SDMS Document
98454

THE
WHITMAN
COMPANIES, INC.

Setting the Standard in
Environmental Engineering & Management

FINAL REMEDIAL INVESTIGATION REPORT

FOR

ROCKAWAY BOROUGH WELL FIELD SITE
OPERABLE UNIT #3
FOR PROPERTY OF
KLOCKNER & KLOCKNER
ROCKAWAY BOROUGH, NEW JERSEY

VOLUME 9
LABORATORY QA/QC DATA PACKAGE
10/8/98 - JOB #I053

SUBMITTED TO
USEPA-REGION II
EMERGENCY & REMEDIAL RESPONSE DIVISION
NEW YORK, NEW YORK

SUBMITTED BY
THE WHITMAN COMPANIES, INC.
ON BEHALF OF KLOCKNER & KLOCKNER

IN ACCORDANCE WITH
ADMINISTRATIVE ORDER ON CONSENT
INDEX NO. II-CERCLA-95-0104

MAY 2004

305487

116 Tices Lane, Unit B-1, East Brunswick, NJ 08816
www.whitmanco.com

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.enviro-lab.com

November 5, 1998

The Whitman Companies, Inc.
44 West Ferris Street
East Brunswick, NJ 08816

RECEIVED
NOV 11 1998
The Whitman Companies, Inc.

Attention: Mr. Michael Metlitz

Re: Job No. I053 - Klockner & Klockner

Dear Mr. Metlitz:

Enclosed are the results you requested for the following sample(s) received at our laboratory on October 09, 1998:

Lab No.	Client ID	Analysis Required
89308	SSAW-5_1.5-2	Purgeable Halocarbons
89309	SSAW-5_11-11.5	Purgeable Halocarbons
89310	SSDP-1_2.5-3	Purgeable Halocarbons, TAL Metals

If you have any questions please contact your Project Manager, Robert McGrady, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

305488

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ENVIROTECH RESEARCH, INC.

Client ID: **SSAW-5_1.5-2**
Site: Klockner & Klockner

Lab Sample No: **89308**
Lab Job No: I053

Date Sampled: 10/08/98
Date Received: 10/09/98
Date Analyzed: 10/22/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9628.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 18.8

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND J	302
Chloromethane	ND	302
Vinyl Chloride	ND	302
Bromomethane	ND	302
Chloroethane	ND	302
Trichlorofluoromethane	ND	302
1,1-Dichloroethene	ND	302
Methylene Chloride	ND J	302
trans-1,2-Dichloroethene	ND	302
1,1-Dichloroethane	ND	302
cis-1,2-Dichloroethene	406	302
Chloroform	ND	302
1,1,1-Trichloroethane	ND	302
Carbon Tetrachloride	ND	302
1,2-Dichloroethane	ND	302
Trichloroethene	10600	302
1,2-Dichloropropane	ND	302
Bromodichloromethane	ND	302
2-Chloroethyl Vinyl Ether	ND J	302
cis-1,3-Dichloropropene	ND	302
trans-1,3-Dichloropropene	ND	302
1,1,2-Trichloroethane	ND	302
Tetrachloroethene	5850	302
Dibromochloromethane	ND	302
Chlorobenzene	ND	302
Bromoform	ND	302
1,1,2,2-Tetrachloroethane	ND J	302
1,3-Dichlorobenzene	ND	302
1,4-Dichlorobenzene	ND	302
1,2-Dichlorobenzene	ND	302

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ENVIROTECH RESEARCH, INC.

Client ID: **SSAW-5_11-11.5**
Site: Klockner & Klockner

Lab Sample No: **89309**
Lab Job No: I053

Date Sampled: 10/08/98
Date Received: 10/09/98
Date Analyzed: 10/21/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9611.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 5.8

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND J	123
Chloromethane	ND	123
Vinyl Chloride	ND	123
Bromomethane	ND	123
Chloroethane	ND	123
Trichlorofluoromethane	ND	123
1,1-Dichloroethene	ND	123
Methylene Chloride	ND J	123
trans-1,2-Dichloroethene	ND	123
1,1-Dichloroethane	ND	123
cis-1,2-Dichloroethene	ND	123
Chloroform	ND	123
1,1,1-Trichloroethane	ND	123
Carbon Tetrachloride	ND	123
1,2-Dichloroethane	ND	123
Trichloroethene	ND	123
1,2-Dichloropropane	ND	123
Bromodichloromethane	ND	123
2-Chloroethyl Vinyl Ether	ND J	123
cis-1,3-Dichloropropene	ND	123
trans-1,3-Dichloropropene	ND	123
1,1,2-Trichloroethane	ND	123
Tetrachloroethene	ND	123
Dibromochloromethane	ND	123
Chlorobenzene	ND	123
Bromoform	ND	123
1,1,2,2-Tetrachloroethane	ND J	123
1,3-Dichlorobenzene	ND	123
1,4-Dichlorobenzene	ND	123
1,2-Dichlorobenzene	ND	123

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ENVIROTECH RESEARCH, INC.

Client ID: **SSDP-1_2.5-3**
Site: Klockner & Klockner

Lab Sample No: **89310**
Lab Job No: I053

Date Sampled: 10/08/98
Date Received: 10/09/98
Date Analyzed: 10/21/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9612.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.2

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	139
Chloromethane	ND	139
Vinyl Chloride	ND	139
Bromomethane	ND	139
Chloroethane	ND	139
Trichlorofluoromethane	ND	139
1,1-Dichloroethene	ND	139
Methylene Chloride	ND	139
trans-1,2-Dichloroethene	ND	139
1,1-Dichloroethane	ND	139
cis-1,2-Dichloroethene	ND	139
Chloroform	ND	139
1,1,1-Trichloroethane	ND	139
Carbon Tetrachloride	ND	139
1,2-Dichloroethane	ND	139
Trichloroethene	656	139
1,2-Dichloropropane	ND	139
Bromodichloromethane	ND	139
2-Chloroethyl Vinyl Ether	ND	139
cis-1,3-Dichloropropene	ND	139
trans-1,3-Dichloropropene	ND	139
1,1,2-Trichloroethane	ND	139
Tetrachloroethene	1100	139
Dibromochloromethane	ND	139
Chlorobenzene	ND	139
Bromoform	ND	139
1,1,2,2-Tetrachloroethane	ND	139
1,3-Dichlorobenzene	ND	139
1,4-Dichlorobenzene	ND	139
1,2-Dichlorobenzene	ND	139

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ENVIROTECH RESEARCH, INC.

Client ID: SSDP-1 2.5-3
Site: Klockner & Klockner

Lab Sample No: 89310
Lab Job No: I053

Date Sampled: 10/08/98
Date Received: 10/09/98

Matrix: SOLID
Level: LOW
% Moisture: 10.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	9080	13.0		P
Antimony	ND	1.0	N	P
Arsenic	10.1 J	0.85		P
Barium	54.5	0.31		P
Beryllium	0.52	0.045		P
Cadmium	0.36	0.089	B	P
Calcium	5370	9.4		P
Chromium	12.0	0.22	*	P
Cobalt	7.8	0.27	B	P
Copper	28.1 J	0.78		P
Iron	29600	9.2		P
Lead	173 J	0.56		P
Magnesium	2480	9.0		P
Manganese	446	0.24	*	P
Mercury	0.14	0.019		CV
Nickel	15.0	0.47		P
Potassium	912	66.9	B	P
Selenium	ND	1.1		P
Silver	ND	0.31		P
Sodium	ND J	94.9		P
Thallium	ND	1.1		P
Vanadium	25.5	0.42		P
Zinc	97.6	1.0	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

305493

DG12

CHAIN-OF-CUSTODY

PROJECT NAME: Klockner & Klockner

PROJECT NO: 95-03-02 Envirotech # 809003

LABORATORY: Envirotech Research, Inc.

SITE ADDRESS: Stickle Avenue & Elm Street, Rockaway Borough, NJ

SAMPLE DATE: 10/8/98

SAMPLER(S): Cheryl L. Coffee / L. WESTCOTT

PAGE 1 OF 1

I053

SAMPLE TIME	SAMPLE LOCATION	SAMPLE ID#	SAMPLE DEPTH	SAMPLE MATRIX	ANALYSIS REQUESTED	PRESER-VATIVE	NO. OF CONT.	SPECIAL INSTRUCTIONS
✓ 1228	ALLEYWAY	SSAW-5	1.5-2	SOIL	PHAL	ICE/MEOH	2	89308
✓ 1232	ALLEYWAY	SSAW-5	11-11.5	SOIL	PHAL	ICE/MEOH	2	89309
1220	DEGREASER PIT	SSDP-1	2.5-3	SOIL	PHAL, TAL Metals	ICE/MEOH	&3	89310

RELINQUISHED BY: [signature] DATE: 10/9/98 TIME: 1600 RECEIVED BY: [signature] DATE: 10-9-98 TIME 1600

RELINQUISHED BY: [signature] DATE: 10-9-98 TIME: 1810 RECEIVED BY: [signature] DATE: 10/9/98 TIME 1810

TOTAL NO. CONTAINERS 6

ANALYTICAL PARAMETER IDENTIFICATION KEY:

PHC PETROLEUM HYDROCARBONS
VOC VOLATILE ORGANICS BY GCMS WITH LIBRARY SEARCH
PAH POLYCYCLIC AROMATIC HYDROCARBONS IN BASE NEUTRAL SCAN WITH LIBRARY SEARCH
BN BASE NEUTRALS WITH LIBRARY SEARCH
AE ACID EXTRACTABLES WITH LIBRARY SEARCH
PPM PRIORITY POLLUTANT METALS
PP+40 PRIORITY POLLUTANT PLUS FORTY PEAKS

CT = CEILING TILE
FT = FLOOR TILE

TSI = THERMAL SYSTEM INSULATION

THE WHITMAN COMPANIES INC
44 WEST FERRIS STREET
EAST BRUNSWICK, NJ 08816

305494

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

Job No: 1053 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc.

VOAGC

8021Be

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
SOLID							
89308	10/8/1998	10/09/1998			10.22.98	KB	3700
89309	10/8/1998	10/09/1998			10.21.98	↓	↓
89310	10/8/1998	10/09/1998			↓	↓	↓

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INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
ENVIROTECH RESEARCH, INC.

777 NEW DURHAM ROAD, EDISON, NJ
08817
(732) 549-3900

Job No: 1053 **Site:** Klockner & Klockner

Client: The Whitman Companies, Inc. **Date Sampled:** 10/8/1998

Sample No.: 89310 **Date Received:** 10/9/1998

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
7471A - MERCURY	10/19/98	MP	10/20/98	MP	7057
6010B - ARSENIC	10/14/99	BSS	10/20/98	PR	7057
6010B - SELENIUM					
6010B - THALLIUM					
6010B - ALUMINUM					
6010B - ANTIMONY					
6010B - BARIUM					
6010B - BERYLLIUM					
6010B - CADMIUM					
6010B - CALCIUM					
6010B - CHROMIUM					
6010B - COBALT					
6010B - COPPER					
6010B - IRON					
6010B - LEAD					
6010B - MAGNESIUM					
6010B - MANGANESE					
6010B - NICKEL					
6010B - POTASSIUM					
6010B - SILVER					
6010B - SODIUM			10/21/98	PR	
6010B - VANADIUM			10/20/98	PR	
6010B - ZINC					

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Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

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Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

	Water Test Method		Solid Test Method	
Element	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

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Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

305499

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND - The compound was not detected at the indicated concentration.

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy. 305500

NON-CONFORMANCE SUMMARY

Envirotech Research, Inc. Job Number: I053

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

305501

Non-conformance Summary, Page 2 of 2
Envirotech Research, Inc. Job Number: I053

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Total Petroleum Hydrocarbons:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

General Chemistry/Disposal Parameters:

All data conforms with method requirements _____; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ( )

Signature of
Laboratory Manager: [signature] Date: 11/5/98

305502

Client ID: **SSAW-5_1.5-2**
Site: Klockner & Klockner

Lab Sample No: **89308**
Lab Job No: I053

Date Sampled: 10/08/98
Date Received: 10/09/98
Date Analyzed: 10/22/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9628.d

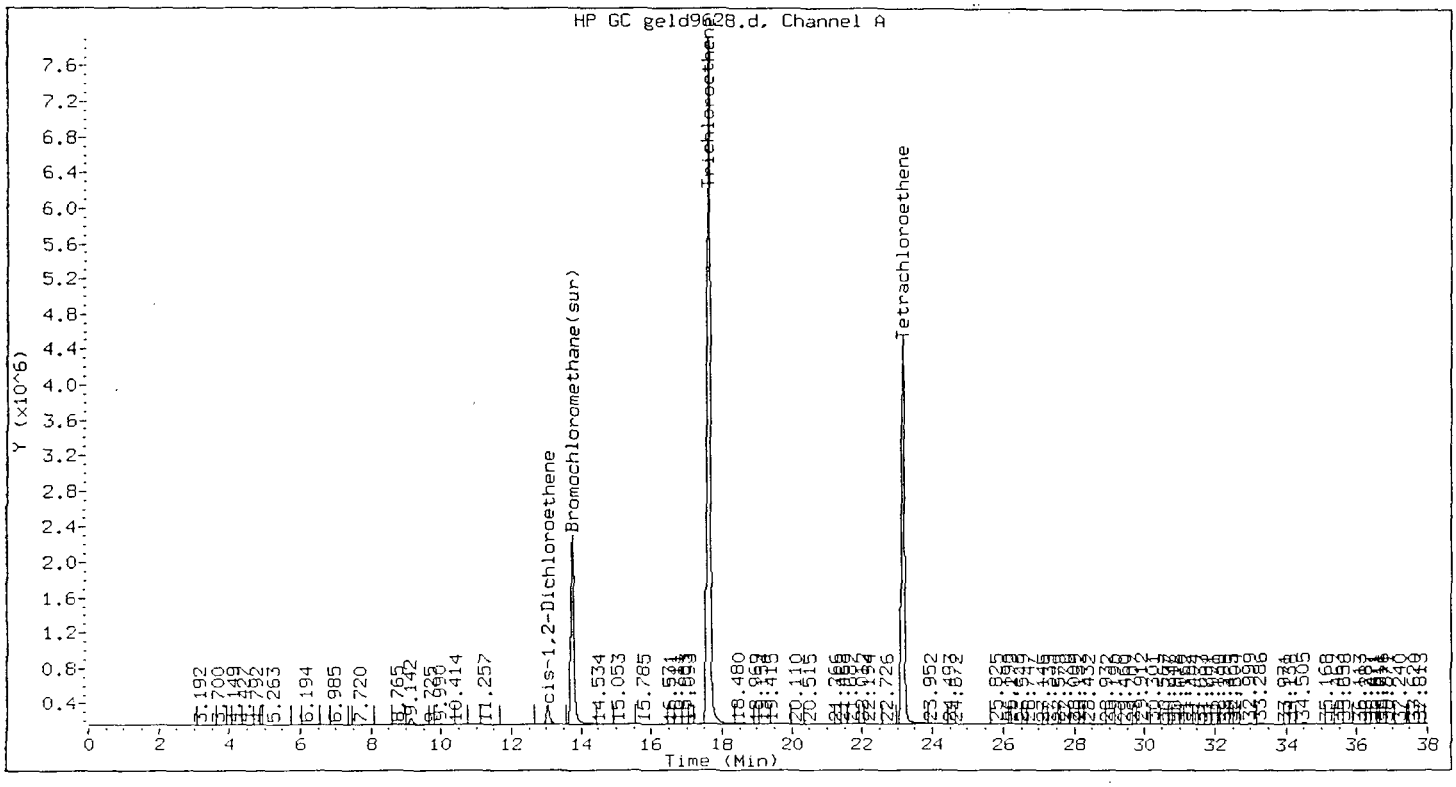
Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 18.8

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	302
Chloromethane	ND	302
Vinyl Chloride	ND	302
Bromomethane	ND	302
Chloroethane	ND	302
Trichlorofluoromethane	ND	302
1,1-Dichloroethene	ND	302
Methylene Chloride	ND	302
trans-1,2-Dichloroethene	ND	302
1,1-Dichloroethane	ND	302
cis-1,2-Dichloroethene	406	302
Chloroform	ND	302
1,1,1-Trichloroethane	ND	302
Carbon Tetrachloride	ND	302
1,2-Dichloroethane	ND	302
Trichloroethene	10600	302
1,2-Dichloropropane	ND	302
Bromodichloromethane	ND	302
2-Chloroethyl Vinyl Ether	ND	302
cis-1,3-Dichloropropene	ND	302
trans-1,3-Dichloropropene	ND	302
1,1,2-Trichloroethane	ND	302
Tetrachloroethene	5850	302
Dibromochloromethane	ND	302
Chlorobenzene	ND	302
Bromoform	ND	302
1,1,2,2-Tetrachloroethane	ND	302
1,3-Dichlorobenzene	ND	302
1,4-Dichlorobenzene	ND	302
1,2-Dichlorobenzene	ND	302

305503

Data File: /chem/VOAGC1.i/8021ELCD/10-21-98/22oct98.b/geld9628.d Page 1
Report Date 10/23/98 08:09



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/22oct98.b/8021E.m
Sample Info : 89308;;100
Lab ID : 89308
Inj Date : 22-OCT-98 12:36:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 100
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
cis-1,2-Dichloroethene	13.042	13.043	0.001	7113736	1.345	405.845
Trichloroethene	17.609	17.614	0.005	249017554	35.006	10566.428
Tetrachloroethene	23.157	23.163	0.006	132069672	19.376	5848.680
Bromochloromethane(sur)	13.745	13.752	0.007	68875267	16.976	5124.044

305504

Client ID: **SSAW-5_11-11.5**
Site: Klockner & Klockner

Lab Sample No: **89309**
Lab Job No: I053

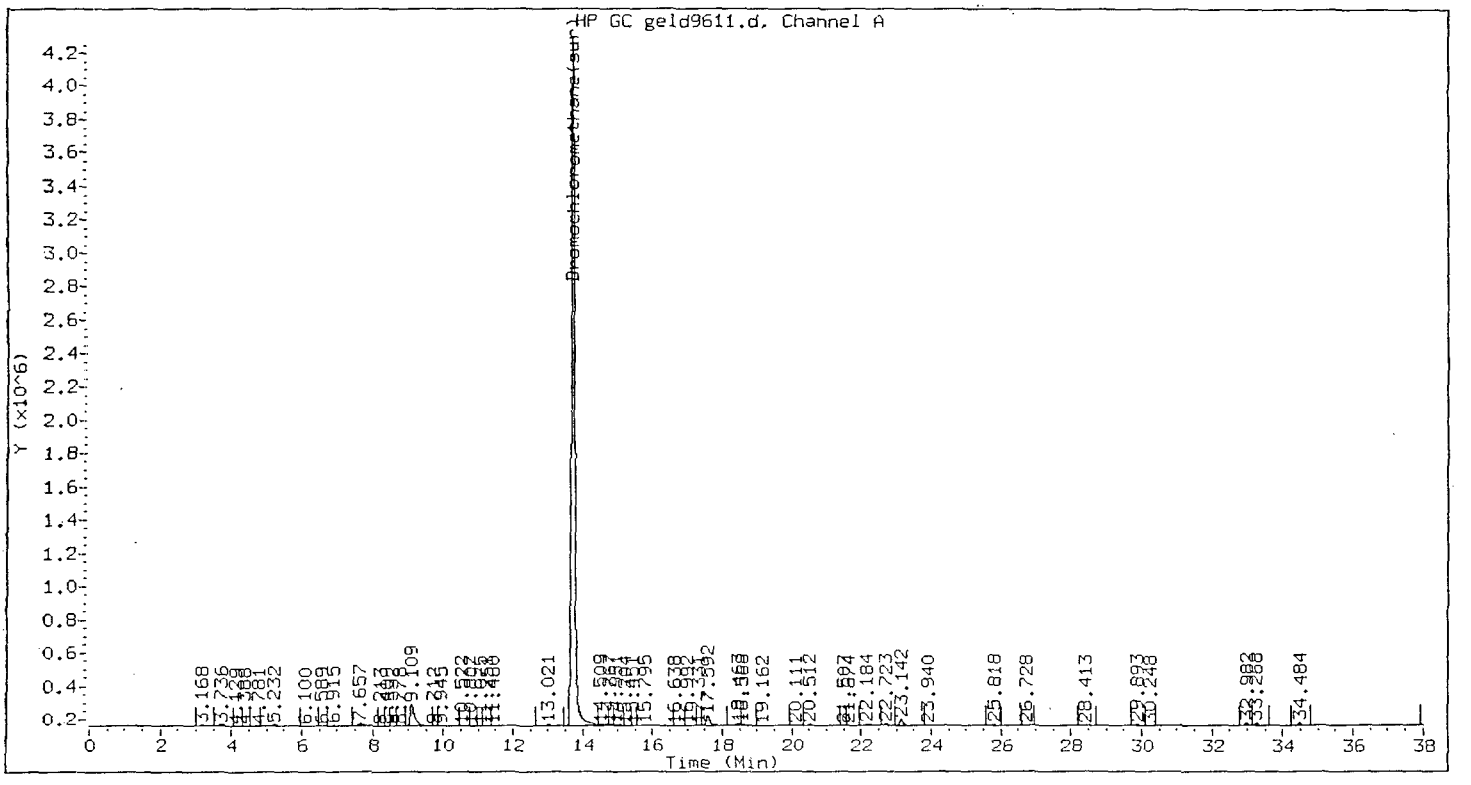
Date Sampled: 10/08/98
Date Received: 10/09/98
Date Analyzed: 10/21/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9611.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 5.8

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	123
Chloromethane	ND	123
Vinyl Chloride	ND	123
Bromomethane	ND	123
Chloroethane	ND	123
Trichlorofluoromethane	ND	123
1,1-Dichloroethene	ND	123
Methylene Chloride	ND	123
trans-1,2-Dichloroethene	ND	123
1,1-Dichloroethane	ND	123
cis-1,2-Dichloroethene	ND	123
Chloroform	ND	123
1,1,1-Trichloroethane	ND	123
Carbon Tetrachloride	ND	123
1,2-Dichloroethane	ND	123
Trichloroethene	ND	123
1,2-Dichloropropane	ND	123
Bromodichloromethane	ND	123
2-Chloroethyl Vinyl Ether	ND	123
cis-1,3-Dichloropropene	ND	123
trans-1,3-Dichloropropene	ND	123
1,1,2-Trichloroethane	ND	123
Tetrachloroethene	ND	123
Dibromochloromethane	ND	123
Chlorobenzene	ND	123
Bromoform	ND	123
1,1,2,2-Tetrachloroethane	ND	123
1,3-Dichlorobenzene	ND	123
1,4-Dichlorobenzene	ND	123
1,2-Dichlorobenzene	ND	123

305505



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/21oct98.b/8021E.m
Sample Info : 89309;;50
Lab ID : 89309
Inj Date : 21-OCT-98 18:18:00
Operator : KB
Cpnd Sublist: 601
Inst ID : VOAGC1.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Bromochloromethane(sur)	13.716	13.735	0.019	135375872	29.126	3578.680

305506

Client ID: SSDP-1_2.5-3
Site: Klockner & Klockner

Lab Sample No: 89310
Lab Job No: I053

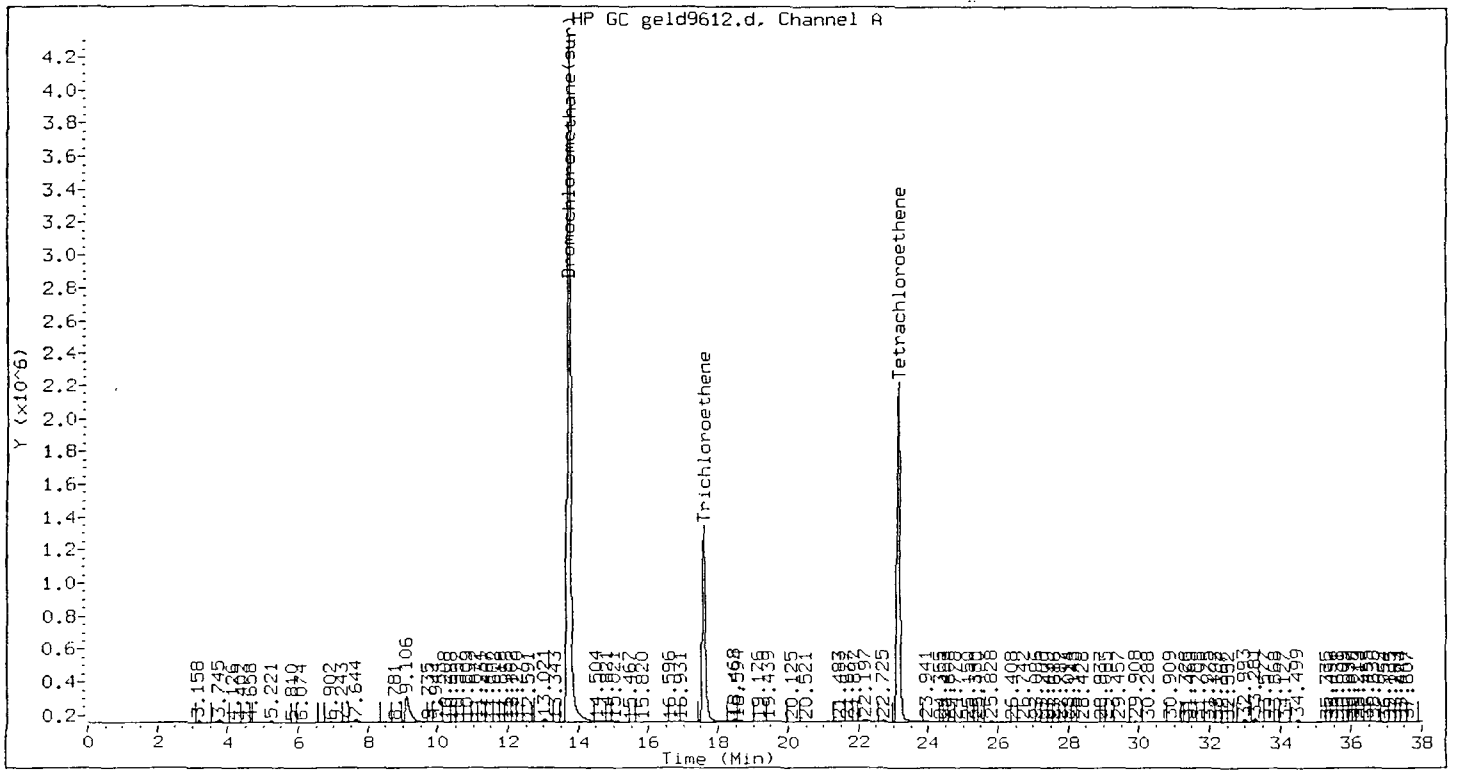
Date Sampled: 10/08/98
Date Received: 10/09/98
Date Analyzed: 10/21/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9612.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.2

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	139
Chloromethane	ND	139
Vinyl Chloride	ND	139
Bromomethane	ND	139
Chloroethane	ND	139
Trichlorofluoromethane	ND	139
1,1-Dichloroethene	ND	139
Methylene Chloride	ND	139
trans-1,2-Dichloroethene	ND	139
1,1-Dichloroethane	ND	139
cis-1,2-Dichloroethene	ND	139
Chloroform	ND	139
1,1,1-Trichloroethane	ND	139
Carbon Tetrachloride	ND	139
1,2-Dichloroethane	ND	139
Trichloroethene	656	139
1,2-Dichloropropane	ND	139
Bromodichloromethane	ND	139
2-Chloroethyl Vinyl Ether	ND	139
cis-1,3-Dichloropropene	ND	139
trans-1,3-Dichloropropene	ND	139
1,1,2-Trichloroethane	ND	139
Tetrachloroethene	1100	139
Dibromochloromethane	ND	139
Chlorobenzene	ND	139
Bromoform	ND	139
1,1,2,2-Tetrachloroethane	ND	139
1,3-Dichlorobenzene	ND	139
1,4-Dichlorobenzene	ND	139
1,2-Dichlorobenzene	ND	139

305507



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/21oct98.b/8021E.m
Sample Info : 89310;;50
Lab ID : 89310
Inj Date : 21-OCT-98 19:02:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Trichloroethene	17.589	17.595	0.006	37907269	4.712	655.902
Tetrachloroethene	23.142	23.141	0.001	62717597	7.880	1096.847
Bromochloromethane(sur)	13.718	13.735	0.017	136925174	29.460	4100.750

305508

LAB SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

GG294

Date Analyzed: 10/21/98

Instrument ID: VOAGC1

Time Analyzed: 1003

Lab File ID: GELD9601

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	SSAW-5_11-11	89309	GELD9611	1818
02	SSDP-1_2.5-3	89310	GELD9612	1902
03				
04				
05				
06				
07				
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30				

COMMENTS:

page 1 of 1

305509

Client ID: **GG294**
Site:

Lab Sample No: **GG294**
Lab Job No: I053

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/21/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9601.d

