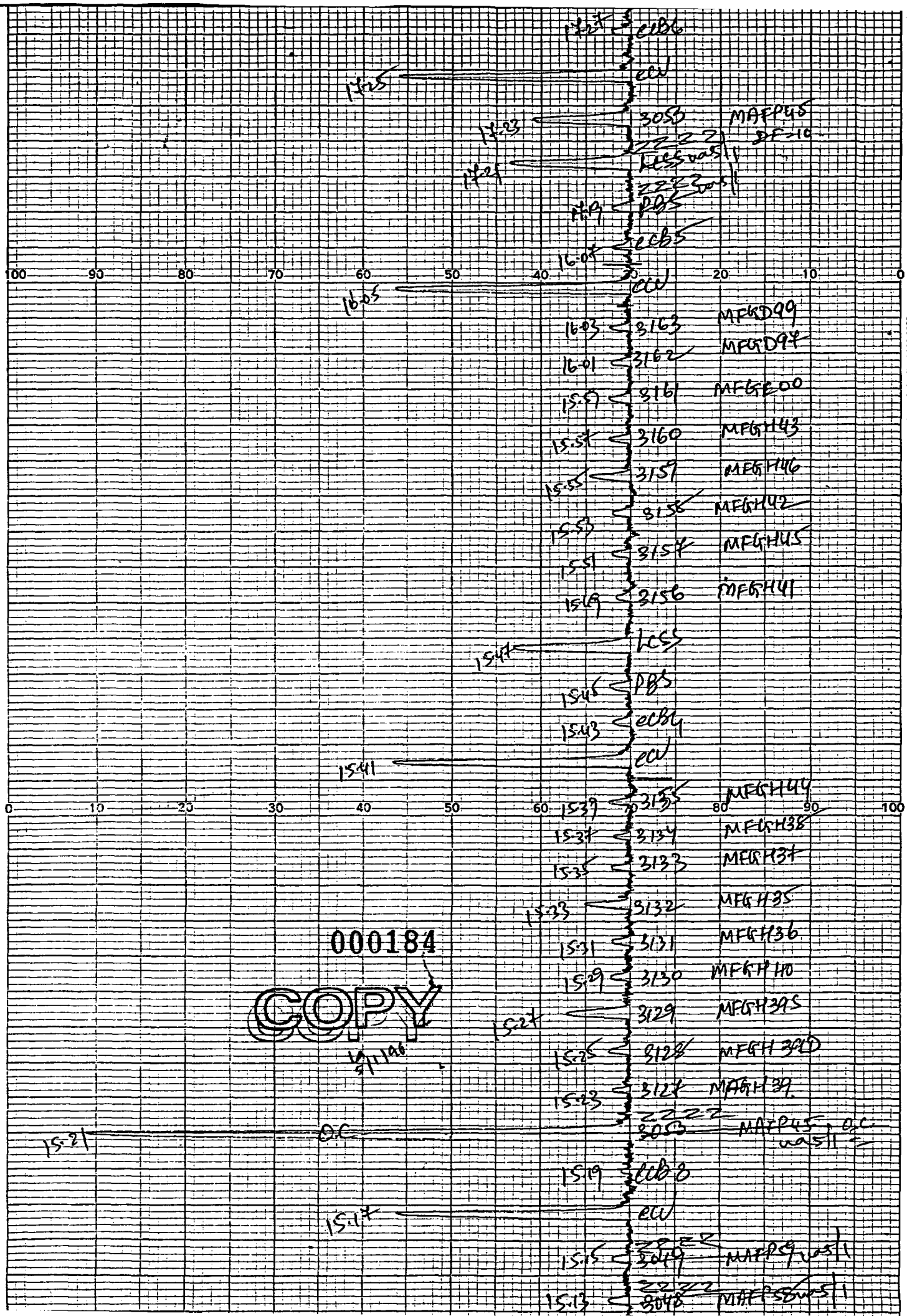

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CHART No. LIC 0100-0025

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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
03/26/96	Clients		14:00	0.0	3.0	5.0	9.5	34.0	65.0
3/29/96	1365NJ 1406RAP 1408NJ		12:00	0.0	2.0	5.0	7.0	30.0	63.0
4/9/96	Client		13:00	0.0	1.5	2.0	6.0	26.5	47.0
04/10/96	1356RAS 1359RAS 1360RAS		13:30	0.0	2.0	3.5	6.0	28.0	46.5
4/12/96	Client		12:00	0.0	1.0	4.0	6.0	24.0	43.0
04/12/96	1378RAS 1381RAS 1412NJ 1438NJ		12:00	0.0	2.0	4.5	6.5	29.0	55.0
4/13/96	1415NJ 1436NJ 1439NJ	1471NJ 1477NJ	12:00	0.0	1.0	4.0	7.0	27.0	52.0
04/15/96	1422BPM 1435BPM		12:30	0.0	1.5	4.0	6.0	25.0	44.0
4/15/96	1461BPM 1474BPM 1491BPM		12:30	0.0	2.5	3.0	4.5	25.0	46.0
04/16/96	1450CLP 1489CLP 1519NJ		13:00	0.0	2.0	3.5	5.0	24.0	48.0
4/16/96	1376RAS 1377RAS 1379RAS		13:00	0.0	2.0	2.5	6.0	23.5	43.0
4/17/96	1380RAS 1384RAS 1389RAS		12:00	0.0	3.0	5.0	7.0	28.0	49.0
4/17/96	1450CLP 1497CLP		12:00	0.0	2.5	4.5	6.0	24.5	44.0
4/18/96	~~1405RAS~~ 1413RAS 1414RAS		13:00	0.0	2.5	4.0	6.5	26.5	45.0

LOGBOOK PAGE: 000002

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5/1/96

CHEMTECH
CONSULTING GROUP, INC

MERCURY ANALYSIS LOGBOOK

END TIME	CORR. COFF. r	SLOPE x	CONC. b	ANALYST	COMMENT
18:00	0.9992	0.0157	-0.026	[illegible]	
15:00	0.9992	0.0162	-0.0104	[illegible]	
16:00	0.9949	0.021	-0.0119	[illegible]	
17:30	0.9957	0.0212	-0.0251	[illegible]	
15:00.	0.9979	0.0233	-0.0246	[illegible]	
22:00	0.9995	0.0184	-0.0185	[illegible]	
17:00	0.9993	0.0194	-0.0158	[illegible]	
15:00.	0.9997	0.0227	-0.0269	[illegible]	
21:30	0.9986	0.0217	-0.0153	[illegible]	
17:00.	0.9997	0.0211	-0.0122	[illegible]	