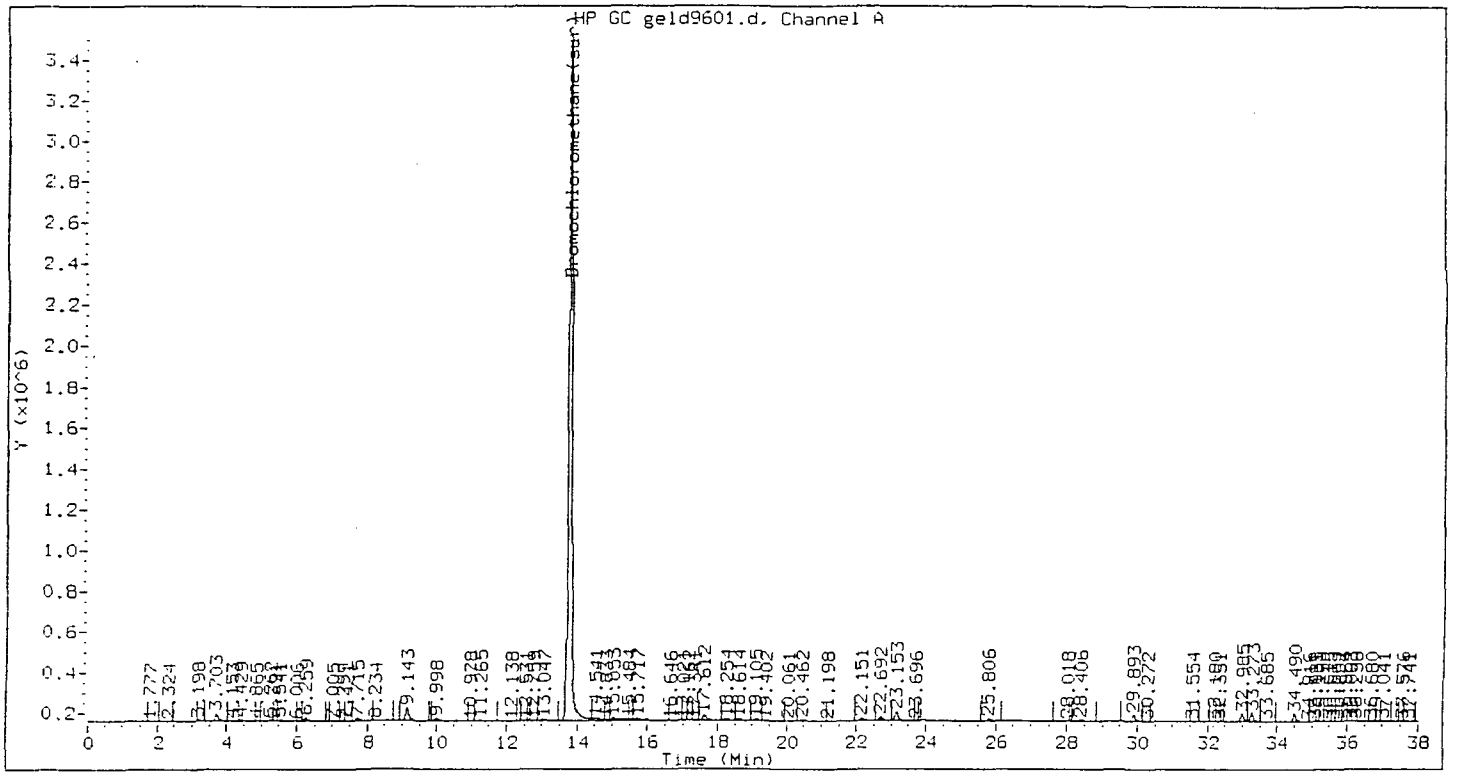
Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	125
Chloromethane	ND	125
Vinyl Chloride	ND	125
Bromomethane	ND	125
Chloroethane	ND	125
Trichlorofluoromethane	ND	125
1,1-Dichloroethene	ND	125
Methylene Chloride	ND	125
trans-1,2-Dichloroethene	ND	125
1,1-Dichloroethane	ND	125
cis-1,2-Dichloroethene	ND	125
Chloroform	ND	125
1,1,1-Trichloroethane	ND	125
Carbon Tetrachloride	ND	125
1,2-Dichloroethane	ND	125
Trichloroethene	ND	125
1,2-Dichloropropane	ND	125
Bromodichloromethane	ND	125
2-Chloroethyl Vinyl Ether	ND	125
cis-1,3-Dichloropropene	ND	125
trans-1,3-Dichloropropene	ND	125
1,1,2-Trichloroethane	ND	125
Tetrachloroethene	ND	125
Dibromochloromethane	ND	125
Chlorobenzene	ND	125
Bromoform	ND	125
1,1,2,2-Tetrachloroethane	ND	125
1,3-Dichlorobenzene	ND	125
1,4-Dichlorobenzene	ND	125
1,2-Dichlorobenzene	ND	125

305510

Data File: /chem/VOAGC1.i/8021ELCD/10-17-98/21oct98.b/geld9601.d Page 1
Report Date 10/22/98 10:37



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/21oct98.b/8021E.m
Sample Info : gg294
Lab ID : gg294
Inj Date : 21-OCT-98 10:03:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Bromochloromethane(sur)	13.740	13.735	0.005	107196293	23.064	2882.943

305511

LAB SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

GG295

Date Analyzed: 10/22/98

Instrument ID: VOAGC1

Time Analyzed: 1051

Lab File ID: GELD9626

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	SSAW-5_1.5-2	89308	GELD9628	1236
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
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30				

COMMENTS:

page 1 of 1

305512

Client ID: **GG295**
Site:

Lab Sample No: **GG295**
Lab Job No: I053

Date Sampled: _____
Date Received: _____
Date Analyzed: 10/22/98
GC Column: DB624
Instrument ID: VOAGC1.i
Lab File ID: geld9626.d

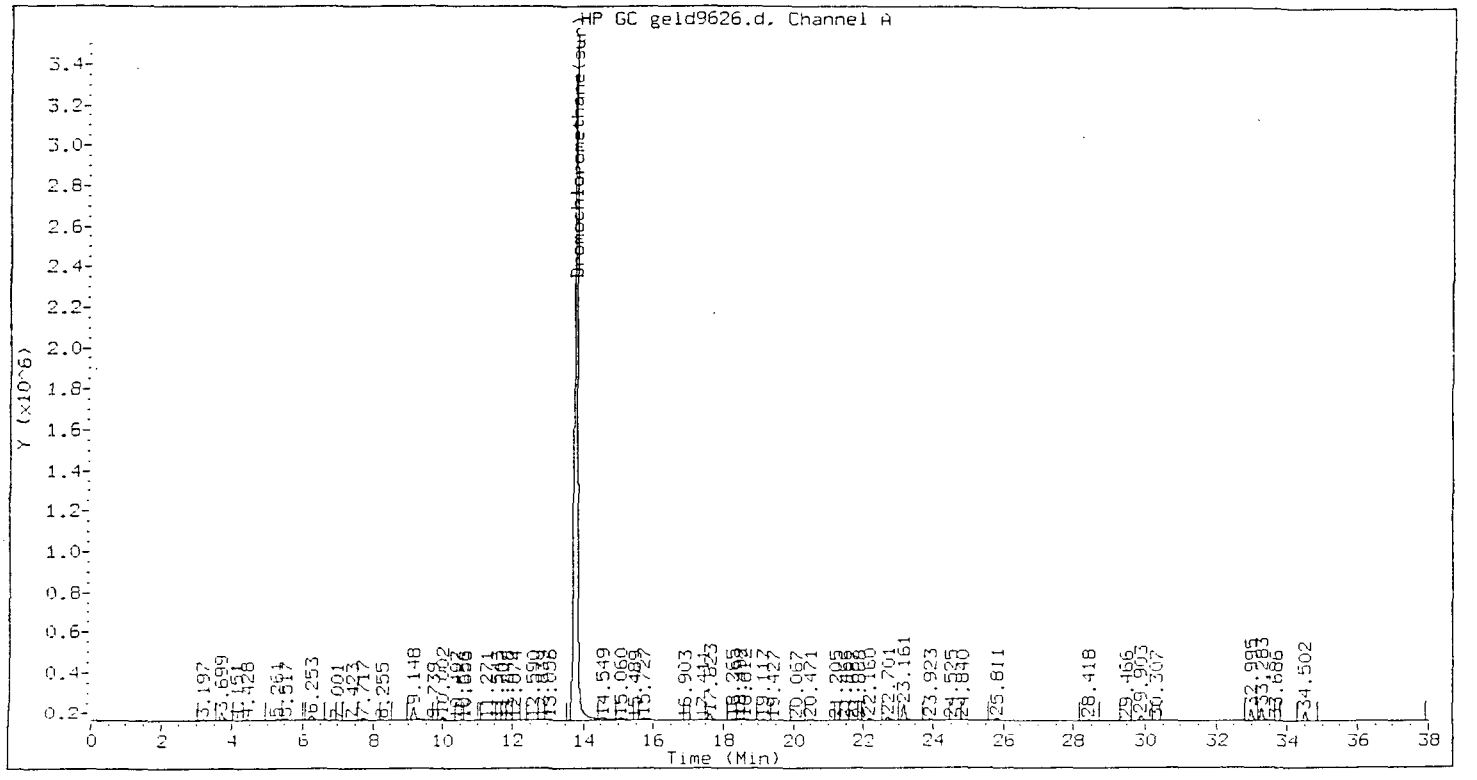
Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/ELCD
METHOD 8021B

Parameter	Analytical Results Units: ug/kg (Dry Weight)	Quantitation Limit Units: ug/kg
Dichlorodifluoromethane	ND	125
Chloromethane	ND	125
Vinyl Chloride	ND	125
Bromomethane	ND	125
Chloroethane	ND	125
Trichlorofluoromethane	ND	125
1,1-Dichloroethene	ND	125
Methylene Chloride	ND	125
trans-1,2-Dichloroethene	ND	125
1,1-Dichloroethane	ND	125
cis-1,2-Dichloroethene	ND	125
Chloroform	ND	125
1,1,1-Trichloroethane	ND	125
Carbon Tetrachloride	ND	125
1,2-Dichloroethane	ND	125
Trichloroethene	ND	125
1,2-Dichloropropane	ND	125
Bromodichloromethane	ND	125
2-Chloroethyl Vinyl Ether	ND	125
cis-1,3-Dichloropropene	ND	125
trans-1,3-Dichloropropene	ND	125
1,1,2-Trichloroethane	ND	125
Tetrachloroethene	ND	125
Dibromochloromethane	ND	125
Chlorobenzene	ND	125
Bromoform	ND	125
1,1,2,2-Tetrachloroethane	ND	125
1,3-Dichlorobenzene	ND	125
1,4-Dichlorobenzene	ND	125
1,2-Dichlorobenzene	ND	125

305513

Data File: /chem/VOAGC1.i/8021ELCD/10-21-98/22oct98.b/geld9626.d Page 1
Report Date 10/23/98 08:09



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/22oct98.b/8021E.m
Sample Info : GG295
Lab ID : GG295
Inj Date : 22-OCT-98 10:51:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Bromochloromethane(sur)	13.747	13.752	0.005	106864448	26.339	3292.373

305514

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Instrument ID: VOAGC1 Calibration Date(s): 10/17/98 10/18/98

Calibration Time(s): 1954 0322

LAB FILE ID: RRF1: GELD9543 RRF5: GELD9545 RRF10: GELD9549
RRF20: GELD9540 RRF40: GELD9548

COMPOUND	RRF1	RRF5	RRF10	RRF20	RRF40
Dichlorodifluoromethane	3785363	2326074	2215526	2419116	2005138
Chloromethane	529704	1121719	1083116	1126210	1306965
Vinyl Chloride	2179365	2702294	2602969	3065504	2852693
Bromomethane	935729	1315208	1376323	1370418	1267561
Chloroethane	1915077	2950557	3297237	2911292	2562951
Trichlorofluoromethane	6007936	6691789	6201573	6932560	5500765
1,1-Dichloroethene	5589911	6945691	6989978	7211116	5197467
Methylene Chloride	14135960	9902342	9802574	9050576	7044052
trans-1,2-Dichloroethene	6197624	7219984	7612156	7423938	5578560
1,1-Dichloroethane	6472943	7507232	7988794	7647297	5823311
cis-1,2-Dichloroethene	5980270	6601352	5980267	6505889	5507911
Chloroform	8886178	9987323	10334531	9629355	7335783
1,1,1-Trichloroethane	7702423	8657024	8826278	8636736	6445353
Carbon Tetrachloride	8156168	9737475	9818272	9781603	7245115
1,2-Dichloroethane	6605250	7185375	7752427	7201432	5702633
Trichloroethene	7414712	8769247	8940400	8599328	6500467
1,2-Dichloropropane	6047070	6795158	7323470	6848789	5340334
Bromodichloromethane	6355533	6776262	7260011	6826301	5405655
2-Chloroethyl Vinyl Ether	1940673	1898597	2124362	2284726	1929758
cis-1,3-Dichloropropene	6079641	6243875	6584483	6334215	4866035
trans-1,3-Dichloropropene	5301337	5846493	6189532	5931202	4612462
1,1,2-Trichloroethane	7219318	7768015	8347985	7632788	6001234
Tetrachloroethene	7596420	8795693	8495946	8499941	6408688
Dibromochloromethane	4483298	4998603	5473239	5336514	4408078
Chlorobenzene	2999218	3378674	3505994	3507714	2782950
Bromoform	2787239	3211401	3670923	3603024	3027879
1,1,2,2-Tetrachloroethane	5009749	5137267	5622233	5411952	4255708
1,3-Dichlorobenzene	4065371	4673992	4740932	4643046	3713313
1,4-Dichlorobenzene	4484768	4918219	5081380	4859547	3879275
1,2-Dichlorobenzene	4209351	4720208	4961038	4775168	3771087
Bromochloromethane(sur)	4399468	4786975	4833237	4978264	4241393

305515

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Instrument ID: VOAGC1

Calibration Date(s): 10/17/98 10/18/98

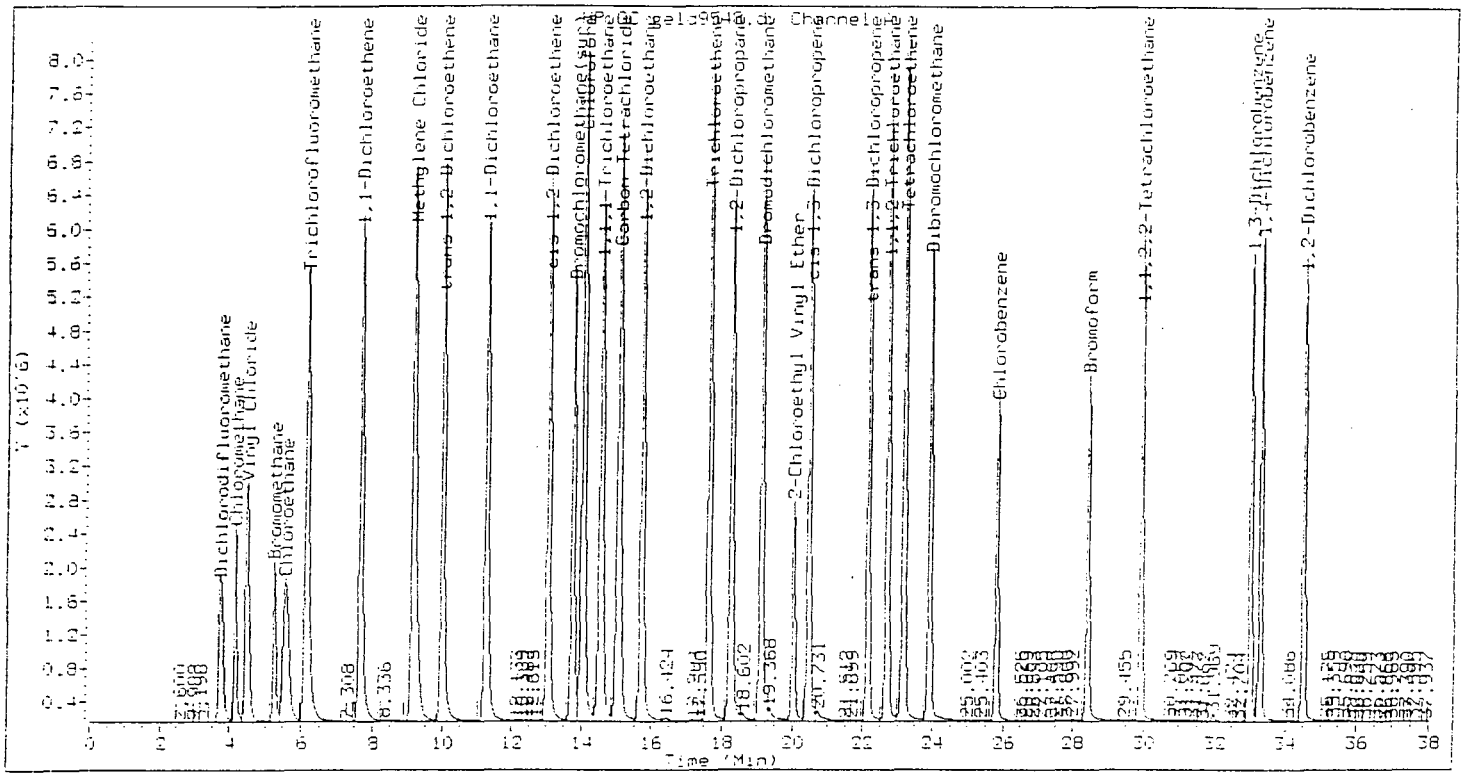
Calibration Time(s): 1954 0322

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dichlorodifluoromethane	AVRG	2550243	28*
Chloromethane	AVRG	1033543	28*
Vinyl Chloride	AVRG	2680565	12*
Bromomethane	AVRG	1253048	14*
Chloroethane	AVRG	2727423	19*
Trichlorofluoromethane	AVRG	6266925	9.0*
1,1-Dichloroethene	AVRG	6386833	14*
Methylene Chloride	AVRG	9987101	26*
trans-1,2-Dichloroethene	AVRG	6806452	13*
1,1-Dichloroethane	AVRG	7087915	13*
cis-1,2-Dichloroethene	AVRG	6115138	7.3*
Chloroform	AVRG	9234634	13*
1,1,1-Trichloroethane	AVRG	8053563	12*
Carbon Tetrachloride	AVRG	8947727	13*
1,2-Dichloroethane	AVRG	6889423	11*
Trichloroethene	AVRG	8044831	13*
1,2-Dichloropropane	AVRG	6470964	12*
Bromodichloromethane	AVRG	6524752	11*
2-Chloroethyl Vinyl Ether	AVRG	2035623	8.1*
cis-1,3-Dichloropropene	AVRG	6021650	11*
trans-1,3-Dichloropropene	AVRG	5576205	11*
1,1,2-Trichloroethane	AVRG	7393868	12*
Tetrachloroethene	AVRG	7959338	12*
Dibromochloromethane	AVRG	4939946	9.8*
Chlorobenzene	AVRG	3234910	10*
Bromoform	AVRG	3260093	12*
1,1,2,2-Tetrachloroethane	AVRG	5087382	10*
1,3-Dichlorobenzene	AVRG	4367331	10*
1,4-Dichlorobenzene	AVRG	4644638	10*
1,2-Dichlorobenzene	AVRG	4487370	11*
Bromochloromethane(sur)	AVRG	4647867	6.7*

* Compounds with required maximum %RSD values.

305516

Data File: /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/geld9548.d Page 1
Report Date 10/20/98 09:08



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/8021E.m
Sample Info : gstd040a
Lab ID : gstd040a
Inj Date : 18-OCT-98 01:52:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

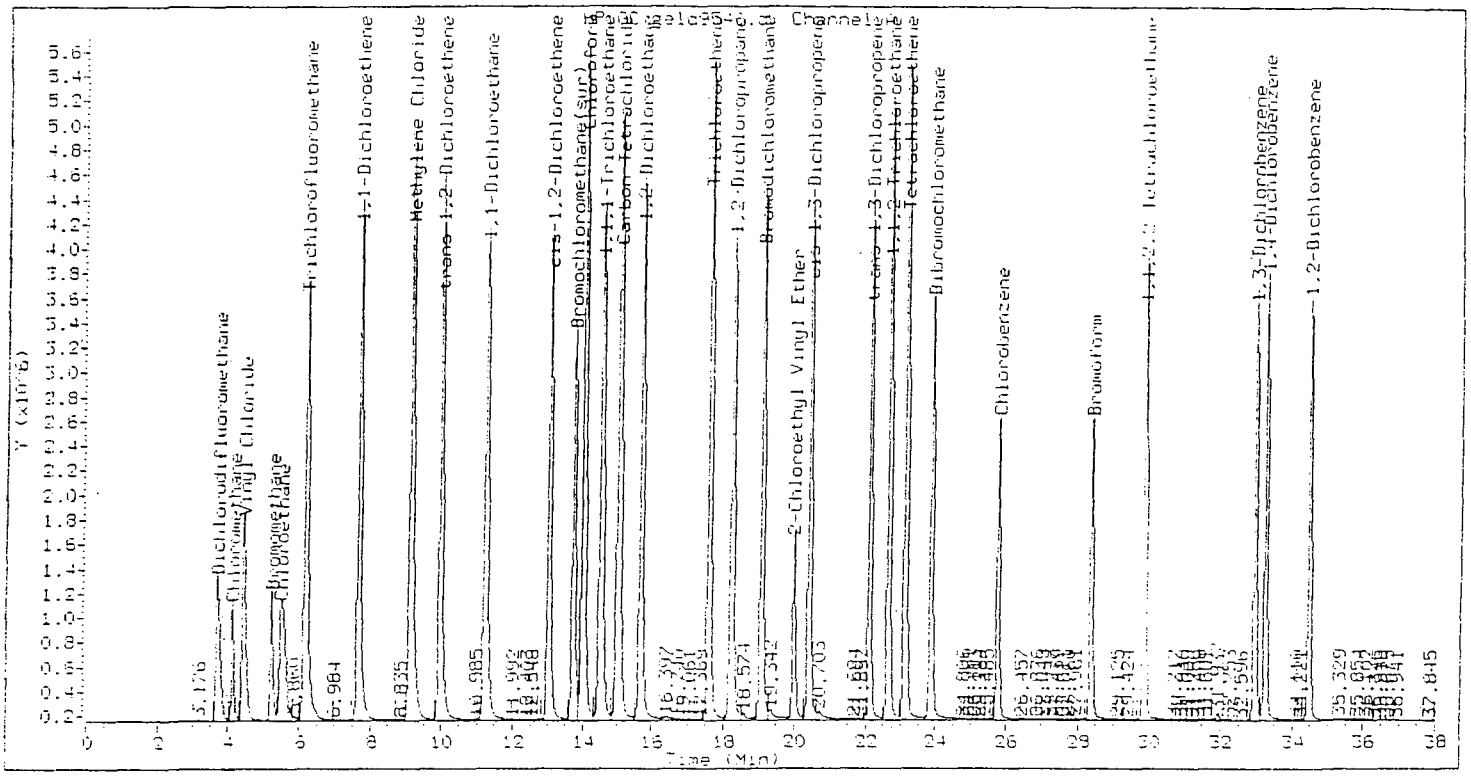
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.705	3.701	0.024	80205506	31.391	31.391
Chloromethane	4.144	4.141	0.003	52279608	50.377	50.377
Vinyl Chloride	4.463	4.431	0.022	114107713	42.289	42.289
Bromomethane	5.237	5.240	0.002	50702459	40.193	40.193
Chloroethane	5.560	5.533	0.027	102518025	37.226	37.226
Trichlorofluoromethane	6.180	6.210	0.030	220030529	34.873	34.873
1,1-Dichloroethene	7.655	7.685	0.030	207898681	32.442	32.442
Methylene Chloride	9.132	9.129	0.003	281762091	28.099	28.099
trans-1,2-Dichloroethene	9.967	9.974	0.007	223142383	32.437	32.437

305517

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	11.246	11.245	0.000	232932434	32.621	32.621
cis-1,2-Dichloroethene	13.030	13.027	0.003	220316453	35.788	35.788
Chloroform	14.022	14.014	0.008	293431204	31.695	31.695
1,1,1-Trichloroethane	14.534	14.531	0.003	257814125	31.908	31.908
Carbon Tetrachloride	15.043	15.041	0.002	239804614	32.265	32.265
1,2-Dichloroethane	15.696	15.689	0.007	228105222	32.956	32.956
Trichloroethene	17.601	17.595	0.006	260018664	32.166	32.166
1,2-Dichloropropane	18.241	18.232	0.009	213613381	32.832	32.832
Bromodichloromethane	19.095	19.084	0.011	216226194	33.002	33.002
2-Chloroethyl Vinyl Ether	20.016	20.009	0.008	77190319	37.332	37.332
cis-1,3-Dichloropropene	20.442	20.433	0.010	194641403	32.176	32.176
trans-1,3-Dichloropropene	22.126	22.117	0.008	184498484	32.978	32.978
1,1,2-Trichloroethane	22.681	22.670	0.011	240049367	32.384	32.384
Tetrachloroethene	23.150	23.141	0.009	256347533	32.043	32.043
Dibromochloromethane	23.902	23.889	0.013	176323142	35.330	35.330
Chlorobenzene	25.795	25.785	0.010	111318010	34.121	34.121
Bromoform	28.394	28.382	0.012	121115169	36.783	36.783
1,1,2,2-Tetrachloroethane	29.894	29.879	0.015	170228335	33.227	33.227
1,3-Dichlorobenzene	32.985	32.972	0.013	148532513	33.971	33.971
1,4-Dichlorobenzene	33.274	33.261	0.013	155171014	33.219	33.219
1,2-Dichlorobenzene	34.492	34.480	0.012	150843464	33.497	33.497
Bromochloromethane(sur)	13.740	13.735	0.005	169655727	36.377	36.377

305518

Data File: /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/geld9540.d Page 1
Report Date 10/20/98 09:08



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/8021E.m
Sample Info : gstd020a
Lab ID : gstd020a
Inj Date : 17-OCT-98 19:54:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

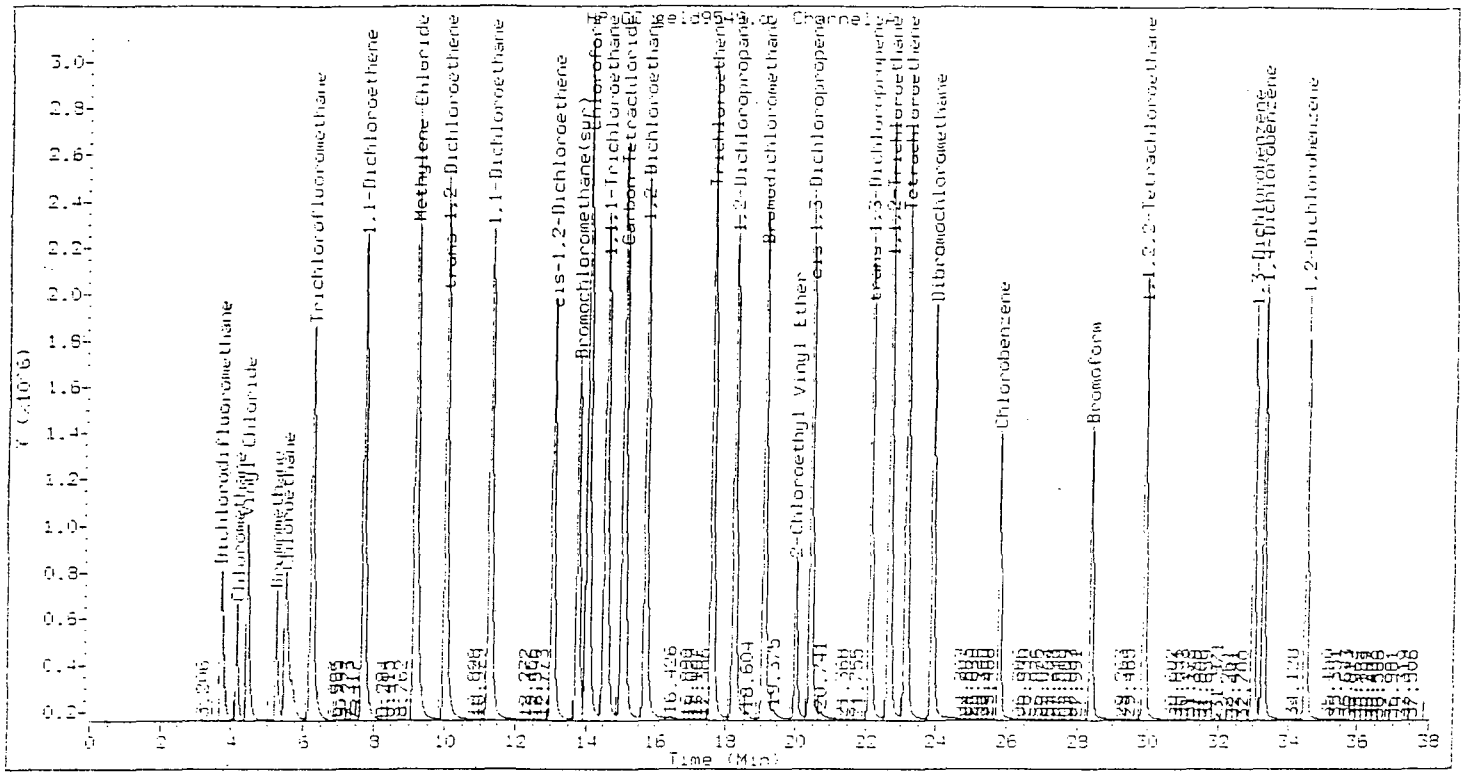
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.678	3.701	0.022	48382318	18.972	18.972
Chloromethane	4.126	4.141	0.015	22524192	21.793	21.793
Vinyl Chloride	4.418	4.431	0.013	61310079	22.872	22.872
Bromomethane	5.212	5.240	0.028	27408352	21.873	21.873
Chloroethane	5.503	5.533	0.029	58225840	21.348	21.348
Trichlorofluoromethane	6.160	6.210	0.049	138651210	22.124	22.124
1,1-Dichloroethene	7.655	7.685	0.030	144222330	22.581	22.581
Methylene Chloride	9.106	9.129	0.022	181011519	18.125	18.125
trans-1,2-Dichloroethene	9.948	9.974	0.026	148478763	21.814	21.814

305519

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.233	11.245	0.022	152945932	21.578	21.578
cis-1,2-Dichloroethene	13.004	13.027	0.023	130117773	21.278	21.278
Chloroform	13.994	14.014	0.020	192587098	20.855	20.855
1,1,1-Trichloroethane	14.510	14.531	0.021	172734715	21.448	21.448
Carbon Tetrachloride	15.020	15.041	0.021	195632056	21.864	21.864
1,2-Dichloroethane	15.668	15.689	0.021	144028632	20.906	20.906
Trichloroethene	17.574	17.595	0.021	171986568	21.379	21.379
1,2-Dichloropropane	18.213	18.232	0.019	136975773	21.168	21.168
Bromodichloromethane	19.065	19.084	0.018	136526017	20.924	20.924
2-Chloroethyl Vinyl Ether	19.987	20.009	0.022	45694523	22.447	22.447
cis-1,3-Dichloropropene	20.412	20.433	0.020	126684300	21.038	21.038
trans-1,3-Dichloropropene	22.098	22.117	0.020	118624038	21.273	21.273
1,1,2-Trichloroethane	22.651	22.670	0.019	152655758	20.646	20.646
Tetrachloroethene	23.122	23.141	0.019	169998820	21.358	21.358
Dibromochloromethane	23.871	23.889	0.019	106730278	21.606	21.606
Chlorobenzene	25.767	25.785	0.018	70154271	21.687	21.687
Bromoform	28.363	28.382	0.018	72060475	22.104	22.104
1,1,2,2-Tetrachloroethane	29.860	29.879	0.019	108239045	21.276	21.276
1,3-Dichlorobenzene	32.953	32.972	0.020	92860922	21.263	21.263
1,4-Dichlorobenzene	33.241	33.261	0.019	97190934	20.925	20.925
1,2-Dichlorobenzene	34.461	34.480	0.019	95503356	21.283	21.283
Bromochloromethane(sur)	13.714	13.735	0.021	99565270	21.422	21.422

305520

Data File: /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/geld9549.d Page 1
Report Date 10/20/98 09:08



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/8021E.m
Sample Info : gstd010a
Lab ID : gstd010a
Inj Date : 18-OCT-98 02:37:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

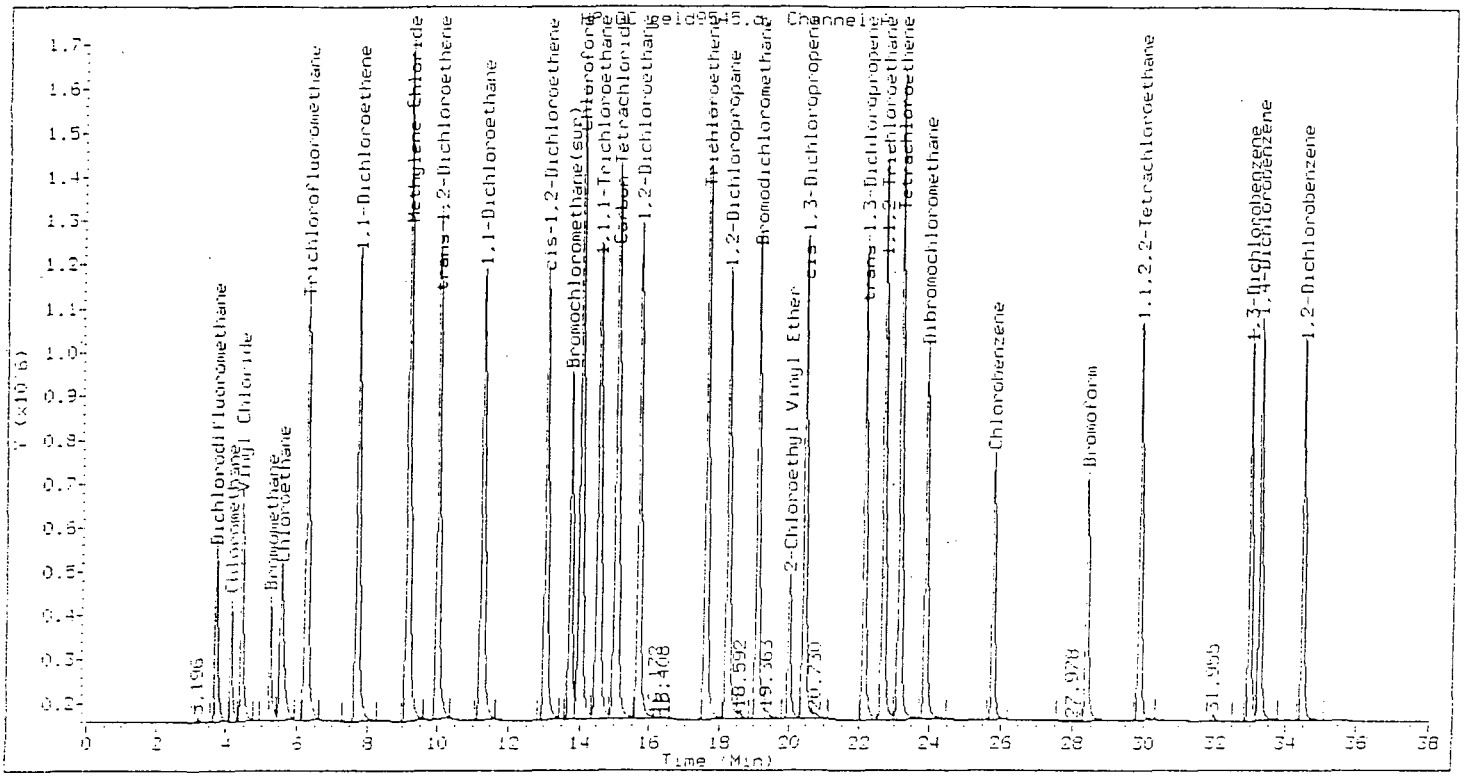
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Dichlorodifluoromethane	3.709	3.701	0.008	22155161	8.223	8.223
Chloromethane	4.152	4.141	0.011	10831162	11.161	11.161
Vinyl Chloride	4.442	4.431	0.011	36029690	9.787	9.787
Bromomethane	5.244	5.240	0.004	13763230	10.923	10.923
Chloroethane	5.508	5.533	0.025	32972374	11.769	11.769
Trichlorofluoromethane	6.241	6.210	0.031	62015726	9.524	9.524
1,1-Dichloroethene	7.705	7.685	0.020	69899776	10.416	10.416
Methylene Chloride	9.143	9.129	0.015	98025745	9.099	9.099
trans-1,2-Dichloroethene	9.991	9.974	0.017	76121559	10.566	10.566

305521

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.262	11.245	0.016	79887941	10.695	10.695
cis-1,2-Dichloroethene	13.041	13.027	0.014	59802666	9.465	9.465
Chloroform	14.028	14.014	0.014	103345312	10.612	10.612
1,1,1-Trichloroethane	14.547	14.531	0.015	88262784	10.398	10.398
Carbon Tetrachloride	15.056	15.041	0.016	98182723	10.427	10.427
1,2-Dichloroethane	15.702	15.689	0.013	77524266	10.728	10.728
Trichloroethene	17.608	17.595	0.014	89403997	10.544	10.544
1,2-Dichloropropane	18.246	18.232	0.013	72234695	10.773	10.773
Bromodichloromethane	19.097	19.084	0.013	72600108	10.617	10.617
2-Chloroethyl Vinyl Ether	20.020	20.009	0.011	21243620	10.106	10.106
cis-1,3-Dichloropropene	20.445	20.432	0.012	65844832	10.377	10.377
trans-1,3-Dichloropropene	22.128	22.117	0.011	61895320	10.598	10.598
1,1,2-Trichloroethane	22.681	22.670	0.012	83479846	10.750	10.750
Tetrachloroethene	23.154	23.141	0.013	34959461	10.117	10.117
Dibromochloromethane	23.902	23.889	0.012	54732392	10.656	10.656
Chlorobenzene	25.737	25.735	0.012	35059916	10.366	10.366
Bromoform	28.394	28.382	0.012	36709230	10.929	10.929
1,1,2,2-Tetrachloroethane	29.893	29.879	0.014	56222334	10.532	10.532
1,3-Dichlorobenzene	32.986	32.972	0.013	47409322	10.449	10.449
1,4-Dichlorobenzene	33.274	33.261	0.013	50813805	10.436	10.436
1,2-Dichlorobenzene	34.494	34.480	0.014	49610377	10.586	10.586
Bromochloromethane(sur)	13.750	13.735	0.015	48332369	10.134	10.134

305522

Data File: /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/geld9545.d Page 1
Report Date 10/20/98 09:08



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/8021E.m
Sample Info : gstd005a
Lab ID : gstd005a
Inj Date : 17-OCT-98 23:38:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

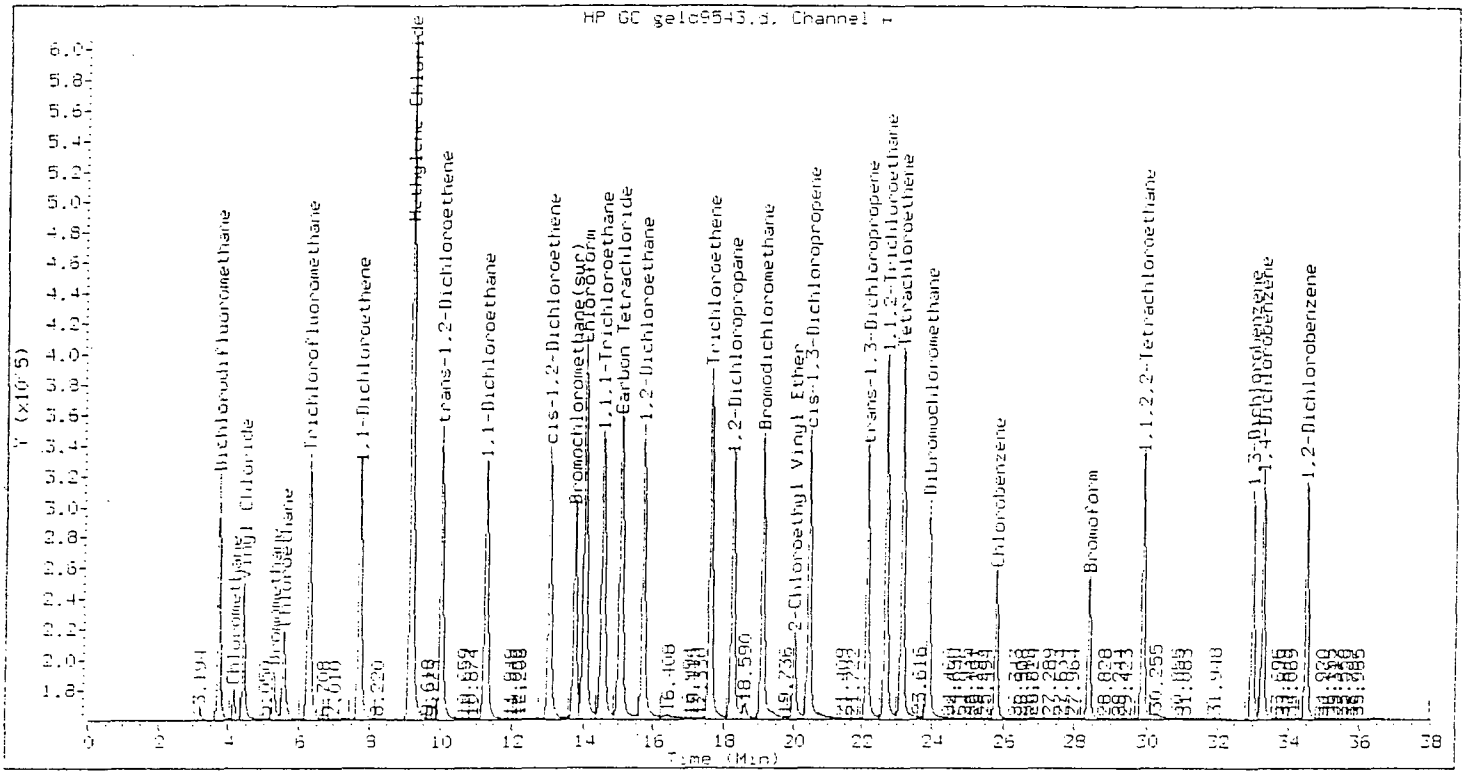
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Dichlorodifluoromethane	3.700	3.701	0.001	11630368	4.560	4.560
Chloromethane	4.141	4.141	0.000	5608594	5.427	5.427
Vinyl Chloride	4.427	4.431	0.004	13511470	5.041	5.041
Bromomethane	5.238	5.240	0.002	6576042	5.248	5.248
Chloroethane	5.543	5.533	0.011	14753787	5.409	5.409
Trichlorofluoromethane	6.256	6.210	0.047	33453947	5.339	5.339
1,1-Dichloroethene	7.706	7.685	0.021	34728455	5.438	5.438
Methylene Chloride	9.135	9.129	0.006	49511710	4.958	4.958
trans-1,2-Dichloroethene	9.984	9.974	0.010	36099920	5.304	5.304

305523

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	11.251	11.245	0.006	37536159	5.296	5.296
cis-1,2-Dichloroethene	13.031	13.027	0.004	33006760	5.398	5.398
Chloroform	14.015	14.014	0.001	49936613	5.408	5.408
1,1,1-Trichloroethane	14.535	14.531	0.004	43285122	5.375	5.375
Carbon Tetrachloride	15.044	15.041	0.003	48687377	5.441	5.441
1,2-Dichloroethane	15.690	15.689	0.001	35926874	5.215	5.215
Trichloroethene	17.597	17.595	0.002	43846237	5.450	5.450
1,2-Dichloropropane	18.233	18.232	0.001	33975791	5.250	5.250
Bromodichloromethane	19.083	19.084	0.001	33881311	5.193	5.193
2-Chloroethyl Vinyl Ether	20.008	20.009	0.000	9492986	4.663	4.663
cis-1,3-Dichloropropene	20.432	20.433	0.000	31219373	5.185	5.185
trans-1,3-Dichloropropene	22.118	22.117	0.001	29232463	5.242	5.242
1,1,2-Trichloroethane	22.670	22.670	0.001	38840077	5.253	5.253
Tetrachloroethene	23.142	23.141	0.001	43978464	5.525	5.525
Dibromochloromethane	23.388	23.389	0.001	24993016	5.059	5.059
Chlorobenzene	25.785	25.785	0.000	16893369	5.222	5.222
Bromoform	28.381	28.382	0.000	16057006	4.925	4.925
1,1,2,2-Tetrachloroethane	29.877	29.879	0.002	25686336	5.049	5.049
1,3-Dichlorobenzene	32.972	32.972	0.000	23369959	5.351	5.351
1,4-Dichlorobenzene	33.260	33.261	0.000	24591094	5.295	5.295
1,2-Dichlorobenzene	34.479	34.480	0.001	23601041	5.259	5.259
Bromochloromethane(sur)	13.738	13.735	0.002	23934872	5.150	5.150

305524

Data File: /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/geld9543.d Page 1
Report Date 10/20/98 09:09



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/17oct98a.b/8021E.m
Sample Info : gstd001a
Lab ID : gstd001a
Inj Date : 17-OCT-98 22:09:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.691	3.701	0.009	3735363	1.484	1.484
Chloromethane	4.142	4.141	0.001	529704	0.513	0.513
Vinyl Chloride	4.415	4.431	0.016	2179365	0.813	0.813
Bromomethane	5.268	5.240	0.028	935709	0.747	0.747
Chloroethane	5.550	5.533	0.017	1915077	0.702	0.702
Trichlorofluoromethane	6.261	6.210	0.051	6007936	0.959	0.959
1,1-Dichloroethene	7.702	7.685	0.018	5529911	0.875	0.875
Methylene Chloride	9.128	9.129	0.001	14135960	1.415	1.415
trans-1,2-Dichloroethene	9.981	9.974	0.006	6197624	0.911	0.911

305525

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	11.246	11.245	0.001	6472943	0.913	0.913
cis-1,2-Dichloroethene	13.028	13.027	0.001	5980270	0.978	0.978
Chloroform	14.010	14.014	0.004	8886178	0.962	0.962
1,1,1-Trichloroethane	14.530	14.531	0.001	7702423	0.956	0.956
Carbon Tetrachloride	15.040	15.041	0.001	8156168	0.912	0.912
1,2-Dichloroethane	15.689	15.689	0.000	6605250	0.959	0.959
Trichloroethene	17.594	17.595	0.001	7414712	0.922	0.922
1,2-Dichloropropane	18.228	18.232	0.004	6047070	0.934	0.934
Bromodichloromethane	19.079	19.084	0.005	6355533	0.974	0.974
2-Chloroethyl Vinyl Ether	20.013	20.009	0.004	1940673	0.953	0.953
cis-1,3-Dichloropropene	20.431	20.433	0.002	6079641	1.010	1.010
trans-1,3-Dichloropropene	22.118	22.117	0.000	5301337	0.951	0.951
1,1,2-Trichloroethane	22.665	22.670	0.005	7219318	0.976	0.976
Tetrachloroethene	23.136	23.141	0.005	7596420	0.954	0.954
Dibromochloromethane	23.383	23.389	0.006	4483298	0.908	0.908
Chlorobenzene	25.781	25.785	0.004	3999218	0.927	0.927
Bromoform	28.376	28.382	0.006	2787239	0.855	0.855
1,1,2,2-Tetrachloroethane	29.871	29.879	0.008	5009749	0.985	0.985
1,3-Dichlorobenzene	32.966	32.972	0.006	4065371	0.931	0.931
1,4-Dichlorobenzene	33.254	33.261	0.007	4484768	0.966	0.966
1,2-Dichlorobenzene	34.474	34.480	0.006	4209351	0.938	0.938
Bromochloromethane(sur)	13.734	13.735	0.001	4399468	0.947	0.947

305526

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK

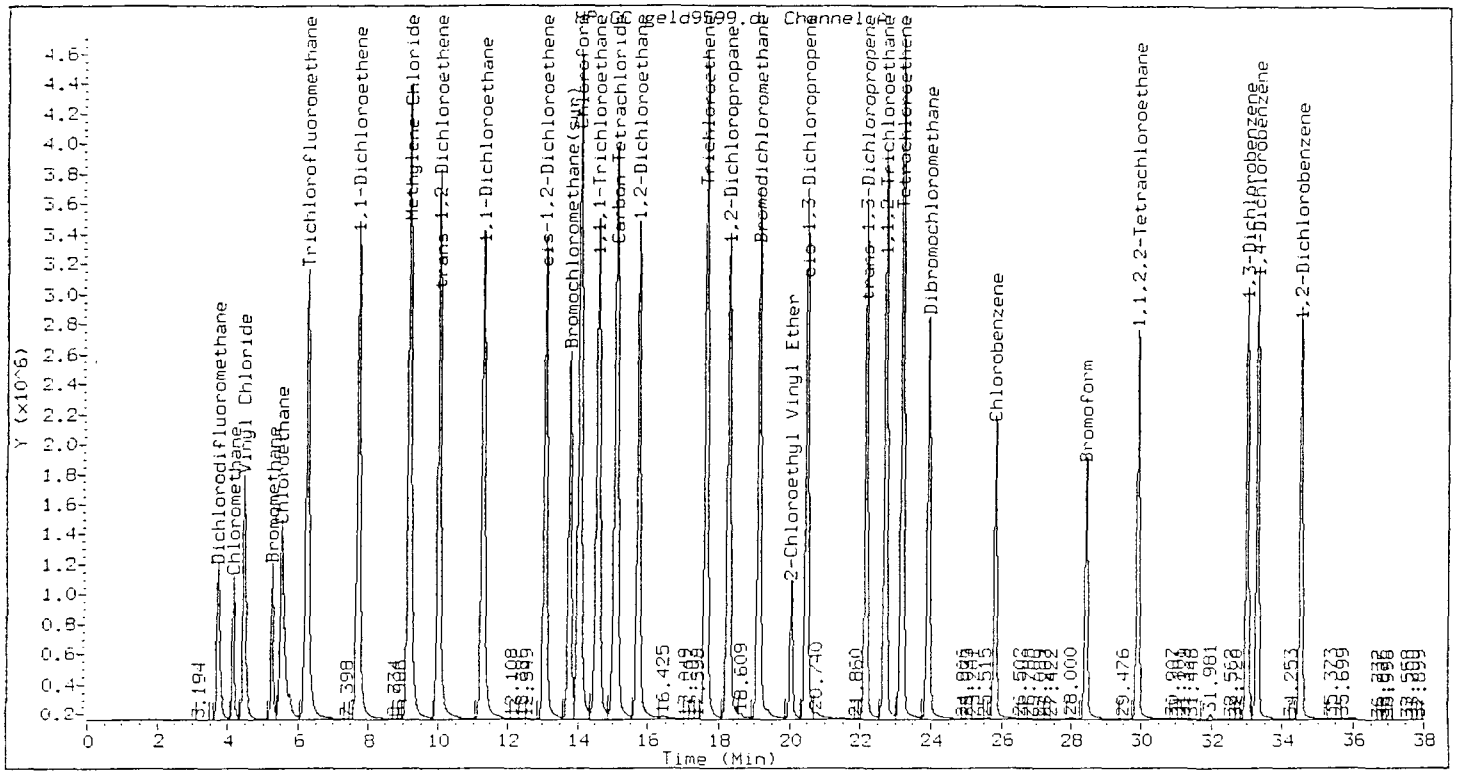
Instrument ID: VOAGC1 Calibration Date: 10/21/98 Time: 0813

Lab File ID: GELD9599 Init. Calib. Date(s): 10/17/98 10/18/98

Heated Purge: (Y/N) N Init. Calib. Times: 1954 0322

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	2550243.2	1727276.8		32.3	15.0
Chloromethane	1033542.8	1022920.7		1.0	15.0
Vinyl Chloride	2680565.0	2458296.7		8.3	15.0
Bromomethane	1253047.9	1179424.5		5.9	15.0
Chloroethane	2727422.9	3124840.5		-14.4	15.0
Trichlorofluoromethane	6266924.6	5707989.7		8.9	15.0
1,1-Dichloroethene	6386832.6	5712547.5		10.6	15.0
Methylene Chloride	9987100.9	7490763.6		25.0	15.0
trans-1,2-Dichloroethene	6806452.3	6172732.3		9.3	15.0
1,1-Dichloroethane	7087915.3	6329357.7		10.7	15.0
cis-1,2-Dichloroethene	6115137.8	5392748.0		11.8	15.0
Chloroform	9234633.8	7975614.8		13.6	15.0
1,1,1-Trichloroethane	8053562.9	6939536.7		13.8	15.0
Carbon Tetrachloride	8947726.8	7750765.9		13.4	15.0
1,2-Dichloroethane	6889423.2	5547868.2		19.5	15.0
Trichloroethene	8044830.8	7082675.8		12.0	15.0
1,2-Dichloropropane	6470964.2	5588521.8		13.6	15.0
Bromodichloromethane	6524752.3	5916684.3		9.3	15.0
2-Chloroethyl Vinyl Ether	2035623.3	1389479.5		31.7	15.0
cis-1,3-Dichloropropene	6021649.8	5242631.2		12.9	15.0
trans-1,3-Dichloropropene	5576205.1	4830171.1		13.4	15.0
1,1,2-Trichloroethane	7393868.0	5785160.7		21.8	15.0
Tetrachloroethene	7959337.7	6992125.3		12.2	15.0
Dibromochloromethane	4939946.6	4176979.6		15.4	15.0
Chlorobenzene	3234909.8	2884447.4		10.8	15.0
Bromoform	3260093.2	2623097.9		19.5	15.0
1,1,2,2-Tetrachloroethane	5087382.0	3764420.7		26.0	15.0
1,3-Dichlorobenzene	4367330.8	3807581.6		12.8	15.0
1,4-Dichlorobenzene	4644637.9	4061364.2		12.6	15.0
1,2-Dichlorobenzene	4487370.3	3769280.9		16.0	15.0
Bromochloromethane(sur)	4647867.2	3793346.8		18.4	15.0

305527



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/21oct98.b/8021E.m
Sample Info : gstd020
Lab ID : gstd020
Inj Date : 21-OCT-98 08:13:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.692	3.701	0.009	34545536	13.546	13.546
Chloromethane	4.136	4.141	0.005	20458413	19.794	19.794
Vinyl Chloride	4.428	4.431	0.003	49165934	18.342	18.342
Bromomethane	5.227	5.240	0.013	23588489	18.825	18.825
Chloroethane	5.491	5.533	0.042	62496809	22.914	22.914
Trichlorofluoromethane	6.216	6.210	0.006	114159793	18.216	18.216
1,1-Dichloroethene	7.691	7.685	0.006	114250949	17.889	17.889
Methylene Chloride	9.132	9.129	0.004	149815272	15.001	15.001
trans-1,2-Dichloroethene	9.979	9.974	0.005	123454646	18.138	18.138

305528

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.252	11.245	0.006	126587154	17.860	17.860
cis-1,2-Dichloroethene	13.034	13.027	0.008	107854960	17.637	17.637
Chloroform	14.023	14.014	0.008	159512295	17.273	17.273
1,1,1-Trichloroethane	14.541	14.531	0.010	138790734	17.233	17.233
Carbon Tetrachloride	15.052	15.041	0.011	155015317	17.325	17.325
1,2-Dichloroethane	15.697	15.689	0.008	110957364	16.105	16.105
Trichloroethene	17.608	17.595	0.013	141653515	17.608	17.608
1,2-Dichloropropane	18.247	18.232	0.014	111770436	17.273	17.273
Bromodichloromethane	19.102	19.084	0.018	118333686	18.136	18.136
2-Chloroethyl Vinyl Ether	20.025	20.009	0.016	27789589	13.652	13.652
cis-1,3-Dichloropropene	20.450	20.433	0.017	104852623	17.413	17.413
trans-1,3-Dichloropropene	22.135	22.117	0.017	96603422	17.324	17.324
1,1,2-Trichloroethane	22.689	22.670	0.019	115703213	15.649	15.649
Tetrachloroethene	23.161	23.141	0.020	139842505	17.570	17.570
Dibromochloromethane	23.909	23.889	0.020	83539592	16.911	16.911
Chlorobenzene	25.805	25.785	0.020	57688947	17.833	17.833
Bromoform	28.405	28.382	0.023	52461957	16.092	16.092
1,1,2,2-Tetrachloroethane	29.902	29.879	0.023	75288413	14.799	14.799
1,3-Dichlorobenzene	32.996	32.972	0.024	76151631	17.437	17.437
1,4-Dichlorobenzene	33.285	33.261	0.024	81227284	17.488	17.488
1,2-Dichlorobenzene	34.505	34.480	0.025	75385617	16.800	16.800
Bromochloromethane(sur)	13.743	13.735	0.008	75866936	16.323	16.323

305529

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Instrument ID: VOAGC1

Calibration Date(s): 10/21/98 10/22/98

Calibration Time(s): 2330 0810

LAB FILE ID: RRF1: GELD9618 RRF5: GELD9619 RRF10: GELD9620
RRF20: GELD9623 RRF40: GELD9622

COMPOUND	RRF1	RRF5	RRF10	RRF20	RRF40
Dichlorodifluoromethane	1698929	2013875	1920627	1524235	1732717
Chloromethane	600827	646903	761470	983446	1033018
Vinyl Chloride	2002942	2454624	2603604	2281749	2768872
Bromomethane	1385537	1454552	1564948	1034198	1249516
Chloroethane	3090325	3949558	4237114	2966088	3350713
Trichlorofluoromethane	4666803	6140168	6394439	5516525	5581294
1,1-Dichloroethene	5457054	5773197	6667892	4668874	5471945
Methylene Chloride	9041266	8125234	8881863	6036746	6848261
trans-1,2-Dichloroethene	5790659	6157378	7008862	5218723	5690299
1,1-Dichloroethane	5992021	6394063	7190065	5429320	5865938
cis-1,2-Dichloroethene	4903610	5504897	5793980	5152062	5099475
Chloroform	7767604	8421210	9168702	7063520	7296020
1,1,1-Trichloroethane	6703113	7135818	7698137	6181372	6594538
Carbon Tetrachloride	7372455	7998200	8934706	6997003	7363667
1,2-Dichloroethane	5848256	6037666	6541049	5065022	5373391
Trichloroethene	6789783	7273197	8577482	6276286	6650934
1,2-Dichloropropane	5321717	5809583	6412610	4931982	5251497
Bromodichloromethane	5466895	5657817	6246674	5007731	5212422
2-Chloroethyl Vinyl Ether	1583140	1984873	2019077	1578097	1814251
cis-1,3-Dichloropropene	4829375	5303299	5688915	4731274	4768172
trans-1,3-Dichloropropene	4175113	4962565	5278946	4475313	4302507
1,1,2-Trichloroethane	5576888	6668783	7000924	5549519	5502098
Tetrachloroethene	6188830	7157426	8003575	6317245	6412881
Dibromochloromethane	3667744	4287890	4764722	3802009	4015779
Chlorobenzene	2410697	2764351	3226895	2533123	2705136
Bromoform	2174852	2801858	3064938	2614066	2688100
1,1,2,2-Tetrachloroethane	3509529	4334471	4171051	3920832	3733405
1,3-Dichlorobenzene	3027139	3568268	4264304	3328608	3442339
1,4-Dichlorobenzene	3488647	3848458	4420018	3546205	3570843
1,2-Dichlorobenzene	3307101	3652646	4282624	3438187	3485441
Bromochloromethane(sur)	3169136	4521588	4397950	4081000	4116692