22:00.	0.9974	0.0234	-0.0214	[illegible]	
17:00	0.9975	0.0204	-0.0387	[illegible]	
22:00	0.9982	0.0231	-0.0353	[illegible]	
18:00	0.9965	0.0221	-0.0292	[illegible]	

LOGBOOK PAGE: _____

CYANIDE

Analysis Spectrophotometric Method, λ = 578 nm 1 cm Cell

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____ Project No.: 1414-RAS; 1422-BEM

Analyst: MR Date: 04-04-96 r: 0.9999 X: 0.8472 b: 0.0012

Std. Name	mL. used	Std. Ref. # From Logbook	Chemical Used	Lot #:
CW	2.5	D0098	Pyridinebarbituric acid sol.	D0090
working std	10	D0098	Buffer	D0091
			Chloramine-T	D0099
			NaOH	D0100

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	<0.0070	—	<0.0070		15:00
S1	S10	water	50	0.0127 ~~0.0127~~ 0.0196	0.0100	—	0.0100		15:02
S2	S100	water	50	0.1169	0.1000	—	0.1000		15:04
S3	S500	water	50	0.5813	0.5000	—	0.5000		15:06
S4	S1000	water	50	1.1826	1.0000	—	1.0000		15:08
ICW	(#1191)	water	50	0.1065	0.0914	—	0.0914		15:10
ICB		water	50	0.0012	<0.0070	—	<0.0070		15:12
CW-1	(0.5mg/L)	water	50	0.5622	0.4775	—	0.4775		15:14
CCB-1		water	50	0.0009	<0.0070	—	<0.0070		15:16
PBW		water	50	0.0013	<0.0070	—	<0.0070		15:18
midrange		water	50	0.5534	0.4700	—	0.4700		15:20
3136	MFGH18	water	50	0.0012	<0.0070	—	<0.0070		15:22
3137	MFGH18D	water	50	0.0010	<0.0070	—	<0.0070		15:24
3138	MFGH18S	water	50	0.1129	0.0968	—	0.0968		15:26
3139	MFGH09	water	50	0.0003	<0.0070	—	<0.0070		15:28
3140	MFGH08	water	50	0.0118	0.0112	—	0.0112		15:30
3141	MFGH07	water	50	0.0029	<0.0070	—	<0.0070		15:32

r = Corelation Coefficient
x = Slope
b = Constant
Rev. 12/95

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1414

CYANIDE

Analysis Spectrophotometric Method, λ = 578 nm 1 cm Cell

CHEMTECH
CONSULTING GROUP, INC.