305530

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Instrument ID: VOAGC1

Calibration Date(s): 10/21/98 10/22/98

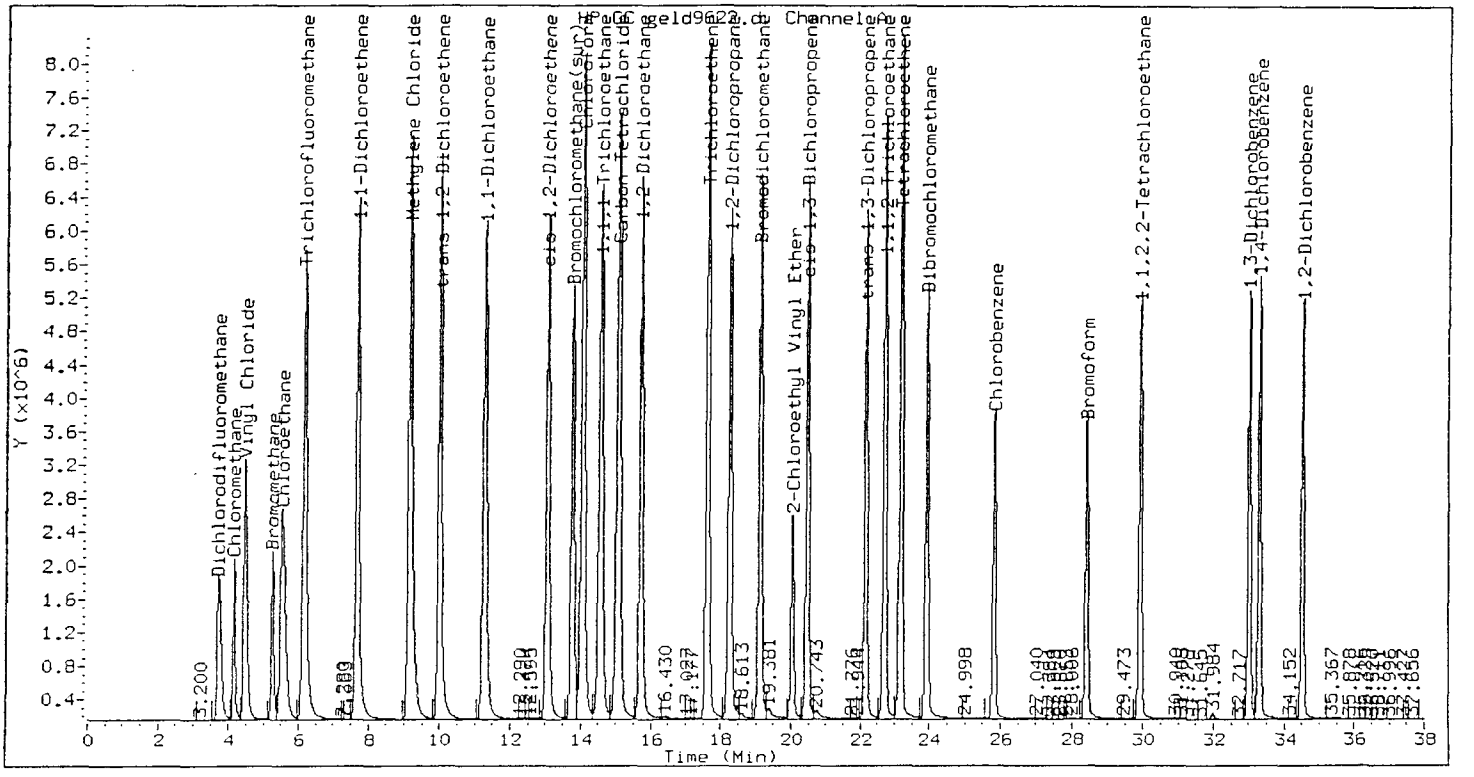
Calibration Time(s): 2330 0810

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Dichlorodifluoromethane	AVRG	1778077	11*
Chloromethane	AVRG	805133	24*
Vinyl Chloride	AVRG	2422358	12*
Bromomethane	AVRG	1337750	15*
Chloroethane	AVRG	3518760	16*
Trichlorofluoromethane	AVRG	5659846	12*
1,1-Dichloroethene	AVRG	5607792	13*
Methylene Chloride	AVRG	7786674	17*
trans-1,2-Dichloroethene	AVRG	5973184	11*
1,1-Dichloroethane	AVRG	6174281	11*
cis-1,2-Dichloroethene	AVRG	5290805	6.7*
Chloroform	AVRG	7943411	11*
1,1,1-Trichloroethane	AVRG	6862596	8.4*
Carbon Tetrachloride	AVRG	7733206	9.8*
1,2-Dichloroethane	AVRG	5773077	10.0*
Trichloroethene	AVRG	7113536	12*
1,2-Dichloropropane	AVRG	5545478	10*
Bromodichloromethane	AVRG	5518308	8.6*
2-Chloroethyl Vinyl Ether	AVRG	1795888	12*
cis-1,3-Dichloropropene	AVRG	5064207	8.3*
trans-1,3-Dichloropropene	AVRG	4638889	10*
1,1,2-Trichloroethane	AVRG	6059642	12*
Tetrachloroethene	AVRG	6815991	11*
Dibromochloromethane	AVRG	4107629	11*
Chlorobenzene	AVRG	2728040	11*
Bromoform	AVRG	2668763	12*
1,1,2,2-Tetrachloroethane	AVRG	3933858	8.4*
1,3-Dichlorobenzene	AVRG	3526132	13*
1,4-Dichlorobenzene	AVRG	3774834	10*
1,2-Dichlorobenzene	AVRG	3633200	10*
Bromochloromethane(sur)	AVRG	4057273	13*

* Compounds with required maximum %RSD values.

305531

Data File: /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/geld9622.d Page 1
Report Date 10/23/98 09:09



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/8021E.m
Sample Info : GSTD040C
Lab ID : GSTD040C
Inj Date : 22-OCT-98 02:27:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

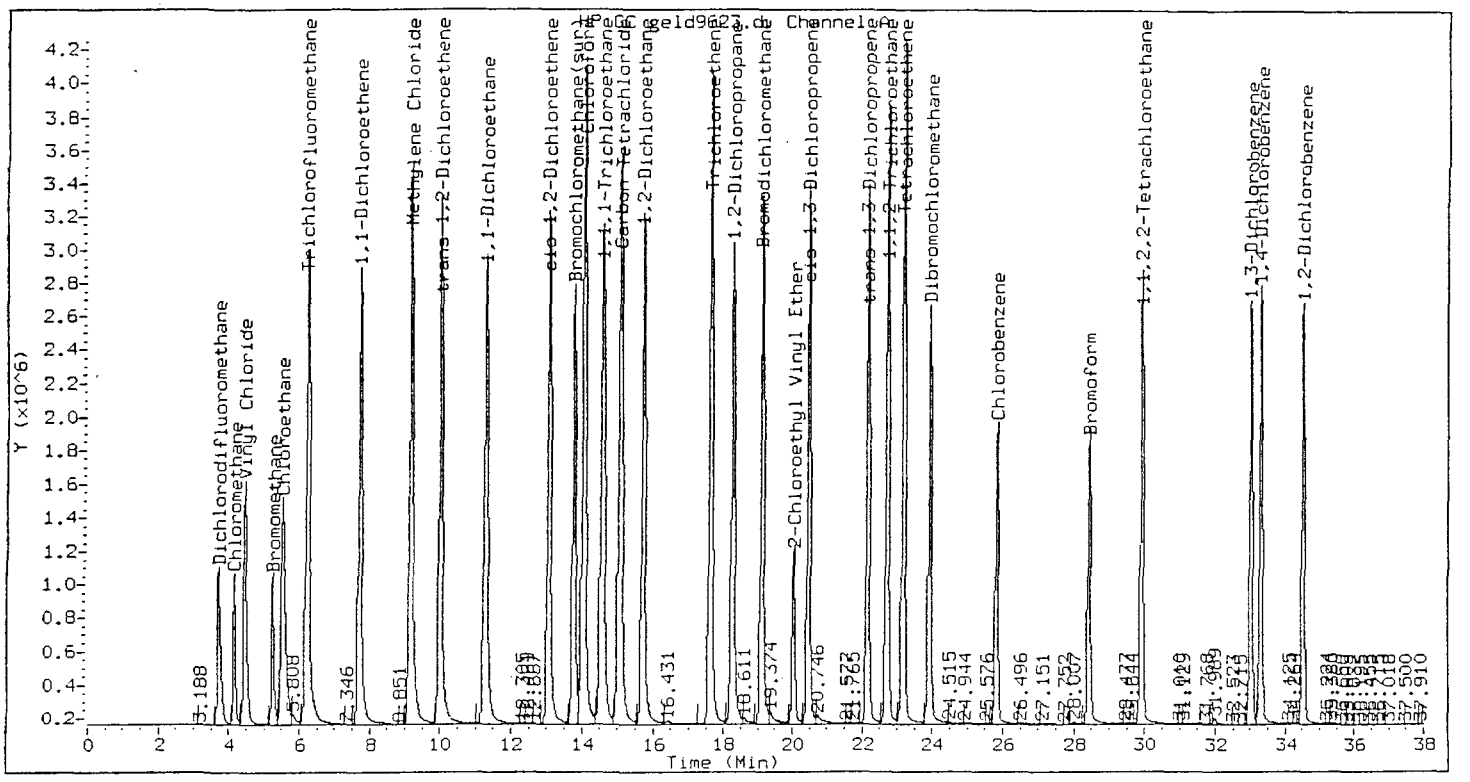
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.704	3.701	0.003	69308684	37.636	37.636
Chloromethane	4.143	4.146	0.003	41320733	54.330	54.330
Vinyl Chloride	4.443	4.433	0.011	110754881	45.068	45.068
Bromomethane	5.235	5.247	0.012	49980654	35.149	35.149
Chloroethane	5.511	5.525	0.014	134028524	36.471	36.471
Trichlorofluoromethane	6.149	6.229	0.080	223251771	38.926	38.926
1,1-Dichloroethene	7.664	7.701	0.038	218877802	37.096	37.096
Methylene Chloride	9.136	9.143	0.007	273930437	33.174	33.174
trans-1,2-Dichloroethene	9.975	9.991	0.016	227611953	36.668	36.668

305532

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.252	11.262	0.010	234637512	36.508	36.508
cis-1,2-Dichloroethene	13.037	13.043	0.007	203978984	37.813	37.813
Chloroform	14.030	14.030	0.000	291840796	35.496	35.496
1,1,1-Trichloroethane	14.543	14.548	0.005	263781527	37.159	37.159
Carbon Tetrachloride	15.053	15.059	0.006	294546684	36.804	36.804
1,2-Dichloroethane	15.703	15.707	0.004	214935659	35.466	35.466
Trichloroethene	17.610	17.614	0.004	266037354	36.027	36.027
1,2-Dichloropropane	18.251	18.252	0.001	210059871	36.605	36.605
Bromodichloromethane	19.105	19.104	0.001	208496902	36.708	36.708
2-Chloroethyl Vinyl Ether	20.025	20.030	0.005	72570048	38.495	38.495
cis-1,3-Dichloropropene	20.452	20.453	0.001	190726866	36.818	36.818
trans-1,3-Dichloropropene	22.137	22.139	0.001	172100294	36.436	36.436
1,1,2-Trichloroethane	22.693	22.691	0.002	220083923	35.327	35.327
Tetrachloroethene	23.162	23.163	0.001	256515233	36.603	36.603
Dibromochloromethane	23.912	23.911	0.001	160631167	37.196	37.196
Chlorobenzene	25.807	25.806	0.001	108205439	38.276	38.276
Bromoform	28.405	28.405	0.001	107524011	39.354	39.354
1,1,2,2-Tetrachloroethane	29.904	29.902	0.003	149336215	37.375	37.375
1,3-Dichlorobenzene	32.999	32.997	0.002	137693556	38.405	38.405
1,4-Dichlorobenzene	33.288	33.285	0.003	142833711	36.553	36.553
1,2-Dichlorobenzene	34.507	34.505	0.002	139417649	37.290	37.290
Bromochloromethane(sur)	13.748	13.752	0.004	164667661	40.236	40.236

305533

Data File: /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/geld9623.d Page 1
Report Date 10/23/98 09:09



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/8021E.m
Sample Info : GSTD020C
Lab ID : GSTD020C
Inj Date : 22-OCT-98 08:10:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

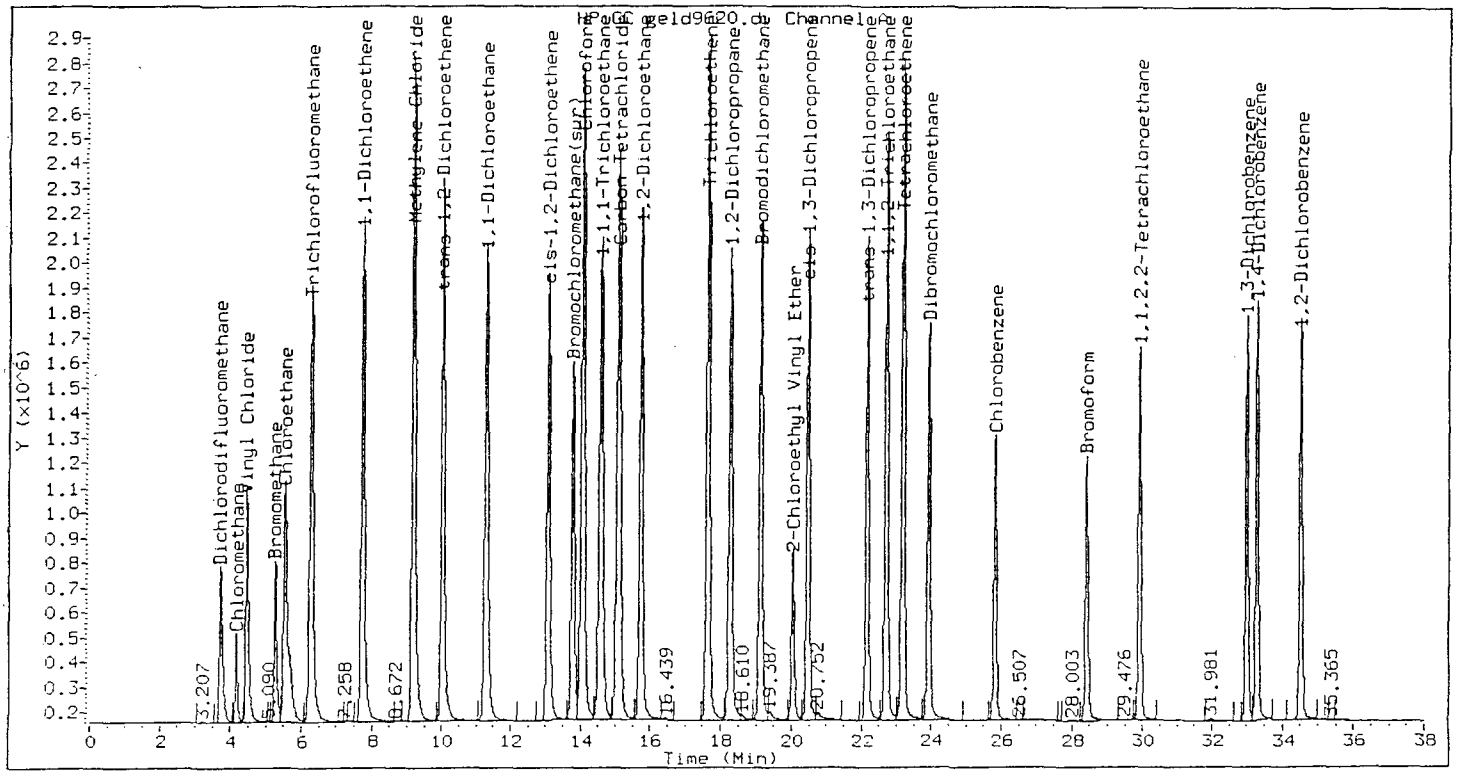
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.685	3.701	0.016	30484698	17.145	17.145
Chloromethane	4.135	4.146	0.011	19668924	24.429	24.429
Vinyl Chloride	4.424	4.433	0.009	45634979	18.839	18.839
Bromomethane	5.223	5.247	0.024	20683965	15.385	15.385
Chloroethane	5.488	5.525	0.037	59321759	16.790	16.790
Trichlorofluoromethane	6.198	6.229	0.031	110330499	19.385	19.385
1,1-Dichloroethene	7.686	7.701	0.015	93377476	16.515	16.515
Methylene Chloride	9.134	9.143	0.009	120734913	15.452	15.452
trans-1,2-Dichloroethene	9.980	9.991	0.011	104374463	17.368	17.368

305534

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	11.255	11.262	0.008	108586401	17.437	17.437
cis-1,2-Dichloroethene	13.036	13.043	0.007	103041248	19.275	19.275
Chloroform	14.027	14.030	0.003	141270409	17.681	17.681
1,1,1-Trichloroethane	14.545	14.548	0.004	123627432	17.878	17.878
Carbon Tetrachloride	15.056	15.059	0.003	139940068	17.937	17.937
1,2-Dichloroethane	15.703	15.707	0.004	101300447	17.283	17.283
Trichloroethene	17.611	17.614	0.003	125525727	17.525	17.525
1,2-Dichloropropane	18.250	18.252	0.002	98639641	17.686	17.686
Bromodichloromethane	19.104	19.104	0.000	100154627	18.061	18.061
2-Chloroethyl Vinyl Ether	20.027	20.030	0.003	31561938	17.306	17.306
cis-1,3-Dichloropropene	20.453	20.453	0.000	94625472	18.589	18.589
trans-1,3-Dichloropropene	22.139	22.139	0.000	89506266	19.151	19.151
1,1,2-Trichloroethane	22.693	22.691	0.002	110990384	18.214	18.214
Tetrachloroethene	23.166	23.163	0.003	126344900	18.391	18.391
Dibromochloromethane	23.914	23.911	0.004	76040175	18.040	18.040
Chlorobenzene	25.809	25.806	0.003	50662469	18.302	18.302
Bromoform	28.410	28.405	0.004	52281324	19.302	19.302
1,1,2,2-Tetrachloroethane	29.907	29.902	0.005	78416641	19.699	19.699
1,3-Dichlorobenzene	33.003	32.997	0.006	66572160	18.838	18.838
1,4-Dichlorobenzene	33.291	33.285	0.006	70924095	18.492	18.492
1,2-Dichlorobenzene	34.511	34.505	0.006	68763735	18.693	18.693
Bromochloromethane(sur)	13.746	13.752	0.006	81619996	19.955	19.955

305535

Data File: /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/geld9620.d Page 1
Report Date 10/23/98 09:09



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/8021E.m
Sample Info : GSTD010C
Lab ID : GSTD010C
Inj Date : 22-OCT-98 00:58:00
Operator : KB
Cpnd Sublist: 601

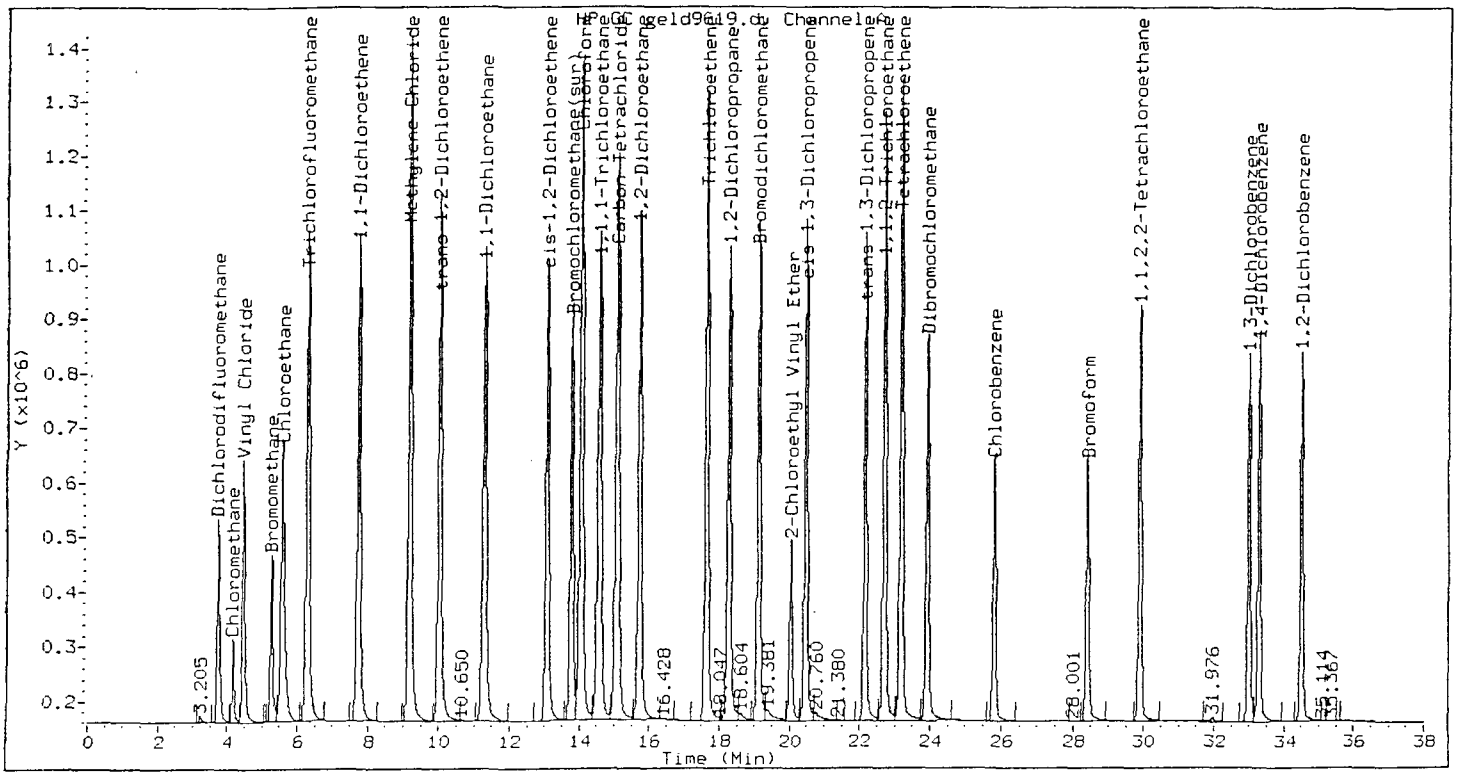
Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.708	3.701	0.007	19206268	10.802	10.802
Chloromethane	4.153	4.146	0.007	7614703	9.458	9.458
Vinyl Chloride	4.438	4.433	0.005	26036036	10.748	10.748
Bromomethane	5.247	5.247	0.001	15649481	11.698	11.698
Chloroethane	5.518	5.525	0.007	42371138	12.041	12.041
Trichlorofluoromethane	6.258	6.229	0.029	63944387	11.298	11.298
1,1-Dichloroethene	7.718	7.701	0.016	66678915	11.890	11.890
Methylene Chloride	9.151	9.143	0.008	88818628	11.406	11.406
trans-1,2-Dichloroethene	10.000	9.991	0.009	70088621	11.734	11.734

305536

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.270	11.262	0.008	71900646	11.645	11.645
cis-1,2-Dichloroethene	13.050	13.043	0.006	57939800	10.951	10.951
Chloroform	14.035	14.030	0.005	91687025	11.543	11.543
1,1,1-Trichloroethane	14.556	14.548	0.007	76981368	11.218	11.218
Carbon Tetrachloride	15.065	15.059	0.006	89347064	11.554	11.554
1,2-Dichloroethane	15.712	15.707	0.005	65410489	11.330	11.330
Trichloroethene	17.619	17.614	0.005	85774820	12.058	12.058
1,2-Dichloropropane	18.255	18.252	0.004	64126100	11.564	11.564
Bromodichloromethane	19.107	19.104	0.003	62466738	11.320	11.320
2-Chloroethyl Vinyl Ether	20.030	20.030	0.000	20190773	11.243	11.243
cis-1,3-Dichloropropene	20.455	20.453	0.002	56889151	11.234	11.234
trans-1,3-Dichloropropene	22.140	22.139	0.001	52789461	11.380	11.380
1,1,2-Trichloroethane	22.692	22.691	0.001	70009243	11.553	11.553
Tetrachloroethene	23.165	23.163	0.002	80035746	11.742	11.742
Dibromochloromethane	23.910	23.911	0.000	47647218	11.600	11.600
Chlorobenzene	25.806	25.806	0.000	32268949	11.829	11.829
Bromoform	28.405	28.405	0.001	30649381	11.484	11.484
1,1,2,2-Tetrachloroethane	29.901	29.902	0.001	41710508	10.603	10.603
1,3-Dichlorobenzene	32.994	32.997	0.003	42643044	12.093	12.093
1,4-Dichlorobenzene	33.282	33.285	0.003	44200178	11.709	11.709
1,2-Dichlorobenzene	34.503	34.505	0.003	42826243	11.787	11.787
Bromochloromethane(sur)	13.758	13.752	0.006	43979502	10.840	10.840

305537



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/8021E.m
Sample Info : GSTD005C
Lab ID : GSTD005C
Inj Date : 22-OCT-98 00:14:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

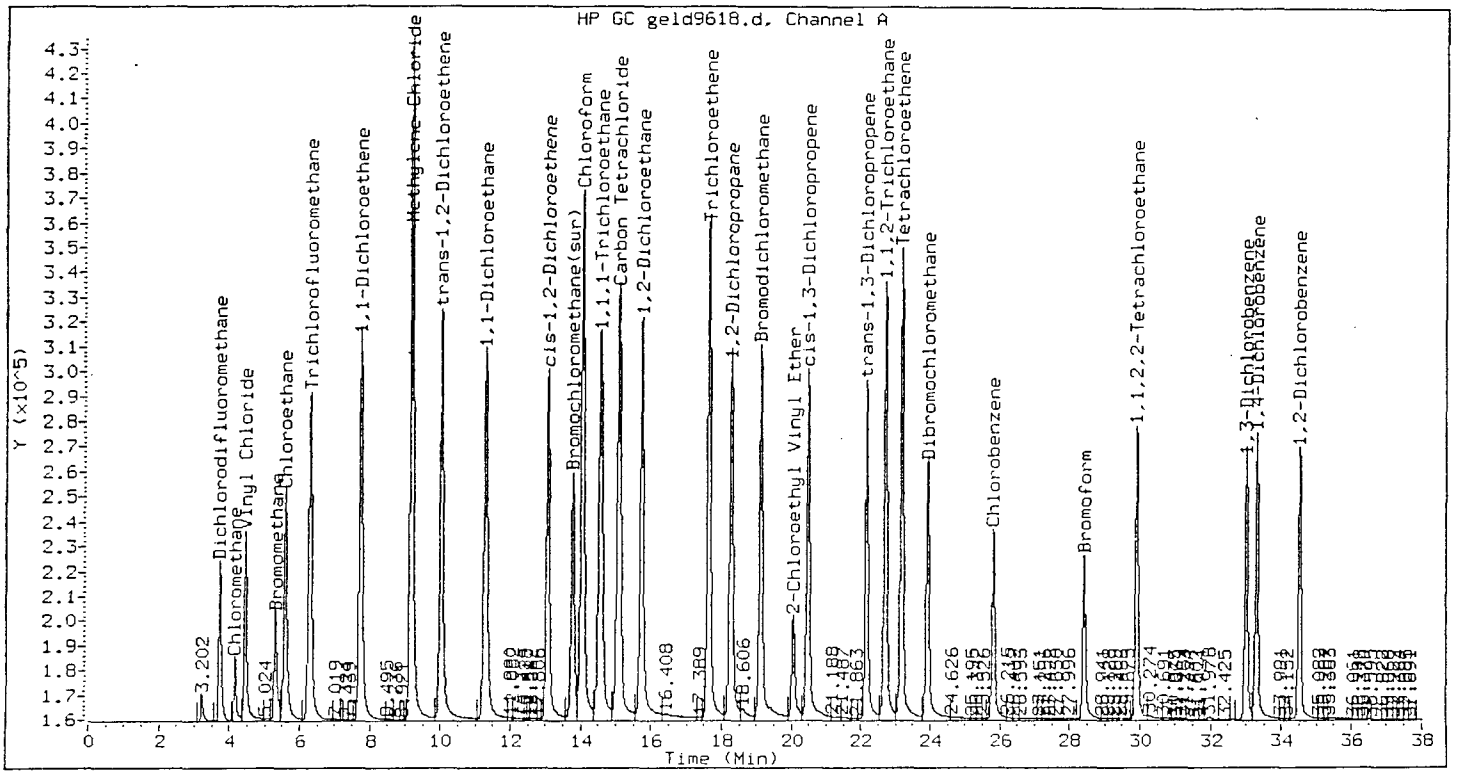
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Dichlorodifluoromethane	3.705	3.701	0.004	10069376	5.663	5.663
Chloromethane	4.151	4.146	0.005	3234517	4.017	4.017
Vinyl Chloride	4.432	4.433	0.001	12273120	5.067	5.067
Bromomethane	5.244	5.247	0.003	7272758	5.437	5.437
Chloroethane	5.543	5.525	0.018	19747792	5.612	5.612
Trichlorofluoromethane	6.265	6.229	0.036	30700838	5.424	5.424
1,1-Dichloroethene	7.717	7.701	0.016	28865983	5.133	5.133
Methylene Chloride	9.147	9.143	0.004	40626172	5.208	5.208
trans-1,2-Dichloroethene	9.998	9.991	0.007	30786890	5.137	5.137

305538

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	11.265	11.262	0.003	31970316	5.157	5.157
cis-1,2-Dichloroethene	13.045	13.043	0.002	27524486	5.176	5.176
Chloroform	14.029	14.030	0.001	42106050	5.286	5.286
1,1,1-Trichloroethane	14.548	14.548	0.000	35679090	5.180	5.180
Carbon Tetrachloride	15.060	15.059	0.001	39990999	5.150	5.150
1,2-Dichloroethane	15.705	15.707	0.002	30188329	5.195	5.195
Trichloroethene	17.612	17.614	0.001	36365986	5.094	5.094
1,2-Dichloropropane	18.249	18.252	0.002	29047913	5.224	5.224
Bromodichloromethane	19.102	19.104	0.003	28289086	5.114	5.114
2-Chloroethyl Vinyl Ether	20.027	20.030	0.003	9924364	5.485	5.485
cis-1,3-Dichloropropene	20.451	20.453	0.002	26516495	5.223	5.223
trans-1,3-Dichloropropene	22.135	22.139	0.003	24812823	5.332	5.332
1,1,2-Trichloroethane	22.687	22.691	0.004	33343914	5.488	5.488
Tetrachloroethene	23.161	23.163	0.002	35787131	5.231	5.231
Dibromochloromethane	23.907	23.911	0.003	21439448	5.152	5.152
Chlorobenzene	25.803	25.806	0.003	13821754	5.039	5.039
Bromoform	28.402	28.405	0.003	14009291	5.210	5.210
1,1,2,2-Tetrachloroethane	29.897	29.902	0.005	21672355	5.461	5.461
1,3-Dichlorobenzene	32.993	32.997	0.004	17841338	5.055	5.055
1,4-Dichlorobenzene	33.281	33.285	0.004	19242290	5.055	5.055
1,2-Dichlorobenzene	34.500	34.505	0.005	18263232	4.988	4.988
Bromochloromethane(sur)	13.752	13.752	0.000	22607939	5.551	5.551