Method #: _____ Project No.: 1414-RAS, 1422-BEM

Analyst: ML Date: 04-04-96 r: 0.9999 X: 0.8472 b: 0.0012

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
3142	MFAH06	water	50	0.0002	<0.0070	—	<0.0070		15:34
3201 (1422-BEM)	FIELDBLANK	water	50	0.0001	<0.0070	—	<0.0070		15:36
CCW-2	(0.5 mg/L)	water	50	0.5689	0.4832	—	0.4832		15:38
CCB-2		water	50	0.0010	<0.0070	—	<0.0070		15:40

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r = Corelation Coefficient
x = Slope
b = Constant
Rev. 12/95

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
03/22/96	1342	RAS	15:30	0.0000	0.0099	0.1137	0.5892	1.0984	17:25	0.9994	0.9009	-0.0034	H	—
03/23/96	1360-RAS, 1379-RAS		19:00	0.0000	0.0135	0.1344	0.6288	1.3218	22:00	0.9997	0.7612	0.0026	H	—
03/24/96	1361-RAS; 1380 RAS		16:30	0.0000	0.0100	0.0912	0.6180	1.1220	18:30	0.9984	0.8712	0.0008	H	—
03/25/96	1362C; 1363C; 136 1371NJ; 1385NJ		16:00	0.0000	0.0141	0.1441	0.6113	1.3044	19:00	0.9994	0.7764	0.0006	H	—
3-27-96	1376-RAS		15:000	0.0000	0.0094	0.1176	0.5573	1.1165	16:50	0.9999	0.8966	-0.0009	PM/SJ	—
3-28-96	1377-RAS		13:20	0.0000	0.0117	0.1226	0.5764	1.2587	15:25	0.9991	0.8003	0.0068	PM/SJ	—
3-29-96	1384-RAS 1378-RAS		15:00	0.0000	0.0124	0.1195	0.6003	1.2488	17:35	0.9998	0.8031	0.0038	PM/SJ	—
3-30-96	1378-RAS		16:30	0.0000	0.0144	0.0911	0.6182	1.1231	18:15	0.9984	0.8731	-0.0005	MR/SJ	—
04-01-96	1389-RAS		16:00	0.0000	0.0152	0.1367	0.6430	1.3112	18:00	0.9999	0.7658	-0.0007	H	—
04-02-96	1405-RAS		14:00	0.0000	0.0128	0.1204	0.6100	1.2533	16:15	0.9999	0.7993	0.0027	H	—
04-03-96	1418NJ; 1430NJ 1385NJ		20:00	0.0000	0.0136	0.1296	0.6214	1.2783	22:30	0.9999	0.7856	0.0009	H	—
04-04-96	1414-RAS; 1422-BEM		14:30	0.0000	0.0127	0.1169	0.5812	1.1876	16:30	0.9999	0.8492	0.0012	H	—
04-05-96	checks		18:30	0.0000	0.0099	0.1025	0.6003	1.1183	23:00	0.9992	0.8824	-0.0011	H	—
04-06-96	1422-BEM; 1425-BEM		15:00	0.0000	0.0132	0.1235	0.6041	1.1893	17:00	0.9999	0.8403	-0.0022	H	—
04-08-96	1412-RAS		17:30	0.0000	0.0121	0.1101	0.5574	1.1365	19:15	0.9995	0.8822	0.0026		

LOGBOOK PAGE: 000001
000002

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CONSULTING GROUP, INC

CYANIDE ANALYSIS LOGBOOK

LOGBOOK PAGE: 0000022

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CHEMTECH
CONSULTING GROUP, INC.

Sample Preparation Worksheet
ICP and AA Furnace

Matrix: Water

Project No.: 1414RAS

ICP. Dig. Date 4 / 16 / 96

Initial Vol: 100 mL

Final Vol. 100 mL

Fur. Dig. Date: / /

SDG No.:

Analyst: ST

Hot Plate Temp. 94 °C

Method #:

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Stock #:
LCSW	100 ml	I0031	Con. HNO3	M0099
PDS#1	1 ml	I0005	HNO3 (1:1)	I0030
PDS#2	1 ml	~~I0027~~ I0017	HCl (1:1)	I0029
PDS#3	1 ml	I0007		

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	4.7	
3136	MFGH18	White	Colorless	Cloudy	Clear	<2	
3137	MFGH18D	White	Colorless	Cloudy	Clear	<2	
3138	MFGH18S	White	Colorless	Cloudy	Clear	<2	
3139	MFGH09	Brown	Yellow	Cloudy	Clear	<2	
3140	MFGH08	Brown	Yellow	Cloudy	Clear	<2	
3141	MFGH07	Brown	Yellow	Cloudy	Clear	<2	
3142	MFGH06	Brown	Yellow	Cloudy	Clear	<2	

ST

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MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____

Project No.: ~~1405RAB~~, 1413RAB, 1414RAB
was/1

Autoclave / ~~Water Bath~~ Temp.: 121C

Autoclave Pressure: 15 psi

Balance Check: (0.20g) 0.20g

Analyst (s) [illegible]