305539

Data File: /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/geld9618.d Page 1
Report Date 10/23/98 09:08



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/21oct98a.b/8021E.m
Sample Info : GSTD001C
Lab ID : GSTD001C
Inj Date : 21-OCT-98 23:30:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Dichlorodifluoromethane	3.703	3.701	0.002	1698929	1.000	1.000
Chloromethane	4.148	4.146	0.002	600827	1.000	1.000
Vinyl Chloride	4.427	4.433	0.006	2002942	1.000	1.000
Bromomethane	5.285	5.247	0.038	1385537	1.000	1.000
Chloroethane	5.564	5.525	0.039	3090325	1.000	1.000
Trichlorofluoromethane	6.275	6.229	0.047	4666803	1.000	1.000
1,1-Dichloroethene	7.722	7.701	0.020	5457054	1.000	1.000
Methylene Chloride	9.147	9.143	0.004	9041266	1.000	1.000
trans-1,2-Dichloroethene	10.001	9.991	0.010	5790659	1.000	1.000

305540

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	11.268	11.262	0.006	5992021	1.000	1.000
cis-1,2-Dichloroethene	13.049	13.043	0.006	4903610	1.000	1.000
Chloroform	14.030	14.030	0.000	7767604	1.000	1.000
1,1,1-Trichloroethane	14.550	14.548	0.002	6703113	1.000	1.000
Carbon Tetrachloride	15.062	15.059	0.003	7372455	1.000	1.000
1,2-Dichloroethane	15.712	15.707	0.005	5848256	1.000	1.000
Trichloroethene	17.617	17.614	0.003	6789783	1.000	1.000
1,2-Dichloropropane	18.253	18.252	0.001	5321717	1.000	1.000
Bromodichloromethane	19.104	19.104	0.000	5466895	1.000	1.000
2-Chloroethyl Vinyl Ether	20.040	20.030	0.010	1583140	1.000	1.000
cis-1,3-Dichloropropene	20.455	20.453	0.002	4829375	1.000	1.000
trans-1,3-Dichloropropene	22.142	22.139	0.004	4175113	1.000	1.000
1,1,2-Trichloroethane	22.690	22.691	0.001	5576888	1.000	1.000
Tetrachloroethene	23.161	23.163	0.002	6188830	1.000	1.000
Dibromochloromethane	23.910	23.911	0.001	3667744	1.000	1.000
Chlorobenzene	25.807	25.806	0.000	2410697	1.000	1.000
Bromoform	28.406	28.405	0.001	2174852	1.000	1.000
1,1,2,2-Tetrachloroethane	29.899	29.902	0.002	3509529	1.000	1.000
1,3-Dichlorobenzene	32.997	32.997	0.001	3027139	1.000	1.000
1,4-Dichlorobenzene	33.284	33.285	0.001	3488647	1.000	1.000
1,2-Dichlorobenzene	34.504	34.505	0.001	3307101	1.000	1.000
Bromochloromethane(sur)	13.756	13.752	0.004	3169136	1.000	1.000

305541

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK

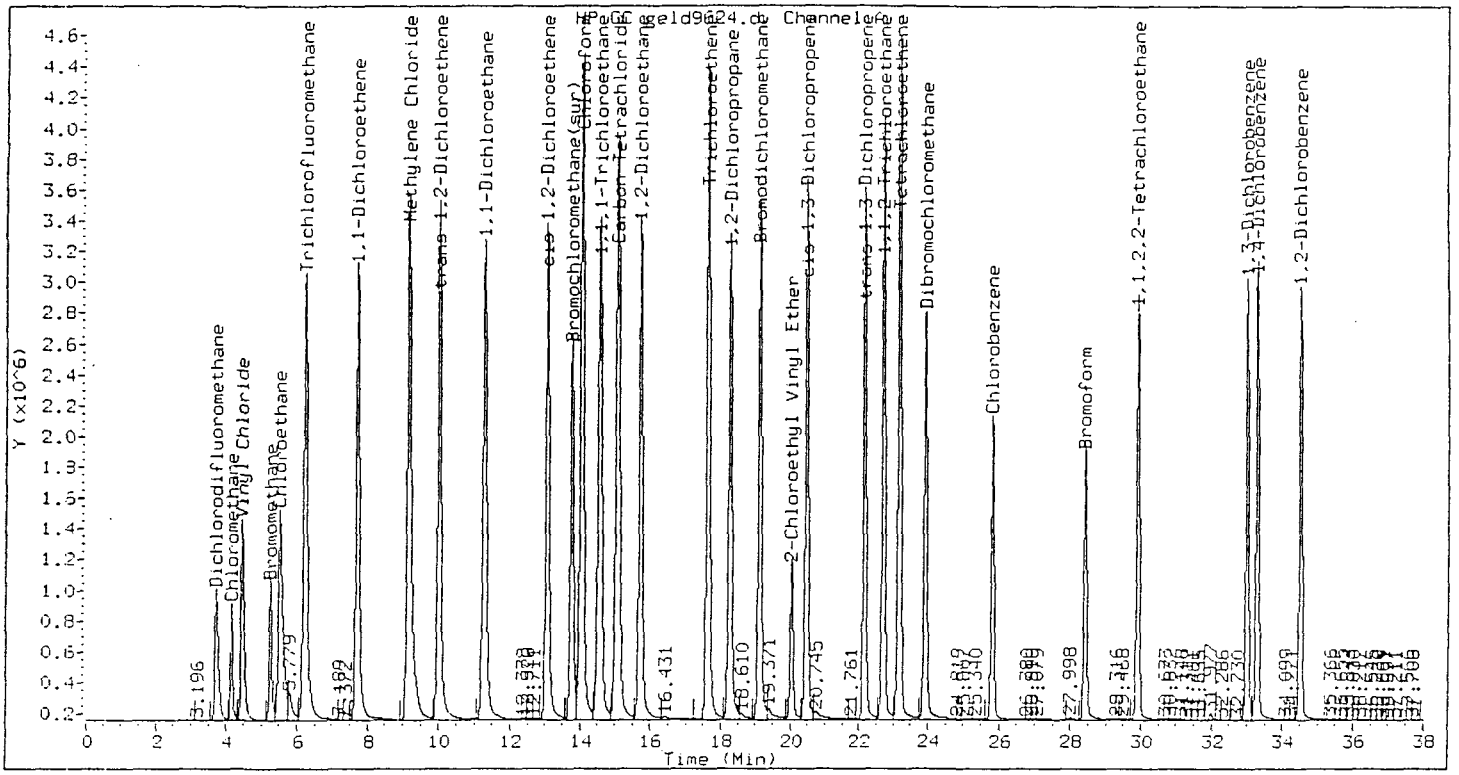
Instrument ID: VOAGC1 Calibration Date: 10/22/98 Time: 0907

Lab File ID: GELD9624 Init. Calib. Date(s): 10/21/98 10/22/98

Heated Purge: (Y/N) N Init. Calib. Times: 2330 0810

COMPOUND	$\overline{RRF}$	RRF20	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	1778076.6	1494246.9		16.0	15.0
Chloromethane	805133.04	786579.70		2.3	15.0
Vinyl Chloride	2422358.1	2230522.9		7.9	15.0
Bromomethane	1337750.3	1062382.4		20.6	15.0
Chloroethane	3518759.7	2954502.3		16.0	15.0
Trichlorofluoromethane	5659845.7	5586340.2		1.3	15.0
1,1-Dichloroethene	5607792.2	5147826.6		8.2	15.0
Methylene Chloride	7786674.0	6802374.9		12.6	15.0
trans-1,2-Dichloroethene	5973184.2	5691778.4		4.7	15.0
1,1-Dichloroethane	6174281.3	5976089.5		3.2	15.0
cis-1,2-Dichloroethene	5290804.8	5352439.9		-1.0	15.0
Chloroform	7943411.4	7687102.4		3.2	15.0
1,1,1-Trichloroethane	6862595.5	6674005.9		2.7	15.0
Carbon Tetrachloride	7733206.3	7565742.2		2.2	15.0
1,2-Dichloroethane	5773076.9	5420931.7		6.1	15.0
Trichloroethene	7113536.5	6793636.0		4.5	15.0
1,2-Dichloropropane	5545477.7	5389731.3		2.8	15.0
Bromodichloromethane	5518308.0	5382564.2		2.4	15.0
2-Chloroethyl Vinyl Ether	1795887.6	1540146.5		14.2	15.0
cis-1,3-Dichloropropene	5064206.9	5115670.9		-1.0	15.0
trans-1,3-Dichloropropene	4638888.9	4814509.6		-3.6	15.0
1,1,2-Trichloroethane	6059642.5	5837155.7		3.7	15.0
Tetrachloroethene	6815991.3	6908661.0		-1.2	15.0
Dibromochloromethane	4107628.7	4097503.1		0.2	15.0
Chlorobenzene	2728040.4	2817471.4		-3.1	15.0
Bromoform	2668763.0	2652308.7		0.6	15.0
1,1,2,2-Tetrachloroethane	3933857.6	3933626.3		0.0	15.0
1,3-Dichlorobenzene	3526131.6	3775254.0		-6.9	15.0
1,4-Dichlorobenzene	3774834.1	4008761.7		-6.0	15.0
1,2-Dichlorobenzene	3633199.9	3846080.1		-5.8	15.0
Bromochloromethane(sur)	4057273.1	3889475.4		4.1	15.0

305542



Method : /chem/VOAGC1.i/8021ELCD/10-21-98/22oct98.b/8021E.m
Sample Info : GSTD020
Lab ID : GSTD020
Inj Date : 22-OCT-98 09:07:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.697	3.701	0.004	29884938	16.807	16.807
Chloromethane	4.140	4.146	0.006	15731593	19.539	19.539
Vinyl Chloride	4.431	4.433	0.002	44610457	18.416	18.416
Bromomethane	5.230	5.247	0.017	21247647	15.883	15.883
Chloroethane	5.493	5.525	0.031	59090045	16.793	16.793
Trichlorofluoromethane	6.208	6.229	0.020	111726804	19.740	19.740
1,1-Dichloroethene	7.694	7.701	0.007	102956532	18.360	18.360
Methylene Chloride	9.139	9.143	0.004	136047498	17.472	17.472
trans-1,2-Dichloroethene	9.985	9.991	0.006	113835568	19.058	19.058

305543

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.260	11.262	0.002	119521789	19.358	19.358
cis-1,2-Dichloroethene	13.040	13.043	0.003	107048798	20.233	20.233
Chloroform	14.029	14.030	0.001	153742047	19.355	19.355
1,1,1-Trichloroethane	14.546	14.548	0.002	133480118	19.450	19.450
Carbon Tetrachloride	15.056	15.059	0.003	151314843	19.567	19.567
1,2-Dichloroethane	15.703	15.707	0.004	108418634	18.780	18.780
Trichloroethene	17.612	17.614	0.002	135872720	19.101	19.101
1,2-Dichloropropane	18.250	18.252	0.001	107794626	19.438	19.438
Bromodichloromethane	19.102	19.104	0.002	107651284	19.508	19.508
2-Chloroethyl Vinyl Ether	20.024	20.030	0.005	30802929	17.152	17.152
cis-1,3-Dichloropropene	20.450	20.453	0.003	102313418	20.203	20.203
trans-1,3-Dichloropropene	22.136	22.139	0.003	96290191	20.757	20.757
1,1,2-Trichloroethane	22.689	22.691	0.002	116743114	19.266	19.266
Tetrachloroethene	23.161	23.163	0.002	138173220	20.272	20.272
Dibromochloromethane	23.909	23.911	0.002	81950062	19.951	19.951
Chlorobenzene	25.802	25.806	0.004	56349428	20.656	20.656
Bromoform	28.400	28.405	0.005	53046174	19.877	19.877
1,1,2,2-Tetrachloroethane	29.896	29.902	0.005	78672525	19.999	19.999
1,3-Dichlorobenzene	32.992	32.997	0.005	75505079	21.413	21.413
1,4-Dichlorobenzene	33.279	33.285	0.006	80175234	21.239	21.239
1,2-Dichlorobenzene	34.499	34.505	0.006	76921602	21.172	21.172
Bromochloromethane(sur)	13.750	13.752	0.002	77789507	19.173	19.173

305544

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Matrix: SOIL Level: HIGH Lab Job No: I053

	LAB SAMPLE NO.	SMC1 #	SMC2 #	OTHER	TOT OUT
01	GG294	77			0
02	89309	97			0
03	89310	98			0
04	GG295	88			0
05	89308	113			0
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

QC LIMITS

SMC1 = Bromochloromethane(sur (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

305545

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Matrix: SOIL Level: HIGH Lab Job No: I053

	LAB SAMPLE NO.	SMC1 #	SMC2 #	OTHER	TOT OUT
01	89309	88			0
02	89310	85			0
03	GG295	89			0
04	89308	89			0
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

QC LIMITS

SMC1 = a,a,a,-Trifluorotoluen (70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

305546

VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8021

Matrix: SOIL

Level: HIGH

Matrix Spike - Lab Sample No.: 88681

MS Sample from Lab Job No: 20oc

QA Batch: 3700

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Chloromethane	2770	0.00	2500	90	70-130
Vinyl Chloride	2770	0.00	3230	117	70-130
Bromomethane	2770	0.00	2860	103	70-130
Chloroethane	2770	0.00	3190	115	70-130
Trichlorofluoromethane	2770	0.00	2550	92	70-130
1,1-Dichloroethene	2770	0.00	2460	89	70-130
Methylene Chloride	2770	0.00	2090	75	70-130
trans-1,2-Dichloroethene	2770	0.00	2490	90	70-130
1,1-Dichloroethane	2770	0.00	2440	88	70-130
Chloroform	2770	0.00	2380	86	70-130
1,1,1-Trichloroethane	2770	0.00	2370	86	70-130
Carbon Tetrachloride	2770	0.00	2390	86	70-130
1,2-Dichloroethane	2770	0.00	2320	84	70-130
Trichloroethene	2770	159	2580	87	70-130
1,2-Dichloropropane	2770	0.00	2390	86	70-130
Bromodichloromethane	2770	0.00	2330	84	70-130
2-Chloroethyl Vinyl Ethe	2770	0.00	2710	98	70-130
cis-1,3-Dichloropropene	2770	0.00	2450	88	70-130
trans-1,3-Dichloropropen	2770	0.00	2500	90	70-130
1,1,2-Trichloroethane	2770	0.00	2320	84	70-130
Tetrachloroethene	2770	0.00	2370	86	70-130
Dibromochloromethane	2770	0.00	2360	85	70-130
Chlorobenzene	2770	0.00	2410	87	70-130
Bromoform	2770	0.00	2440	88	70-130
1,1,2,2-Tetrachloroethan	2770	0.00	2170	78	70-130
1,3-Dichlorobenzene	2770	0.00	2390	86	70-130
1,4-Dichlorobenzene	2770	0.00	2370	86	70-130
1,2-Dichlorobenzene	2770	0.00	2310	83	70-130

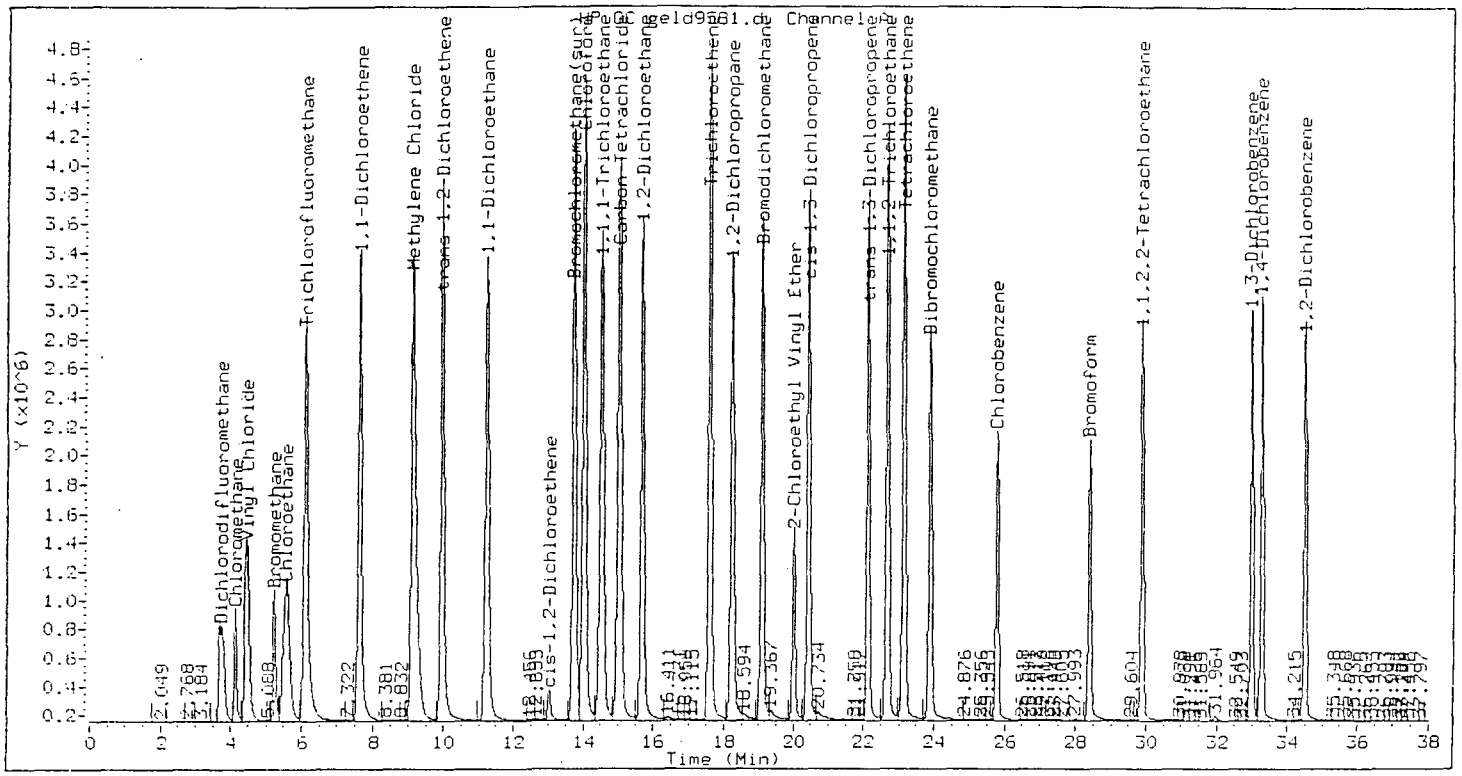
305547

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	2770	2750	99	10	40	70-130
Vinyl Chloride	2770	3270	118	1	40	70-130
Bromomethane	2770	2870	104	0	40	70-130
Chloroethane	2770	3160	114	1	40	70-130
Trichlorofluoromethane	2770	2660	96	4	40	70-130
1,1-Dichloroethene	2770	2610	94	6	40	70-130
Methylene Chloride	2770	2180	79	4	40	70-130
trans-1,2-Dichloroethene	2770	2590	94	4	40	70-130
1,1-Dichloroethane	2770	2530	91	4	40	70-130
Chloroform	2770	2450	88	3	40	70-130
1,1,1-Trichloroethane	2770	2500	90	5	40	70-130
Carbon Tetrachloride	2770	2560	92	7	40	70-130
1,2-Dichloroethane	2770	2410	87	4	40	70-130
Trichloroethene	2770	2680	91	4	40	70-130
1,2-Dichloropropane	2770	2480	90	4	40	70-130
Bromodichloromethane	2770	2410	87	3	40	70-130
2-Chloroethyl Vinyl Ethe	2770	2850	103	5	40	70-130
cis-1,3-Dichloropropene	2770	2530	91	3	40	70-130
trans-1,3-Dichloropropen	2770	2560	92	2	40	70-130
1,1,2-Trichloroethane	2770	2410	87	4	40	70-130
Tetrachloroethene	2770	2590	94	9	40	70-130
Dibromochloromethane	2770	2540	92	7	40	70-130
Chlorobenzene	2770	2550	92	6	40	70-130
Bromoform	2770	2580	93	6	40	70-130
1,1,2,2-Tetrachloroethan	2770	2340	84	8	40	70-130
1,3-Dichlorobenzene	2770	2520	91	5	40	70-130
1,4-Dichlorobenzene	2770	2510	91	6	40	70-130
1,2-Dichlorobenzene	2770	2470	89	7	40	70-130

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 28 outside limits
Spike Recovery: 0 out of 56 outside limits

COMMENTS: _____

305548



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/20oct98.b/8021E.m
Sample Info : 88681ms;;50
Lab ID : 88681ms
Inj Date : 20-OCT-98 12:26:00
Operator : KB
Cpnd Sublist: 601

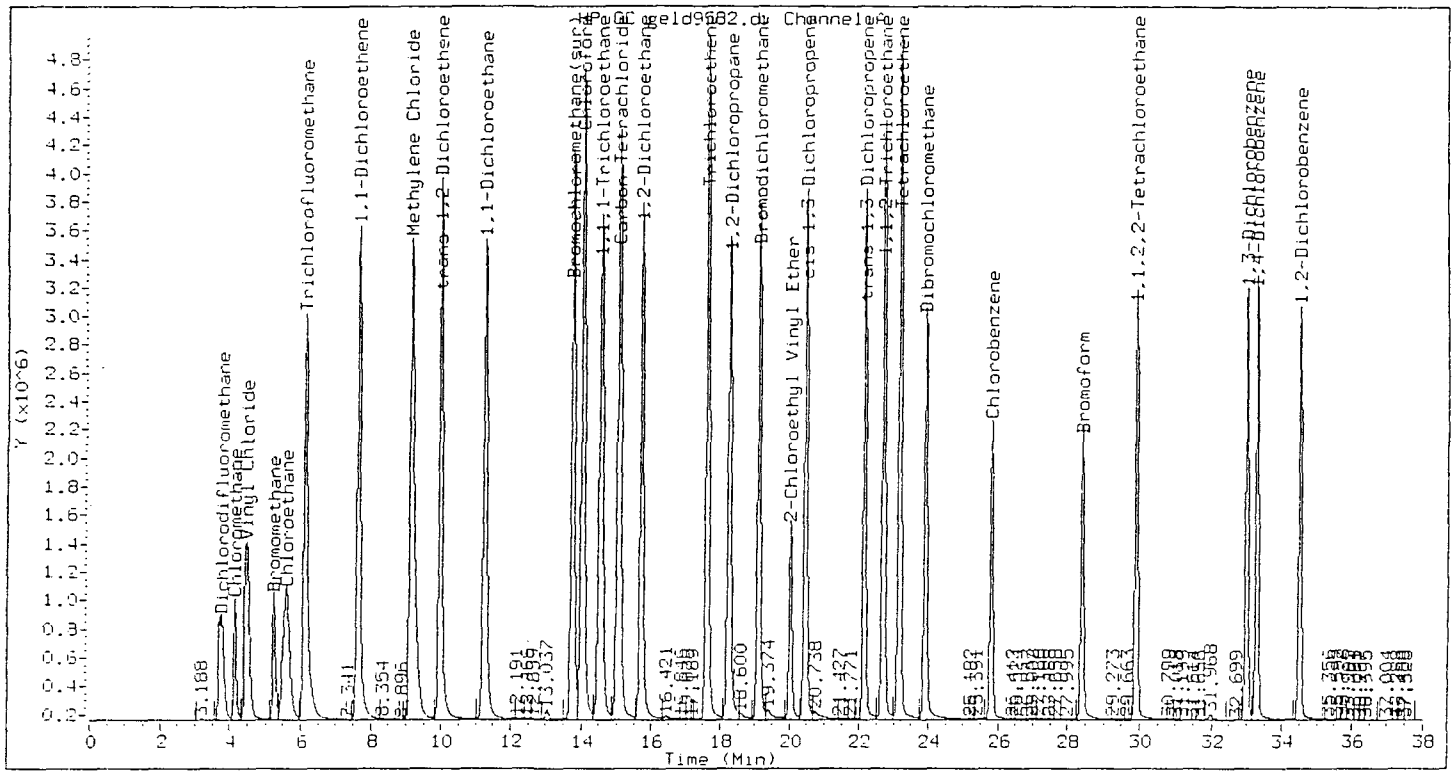
Inst ID : VOAGC1.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: MS

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
Dichlorodifluoromethane	3.747	3.701	0.047	37020708	14.517	2010.156
Chloromethane	4.134	4.141	0.007	18657806	18.052	2499.762
Vinyl Chloride	4.451	4.431	0.020	62523183	23.325	3229.842
Bromomethane	5.226	5.240	0.014	25850160	20.630	2856.684
Chloroethane	5.577	5.533	0.044	62846991	23.043	3190.793
Trichlorofluoromethane	6.104	6.210	0.105	115296223	18.398	2547.576
1,1-Dichloroethene	7.632	7.685	0.053	113356217	17.748	2457.686
Methylene Chloride	9.120	9.129	0.009	151010571	15.121	2093.797
trans-1,2-Dichloroethene	9.952	9.974	0.022	122307420	17.969	2488.276

305549

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.234	11.245	0.012	125040087	17.641	2442.853
cis-1,2-Dichloroethene	13.028	13.027	0.001	8037623	1.314	182.007
Chloroform	14.015	14.014	0.000	158887697	17.206	2382.523
1,1,1-Trichloroethane	14.524	14.531	0.008	138082464	17.146	2374.199
Carbon Tetrachloride	15.032	15.041	0.009	154640977	17.283	2393.197
1,2-Dichloroethane	15.687	15.689	0.002	115235562	16.726	2316.169
Trichloroethene	17.593	17.595	0.002	150146501	18.664	2584.431
1,2-Dichloropropane	18.233	18.232	0.000	111532375	17.236	2386.704
Bromodichloromethane	19.087	19.084	0.003	109677658	16.809	2327.666
2-Chloroethyl Vinyl Ether	20.009	20.009	0.000	39887847	19.595	2713.375
cis-1,3-Dichloropropene	20.433	20.433	0.001	106701895	17.720	2453.710
trans-1,3-Dichloropropene	22.120	22.117	0.003	100696434	18.058	2500.587
1,1,2-Trichloroethane	22.675	22.670	0.005	123627496	16.720	2315.314
Tetrachloroethene	23.141	23.141	0.000	136296618	17.124	2371.236
Dibromochloromethane	23.894	23.889	0.005	84231927	17.051	2361.136
Chlorobenzene	25.798	25.785	0.003	56414263	17.439	2414.868
Bromoform	28.390	28.382	0.008	57349836	17.591	2435.952
1,1,2,2-Tetrachloroethane	29.887	29.879	0.008	79707836	15.668	2169.568
1,3-Dichlorobenzene	32.978	32.972	0.005	75351179	17.253	2389.134
1,4-Dichlorobenzene	33.266	33.261	0.005	79558372	17.129	2371.923
1,2-Dichlorobenzene	34.486	34.480	0.006	75016210	16.717	2314.887
Bromochloromethane(sur)	13.731	13.735	0.004	129767291	27.920	3866.145

305550



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/20oct98.b/8021E.m
Sample Info : 88681msd;;50
Lab ID : 88681msd
Inj Date : 20-OCT-98 13:10:00
Operator : KB
Cpnd Sublist: 601

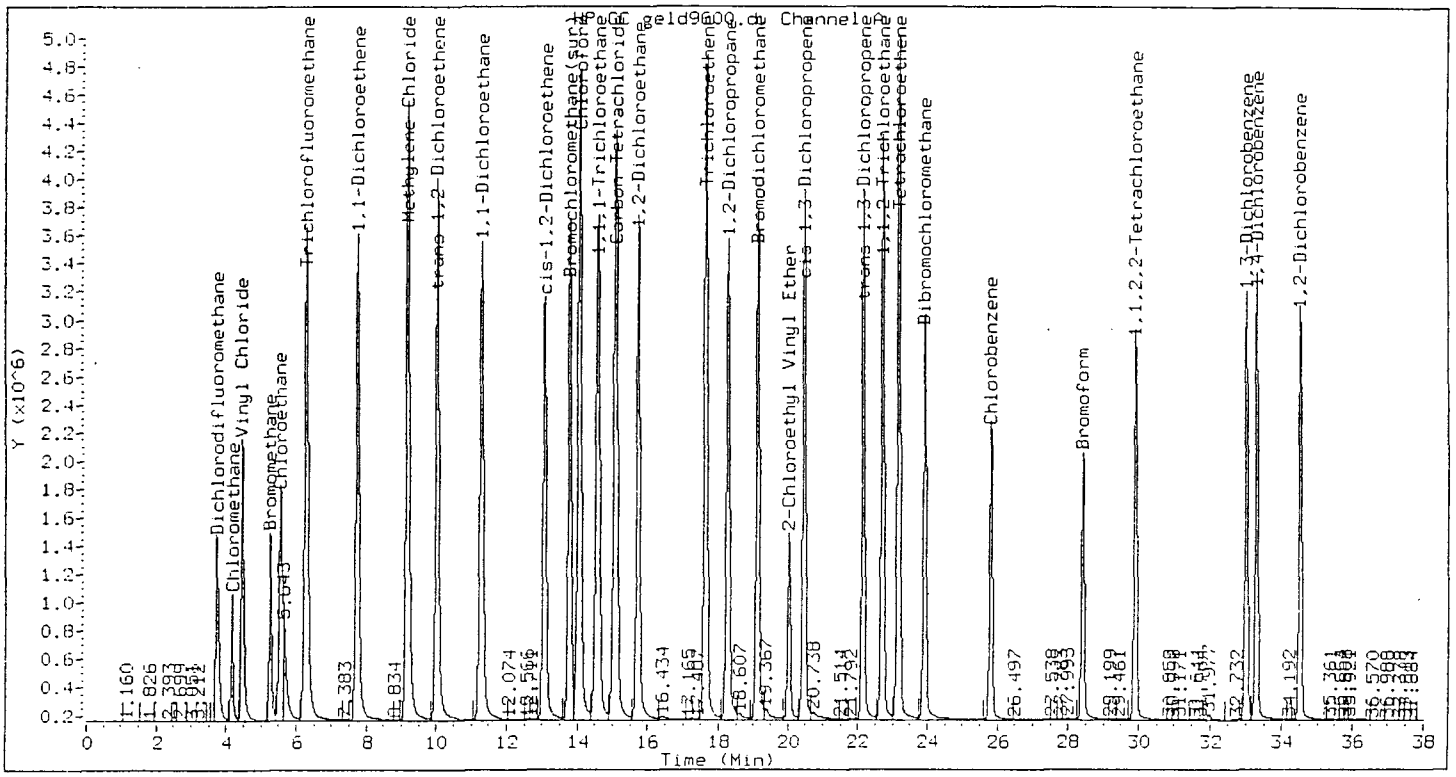
Inst ID : VOAGC1.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: MSD