Date: 4/18/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:
Working-Std.		R0141	$KMnO_4$	R0142
ICV	1ml	H0020.	$K_2S_2O_8$	R0143
Spike soln.		R0141	HNO_3	H0019
LCSS	0.20g	H0011	H_2SO_4	H0023

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			
PBS		S	0.20g	
LCSS	(#0284)	S	0.20g	ALL 'ZZZZZ' SAMPLES
was/1 ~~1405RAB ZZZZ 3042~~	~~MAFP54~~ was/1	S	0.20g	WERE ANALYZED TWICE
~~3043 ZZZZ~~	~~MAFP55~~ was/1	S	0.20g	BY MISTAKE. [illegible]
~~3044 ZZZZ~~	~~MAFP56~~ was/1 4/18/96	S	0.20g	

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NB| ORIGINAL HG. PREPRATION WORKSHEET
W|CASE# 24517, SDG # MFGH35

COPY
was/1/96

MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____

Project No.: ~~1405RAS~~ wash 1, 1413RAS, 1414RAS

Autoclave / ~~Water Bath~~ Temp.: _____

Autoclave Pressure: _____

Balance Check: (0.20g) 0.20g

Analyst (s) DLP

Date: 4/18/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W / S	Sampl Wt. / Vol	Comment
~~3045~~ 2222	~~MAFP54 wash 1~~	S	0.20g	
~~3046~~ 2222	~~MAFP54 Dwash 1~~	S	0.20 g	
~~3047~~ 2222	~~MAFP54S wash 1~~	S	0.20 g	Spike Added 1.0 PPB
~~3048~~ 2222	~~MAFP55 wash 1~~	S	0.20 g	
CCV	5.0 PPB			
CCB2				
~~3049~~ 2222	~~MAFP59 wash 1~~	S	0.20g	
~~3050~~ 2222	~~MAFP45 wash 1~~	S	0.20 g	
1413RAS-3127	MFGH39	S	0.20 g	
3128	MFGH39D	S	0.20 g	
3129	MFGH39 S	S	0.20 g	Spike Added 1.0 PPB
3130	MFGH40	S	0.20 g	
3131	MFGH36	S	0.20g	
3132	MFGH35	S	0.20g	
3133	MFGH37	S	0.20g	
3134	MFGH38	S	0.20g	

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MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____

Project No.: 1405RAS, 1413RAS

Autoclave / Water Bath Temp.: _____

Autoclave Pressure: —

Balance Check: (0.20g) _____

Analyst (s) D/

Date: 04/18/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W / S	Sampl Wt. / Vol	Comment
CCV	5.0 PPB			
ccB3				
3155	MFGH44	S	0.20g	
3156	MFGH41	S	0.20 g	
3157	MFGH45	S	0.20g	
3158	MFGH42	S	0.20g	
3159	MFGH46	S	0.20g	
3160	MFGH43	S	0.20 g	
3161	MFGE00	S	0.20 g	
3162	MFGD0097	S	0.20g	
3163	MFGD9799 4/18	S	0.20g	
CCV	5.0 PPB	S		
ccB4				
PBS 2222 was 11		S	0.20g	
LCS 2222 was 11	#0287	S	0.20g	
CCV	5.0 PPB			

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MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____

Project No.: was 1 ~~1405RAS~~, 1414RAS

~~Autoclave~~ / Water Bath Temp.: 95°C (2hr)

Autoclave Pressure: —

Balance Check: (0.20g)_____

Analyst (s) D/[illegible]

Date: 4/18/96

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	100 ml	
1405RAS-3050222	~~MAFP60~~ was 1	W	100 ml	
1414RAS-3136	MFGH18	W	100 ml	
3137	MFGH18D	W	100 ml	
3138	MFGH18S	W	100 ml	
3139	MFGH09	W	100 ml	
3140	MFGH08	W	100 ml	
3141	MFGH07	W	100 ml	
3142	MFGH06 ~~MFGH08~~	W	100 ml	
CCV	5.0 PPB			
ECBS				
				4/18/96

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MERCURY PREPRATION WORKSHHET

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Project No.: ~~1405 RAS~~ was/1

Autoclave / ~~Water~~ Bath Temp.: 121C Autoclave Pressure: 15 Psi

Balance Check: (0.20g) 0.20g Analyst (s) [illegible] Date: 4/18/96

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:

Lab Sample No.	Client Sample No.	Matrix W / S	Sampl Wt. / Vol	Comment
was/1 ~~PBG2222~~		S	0.20g	
~~LLS 2222~~	~~#0264~~ was/1	S	0.20g	
~~3053~~	~~MAFP45~~	S	0.20g	
ECU				
ECBG				

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BLC 5/11

CHEMTECH
CONSULTING GROUP, INC.

MERCURY DIGESTION LOGBOOK

Date	Project No.:	Batch No.:	Matrix	Digst. Time	Digst. Pressure	Digst. Temp.	Analyst	Comment
4/12/96	Client		Soil	9.30	15psi	121C	[illegible]	—
4/12/96	1478RAS, 1361RAS 1418NJ, 1436NJ		Water	15.00	—	95C	[illegible]	2 hr water bath.
4/13/96	1418NJ, 1436NJ 1459NJ, 1471NJ 1477NJ		Soil	9.00	15psi	121C	[illegible]	—
4/15/96	1422BEM 1435BEM		Soil	9.30	15psi	121C	[illegible]	—
04/15/96	1422BEM		water	9.00	—	95C	[illegible]	2 hr waterbath
4/15/96	1462BEM, 1474BEM 1491 BEM		Soil	15.00	15psi	121C	[illegible]	—
4/16/96	1450 CLP, 1469CLP 1519NJ		Soil	9.15	15psi	121C	[illegible]	—
4/16/96	1376RAS, 1377RAS 1379RAS		Soil	13.00	15psi	121C	[illegible]	—
4/16/96	1377RAS		water	14.00	—	95C	[illegible]	2 hr water bath
4/16/96	1377RAS, 1379RAS		Soil	20.00	15psi	121C	[illegible]	—
4/17/96	1380RAS, 1384RAS 1389RAS	[illegible] 4/17/96	Soil	9.00	15psi	121C	[illegible]	—
4/17/96	1380RAS, 1384RAS		water	9.30	—	95C	[illegible]	2 hr waterbath
4/17/96	1384RAS		Soil	14.45	15psi	121C	[illegible]	—
4/17/96	1450CLP 1469CLP		Soil	16.00	15psi	121	DB	—
4/18/96	1405RAS, 1413RAS 1414RAS [illegible] 4/18		Soil	9.00	15psi	121	[illegible]	—
4/18/96	1405, 1414		water	9.30	[illegible] 4/18	95C	[illegible]	2 hr water bath
4/18/96	1405RAS		Soil	15.30	15psi	121C	[illegible]	

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Logbook Page Number: 3

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[illegible] 5/1/96

CYANIDE DISTILLATION LOG

CHEMTECH
CONSULTING GROUP, INC.

Method No.: _____ Rec. Date ___/___/_____ Project No.: 1414-PAS, 1422 BER

SDG No.: _____ Distilled Date: 04/04/96 Analyst (s) MR

Std. Name	mL. used	Std. Ref. # From Loogbook	Chemical Used	Lot #:
ICV	0.5	C0018	NaOH	D0100
Mid Range Std	2.5	D0098	H_2SO_4	D0093
Spike sol.	0.5	D0098	$MgCl_2$	D0092

SET #:	Lab Sample No.	Client Sample No.	Matrix	Wt. / Vol (mL.)	pH	Sulfide Test	Comment
1	3136	MFGH18	water	50	>12	-ve	
2	3137	MFGH18D	water	50	>12	-ve	
3	ICV	(#1191)	water	50	>12	-ve	
4	ICB		water	50	>12	-ve	
5	Mid Range		water	50	>12	-ve	
6	PBW		water	50	>12	-ve	
7	3138	MFGH18S	water	50	>12	-ve	
8	3139	MFGH09	water	50	>12	-ve	
9	3140	MFGH08	water	50	>12	-ve	
1	3141	MFGH07	water	50	>12	-ve	
2	3142	MFGH06	water	50	>12	-ve	
3	3201	FIELD BLANK	water	50	>12	-ve	
4							
5							
6							
7							
8							
9							

Final Distilate Volume: 50ml

000196

04/04/96

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CHEMTECH
CONSULTING GROUP, INC.

CYANIDE DISTILLATION LOGBOOK

DATE DIST.	CASE No.	BATCH No.	MATRIX	ANALYST	COMMENT
03/22/96	1352-RAS		soil & water	M/MP	—
03/22/96	1342-RAS		soil	M/MP	—
03/23/96 ~~03/24/96~~ ~~3/22/96~~	1360-RAS; 1379-RAS		soil	M/PM	—
03/24/96	1361-RAS; 1380-RAS		water	MP/MR	—
03/25/96	1362C; 1363C; 1374NJ, 1385NJ, 1386C.		water & soil	M	—
3-27-96.	1376-RAS		soil	PM/SJ	—
3-28-96	1377-RAS		soil & water	PM/SJ	—
3-29-96	1384-RAS ~~1378-RAS~~	PM 3-29-96	soil & water	PM/SJ	—
03-30-96	1378-RAS		water	MR/SJ	—
04-01-96	1389-RAS		soil	M	—
04-02-96	1405-RAS		soil & water	M	—
04-03-96	1418NJ. 1436NJ 1385NJ.		soil	M/MP	—
04-04-96	1414-RAS; 1422-BEM		water	M	—
04-05-96	client		water	M	—
04-06-96	1422-BEM. 1435-BEM		~~water~~ ~~04/06/96~~ soil	M	—
04-08-96	1413-RAS		soil	M	—