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane	3.752	3.701	0.052	41622134	16.321	2260.005
Chloromethane	4.138	4.141	0.003	20531800	19.865	2750.839
Vinyl Chloride	4.461	4.431	0.030	63276785	23.606	3268.772
Bromomethane	5.232	5.240	0.008	25996916	20.747	2872.901
Chloroethane	5.588	5.533	0.055	62247224	22.823	3160.342
Trichlorofluoromethane	6.112	6.210	0.098	120272547	19.192	2657.533
1,1-Dichloroethene	7.641	7.685	0.044	120474468	18.863	2612.017
Methylene Chloride	9.127	9.129	0.002	156885185	15.709	2175.249
trans-1,2-Dichloroethene	9.960	9.974	0.014	127231365	18.693	2588.451

305551

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1,1-Dichloroethane	11.242	11.245	0.003	129381760	18.254	2527.674
Chloroform	14.019	14.014	0.005	163279933	17.681	2448.385
1,1,1-Trichloroethane	14.530	14.531	0.001	145322889	18.045	2498.691
Carbon Tetrachloride	15.040	15.041	0.001	165386702	18.484	2559.496
1,2-Dichloroethane	15.695	15.689	0.006	120026255	17.422	2412.459
Trichloroethene	17.598	17.595	0.003	155746017	19.360	2680.814
1,2-Dichloropropane	18.238	18.232	0.006	115788455	17.894	2477.781
Bromodichloromethane	19.092	19.084	0.009	113676842	17.422	2412.540
2-Chloroethyl Vinyl Ether	20.014	20.009	0.006	41863394	20.565	2847.761
cis-1,3-Dichloropropene	20.439	20.433	0.006	110098354	18.284	2531.815
trans-1,3-Dichloropropene	22.125	22.117	0.007	103177845	18.503	2562.207
1,1,2-Trichloroethane	22.680	22.670	0.010	128569236	17.389	2407.864
Tetrachloroethene	23.147	23.141	0.006	148749507	18.689	2587.886
Dibromochloromethane	23.900	23.889	0.010	90766642	18.374	2544.313
Chlorobenzene	25.792	25.785	0.007	59547927	18.408	2549.007
Bromoform	28.392	28.382	0.011	60871547	18.672	2585.538
1,1,2,2-Tetrachloroethane	29.890	29.879	0.011	86048992	16.914	2342.168
1,3-Dichlorobenzene	32.980	32.972	0.008	79411587	18.183	2517.876
1,4-Dichlorobenzene	33.268	33.261	0.007	84097317	18.106	2507.245
1,2-Dichlorobenzene	34.489	34.480	0.008	80058203	17.841	2470.475
Bromochloromethane(sur)	13.737	13.735	0.002	126585609	27.235	3771.353

305552



Method : /chem/VOAGC1.i/8021ELCD/10-17-98/21oct98.b/8021E.m
Sample Info : 3700bs
Lab ID : 3700bs
Inj Date : 21-OCT-98 09:16:00
Operator : KB
Cpnd Sublist: 601

Inst ID : VOAGC1.i
Dil Factor : 50
Sample Matrix : SOIL
Sample Type: METHSPIKE

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Dichlorodifluoromethane		3.713	3.701	0.013	42517074	16.672	2083.971
Chloromethane		4.154	4.141	0.013	18924712	18.311	2288.816
Vinyl Chloride		4.442	4.431	0.011	57060899	21.287	2660.862
Bromomethane		5.248	5.240	0.008	29537095	23.572	2946.525
Chloroethane	(M)	5.537	5.533	0.004	58514302	21.454	2681.758
Trichlorofluoromethane		6.263	6.210	0.053	129486041	20.662	2582.727
1,1-Dichloroethene		7.718	7.685	0.033	118411279	18.540	2317.488
Methylene Chloride		9.152	9.129	0.023	152894608	15.309	1913.651
trans-1,2-Dichloroethene		9.998	9.974	0.024	126802062	18.630	2328.711

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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1,1-Dichloroethane	11.268	11.245	0.023	129963666	18.336	2291.994
cis-1,2-Dichloroethene	13.048	13.027	0.021	100820611	16.487	2060.882
Chloroform	14.033	14.014	0.019	165177862	17.887	2235.847
1,1,1-Trichloroethane	14.553	14.531	0.022	147399332	18.302	2287.797
Carbon Tetrachloride	15.063	15.041	0.023	166923518	18.655	2331.926
1,2-Dichloroethane	15.706	15.689	0.017	117233451	17.016	2127.055
Trichloroethene	17.614	17.595	0.019	149498139	18.583	2322.891
1,2-Dichloropropane	18.250	18.232	0.018	116758554	18.043	2255.432
Bromodichloromethane	19.101	19.084	0.017	115665597	17.727	2215.900
2-Chloroethyl Vinyl Ether	20.021	20.009	0.012	38825610	19.073	2384.135
cis-1,3-Dichloropropene	20.447	20.433	0.015	109783539	18.231	2278.934
trans-1,3-Dichloropropene	22.131	22.117	0.014	101878126	18.270	2283.769
1,1,2-Trichloroethane	22.685	22.670	0.015	123797865	16.743	2092.914
Tetrachloroethene	23.158	23.141	0.017	150044183	18.851	2356.418
Dibromochloromethane	23.905	23.889	0.016	90542428	18.329	2291.078
Chlorobenzene	25.800	25.785	0.015	60511152	18.706	2338.209
Bromoform	28.398	28.382	0.016	56523574	17.338	2167.253
1,1,2,2-Tetrachloroethane	29.896	29.879	0.017	80826278	15.888	1985.950
1,3-Dichlorobenzene	32.993	32.972	0.021	81190112	18.590	2323.791
1,4-Dichlorobenzene	33.282	33.261	0.021	85877682	18.490	2311.205
1,2-Dichlorobenzene	34.502	34.480	0.022	81278894	18.113	2264.101
Bromochloromethane(sur)	13.755	13.735	0.020	109180755	23.491	2936.313

COMMENTS:

M - Compound response manually integrated.

305554

Subdirectory: E101798 / E101798a Analysis: 8021e

DATE	DATAFILE ID	ALS	SAMPLE	STD LOT	JOB	QA	LPB	PN	W/V	DF	Sub list	Comments	ANALYST
10/17/98	geld 9527	9	GSTD020				GG 290				601	G	MDL
	9528	10	BS									G	
	9529	11	GG 290									G	
	9530	9	88554ms	std	H941	3699						NG	
	9531	10	88554msd	V98-525	↓	↓						NG	
	9532	9	Gstd020a	V98-527								NU (~~check~~)	
	9533	11	88555	V98-529	H941	3699			10.58 / 25ml	50X		NG	
	9534	12	88570		↓				25	↓			
	9535	13	88664	BS	H950				25			end check did not pass	
	9536	14	88665	V98-544					25				
	9537	15	88667	V98-528					25	1000X			
	9538	16	88668						25	↓			
	9539	1	88669	Sur					25	50X			
	9540	2	gstd020a	~~V98-518~~								G (new calibration)	
	9541	3	gstd020a	V98-545								NG	
	9542	4	gstd001a									NG	
	9543	5	gstd001a									G	
	9544	6	gstd005a									NG	
	9545	7	gstd005a									G	
	9546	8	gstd010a									NG	
	9547	9	gstd040a									NG	
	9548	10	gstd040a									G	
	9549	11	gstd010a									G	

Signed: Melissa Boel Date: 10/17/98

Read and Understood By Signed Date

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PROJECT NO.

NOTEBOOK NO.

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Subdirectory: E102098/E102098a Analysis: 8021e

DATE	DATAFILE ID	A/S	SAMPLE	PH	STD LOT	JOB	QA	LPB	W/V	DF	Sub List	Comments	ANALYST
10-20-98	gsld 9576	9	gsld 020					GG293			601	G	MZ
	9577	10	~~3700~~ BS									ok NU	
	9578	11	gg 293									G	
	9579	12	88681		SWM	H950	3700		10.2 / 25	50X		G	
	9580	9	88554 msd			H950	3699		10.47 / 25	50X / 25		G	
	9581	10	88681 ms		V98-565		3700		10.28 / 25	50X		G	
	9582	11	88681 msd						17.24 / 25			G	
	9583	10	GSTD 020		Std			GG293a				GGGGGGGG	
	9584	12	~~3700~~ BS		V98-525								
	9585	13	GG293a		V98-527								
	9586	13	88682		V98-529	H950	3700		10.3 / 25ml	50X			
	9587	14	89299			I052			25ml				
	9588 ~~9589~~	15	89300						9.37 / 25ml			RR x100	
	9589 ~~9590~~	16	89304		BS				9.79 / 25ml				
	9590 ~~9591~~	1	89305		V98-526				10.0 / 25ml				
	9591 ~~9592~~	2	89308		V98-528	I053			10.23 / 25ml			bad purge	
	9592 ~~9593~~	4	89298			I051	~~3701~~	3701	1.09 / 10ml	1000X		surr (RR x500)	
	9593 ~~9594~~	5	88674			H950	~~3699~~	3699	10.37 / 25ml			G	
	9594 ~~9595~~	6	88678				3700		10.49 / 25ml			G	
	9595 ~~9596~~	7	88679						10.09 / 25ml	100X		G	
	9596 ~~9597~~	9	gsld 020									NG	
	9597 ~~9598~~	10	gsld 020									NG	
	9598 ~~9599~~	11	gsld 020									G	
	~~9600~~	11											

Signed: Melissa Boyd Date: 10-20-98

Read and Understood By Signed Date

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PROJECT

Subdirectory: E102198 Analysis: 8021e

DATE	DATA FILE ID		A/S	SAMPLE	Std Lot #	JOB	QA	LPB	PH	W/V	D.F.	SubList	Comments	Analyst
10/21/98	gold	9599	9	6STD020				66				601	G	KB
		9600	10	3700BS				2941					G	
		9601	11	66294	Std								G	
		9602	11	88667	V98-525	H950	3699			10.3g / 25ml	500x		G	
		9603	9	6STD020	V98-527								G → NU	
		9609*	15	89300	V98-529	I052	3700			9.3g / 25ml	100x		G	
		9610	16	89308		I053				10.2g / 25ml	50x		KR 100x (TCE 49)	
		9611	1	89309	BS	I053				10.8 / 25ml			G	
		9612	2	89310	V98-526	↓	↓			10.0 / 25ml	↓		G	
		9613	9	6STD020	V98 528								N G	
		9614	10	6STD020									G	
					Surr V98-565									

* missing files include samples run under different method.

Signed: Kimberly Bohn

Date: 10/21/98

Signed

Date

Read and Understood By

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Notebook No. _____

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PROJECT

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Subdirectory: 102198A Analysis: 8021 a

DATE	DATA FILE ID		As	~~Std/Sample lot #~~	Std Lot #	JOB	QA	LPB	PH	W/V	D.F	SUBLIST	Comments	Analyst
10/21/98	gcld	9617	3	6XD 001C								601	NU	KB
		9618	4	001C	Stds								G	
		9619	5	005C	√98-525								G	
		9620	6	010C	√98-527								G	
		9621	7	020C	√98-529								did not purge	
		9622	8	040C									G	
		9623	9	020C	surr √98-565								G	

Signed: Kimberly Bolin Date: 10/21/98

Subdirectory: P102198A Analysis: 8021(H) (TFT surr)

10/21/98	gpid	1816	3	6XD 001C								surr	NU	KB
		1817	4	001C	surr √98-562								G	
		1818	5	005C									G	
		1819	6	010C									G	
		1820	7	020C									did not purge	
		1821	8	040C									G	
		1822	9	020C									G	

Signed Date

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PROJECT

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Subdirectory: 2102298 Analysis: 8021e

DATE	DATA FILE ID	#s	SAMPLE	Std Lot #	JOB	QA	LPB	pH	W/V	D.F.	SUBLIST	Comments	Analyst
10/22/98	gold 9624	9	G80020				66				601	G	
	9625	10	3701 B5				295					G	
	9626	11	66 295	See								G	
	9627	12	89298		I051	3701			1.06g / 10	500x		NG (aliquot taken from methanol portion only)	
	9628	13	89308	Pg	I053	3700			10.2 / 25ml	100x		G	
	9629	14	90821	27	I279	3706			10.8 / 25ml	50x		G	
	9630	12	89298*		I051	3701			1.06g / 10ml	10,000x		RR 2500x	
	9631	12	89298*		↓	↓			↓	2500x		G; dil for non-targets on PID!!!	
	9632	15	89298MS		↓	↓			↓	↓		G; swor dil below MDL	
	9633	16	89298MSD		↓	↓			↓	↓		G; spike amt. dil below MDL	
	9634	4	90822		I279	3706			10.2g / 25ml	50x		G	
	9635	5	90823		↓	↓			10.7g / 25ml	↓		G	
	9636	6	90824						11.0g / 25ml			G	
	9637	9	G80020									G	
	9638	16	G80020									NU	

* aliquot for sample taken immediately after shaking product in methanol (so as to be evenly dispersed)

Kimberly Bolton (Signature) 10/22/98

Read and Understood By

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Notebook No. ____ Continued From Page ____

PROJECT 28 (14B)

Client ID: **SSDP-1 2.5-3**
Site: **Klockner & Klockner**

Lab Sample No: 89310
Lab Job No: I053

Date Sampled: 10/08/98
Date Received: 10/09/98

Matrix: SOLID
Level: LOW
% Moisture: 10.2

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Aluminum	9080	13.0		P
Antimony	ND	1.0	N	P
Arsenic	10.1	0.85		P
Barium	54.5	0.31		P
Beryllium	0.52	0.045		P
Cadmium	0.36	0.089	B	P
Calcium	5370	9.4		P
Chromium	12.0	0.22	*	P
Cobalt	7.8	0.27	B	P
Copper	28.1	0.78		P
Iron	29600	9.2		P
Lead	173	0.56		P
Magnesium	2480	9.0		P
Manganese	446	0.24	*	P
Mercury	0.14	0.019		CV
Nickel	15.0	0.47		P
Potassium	912	66.9	B	P
Selenium	ND	1.1		P
Silver	ND	0.31		P
Sodium	ND	94.9		P
Thallium	ND	1.1		P
Vanadium	25.5	0.42		P
Zinc	97.6	1.0	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

305560

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I053 _____ Batch No.: 7057__

Preparation Blank Matrix (soil/water): SOIL_

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	58.2	U	58.2	U	58.2	U	58.2	U	5.820	U	P
Antimony	4.6	U	4.6	U	4.6	U	4.6	U	0.460	U	P
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U	P
Barium	1.4	U	1.4	U	1.4	U	1.4	U	0.140	U	P
Beryllium	0.2	U	0.2	U	0.2	U	0.2	U	0.020	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.040	U	P
Calcium	42.2	U	42.2	U	42.2	U	42.2	U	13.003	B	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	0.100	U	P
Cobalt	1.2	U	1.2	U	1.2	U	1.2	U	0.120	U	P
Copper	3.5	U	3.5	U	3.5	U	3.5	U	0.350	U	P
Iron	41.5	U	41.5	U	41.5	U	41.5	U	4.150	U	P
Lead	2.5	U	2.5	U	2.5	U	2.5	U	0.250	U	P
Magnesium	40.3	U	40.3	U	40.3	U	40.3	U	4.030	U	P
Manganese	1.1	U	1.1	U	1.1	U	1.1	U	0.110	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.017	U	CV
Nickel	2.1	U	2.1	U	2.1	U	2.1	U	0.210	U	P
Potassium	300.3	U	415.0	B	300.3	U	300.3	U	33.672	B	P
Selenium	4.8	U	4.8	U	4.8	U	4.8	U	0.480	U	P
Silver	1.4	U	1.4	U	1.4	U	1.4	U	0.140	U	P
Sodium	426.0	U	447.9	B	426.0	U	426.0	U	42.600	U	P
Thallium	4.8	U	4.8	U	4.8	U	4.8	U	0.480	U	P
Vanadium	1.9	U	1.9	U	1.9	U	1.9	U	0.190	U	P
Zinc	4.5	U	4.5	U	4.5	U	4.5	U	0.450	U	P
Molybdenu											NR

305561

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I053 _____ Batch No.: 7057__

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			58.2	U							P
Antimony			4.6	U							P
Arsenic			3.8	U							P
Barium			1.4	U							P
Beryllium			0.2	U							P
Cadmium			0.4	U							P
Calcium			42.2	U							P
Chromium			1.0	U							P
Cobalt			1.2	U							P
Copper			3.5	U							P
Iron			41.5	U							P
Lead			2.5	U							P
Magnesium			40.3	U							P
Manganese			1.1	U							P
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel			2.1	U							P
Potassium			300.3	U							P
Selenium			4.8	U							P
Silver			1.4	U							P
Sodium			426.0	U							P
Thallium			4.8	U							P
Vanadium			1.9	U							P
Zinc			4.5	U							P
Molybdenu											NR

305562

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I053 _____ Batch No.: 7057__

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium	42.2	U	42.2	U	42.2	U	42.2	U			P
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium	40.3	U	40.3	U	40.3	U	40.3	U			P
Manganese											NR
Mercury			0.1	U	0.1	U	0.1	U			CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium	-694.6	B	426.0	U	426.0	U	426.0	U			P
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

305563

BLANKS

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I053 _____ Batch No.: 7057__

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			0.1	U	0.1	U					CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

305564

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._

Lab Code: 12543_ Lab Job No.: I053 Batch No.: 7057__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

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	250000.0	255383.1	102.2	250000.0	243382.2	97.4	253158.9	101.3	P
Antimony	1000.0	1036.59	103.7	1000.0	990.22	99.0	1040.08	104.0	P
Arsenic	5000.0	5025.05	100.5	5000.0	4852.64	97.1	5120.91	102.4	P
Barium	10000.0	10194.14	101.9	10000.0	9710.27	97.1	10053.28	100.5	P
Beryllium	1000.0	980.01	98.0	1000.0	952.68	95.3	994.28	99.4	P
Cadmium	2500.0	2512.21	100.5	2500.0	2468.01	98.7	2576.06	103.0	P
Calcium	125000.0	126858.6	101.5	125000.0	124606.0	99.7	128998.4	103.2	P
Chromium	5000.0	5182.50	103.6	5000.0	5052.87	101.1	5272.76	105.5	P
Cobalt	2500.0	2534.92	101.4	2500.0	2474.03	99.0	2564.07	102.6	P
Copper	12500.0	12734.04	101.9	12500.0	11966.27	95.7	12726.36	101.8	P
Iron	100000.0	98826.44	98.8	100000.0	97094.16	97.1	97768.59	97.8	P
Lead	10000.0	10205.49	102.1	10000.0	10028.81	100.3	10416.56	104.2	P
Magnesium	125000.0	127601.1	102.1	125000.0	126003.6	100.8	130139.0	104.1	P
Manganese	5000.0	5134.32	102.7	5000.0	4973.36	99.5	5206.42	104.1	P
Mercury	5.0	4.95	99.0	5.0	4.90	98.0	4.85	97.0	CV
Nickel	2500.0	2510.76	100.4	2500.0	2456.47	98.3	2552.85	102.1	P
Potassium	50000.0	49985.62	100.0	50000.0	47894.91	95.8	50347.18	100.7	P
Selenium	5000.0	4992.64	99.9	5000.0	4810.61	96.2	5051.20	101.0	P
Silver	1250.0	1274.73	102.0	1250.0	1214.44	97.2	1272.62	101.8	P
Sodium	125000.0	127559.7	102.0	125000.0	122866.1	98.3	127585.3	102.1	P
Thallium	5000.0	4998.76	100.0	5000.0	4850.36	97.0	5040.94	100.8	P
Vanadium	2500.0	2556.43	102.3	2500.0	2462.19	98.5	2598.41	103.9	P
Zinc	2500.0	2560.55	102.4	2500.0	2473.07	98.9	2599.42	104.0	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

305565

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._

Lab Code: 12543_ Lab Job No.: I053 Batch No.: 7057__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

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				250000.0	241884.2	96.8	247899.3	99.2	P
Antimony				1000.0	987.44	98.7	1011.46	101.1	P
Arsenic				5000.0	4801.35	96.0	4938.92	98.8	P
Barium				10000.0	9623.36	96.2	9817.74	98.2	P
Beryllium				1000.0	928.34	92.8	955.85	95.6	P
Cadmium				2500.0	2385.94	95.4	2463.82	98.6	P
Calcium				125000.0	120241.5	96.2	123734.1	99.0	P
Chromium				5000.0	4928.52	98.6	5067.32	101.3	P
Cobalt				2500.0	2397.76	95.9	2470.95	98.8	P
Copper				12500.0	12172.52	97.4	12404.21	99.2	P
Iron				100000.0	92041.95	92.0	94996.65	95.0	P
Lead				10000.0	9716.70	97.2	9983.42	99.8	P
Magnesium				125000.0	120738.2	96.6	124506.9	99.6	P
Manganese				5000.0	4874.99	97.5	5009.34	100.2	P
Mercury				5.0	4.81	96.2	4.83	96.6	CV
Nickel				2500.0	2372.18	94.9	2446.21	97.8	P
Potassium				50000.0	48429.10	96.9	49108.38	98.2	P
Selenium				5000.0	4745.57	94.9	4866.17	97.3	P
Silver				1250.0	1215.66	97.3	1241.49	99.3	P
Sodium				125000.0	123315.2	98.7	125538.8	100.4	P
Thallium				5000.0	4709.01	94.2	4836.90	96.7	P
Vanadium				2500.0	2439.19	97.6	2502.26	100.1	P
Zinc				2500.0	2438.89	97.6	2507.99	100.3	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

305566

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._

Lab Code: 12543_ Lab Job No.: I053 Batch No.: 7057__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium	125000.0	125838.9	100.7	125000.0	124670.3	99.7	126042.7	100.8	P
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium	125000.0	126376.4	101.1	125000.0	125633.2	100.5	126944.2	101.6	P
Manganese									NR
Mercury				5.0	4.81	96.2	4.72	94.4	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium	125000.0	123803.5	99.0	125000.0	124214.1	99.4	126940.6	101.6	P
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

305567

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._

Lab Code: 12543_ Lab Job No.: I053 Batch No.: 7057__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium				125000.0	126032.5	100.8			P
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				125000.0	126507.0	101.2			P
Manganese									NR
Mercury				5.0	4.68	93.6	4.67	93.4	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium				125000.0	126152.9	100.9			P
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

305568

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: I053 _____ Batch No.: 7057__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	4.60	92.0	4.65	93.0	CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

305569

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _____ _____ Batch No.: 7057__

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury				5.0	4.63	92.6			CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

305570

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I053 _____ Batch No.: 7057__

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT__

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	500000	500000	498780	512339.2	102.5	495535	503751.2	100.8
Antimony		100		102.7	102.7		96.1	96.1
Arsenic		100		105.3	105.3		101.9	101.9
Barium		100		109.6	109.6		107.8	107.8
Beryllium		100		100.9	100.9		98.4	98.4
Cadmium		100		99.0	99.0		96.3	96.3
Calcium	500000	500000	457879	473144.2	94.6	454978	463821.8	92.8
Chromium		100		99.4	99.4		97.2	97.2
Cobalt		100		98.8	98.8		96.6	96.6
Copper		100		101.0	101.0		97.4	97.4
Iron	200000	200000	190084	192028.5	96.0	181706	190572.6	95.3
Lead		100		95.3	95.3		93.1	93.1
Magnesium	500000	500000	507138	524773.6	105.0	503269	513979.9	102.8
Manganese		100		101.7	101.7		99.2	99.2
Mercury								
Nickel		100		96.9	96.9		94.3	94.3
Potassium		10000		10971.5	109.7		10798.7	108.0
Selenium		100		91.4	91.4		88.2	88.2
Silver		100		106.3	106.3		104.3	104.3
Sodium		10000		12294.1	122.9		12159.7	121.6
Thallium		100		96.0	96.0		93.8	93.8
Vanadium		100		105.2	105.2		102.7	102.7
Zinc		100		104.6	104.6		101.9	101.9

305571

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: _I053 _____ Batch No.: 7057__

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT__

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	500000	500000	497833	490077.5	98.0	498440	496120.2	99.2
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium	500000	500000	448712	446514.6	89.3	458176	449485.6	89.9
Chromium								
Cobalt								
Copper								
Iron	200000	200000	188470	185215.7	92.6	195498	189634.9	94.8
Lead								
Magnesium	500000	500000	498740	495447.6	99.1	511799	499611.8	99.9
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium		10000		11706.6	117.1		11727.7	117.3
Thallium								
Vanadium								
Zinc		100		97.1	97.1		96.6	96.6

305572

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

BSS101998

Lab Name: ENVIROTECH RESEARCH INC.

Lab Code: 12543 Lab Job No.: I053 Batch No.: 7057

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

% Solids for Sample: 100.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	172.2214		5.8200	U	200.00	86.1		P
Antimony	75-125	42.3735		0.4600	U	50.00	84.7		P
Arsenic	75-125	167.8151		0.3800	U	200.00	83.9		P
Barium	75-125	173.0703		0.1400	U	200.00	86.5		P
Beryllium	75-125	4.5513		0.0200	U	5.00	91.0		P
Cadmium	75-125	4.5022		0.0400	U	5.00	90.0		P
Calcium	75-125	1801.2402		13.0030	B	2000.00	89.4		P
Chromium	75-125	17.9916		0.1000	U	20.00	90.0		P
Cobalt	75-125	45.1071		0.1200	U	50.00	90.2		P
Copper	75-125	21.6587		0.3500	U	25.00	86.6		P
Iron	75-125	87.4833		4.1500	U	100.00	87.5		P
Lead	75-125	45.3597		0.2500	U	50.00	90.7		P
Magnesium	75-125	1756.9176		4.0300	U	2000.00	87.8		P
Manganese	75-125	44.1327		0.1100	U	50.00	88.3		P
Mercury	75-125	0.1585		0.0167	U	0.17	93.2		CV
Nickel	75-125	45.0001		0.2100	U	50.00	90.0		P
Potassium	75-125	1618.4934		33.6715	B	2000.00	79.2		P
Selenium	75-125	178.3651		0.4800	U	200.00	89.2		P
Silver	75-125	4.3020		0.1400	U	5.00	86.0		P
Sodium	75-125	1984.8141		42.6000	U	2000.00	99.2		P
Thallium	75-125	180.1082		0.4800	U	200.00	90.1		P
Vanadium	75-125	44.2878		0.1900	U	50.00	88.6		P
Zinc	75-125	44.8476		0.4500	U	50.00	89.7		P
Molybdenu									NR

Comments:

305573

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

88683MS

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I053 Batch No.: 7057

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

% Solids for Sample: 95.9

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		3714.7359		3040.3637		204.46	329.8		P
Antimony	75-125	29.4610		0.9405	U	51.12	57.6	N	P
Arsenic	75-125	174.4787		4.5493		204.46	83.1		P
Barium	75-125	186.5702		15.6605	B	204.46	83.6		P
Beryllium	75-125	5.0964		0.5232		5.11	89.5		P
Cadmium	75-125	4.4123		0.0818	U	5.11	86.3		P
Calcium		92833.5981		101833.9140		2044.61	-440.2		P
Chromium	75-125	24.3916		6.1275		20.45	89.3		P
Cobalt	75-125	48.0609		5.2684	B	51.12	83.7		P
Copper	75-125	35.4415		11.9933		25.56	91.7		P
Iron		13886.6121		14234.3593		102.23	-340.2		P
Lead	75-125	49.5647		6.5800		51.12	84.1		P
Magnesium		51971.6698		57971.3734		2044.61	-293.4		P
Manganese		324.9020		276.3066		51.12	95.1		P
Mercury	75-125	0.1409		0.0174	U	0.17	82.9		CV
Nickel	75-125	51.9320		9.6802		51.12	82.7		P
Potassium	75-125	2894.5118		876.4135	B	2044.61	98.7		P
Selenium	75-125	175.9570		0.9814	U	204.46	86.1		P
Silver	75-125	4.3540		0.2862	U	5.11	85.2		P
Sodium	75-125	2146.8650		137.6238	B	2044.61	98.3		P
Thallium	75-125	173.1640		0.9814	U	204.46	84.7		P
Vanadium	75-125	56.7350		9.9049	B	51.12	91.6		P
Zinc	75-125	78.1973		38.1901		51.12	78.3		P
Molybdenu									NR

Comments:

305574

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

88683MSD

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I053 Batch No.: 7057

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

% Solids for Sample: 95.9

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		3856.3114		3040.3637		212.81	383.4		P
Antimony	75-125	32.0483		0.9405	U	53.20	60.2	N	P
Arsenic	75-125	179.0728		4.5493		212.81	82.0		P
Barium	75-125	202.0968		15.6605	B	212.81	87.6		P
Beryllium	75-125	5.3108		0.5232		5.32	90.0		P
Cadmium	75-125	4.7186		0.0818	U	5.32	88.7		P
Calcium		92595.4906		101833.9140		2128.07	-434.1		P
Chromium	75-125	26.1452		6.1275		21.28	94.1		P
Cobalt	75-125	50.3367		5.2684	B	53.20	84.7		P
Copper	75-125	32.7233		11.9933		26.60	77.9		P
Iron		13601.4692		14234.3593		106.40	-594.8		P
Lead	75-125	51.9534		6.5800		53.20	85.3		P
Magnesium		52505.6330		57971.3734		2128.07	-256.8		P
Manganese		355.4293		276.3066		53.20	148.7		P
Mercury	75-125	0.1529		0.0174	U	0.17	89.9		CV
Nickel	75-125	54.5634		9.6802		53.20	84.4		P
Potassium	75-125	2859.2718		876.4135	B	2128.07	93.2		P
Selenium	75-125	184.1280		0.9814	U	212.81	86.5		P
Silver	75-125	4.7324		0.2862	U	5.32	89.0		P
Sodium	75-125	2313.4958		137.6238	B	2128.07	102.2		P
Thallium	75-125	184.7971		0.9814	U	212.81	86.8		P
Vanadium	75-125	58.4525		9.9049	B	53.20	91.3		P
Zinc	75-125	88.2569		38.1901		53.20	94.1		P
Molybdenu									NR

Comments:

305575

LAB SAMPLE NO.