LOGBOOK PAGE: 2

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EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable): #

Case No.: 24517

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. 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

2. Region No.: 6
Sampling Co.: TNRCC
Sampler (Name): Johnny Kennedy
Sampler Signature: [signature]
3. Purpose*: Lead: [✓] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [✓] SI [ ] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: 03/27/96
Carrier: Airborne
Airbill Number: 434 332 1076
5. Ship To: Chemtech Consulting, 110 Route 4, Englewood, NJ 07631
ATTN: Divya Mehta

6. Date Received – Received by: 3/28/96 B. Morrow
Laboratory Contract Number: DS-0166
Unit Price:
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

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.
MFGH18	2	L	G	2,5		X						6-020573-74	GW-20	03/26/96 1510	FER43	JK			
MFGH16	2	L	G	3,5			X					6-020575-76	GW-20	03/26/96 1516	FER43	JK			
MFGH09	2	L	G	2,5		X						6-020649	GW-17	03/26/96 1622	FER58	JK			
MFGH09	2	L	G	3,5			X					6-020650	GW-17	03/26/96 1622	FER58	JK			
MFGH08	2	L	G	2,5		X						6-020654	GW-18	03/26/96 1549	FER57	AF			
MFGH08	2	L	G	3,5			X					6-020655	GW-18	03/26/96 1549	FER57	AF			
MFGH07	2	L	G	2,5		X						6-020659	GW-19	03/26/96 1648	FER62	AF			
MFGH07	2	L	G	3,5			X					6-020660	GW-19	03/26/96 1648	FER62	AF			
MFGH06	2	L	G	2,5		X						6-020664	GW-21	03/26/96 1546	FER61	AF			
MFGH06	2	L	G	3,5			X					6-020665	GW-21	03/26/96 1546	FER61	AF			

Shipment for Case Complete? (Y/N): N
Page: 1 of 1
Sample(s) to be Used for Laboratory QC: MFGH 18
Additional Sampler Signatures: Abigail Ford
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]	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		B. Morrow	3/28/96 11:30		

A21-012-4 REV. 3/93

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

EPA Form 9110-1

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

355286

PLEASE PRINT OR TYPE

FOR SHIPMENTS WITHIN U.S. ONLY

PACKAGE LABEL

FROM

TNRCC
12015 Park 35 Circle
Austin, Texas 78753
Att: Ray Newby
(512) 239-5674

TO

Chemtech Consulting
110 Route 4
Englewood, NJ 07631
Att: Divya Mehta
(201) 567-6868

4343321076

Preprint Format No. 4555239

Origin

Airbill Number 4343321076

Method of Payment (Assumed sender unless otherwise noted)

- Bill Sender
- Bill Receiver
- Bill 3rd Party
- Paid in Advance

AIRBORNE EXPRESS.

EXP

NAS Letter 16 lbs

SDS

Billing Reference will appear on invoice

MATLCOD: MC 142

No. of Pkgs	Weight LBS (SUBJECT TO CORRECTION)	Check if: LETTER EXPRESS / EXP. PACK

Special Instructions

- SAT
- HAA
- LAB

434 332 1076

BGGA
1-T

Rec by
B Moronti
3/28/96 1130

000199

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY Bm pH Verified by Bm
CLIENT : USEPA CLP SMO SAMPLE BATCH NUMBER : 568
PROJECT NAME : 1414RAS CLIENT NO. : 7
SAMPLES DELIVERED : 03/28/96 AT 1130 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 03/28/96 TIME 16:27

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED

ANALYSES REQUESTED

3136 MFGH18 03/26/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. KENNEDY LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CONTRACT#: D5-0166 CASE#: 24517 AIREX#: 4343 321 076
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 05/02/96

3137 MFGH18DUP 03/26/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. KENNEDY LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CONTRACT#: D5-0166 CASE#: 24517 AIREX#: 4343 321 076
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 05/02/96

3138 MFGH18PDS 03/26/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. KENNEDY LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CONTRACT#: D5-0166 CASE#: 24517 AIREX#: 4343 321 076
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 05/02/96

3139 MFGH09 03/26/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. KENNEDY LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CONTRACT#: D5-0166 CASE#: 24517 AIREX#: 4343 321 076
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 05/02/96

3140 MFGH08 03/26/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. KENNEDY LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CONTRACT#: D5-0166 CASE#: 24517 AIREX#: 4343 321 076
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 05/02/96

2 Bm

ChemTech Consulting Group, Inc.
SAMPLE LOGIN PAGE

SAMPLES LOGGED IN BY Bm pH Verified by Bm
CLIENT : USEPA CLP SMO SAMPLE BATCH NUMBER : 568
PROJECT NAME : 1414RAS CLIENT NO. : 7
SAMPLES DELIVERED : 03/28/96 AT 1130 HOURS BY : FEDEX
SAMPLES RECEIVED BY : BM
LOG IN DATE AND TIME : 03/28/96 TIME 16:27

SAMPLE NUMBER	CLIENT SAMPLE ID	SAMPLE DATE	SAMP TIME	FRACTIONS OR CONTAINERS RECEIVED

ANALYSES REQUESTED

3141 MFGH07 03/26/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. KENNEDY LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CONTRACT#: D5-0166 CASE#: 24517 AIREX#: 4343 321 076
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 05/02/96

3142 MFGH06 03/26/96 3PNU,3PBU
TALMCN ,
MATRIX: WW SAMPLER: J. KENNEDY LOCATION: REGION 6
TYPE SAMPLE: Grab COMMENT: CONTRACT#: D5-0166 CASE#: 24517 AIREX#: 4343 321 076
TEMP: 4.0 C
RESULTS PROMISED NO LATER THAN : 05/02/96

3143 LCSW 03/26/96 3GCU
TAL ,
MATRIX: WW SAMPLER: LOCATION: L. C. S. W.
TYPE SAMPLE: Grab COMMENT:
RESULTS PROMISED NO LATER THAN : 05/02/96

2Bm

SAMPLE LOG-IN SHEET

Lab Name: CHEMTECH	Page 1 of 1
Received By (Print Name): Babak Moroveti	Log-in Date: 3/28/96
Received By (Signature): B. Moroveti	
Case Number: 24517	Sample Delivery Group No.: MFGH06
	SAS Number: —

Remarks:

1. Custody Seal(s) — Present/Absent* — Intact/Broken
2. Custody Seal Nos. — NA
3. Chain-of-Custody Records — Present/Absent*
4. Traffic Reports or Packing Lists — Present/Absent*
5. Airbill — Airbill/Sticker Present/Absent*
6. Airbill No. — 4343 321076
7. Sample Tags — Present/Absent*
   Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
8. Sample Condition — Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree? — Yes/No*
10. Date Received at Lab — 3/28/96
11. Time Received — 11:30

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
MFGH18	6-020573-76	3136-38	Fuming
09	020649-50	3139	
08	020654-55	3140	
07	020659-60	3141	
06	020664-65	3142	

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.: D5-0166

Lab Code: Chem Case No.: 24517 SAS No.: _____

Full Sample Analysis Price in Contract: $ _____

SDG No./First Sample in SDG: mFGH06 Sample Receipt Date: 3/28/96
(Lowest EPA Sample Number in first shipment of samples received under SDG.) (MM/DD/YY)

Last Sample in SDG: mFGH18 Sample Receipt Date: 3/28/96
(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	MFGH 06	11	
2	07	12	
3	08	13	
4	09	14	
5	18	15	
6		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. Morrow 3/28/96

Signature Date

000203

10

EPA United States Environmental Protection Agency
Contract Laboratory Program

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

SAS No. (if applicable): *

Case No.: 24517

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier
		6	TNRCC	03/27/96	Airborne

Regional Information:

Sampler (Name): Johnny Kennedy

Airbill Number: 4343321076

Non-Superfund Program:

Sampler Signature:

5. Ship To: Chemtech Consulting, 110 Route 4, Englewood, NJ 07631
ATTN: Divya Mehta

Site Name: Old Brazos Forge

City, State: Brenham, TX

Site Spill ID:

3. Purpose: Lead ☑ SF ☐ PRP ☐ ST ☐ FED; Early Action ☐ CLEM ☐ PA ☐ REM ☐ RI ☑ SI ☐ 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 = Reissue, PE = Perform. Eval., — = Not A QC Sample)
MFGH18	2	L	G	2,5		X						6-020573-74	GW-20	03/26/96 1516	FER43	JK	—
MFGH18	2	L	G	3,5			X					6-020575-76	GW-20	03/26/96 1516	FER43	JK	—
MFGH09	2	L	G	2,5		X						6-020649	GW-17	03/26/96 1622	FER58	JK	—
MFGH09	2	L	G	3,5			X					6-020650	GW-17	03/26/96 1622	FER58	JK	—
MFGH08	2	L	G	2,5		X						6-020654	GW-18	03/26/96 1549	FER57	AP	—
MFGH08	2	L	G	3,5			X					6-020655	GW-18	03/26/96 1549	FER57	AP	—
MFGH07	2	L	G	2,5		X						6-020659	GW-19	03/26/96 1648	FER62	AP	—
MFGH07	2	L	G	3,5			X					6-020660	GW-19	03/26/96 1648	FER62	AP	—
MFGH06	2	L	G	2,5		X						6-020664	GW-21	03/26/96 1648	FER61	AP	D(FER62)
MFGH06	2	L	G	3,5			X					6-020665	GW-21	03/26/96 1648	FER61	AP	D(FER62)