DUPLICATES

LCSS238AD

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I053 Batch No.: 7057

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

% Solids for Sample: 100.0 % Solids for Duplicate: 100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		4369.4196		4109.0271		6.1		P
Antimony		70.4502		64.7598		8.4		P
Arsenic		65.7429		61.5646		6.6		P
Barium	20.4	88.0278		84.6521		3.9		P
Beryllium		35.8931		34.1048		5.1		P
Cadmium		62.7871		59.4100		5.5		P
Calcium	510.2	1848.9720		1763.6512		4.7		P
Chromium		69.4343		65.5467		5.8		P
Cobalt		103.7476		99.0194		4.7		P
Copper		55.5869		52.4627		5.8		P
Iron		9752.4888		9116.0058		6.7		P
Lead		130.9290		123.6944		5.7		P
Magnesium	510.2	1562.3514		1474.4412		5.8		P
Manganese		205.0980		192.8708		6.1		P
Mercury		0.9767		0.9367		4.2		CV
Nickel		110.7892		105.6446		4.8		P
Potassium		3017.3700		2858.3975		5.4		P
Selenium		84.9020		80.1275		5.8		P
Silver		114.1873		108.9110		4.7		P
Sodium	510.2	982.8382	B	1034.7769	B	5.1		P
Thallium		116.6716		110.8179		5.1		P
Vanadium		51.8880		48.3958		7.0		P
Zinc		72.7304		68.3440		6.2		P
Molybdenu								NR

305576

LAB SAMPLE NO.

DUPLICATES

88683D

Lab Name: ENVIROTECH_RESEARCH_INC._

Lab Code: 12543_ Lab Job No.: __I053 Batch No.: 7057__

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

% Solids for Sample: _95.9 % Solids for Duplicate: __95.9

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3040.3637		3480.1543		13.5		P
Antimony		0.9405	U	0.9593	U			P
Arsenic		4.5493		4.5898		0.9		P
Barium		15.6605	B	18.2367	B	15.2		P
Beryllium	0.2	0.5232		0.5858		11.3		P
Cadmium		0.0818	U	0.0834	U			P
Calcium		101833.9140		100209.8217		1.6		P
Chromium		6.1275		7.6724		22.4	*	P
Cobalt	5.1	5.2684	B	5.2859	B	0.3		P
Copper	2.6	11.9933		12.0140		0.2		P
Iron		14234.3593		12450.3527		13.4		P
Lead		6.5800		5.7318		13.8		P
Magnesium		57971.3734		56042.8217		3.4		P
Manganese		276.3066		352.3149		24.2	*	P
Mercury		0.0174	U	0.0174	U			CV
Nickel	4.1	9.6802		7.8911	B	20.4		P
Potassium	511.2	876.4135	B	1247.0334		34.9		P
Selenium		0.9814	U	1.0010	U			P
Silver		0.2862	U	0.2920	U			P
Sodium		137.6238	B	114.1322	B	18.7		P
Thallium		0.9814	U	1.0010	U			P
Vanadium	5.1	9.9049	B	12.2776		21.4		P
Zinc		38.1901		30.7577		21.6	*	P
Molybdenu								NR

305577

LAB SAMPLE NO.

DUPLICATES

88683MS/MS

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I053 Batch No.: 7057

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

% Solids for Sample: 95.9 % Solids for Duplicate: 95.9

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		3714.7359		3856.3114		3.7		P
Antimony		29.4610		32.0483		8.4		P
Arsenic		174.4787		179.0728		2.6		P
Barium		186.5702		202.0968		8.0		P
Beryllium		5.0964		5.3108		4.1		P
Cadmium		4.4123		4.7186		6.7		P
Calcium		92833.5981		92595.4906		0.3		P
Chromium		24.3916		26.1452		6.9		P
Cobalt		48.0609		50.3367		4.6		P
Copper		35.4415		32.7233		8.0		P
Iron		13886.6121		13601.4692		2.1		P
Lead		49.5647		51.9534		4.7		P
Magnesium		51971.6698		52505.6330		1.0		P
Manganese		324.9020		355.4293		9.0		P
Mercury	0.0	0.1409		0.1529		8.2		CV
Nickel		51.9320		54.5634		4.9		P
Potassium		2894.5118		2859.2718		1.2		P
Selenium		175.9570		184.1280		4.5		P
Silver	1.0	4.3540		4.7324		8.3		P
Sodium	511.2	2146.8650		2313.4958		7.5		P
Thallium		173.1640		184.7971		6.5		P
Vanadium		56.7350		58.4525		3.0		P
Zinc		78.1973		88.2569		12.1		P
Molybdenu								NR

305578

LABORATORY CONTROL SAMPLE

Lab Name: ENVIROTECH_RESEARCH_INC._ _____

Lab Code: 12543_ Lab Job No.: __I053 _____ Batch No.: 7057__

Solid LCS Source: ERA_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				5370.0	4369.4		2850.0	7890.0	81.4
Antimony				59.6	70.5		12.0	107.0	118.3
Arsenic				67.1	65.7		41.4	92.7	97.9
Barium				106.0	88.0		59.7	152.0	83.0
Beryllium				41.6	35.9		29.2	53.9	86.3
Cadmium				71.1	62.8		39.3	103.0	88.3
Calcium				2250.0	1849.0		1210.0	3290.0	82.2
Chromium				76.4	69.4		53.0	99.9	90.8
Cobalt				116.0	103.7		73.0	158.0	89.4
Copper				63.9	55.6		39.4	88.5	87.0
Iron				8070.0	9752.5		3470.0	12700.0	120.8
Lead				147.0	130.9		88.1	206.0	89.0
Magnesium				1830.0	1562.4		1160.0	2500.0	85.4
Manganese				225.0	205.1		145.0	305.0	91.2
Mercury				1.3	1.0		0.7	2.0	76.9
Nickel				120.0	110.8		80.6	160.0	92.3
Potassium				4010.0	3017.4		2340.0	5680.0	75.2
Selenium				93.7	84.9		61.3	126.0	90.6
Silver				131.0	114.2		74.1	188.0	87.2
Sodium				1050.0	982.8	B	540.0	1560.0	93.6
Thallium				129.0	116.7		73.8	184.0	90.5
Vanadium				56.9	51.9		38.8	75.0	91.2
Zinc				83.0	72.7		50.7	115.0	87.6
Molybdenu									

305579

LAB SAMPLE NO.

ICP SERIAL DILUTION

88683L

Lab Name: ENVIROTECH_RESEARCH_INC.

Lab Code: 12543 Lab Job No.: I053 Batch No.: 7057

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	14870.12		14554.13		2.1		P
Antimony	4.60	U	23.00	U			P
Arsenic	22.25		32.71		47.0		P
Barium	76.59	B	74.22	B	3.1		P
Beryllium	2.56		2.62	B	2.3		P
Cadmium	0.40	U	2.00	U			P
Calcium	99611.90		103964.27		4.4		P
Chromium	29.97		32.19	B	7.4		P
Cobalt	25.77	B	26.08	B	1.2		P
Copper	58.66		50.89	B	13.2		P
Iron	69618.83		73067.63		5.0		P
Lead	32.18		25.52		20.7		P
Magnesium	56706.44		57627.08		1.6		P
Manganese	1351.39		1373.98		1.7		P
Mercury							NR
Nickel	47.34		49.52	B	4.6		P
Potassium	4286.45	B	5336.62	B	24.5		P
Selenium	4.80	U	24.00	U			P
Silver	1.40	U	7.00	U			P
Sodium	673.10	B	2130.00	U	100.0		P
Thallium	4.80	U	24.00	U			P
Vanadium	48.44	B	48.14	B	0.6		P
Zinc	186.78		192.02		2.8		P

305580

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/20/98 End Date: 10/20/98

Lab 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	MO
D1-BLANK	1.00	1438		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
STD2	1.00	1444		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
STD3	1.00	1449		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
STD4	1.00	1454		X	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	1501																									
ICV/CCV	1.00	1507		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB/CCB	1.00	1512		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSA	1.00	1517		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	1523		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	1528																									
MCL	1.00	1533																									
SS101998	1.00	1539		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
BS101998	1.00	1544		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
LCSS238A	2.00	1549		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CSS238AD	2.00	1555		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
88683D	2.00	1600		X	X	X	X	X	X		X	X	X	X	X		X		X	X	X	X		X	X	X	
88683	2.00	1605		X	X	X	X	X	X		X	X	X	X	X		X		X	X	X	X		X	X	X	
CCV	1.00	1611		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	1616		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
88683L	2.00	1622		X	X	X	X	X	X		X	X	X	X	X		X		X	X	X	X		X	X	X	
88683MS	2.00	1627		X	X	X	X	X	X		X	X	X	X	X		X		X	X	X	X		X	X	X	
88683MSD	2.00	1632		X	X	X	X	X	X		X	X	X	X	X		X		X	X	X	X		X	X	X	
ZZZZZZ	2.00	1638																									
90277	2.00	1643			X	X		X	X		X		X		X				X		X	X		X		X	
90278	2.00	1648			X	X		X	X		X		X		X				X		X	X		X		X	
90279	2.00	1654			X	X		X	X		X		X		X				X		X	X		X		X	
90280	2.00	1659			X	X		X	X		X		X		X				X		X	X		X		X	
90281	2.00	1704			X	X		X	X		X		X		X				X		X	X		X		X	
90282	2.00	1710			X	X		X	X		X		X		X				X		X	X		X		X	
CCV	1.00	1715		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	1720		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
90283	2.00	1726			X	X		X	X		X		X		X				X		X	X		X		X	

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ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/20/98 End Date: 10/20/98

Lab 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	MO
90284	2.00	1731			X	X		X	X		X		X		X				X		X	X		X		X	
90285	2.00	1736			X	X		X	X		X		X		X				X		X	X		X		X	
90286	2.00	1742			X	X		X	X		X		X		X				X		X	X		X		X	
90289	2.00	1747			X	X		X	X		X		X		X				X		X	X		X		X	
90290	2.00	1752			X	X		X	X		X		X		X				X		X	X		X		X	
89341	2.00	1758			X	X		X	X		X		X		X				X		X	X		X		X	
89343	2.00	1803			X	X		X	X		X		X		X				X		X	X		X		X	
89310	2.00	1808		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
88666	2.00	1814		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
CCV	1.00	1819		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	1824		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
88677	2.00	1830		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	
88684	2.00	1835													X												
88685	2.00	1840													X												
ICSA	1.00	1846		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	1851		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	1856		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	1902		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

305582

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/21/98 End Date: 10/21/98

Lab 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	MO
D1-BLANK	1.00	1156		X						X				X		X							X			X	
STD2	1.00	1200		X						X				X		X										X	
STD3	1.00	1204		X						X				X		X										X	
STD4	1.00	1208		X						X				X		X							X			X	
ZZZZZZ	1.00	1212																									
ICV/CCV	1.00	1216								X						X							X				
ICB/CCB	1.00	1221								X						X							X				
ICSA	1.00	1225								X						X							X				
ICSAB	1.00	1229								X						X							X				
ZZZZZZ	1.00	1233																									
MCL	1.00	1237																									
SS101998	1.00	1241																					X				
BS101998	1.00	1246																					X				
LCSS238A	2.00	1250																					X				
CSS238AD	2.00	1254																					X				
88683D	2.00	1258																					X				
88683	2.00	1302																					X				
CCV	1.00	1307								X						X							X				
CCB	1.00	1311								X						X							X				
88683L	2.00	1315																					X				
88683MS	2.00	1319																					X				
88683MSD	2.00	1323																					X				
ZZZZZZ	2.00	1327																									
ZZZZZZ	1.00	1332																									
88683D	10.00	1336								X						X											
88683	10.00	1340								X						X											
88683L	10.00	1344								X						X											
88683MS	10.00	1348								X						X											
88683MSD	10.00	1353								X						X											
CCV	1.00	1357								X						X							X				
CCB	1.00	1401								X						X							X				
ZZZZZZ	10.00	1405																									

305583

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 10/21/98 End Date: 10/21/98

Lab 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	MO
89310	2.00	1409																					X				
88666	2.00	1414																					X				
88677	2.00	1418																					X				
ICSA	1.00	1422								X						X							X				
ICSAB	1.00	1426								X						X							X				
CCV	1.00	1430								X						X							X				
CCB	1.00	1434								X						X							X				

305584

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/20/98 End Date: 10/20/98

Lab 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	MO
STD1	1.00	0931																X									
STD2	1.00	0934																X									
STD3	1.00	0937																X									
STD4	1.00	0940																X									
STD5	1.00	0943																X									
STD6	1.00	0946																X									
ICV/ACCV	1.00	0949																X									
ICB/CCB	1.00	0952																X									
ZZZZZZ	1.00	0955																									
ZZZZZZ	1.00	0958																									
ZZZZZZ	2.00	1001																									
ZZZZZZ	2.00	1004																									
ZZZZZZ	1.00	1006																									
ZZZZZZ	1.00	1010																									
ZZZZZZ	1.00	1014																									
ZZZZZZ	1.00	1018																									
ZZZZZZ	1.00	1021																									
ZZZZZZ	1.00	1024																									
CCV	1.00	1027																X									
CCB	1.00	1030																X									
ZZZZZZ	1.00	1032																									
ZZZZZZ	1.00	1036																									
ZZZZZZ	1.00	1039																									
ZZZZZZ	1.00	1041																									
ZZZZZZ	1.00	1045																									
ZZZZZZ	1.00	1048																									
ZZZZZZ	1.00	1051																									
ZZZZZZ	1.00	1054																									
ZZZZZZ	1.00	1057																									
ZZZZZZ	1.00	1100																									
CCV	1.00	1103																X									
CCB	1.00	1105																X									

305585

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/20/98 End Date: 10/20/98

Lab 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	MO
ZZZZZZ	1.00	1108																									
ZZZZZZ	1.00	1111																									
ZZZZZZ	1.00	1114																									
ZZZZZZ	1.00	1117																									
ZZZZZZ	1.00	1120																									
ZZZZZZ	1.00	1123																									
ZZZZZZ	20.00	1128																									
ZZZZZZ	20.00	1131																									
ZZZZZZ	20.00	1134																									
ZZZZZZ	20.00	1136																									
CCV	1.00	1139																X									
CCB	1.00	1142																X									
ZZZZZZ	10.00	1145																									
ZZZZZZ	1.00	1148																									
ZZZZZZ	20.00	1151																									
ZZZZZZ	1.00	1154																									
ZZZZZZ	50.00	1157																									
ZZZZZZ	1.00	1200																									
CCV	1.00	1203																X									
CCB	1.00	1206																X									
ZZZZZZ	1.00	1209																									
ZZZZZZ	1.00	1212																									
ZZZZZZ	2.00	1215																									
ZZZZZZ	2.00	1218																									
ZZZZZZ	1.00	1221																									
ZZZZZZ	1.00	1224																									
ZZZZZZ	1.00	1227																									
ZZZZZZ	1.00	1230																									
ZZZZZZ	1.00	1232																									
ZZZZZZ	1.00	1235																									
CCV	1.00	1238																X									
CCB	1.00	1241																X									

305586

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/20/98 End Date: 10/20/98

Lab 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	MO
ZZZZZZ	1.00	1244																									
ZZZZZZ	1.00	1247																									
ZZZZZZ	1.00	1250																									
ZZZZZZ	1.00	1253																									
ZZZZZZ	1.00	1256																									
ZZZZZZ	1.00	1259																									
ZZZZZZ	1.00	1302																									
ZZZZZZ	1.00	1305																									
ZZZZZZ	1.00	1308																									
ZZZZZZ	1.00	1311																									
CCV	1.00	1314																X									
CCB	1.00	1317																X									
ZZZZZZ	1.00	1320																									
ZZZZZZ	1.00	1323																									
ZZZZZZ	1.00	1326																									
ZZZZZZ	1.00	1329																									
ZZZZZZ	1.00	1331																									
ZZZZZZ	1.00	1334																									
ZZZZZZ	1.00	1337																									
ZZZZZZ	1.00	1340																									
CCV	1.00	1343																X									
CCB	1.00	1346																X									
BS101998	1.00	1349																X									
SS101998	1.00	1352																X									
LCSS238A	2.00	1355																X									
CSS238AD	2.00	1358																X									
88683	1.00	1400																X									
88683D	1.00	1403																X									
88683MS	1.00	1406																X									
88683MSD	1.00	1409																X									
90277	2.00	1412																									
90278	1.00	1415																X									

305587

ANALYSIS RUN LOG

Lab Name: ENVIROTECH_RESEARCH_INC._ Contract: _____

Lab Code: 12543_ Case No.: _____ SAS No.: _____ SDG No.:7057__

Instrument ID Number: LEEMAN PS200_ Method: CV

Start Date: 10/20/98 End Date: 10/20/98

Lab 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	MO
CCV	1.00	1418																X									
CCB	1.00	1421																X									
90279	200.00	1424																X									
90280	1.00	1427																									
90281	1.00	1430																									
90282	1.00	1433																X									
90283	1.00	1436																X									
90284	1.00	1438																X									
90285	1.00	1441																									
90286	1.00	1444																									
90289	1.00	1447																									
90290	1.00	1450																X									
CCV	1.00	1453																X									
CCB	1.00	1456																X									
89341	1.00	1500																X									
89343	1.00	1503																X									
89310	1.00	1505																X									
88666	1.00	1508																									
88677	1.00	1511																									
90277	1.00	1514																X									
90280	10.00	1517																X									
90281	1.00	1520																X									
90285	5.00	1523																X									
90286	2.00	1526																X									
CCV	1.00	1529																X									
CCB	1.00	1532																X									
90289	1.00	1535																X									
88666	2.00	1537																X									
88677	1.00	1540																X									
CCV	1.00	1543																X									
CCB	1.00	1546																X									

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File : 7057T1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flag
1	STD1-BLANK		3		1.0	10/20/98	14:38:00	
2	STD2		3		1.0	10/20/98	14:44:00	
3	STD3		3		1.0	10/20/98	14:49:00	
4	STD4		3		1.0	10/20/98	14:54:00	
5	HSA		0		1.0	10/20/98	15:01:00	
6	ICV/CCV1		0		1.0	10/20/98	15:07:00	
7	ICB/CCB1		0		1.0	10/20/98	15:12:00	
8	ICSA1		0		1.0	10/20/98	15:17:00	
9	ICSAB1		0		1.0	10/20/98	15:23:00	
10	INT-20		0		1.0	10/20/98	15:28:00	
11	MCL		0		1.0	10/20/98	15:33:00	
12	BSS101998		0		1.0	10/20/98	15:39:00	
13	PBS101998		0		1.0	10/20/98	15:44:00	
14	LCSS238A		0		2.0	10/20/98	15:49:00	
15	LCSS238AD		0		2.0	10/20/98	15:55:00	
16	88683D		0		2.0	10/20/98	16:00:00	
17	88683		0		2.0	10/20/98	16:05:00	
18	CCV2		0		1.0	10/20/98	16:11:00	
19	CCB2		0		1.0	10/20/98	16:16:00	
20	88683L		0		2.0	10/20/98	16:22:00	
21	88683MS		0		2.0	10/20/98	16:27:00	
22	88683MSD		0		2.0	10/20/98	16:32:00	
23	88683A		0		2.0	10/20/98	16:38:00	
24	90277		0		2.0	10/20/98	16:43:00	
25	90278		0		2.0	10/20/98	16:48:00	
26	90279		0		2.0	10/20/98	16:54:00	
27	90280		0		2.0	10/20/98	16:59:00	
28	90281		0		2.0	10/20/98	17:04:00	
29	90282		0		2.0	10/20/98	17:10:00	
30	CCV3		0		1.0	10/20/98	17:15:00	
31	CCB3		0		1.0	10/20/98	17:20:00	
32	90283		0		2.0	10/20/98	17:26:00	
33	90284		0		2.0	10/20/98	17:31:00	
34	90285		0		2.0	10/20/98	17:36:00	
35	90286		0		2.0	10/20/98	17:42:00	
36	90289		0		2.0	10/20/98	17:47:00	
37	90290		0		2.0	10/20/98	17:52:00	
38	89341		0		2.0	10/20/98	17:58:00	
39	89343		0		2.0	10/20/98	18:03:00	
40	89310		0		2.0	10/20/98	18:08:00	
41	88666		0		2.0	10/20/98	18:14:00	
42	CCV4		0		1.0	10/20/98	18:19:00	
43	CCB4		0		1.0	10/20/98	18:24:00	
44	88677		0		2.0	10/20/98	18:30:00	
45	88684		0		2.0	10/20/98	18:35:00	
46	88685		0		2.0	10/20/98	18:40:00	
47	ICSA2		0		1.0	10/20/98	18:46:00	
48	ICSAB2		0		1.0	10/20/98	18:51:00	
49	CCV5		0		1.0	10/20/98	18:56:00	
50	CCB5		0		1.0	10/20/98	19:02:00	

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Analysis Report Summary Wed 10-21-98 09:31:56 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	HSA	Y102098	SW846	10/20/98	15:01		S	CONC
2	ICV/CCV1	Y102098	SW846	10/20/98	15:07		S	CONC
3	ICB/CCB1	Y102098	SW846	10/20/98	15:12		S	CONC
4	ICSA1	Y102098	SW846	10/20/98	15:17		S	CONC
5	ICSAB1	Y102098	SW846	10/20/98	15:23		S	CONC
6	INT-20	Y102098	SW846	10/20/98	15:28		S	CONC
7	MCL	Y102098	SW846	10/20/98	15:33		S	CONC
8	BSS101998	Y102098	SW846	10/20/98	15:39		S	CONC
9	PBS101998	Y102098	SW846	10/20/98	15:44		S	CONC
10	LCSS238A-2X	Y102098	SW846	10/20/98	15:49		S	CONC
11	LCSS238AD-2X	Y102098	SW846	10/20/98	15:55		S	CONC
12	88683D-2X	Y102098	SW846	10/20/98	16:00		S	CONC
13	88683-2X	Y102098	SW846	10/20/98	16:05		S	CONC
14	CCV2	Y102098	SW846	10/20/98	16:11		S	CONC
15	CCB2	Y102098	SW846	10/20/98	16:16		S	CONC
16	88683L-2X	Y102098	SW846	10/20/98	16:22		S	CONC
17	88683MS-2X	Y102098	SW846	10/20/98	16:27		S	CONC
18	88683MSD-2X	Y102098	SW846	10/20/98	16:32		S	CONC
19	88683A-2X	Y102098	SW846	10/20/98	16:38		S	CONC
20	90277-2X	Y102098	SW846	10/20/98	16:43		S	CONC
21	90278-2X	Y102098	SW846	10/20/98	16:48		S	CONC
22	90279-2X	Y102098	SW846	10/20/98	16:54		S	CONC
23	90280-2X	Y102098	SW846	10/20/98	16:59		S	CONC
24	90281-2X	Y102098	SW846	10/20/98	17:04		S	CONC
25	90282-2X	Y102098	SW846	10/20/98	17:10		S	CONC
26	CCV3	Y102098	SW846	10/20/98	17:15		S	CONC
27	CCB3	Y102098	SW846	10/20/98	17:20		S	CONC
28	90283-2X	Y102098	SW846	10/20/98	17:26		S	CONC
29	90284-2X	Y102098	SW846	10/20/98	17:31		S	CONC
30	90285-2X	Y102098	SW846	10/20/98	17:36		S	CONC
31	90286-2X	Y102098	SW846	10/20/98	17:42		S	CONC
32	90289-2X	Y102098	SW846	10/20/98	17:47		S	CONC
33	90290-2X	Y102098	SW846	10/20/98	17:52		S	CONC
34	89341-2X	Y102098	SW846	10/20/98	17:58		S	CONC
35	89343-2X	Y102098	SW846	10/20/98	18:03		S	CONC
36	89310-2X	Y102098	SW846	10/20/98	18:08		S	CONC
37	88666-2X	Y102098	SW846	10/20/98	18:14		S	CONC
38	CCV4	Y102098	SW846	10/20/98	18:19		S	CONC
39	CCB4	Y102098	SW846	10/20/98	18:24		S	CONC
40	88677-2X	Y102098	SW846	10/20/98	18:30		S	CONC
41	88684-2X	Y102098	SW846	10/20/98	18:35		S	CONC
42	88685-2X	Y102098	SW846	10/20/98	18:40		S	CONC
43	ICSA2	Y102098	SW846	10/20/98	18:46		S	CONC
44	ICSAB2	Y102098	SW846	10/20/98	18:51		S	CONC
45	CCV5	Y102098	SW846	10/20/98	18:56		S	CONC
46	CCB5	Y102098	SW846	10/20/98	19:02		S	CONC

10/21/98

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#	Sample Name	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179
1	HSA	496400.	9824.	19670.	1957.	4807.	243200.
2	ICV/CCV1	255400.	5025.	10190.	980.0	2512.	126900.
3	ICB/CCB1	8.652	3.516	.2763	.0333	.2116	.2440
4	ICSA1	498800.	-4.341	4.340	-.0099	.9914	457900.
5	ICSAB1	512300.	105.3	109.6	100.9	98.98	473100.
6	INT-20	51.75	3.368	-2.473	11.37	.1531	81.44
7	MCL	213.0	27.63	51.06	4.188	5.199	5348.
8	BSS101998	1722.	1678.	1731.	45.51	45.02	18010.
9	PBS101998	-3.490	3.187	.0301	-.0191	-.0913	130.0
10	LCSS238A-2X	21410.	322.1	431.3	175.9	307.7	9060.
11	LCSS238AD-2X	19720.	295.5	406.3	163.7	285.2	8466.
12	88683D-2X	16690.	22.01	87.45	2.809	.2999	H443600.
13	88683-2X	14870.	22.25	76.59	2.559	.2907	H460100.
14	CCV2	243400.	4853.	9710.	952.7	2468.	124600.
15	CCB2	.2860	2.524	-.0451	.0778	.0124	9.161
16	88683L-2X	2911.	6.542	14.84	.5238	-.0602	98770.
17	88683MS-2X	18170.	853.4	912.5	24.93	21.58	H425100.
18	88683MSD-2X	18120.	841.5	949.7	24.96	22.17	H407100.
19	88683A-2X	16690.	1669.	1933.	51.15	47.46	H482900.
20	90277-2X	20300.	34.35	161.3	1.507	1.807	114600.
21	90278-2X	19230.	24.25	158.1	1.239	.7027	123600.
22	90279-2X	19780.	27.16	121.0	1.211	.8046	111100.
23	90280-2X	21580.	35.72	145.5	1.738	1.042	101900.
24	90281-2X	19790.	23.57	152.8	1.231	.7047	114400.
25	90282-2X	16200.	20.64	110.6	1.032	.8395	107600.
26	CCV3	253200.	5121.	10050.	994.3	2576.	129000.
27	CCB3	.0137	2.009	-.0871	.0133	-.0266	-2.123
28	90283-2X	21040.	17.15	140.0	1.219	1.070	166400.
29	90284-2X	20080.	27.31	156.6	1.294	1.173	122800.
30	90285-2X	18710.	22.69	155.4	1.218	1.289	104500.
31	90286-2X	21130.	34.24	138.4	1.455	2.140	161200.
32	90289-2X	34910.	14.28	122.4	1.023	-.0598	H253200.
33	90290-2X	31010.	19.68	172.8	1.530	.1419	H335600.
34	89341-2X	45320.	18.95	334.4	3.300	.6135	4192.
35	89343-2X	46420.	24.20	285.7	2.635	.2555	6141.
36	89310-2X	40770.	45.57	244.5	2.359	1.608	24120.
37	88666-2X	37390.	92.97	890.8	2.311	3.531	50670.
38	CCV4	241900.	4801.	9623.	928.3	2386.	120200.
39	CCB4	-2.548	2.318	-.1522	-.0024	-.0192	-3.060
40	88677-2X	26490.	13.19	341.0	1.826	4.830	20220.
41	88684-2X	24770.	10.95	88.37	2.244	-.1230	2408.
42	88685-2X	31430.	16.35	125.4	2.824	.9694	2734.
43	ICSA2	495500.	1.621	3.898	-.0613	.0781	455000.
44	ICSAB2	503800.	101.9	107.8	98.41	96.26	463800.
45	CCV5	247900.	4939.	9818.	955.8	2464.	123700.
46	CCB5	10.64	1.529	-.2124	.0029	-.1303	6.448

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#	Sample Name	Cr2677	Co2286	Cu3247	Fe2714	Mg2790	Mn2576
1	HSA	9783.	4840.	24960.	197200.	252100.	9731.
2	ICV/CCV1	5183.	2535.	12730.	98830.	127600.	5134.
3	ICB/CCB1	.0350	.2166	.0097	-1.935	7.510	.0107
4	ICSA1	.2431	.3535	-2.270	190100.	507100.	1.035
5	ICSAB1	99.37	98.82	101.0	192000.	524800.	101.7
6	INT-20	19990.	20390.	-6.960	-139.6	7.161	19160.
7	MCL	22.51	57.62	49.70	183.6	5282.	22.43
8	BSS101998	179.9	451.1	216.6	874.8	17570.	441.3
9	PBS101998	.9488	.5715	1.598	4.871	38.63	.1184
10	LCSS238A-2X	340.2	508.4	272.4	47790.	7656.	1005.
11	LCSS238AD-2X	314.6	475.3	251.8	43760.	7077.	925.8
12	88683D-2X	36.79	25.35	57.61	59700.	H270600.	1689.
13	88683-2X	29.97	25.77	58.66	69620.	H285500.	1351.
14	CCV2	5053.	2474.	11970.	97090.	126000.	4973.
15	CCB2	.4462	.5890	-.2300	-.4553	16.81	-.1423
16	88683L-2X	6.438	5.215	10.18	14610.	55920.	274.8
17	88683MS-2X	119.3	235.1	173.3	67920.	H259400.	1589.
18	88683MSD-2X	122.9	236.5	153.8	63910.	250000.	1670.
19	88683A-2X	222.5	499.3	290.0	71160.	H311300.	1830.
20	90277-2X	583.0	27.61	160.5	116000.	17320.	614.6
21	90278-2X	135.6	10.24	73.44	66740.	15320.	455.1
22	90279-2X	173.0	12.89	88.55	66610.	15700.	435.4
23	90280-2X	147.8	15.64	110.6	107400.	16600.	619.7
24	90281-2X	211.9	11.94	85.04	62690.	18730.	390.3
25	90282-2X	127.3	9.925	72.19	51830.	12480.	327.4
26	CCV3	5273.	2564.	12730.	97770.	130100.	5206.
27	CCB3	-.0022	.0850	.0629	3.300	6.267	-.1584
28	90283-2X	208.4	9.866	61.80	48790.	14090.	385.4
29	90284-2X	157.4	15.91	102.2	82660.	101100.	557.9
30	90285-2X	158.6	11.19	76.86	58130.	13440.	367.2
31	90286-2X	108.0	14.38	79.89	115600.	17240.	625.7
32	90289-2X	284.4	7.798	51.17	26720.	43260.	576.2
33	90290-2X	89.78	8.977	35.51	47940.	18910.	507.5
34	89341-2X	79.61	42.11	48.80	90970.	8959.	3953.
35	89343-2X	83.40	31.97	46.15	89420.	8048.	2196.
36	89310-2X	54.08	35.14	126.0	133100.	11160.	2006.
37	88666-2X	64.16	21.56	222.6	63600.	9711.	1108.
38	CCV4	4929.	2398.	12170.	92040.	120700.	4875.
39	CCB4	-.0501	.2080	-.0516	1.174	6.130	-.1106
40	88677-2X	192.7	74.28	303.7	119400.	16370.	1041.
41	88684-2X	40.79	17.04	47.20	58860.	6876.	1478.
42	88685-2X	38.62	25.63	54.71	87230.	9949.	746.4
43	ICSA2	-.0301	.3850	-2.602	181700.	503300.	1.009
44	ICSAB2	97.23	96.60	97.43	190600.	514000.	99.16
45	CCV5	5067.	2471.	12400.	95000.	124500.	5009.
46	CCB5	.1209	-.1060	-.1846	.6364	17.58	-.2085

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#	Sample Name	Ni2316	K_7664	Ag3280	Na3302	Tl1908	V_2924
1	HSA	4816.	100400.	2535.	250900.	9720.	4913.
2	ICV/CCV1	2511.	49990.	1275.	127600.	4999.	2556.
3	ICB/CCB1	-.4170	185.0	.1313	-231.6	.8724	-.0465
4	ICSA1	.8681	101.5	.8087	-172.9	-6.149	1.860
5	ICSAB1	96.91	10970.	106.3	H12290.	95.99	105.2
6	INT-20	20360.	191.5	-3.869	-3582.	-59.91	19900.
7	MCL	56.46	10400.	19.55	12020.	20.74	54.83
8	BSS101998	450.0	16180.	43.02	19660.	1801.	442.9
9	PBS101998	.2424	336.7	.3810	423.4	1.221	.7273
10	LCSS238A-2X	542.9	14790.	559.5	5101.	571.7	254.3
11	LCSS238AD-2X	507.1	13720.	522.8	4809.	531.9	232.3
12	88683D-2X	37.84	5980.	.9037	514.7	-1.020	58.87
13	88683-2X	47.35	4286.	.5046	566.7	-1.623	48.44
14	CCV2	2456.	47890.	1214.	122900.	4850.	2462.
15	CCB2	.7041	415.0	.2258	447.9	.9014	1.823
16	88683L-2X	9.905	1067.	.0518	529.5	-.9903	9.627
17	88683MS-2X	254.0	14160.	21.30	10340.	846.9	277.5
18	88683MSD-2X	256.4	13440.	22.24	10730.	868.4	274.7
19	88683A-2X	517.4	22910.	47.37	21820.	1887.	534.4
20	90277-2X	1462.	2961.	-.0094	1984.	.2999	126.0
21	90278-2X	42.73	2957.	.0331	1602.	-2.276	104.5
22	90279-2X	53.89	2652.	.0826	2045.	-1.808	116.2
23	90280-2X	60.32	3024.	.1654	2279.	-3.870	161.1
24	90281-2X	38.93	2640.	.3797	2002.	-1.735	107.4
25	90282-2X	39.92	2309.	1.371	1852.	-3.394	109.6
26	CCV3	2553.	50350.	1273.	127600.	5041.	2598.
27	CCB3	-.4551	269.0	.7652	-337.0	-1.111	.4797
28	90283-2X	38.14	2594.	.4238	2474.	-5.374	119.4
29	90284-2X	85.73	3003.	.1246	2203.	-1.191	109.6
30	90285-2X	43.02	2896.	1.722	1724.	-3.921	94.33
31	90286-2X	47.29	2782.	.1152	1730.	-4.822	138.8
32	90289-2X	18.91	2683.	.7945	2666.	-6.484	57.82
33	90290-2X	23.67	3437.	-.3924	2635.	-4.306	72.98
34	89341-2X	53.04	2545.	-.6538	213.9	-4.711	120.7
35	89343-2X	49.89	2715.	-.6229	813.7	-5.586	125.3
36	89310-2X	67.62	4097.	-.5638	256.9	-3.842	114.6
37	88666-2X	44.68	3612.	.2182	1135.	-5.892	94.71
38	CCV4	2372.	48430.	1216.	123300.	4709.	2439.
39	CCB4	-.6927	203.8	.2779	-110.6	.5209	.1770
40	88677-2X	129.6	7946.	-.1801	557.4	-9.039	253.1
41	88684-2X	39.22	1431.	-.0610	371.2	-3.700	54.20
42	88685-2X	57.63	1335.	-.2802	475.7	-4.287	76.25
43	ICSA2	.5344	111.0	-.2065	7.401	-8.241	2.135
44	ICSAB2	94.26	10800.	104.3	H12160.	93.77	102.7
45	CCV5	2446.	49110.	1241.	125500.	4837.	2502.
46	CCB5	-.1461	240.9	.1646	135.2	1.952	.5283

305593

#	Sample Name	Zn2138	Mo2020	P_1782	Sr4215	Sn1899	Ti3349
1	HSA	4865.	4883.	4948.	9700.	1948.	19930.
2	ICV/CCV1	2561.	2557.	2543.	5033.	1027.	10130.
3	ICB/CCB1	.0334	1.755	-.8837	.0091	-.9106	.3306
4	ICSA1	-.8695	.3488	-1.366	.9509	-.2465	3.604
5	ICSAB1	104.6	103.5	L3.404	107.0	105.3	104.1
6	INT-20	11.97	19440.	-2.854	18280.	19860.	19760.
7	MCL	54.75	62.76	221.5	105.6	132.9	42.16
8	BSS101998	448.5	455.5	L55.36	449.8	L337.5	436.7
9	PBS101998	2.533	2.145	H50.04	.1717	H12.57	1.329
10	LCSS238A-2X	356.4	369.5	1692.	310.8	540.6	1437.
11	LCSS238AD-2X	328.1	337.7	1564.	292.5	495.3	1323.
12	88683D-2X	147.5	1.533	1345.	239.7	5.499	684.5
13	88683-2X	186.8	1.385	1225.	308.5	3.936	547.8
14	CCV2	2473.	2464.	2427.	4805.	998.7	9758.
15	CCB2	.1518	1.382	1.981	-.1524	.8935	1.692
16	88683L-2X	38.40	-.0306	247.0	60.69	1.421	112.0
17	88683MS-2X	382.5	221.7	1433.	511.1	162.0	906.9
18	88683MSD-2X	414.7	221.7	1625.	604.2	159.5	875.7
19	88683A-2X	665.2	486.1	1227.	790.5	129.4	983.1
20	90277-2X	871.9	5.383	1761.	587.8	28.82	916.0
21	90278-2X	306.0	2.606	1460.	591.1	16.86	701.9
22	90279-2X	359.0	2.476	1531.	547.8	22.43	711.6
23	90280-2X	391.5	2.043	2373.	543.7	25.55	791.1
24	90281-2X	306.2	2.925	1355.	558.6	16.75	772.1
25	90282-2X	287.4	2.195	1163.	521.0	16.91	697.5
26	CCV3	2599.	2591.	2556.	5010.	1050.	10110.
27	CCB3	.0348	.5881	-.4073	-.1674	.9180	1.940
28	90283-2X	341.2	1.781	1553.	784.5	22.39	873.0
29	90284-2X	381.3	2.520	1740.	667.2	24.72	803.8
30	90285-2X	383.2	2.196	1261.	563.8	26.86	730.5
31	90286-2X	343.7	2.340	2158.	811.0	14.19	776.0
32	90289-2X	56.76	2.337	814.3	851.8	7.754	1667.
33	90290-2X	160.3	.7149	1514.	1772.	6.138	1296.
34	89341-2X	185.1	1.481	1733.	21.45	6.951	980.1
35	89343-2X	166.7	2.181	1553.	39.77	8.924	1179.
36	89310-2X	438.2	3.852	H10200.	49.07	28.34	1426.
37	88666-2X	1301.	3.777	H16420.	181.9	58.64	1174.
38	CCV4	2439.	2428.	2374.	4783.	975.8	9568.
39	CCB4	.0316	.4726	-.6551	-.1905	-.4784	1.602
40	88677-2X	1595.	9.015	H6905.	43.96	22.96	2079.
41	88684-2X	116.8	1.094	1243.	20.21	6.431	896.1
42	88685-2X	404.7	1.245	1316.	18.21	6.806	698.8
43	ICSA2	-.2128	-1.747	1.264	.8449	-2.231	.2277
44	ICSAB2	101.9	98.94	L5.067	105.3	101.9	100.5
45	CCV5	2508.	2498.	2447.	4887.	996.9	9808.
46	CCB5	-.1953	.6680	1.412	-.2324	.1657	.7380

305594

#	Sample Name	Pb2203	Se1960	Sb2068	B_2496		
1	HSA	19460.	9917.	2013.	1995.		
2	ICV/CCV1	10210.	4993.	1037.	1023.		
3	ICB/CCB1	.1204	-2.622	-.4934	2.155		
4	ICSA1	.0832	-6.348	.5210	.3496		
5	ICSAB1	95.28	91.38	102.7	108.5		
6	INT-20	4.482	-2.809	-1.657	-.2534		
7	MCL	9.447	10.16	16.79	106.5		
8	BSS101998	453.6	1784.	423.7	449.8		
9	PBS101998	-1.054	-2.737	-.5832	1.746		
10	LCSS238A-2X	641.6	416.0	345.2	310.4		
11	LCSS238AD-2X	593.7	384.6	310.8	289.8		
12	88683D-2X	27.48	-3.511	.1917	11.20		
13	88683-2X	32.18	-4.033	.2937	10.46		
14	CCV2	10030.	4811.	990.2	977.2		
15	CCB2	-.4943	-1.354	-1.035	-.2068		
16	88683L-2X	5.104	-.7656	-1.891	1.194		
17	88683MS-2X	242.4	860.6	144.1	228.0		
18	88683MSD-2X	244.1	865.2	150.6	230.8		
19	88683A-2X	507.0	1882.	444.8	498.8		
20	90277-2X	1089.	-1.533	4.058	67.27		
21	90278-2X	661.3	-.4940	.9738	77.10		
22	90279-2X	733.4	-4.365	2.450	69.55		
23	90280-2X	750.5	-1.005	.4601	62.92		
24	90281-2X	879.4	-2.089	4.405	72.31		
25	90282-2X	664.2	.5894	-2.016	58.18		
26	CCV3	10420.	5051.	1040.	1021.		
27	CCB3	-1.510	-2.408	-.1031	.9788		
28	90283-2X	554.7	-3.303	2.461	95.82		
29	90284-2X	674.5	-3.976	.8208	71.65		
30	90285-2X	848.4	-4.731	1.936	77.57		
31	90286-2X	609.4	-3.543	.9197	65.16		
32	90289-2X	46.17	-.7387	-1.012	63.92		
33	90290-2X	167.0	L-7.032	-1.682	109.4		
34	89341-2X	83.38	-3.290	-.0856	4.245		
35	89343-2X	67.68	.1498	-2.158	6.350		
36	89310-2X	780.9	-4.179	.1675	3.084		
37	88666-2X	1393.	-.7239	.1640	52.83		
38	CCV4	9717.	4746.	987.4	963.1		
39	CCB4	-1.238	-2.089	-1.440	-.9191		
40	88677-2X	335.0	-3.168	-1.633	9.483		
41	88684-2X	12.19	-1.614	-3.377	.2421		
42	88685-2X	21.03	-2.967	-3.459	-.5297		
43	ICSA2	-1.369	L-14.35	-.3222	-1.576		
44	ICSAB2	93.10	88.17	96.06	103.7		
45	CCV5	9983.	4866.	1011.	990.7		
46	CCB5	-1.438	-4.451	-1.299	-.4687		

305595

Method: SW846 Standard: STD1-Blank

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	.2666	-.0193	.0102	-.0315	.0101	.2082	.0295
SDev	.0088	.0071	.0015	.0006	.0028	.0022	.0023
%RSD	3.313	36.89	14.49	1.931	27.95	1.040	7.664
#1	.2728	-.0143	.0112	-.0310	.0081	.2097	.0310
#2	.2603	-.0243	.0091	-.0319	.0122	.2066	.0279

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	-.0041	.0818	-.0061	.0163	.0056	.0782	5.227
SDev	.0036	.0039	.0029	.0072	.0007	.0118	.019
%RSD	88.60	4.742	47.45	44.51	13.20	15.04	.3638
#1	-.0066	.0845	-.0081	.0214	.0061	.0865	5.240
#2	-.0015	.0790	-.0041	.0111	.0051	.0699	5.214

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	-.1434	.0041	-.0228	.0055	.0564	.0124	.2260
SDev	.0006	.0043	.0236	.0041	.0016	.0132	.0144
%RSD	.4009	106.2	103.5	74.61	2.898	106.6	6.388
#1	-.1430	.0071	-.0061	.0084	.0575	.0031	.2362
#2	-.1438	.0010	-.0395	.0026	.0552	.0218	.2158

Elem	Sr4215	Sn1899	Ti3349	2203/1	2203/2	2068/1	2068/2
Avge	.0358	.0355	-.3311	-.0562	.0467	-.0111	.0076
SDev	.0012	.0339	.0126	.2099	.0002	.0416	.0007
%RSD	3.359	95.52	3.820	373.3	.3500	374.9	9.777
#1	.0366	.0595	-.3400	-.2046	.0468	.0183	.0081
#2	.0349	.0115	-.3221	.0922	.0466	-.0405	.0071

Elem	1960/1	1960/2	B_2496
Avge	-.2831	.1646	.0304
SDev	.1611	.0623	.0100
%RSD	56.91	37.86	32.67
#1	-.3970	.2087	.0234
#2	-.1692	.1205	.0375

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	985	--	--	--	--	--	--
SDev	3.447145	--	--	--	--	--	--
%RSD	.3500395	--	--	--	--	--	--
#1	982	--	--	--	--	--	--

305596

#2	987	--	--	--	--	--	--

Method: SW846 Standard: ~~S104~~ STDL Gn 10/21/91

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	86.36	11.36	42.59	9.278	65.32	89.39	23.11
SDev	.42	.05	.22	.030	.16	.32	.04
%RSD	.4819	.4601	.5054	.3227	.2377	.3528	.1571
#1	86.66	11.40	42.75	9.299	65.43	89.61	23.14
#2	86.07	11.33	42.44	9.257	65.21	89.17	23.09

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	Ag3280
Avge	15.47	28.94	18.85	45.34	19.46	48.73	3.652
SDev	.02	.09	.10	.20	.05	.22	.000
%RSD	.1382	.3276	.5446	.4320	.2812	.4585	.0034
#1	15.49	29.01	18.92	45.48	19.50	48.89	3.652
#2	15.46	28.87	18.78	45.20	19.43	48.57	3.652

Elem	Tl1908	V_2924	Zn2138	Mo2020	P_1782	Sr4215	Sn1899
Avge	11.09	3.667	12.63	16.57	5.753	106.3	5.339
SDev	.06	.011	.04	.07	.007	.4	.022
%RSD	.5570	.2988	.3412	.4021	.1198	.4189	.4190
#1	11.13	3.674	12.66	16.52	5.748	106.6	5.355
#2	11.05	3.659	12.59	16.61	5.758	106.0	5.323

Elem	Ti3349	2203/1	2203/2	2068/1	2068/2	1960/1	1960/2
Avge	146.9	232.7	56.74	2.414	.6226	23.80	17.61
SDev	.5	1.1	.03	.008	.0077	.18	.18
%RSD	.3733	.4667	.0452	.3374	1.232	.7458	1.041
#1	147.3	233.5	56.76	2.419	.6280	23.92	17.74
#2	146.5	231.9	56.72	2.408	.6171	23.67	17.48

Elem	B_2496
Avge	2.416
SDev	.010
%RSD	.4230
#1	2.423
#2	2.409

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1031	--	--	--	--	--	--
SDev	8.167118	--	--	--	--	--	--
%RSD	.7919437	--	--	--	--	--	--
#1	1026	--	--	--	--	--	--
#2	1037	--	--	--	--	--	--

305597

Method: SW846 Standard: STD3

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	434.8	55.79	212.1	45.17	310.7	432.8	112.5
SDev	.1	.30	.5	.12	1.6	1.0	.3
%RSD	.0329	.5305	.2242	.2653	.5291	.2299	.2427
#1	434.7	56.00	211.7	45.25	311.9	433.5	112.7
#2	434.9	55.58	212.4	45.08	309.5	432.1	112.3

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	Ag3280
Avge	74.42	144.5	92.60	228.8	94.61	232.1	19.12
SDev	.16	.1	.14	.6	.23	.5	.00
%RSD	.2195	.0786	.1462	.2460	.2397	.2258	.0107
#1	74.53	144.6	92.50	229.2	94.77	232.5	19.12
#2	74.30	144.4	92.70	228.4	94.45	231.8	19.12

Elem	Tl1908	V_2924	Zn2138	Mo2020	P_1782	Sr4215	Sn1899
Avge	53.84	18.00	61.08	80.49	27.39	521.9	25.75
SDev	.14	.04	.19	.31	.17	.4	.02
%RSD	.2536	.2263	.3056	.3889	.6154	.0765	.0928
#1	53.93	18.03	61.22	80.71	27.51	521.6	25.77
#2	53.74	17.98	60.95	80.27	27.27	522.2	25.73

Elem	Ti3349	2203/1	2203/2	2068/1	2068/2	1960/1	1960/2
Avge	735.0	1116.	269.6	12.18	3.094	117.1	85.77
SDev	.2	5.	.7	.11	.012	.7	.19
%RSD	.0312	.4634	.2667	.9107	.3858	.6118	.2165
#1	734.8	1119.	270.1	12.10	3.103	117.6	85.90
#2	735.2	1112.	269.1	12.25	3.086	116.6	85.64

Elem	B_2496
Avge	11.94
SDev	.03
%RSD	.2190
#1	11.96
#2	11.92

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	999	--	--	--	--	--	--
SDev	4.083516	--	--	--	--	--	--
%RSD	.4087143	--	--	--	--	--	--
#1	996	--	--	--	--	--	--
#2	1002	--	--	--	--	--	--

305598

Method: SW846 Standard: ~~STD2~~ STD4 [illegible] 12/21/88

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	851.0	110.3	409.6	88.40	601.8	840.0	219.8
SDev	9.0	1.4	4.2	1.21	8.6	12.2	3.0
%RSD	1.062	1.305	1.017	1.371	1.429	1.447	1.368
#1	844.6	109.3	406.6	87.54	595.7	831.4	217.7
#2	857.3	111.3	412.5	89.25	607.8	848.6	221.9

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	144.0	287.6	180.3	459.1	183.7	447.4	187.3
SDev	1.9	3.6	2.0	6.3	2.5	5.9	1.7
%RSD	1.288	1.240	1.106	1.382	1.380	1.326	.9222
#1	142.7	285.1	178.9	454.6	182.0	443.2	186.1
#2	145.3	290.2	181.8	463.5	185.5	451.6	188.5

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	38.67	23.26	104.6	35.38	119.1	157.5	53.33
SDev	.46	.19	1.2	.50	1.7	2.2	.47
%RSD	1.191	.8043	1.185	1.407	1.421	1.426	.8850
#1	38.35	23.13	103.7	35.03	117.9	155.9	52.99
#2	39.00	23.39	105.5	35.73	120.3	159.1	53.66

Elem	Sr4215	Sn1899	Ti3349	2203/1	2203/2	2068/1	2068/2
Avge	999.2	50.46	1454.	2175.	523.6	24.24	6.138
SDev	11.6	.75	17.	31.	9.9	.40	.070
%RSD	1.157	1.495	1.155	1.406	1.899	1.639	1.135
#1	991.0	49.93	1442.	2153.	516.6	23.96	6.088
#2	1007.	50.99	1466.	2196.	530.6	24.52	6.187

Elem	1960/1	1960/2	B_2496
Avge	232.5	169.8	23.71
SDev	2.3	2.9	.32
%RSD	.9780	1.713	1.362
#1	230.9	167.8	23.49
#2	234.1	171.9	23.94

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	987	--	--	--	--	--	--
SDev	7.636788	--	--	--	--	--	--
%RSD	.7734827	--	--	--	--	--	--
#1	993	--	--	--	--	--	--
#2	982	--	--	--	--	--	--

Method: SW846 Slope = Conc(SIR)/IR

305599

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	581.397	-155.857	10/20/98 02:54:55
As1890	189.042	Multiple	Standards	89.3633	1.57301	10/20/98 02:54:55
Ba4394	439.409	Multiple	Standards	47.6437	-.759988	10/20/98 02:54:55
Be3130	313.042	Multiple	Standards	21.9579	.643500	10/20/98 02:54:55
Cd2265	226.502	Multiple	Standards	8.01831	-.276840	10/20/98 02:54:55
Ca3179	317.933	Multiple	Standards	288.857	-66.9027	10/20/98 02:54:55
Cr2677	267.716	Multiple	Standards	44.4197	-1.53194	10/20/98 02:54:55
Co2286	228.616	Multiple	Standards	33.7196	-.029675	10/20/98 02:54:55
Cu3247	324.753	Multiple	Standards	86.7330	-7.11481	10/20/98 02:54:55
Fe2714	271.441	Multiple	Standards	1083.55	2.82180	10/20/98 02:54:55
Mg2790	279.078	Multiple	Standards	547.474	-7.29955	10/20/98 02:54:55
Mn2576	257.610	Multiple	Standards	52.8941	-.551649	10/20/98 02:54:55
Ni2316	231.604	Multiple	Standards	10.7188	-1.03361	10/20/98 02:54:55
K_7664	766.491	STD2	STD1-Blank	.774714	-1.44947	10/20/98 02:54:55
Ag3280	328.068	Multiple	Standards	65.0834	9.36218	10/20/98 02:54:55
Na3302	330.232	STD2	STD1-Blank	.906031	.019313	10/20/98 02:54:55
Tl1908	190.864	Multiple	Standards	93.6006	1.85879	10/20/98 02:54:55
V_2924	292.402	Multiple	Standards	138.660	-.836438	10/20/98 02:54:55
Zn2138	213.856	Multiple	Standards	41.3681	-2.45793	10/20/98 02:54:55
Mo2020	202.030	Multiple	Standards	30.9968	-.500780	10/20/98 02:54:55
P_1782	178.287	Multiple	Standards	92.3811	-20.9614	10/20/98 02:54:55
Sr4215	421.552	Multiple	Standards	9.67942	-.594431	10/20/98 02:54:55
Sn1899	189.989	Multiple	Standards	38.0866	-1.39878	10/20/98 02:54:55
Ti3349	334.941	Multiple	Standards	13.6583	4.43441	10/20/98 02:54:55
Pb2203	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se1960	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sb2068	206.838	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
2203/1	220.351	Multiple	Standards	8.99114	-.151087	10/20/98 02:54:55
2203/2	220.352	Multiple	Standards	36.6602	-2.47647	10/20/98 02:54:55
2068/1	206.831	Multiple	Standards	85.9938	.957062	10/20/98 02:54:55
2068/2	206.832	Multiple	Standards	328.157	-2.49993	10/20/98 02:54:55
1960/1	196.021	Multiple	Standards	42.3375	11.8132	10/20/98 02:54:55
1960/2	196.022	Multiple	Standards	57.7386	-9.64004	10/20/98 02:54:55
B_2496	249.678	Multiple	Standards	84.3838	-2.57479	10/20/98 02:54:55

Method: SW846

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	STD1-Blank	.000000	-.873635	.873635
		STD4	50000.0	50054.8	-54.7617
		STD3	250000.	252659.	-2659.45
		STD2	500000.	494587.	5413.19

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	STD1-Blank	.000000	-.150008	.150008
		STD4	1000.00	1017.04	-17.0371
		STD3	5000.00	4987.52	12.4810
		STD2	10000.0	9857.08	142.919

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba4394	439.409	STD1-Blank	.000000	-.276069	.276069
		STD4	2000.00	2028.56	-28.5623
		STD3	10000.0	10102.8	-102.791

305600

		STD2	20000.0	19513.4	486.555

CorCoef: 0.99983

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be3130	313.042	STD1-Blank	.000000	-.047687	.047687
		STD4	200.000	204.363	-4.36270
		STD3	1000.00	992.462	7.53766
		STD2	2000.00	1941.66	58.3413

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd2265	226.502	STD1-Blank	.000000	-.195458	.195458
		STD4	500.000	523.454	-23.4540
		STD3	2500.00	2491.06	8.94043
		STD2	5000.00	4824.86	175.138

CorCoef: 0.99985

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	STD1-Blank	.000000	-6.77116	6.77116
		STD4	25000.0	25753.6	-753.602
		STD3	125000.	124944.	56.2500
		STD2	250000.	242577.	7423.50

CorCoef: 0.99988

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	STD1-Blank	.000000	-.223697	.223697
		STD4	1000.00	1025.15	-25.1523
		STD3	5000.00	4996.63	3.36768
		STD2	10000.0	9761.21	238.788

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co2286	228.616	STD1-Blank	.000000	-.166849	.166849
		STD4	500.000	521.645	-21.6453
		STD3	2500.00	2509.36	-9.36011
		STD2	5000.00	4854.32	145.683

CorCoef: 0.99984

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu3247	324.753	STD1-Blank	.000000	-.024359	.024359
		STD4	2500.00	2502.88	-2.87793
		STD3	12500.0	12524.6	-24.6279
		STD2	25000.0	24941.4	58.6270

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	STD1-Blank	.000000	-3.78542	3.78542
		STD4	20000.0	20425.5	-425.531
		STD3	100000.	100340.	-339.500
		STD2	200000.	195413.	4587.00

CorCoef: 0.99990

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	STD1-Blank	.000000	1.60228	-1.60228
		STD4	25000.0	24816.1	183.889
		STD3	125000.	125264.	-263.578

305601

		STD2	250000.	251312.	-1311.72

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	STD1-Blank	.000000	-.256169	.256169
		STD4	1000.00	1028.98	-28.9794
		STD3	5000.00	5004.00	-3.99854
		STD2	10000.0	9718.54	281.455

CorCoef: 0.99988

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni2316	231.604	STD1-Blank	.000000	-.195289	.195289
		STD4	500.000	521.318	-21.3184
		STD3	2500.00	2487.24	12.7590
		STD2	5000.00	4794.41	205.591

CorCoef: 0.99981

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
K_7664	766.491	STD1-Blank	2.60000	5.22705	-2.62705
		STD2	143.640	187.281	-43.6413

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag3280	328.068	STD1-Blank	.000000	.027215	-.027215
		STD4	250.000	247.033	2.96700
		STD3	1250.00	1253.54	-3.54260
		STD2	2500.00	2526.24	-26.2449

CorCoef: 0.99999

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na3302	330.232	STD1-Blank	.023000	.004069	.018931
		STD2	21.0913	23.2575	-2.16617

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	STD1-Blank	.000000	-.275884	.275884
		STD4	1000.00	1039.84	-39.8362
		STD3	5000.00	5041.04	-41.0405
		STD2	10000.0	9792.11	207.894

CorCoef: 0.99988

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	STD1-Blank	.000000	-.076683	.076683
		STD4	500.000	507.567	-7.56671
		STD3	2500.00	2495.66	4.33813
		STD2	5000.00	4904.66	95.3403

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	STD1-Blank	.000000	-.126411	.126411
		STD4	500.000	519.828	-19.8278
		STD3	2500.00	2524.43	-24.4346
		STD2	5000.00	4923.63	76.3716

CorCoef: 0.99991

			Known	Measured	Residual

305602

Element	Wavelength	Standard	Concentration	Concentration	Concentration
Mo2020	202.030	STD