Shipment for Case Complete? (Y/N): N

Page 1 of 1

Sample(s) to be Used for Laboratory QC: MFGH 18

Additional Sampler Signatures: Abigail Tow

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)
	03/27/96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	

A21-012-5 REV. 3/93

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

EPA Form 9110-1

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

355286

Designate: Grab / Comp.

Preservative: ice NAOH

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	X
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1516

Month/Day/Year: 3/26/92

Station #: GW-20

Remarks: MFGH 18

Concentration: ☒ L ☐ M ☐ H

Project Code 1: 24517

Tag Number: 6- 020576

Lab Sample Number:

Designate: Grab / Comp.

Preservative: ice NAOH

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	X
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1516

Month/Day/Year: 3/26/92

Station #: GW-20

Remarks: MFGH 18

Concentration: ☒ L ☐ M ☐ H

Project Code 1: 24517

Tag Number: 6- 020575

Lab Sample Number:

Preservative: TCG · NAOH

Yes ☒ No ☐

Designate: Grab / Comp.

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	X
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 16:22

Month/Day/Year: 3/26/96

Station #: GW17

Project Code 1 CLP Case #: 24517

Remarks: MFGH09

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020650

Lab Sample Number:

Preservative: TCG · HNO3

Yes ☒ No ☐

Designate: Grab / Comp.

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
TOT Metals	X
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1545

Month/Day/Year: 03/26/96

Station #: GW18

Project Code 1 CLP Case #: 24517

Remarks: MFGH08

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020654

Lab Sample Number:

Preservative: ICE · HNO3

Yes ☒ No ☐

Designate: Grab. / Comp.

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
TDT Metals	X
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1648

Month/Day/Year: 03/26/96

Station #: GW19

Project Code 1 CLP Case #: 24517

Remarks: MFGH07

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020659

Lab Sample Number:

Preservative: ICE NAOH

Yes ☒ No ☐

Designate: Grab. / Comp.

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	X
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1648

Month/Day/Year: 03/26/96

Station #: GW19

Project Code 1 CLP Case #: 24517

Remarks: MFGH07

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6- 020660

Lab Sample Number:

Preservative: ICE · NAOH

Yes ☒ No ☐

Designate: Grab. / Comp.

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	X
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1529

Month/Day/Year: 03/26/96

Station #: GW-18

Remarks: MFGH08

Concentration: ☒ L ☐ M ☐ H

Project Code / CLP Case #: 24517

Tag Number: 6- 020655

Lab Sample Number:

Preservative: ICE - HNO3

Yes ☒ No ☐

Designate: Grab. / Comp.

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
TDT Metals	X
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1648

Month/Day/Year: 03/26/96

Station #: GW21

Remarks: MFGH06

Concentration: ☒ L ☐ M ☐ H

Project Code / CLP Case #: 24517

Tag Number: 6- 020664

Lab Sample Number:

Preservative: ICE · NAOH

Yes ☒ No ☐

Designate: Grab. / Comp.

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
Metals	
Cyanide	X
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1648

Month/Day/Year: 03/26/96

Station #: GW21

Remarks: MFGH06

Concentration: ☒ L ☐ M ☐ H

Project Code / CLP Case #: 24517

Tag Number: 6- 020665

Lab Sample Number:

Designate: Grab / Comp.

Preservative: ice HNO3

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
tot Metals	X
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1516

Month/Day/Year: 3/26/96

Station #: GW-20

Project Code 1 Client #: 24517

Remarks: MFGH 18

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020573

Lab Sample Number:

Designate: Grab / Comp.

Preservative: ice HNO3

Yes ☒ No ☐

Volatile Organics	
Semi Volatiles (ABN)	
Pesticides/PCB	
tot Metals	X
Cyanide	
Alkalinity/Hardness	
TCLP	
☐ VOA	
☐ ABN	
☐ METALS	
Asbestos	
Dioxin	
Oil and Grease	

Time: 1516

Month/Day/Year: 3/26/96

Station #: GW-20

Project Code 1 Client #: 24517

Remarks: MFGH 18

Concentration: ☒ L ☐ M ☐ H

Tag Number: 6-020574

Lab Sample Number: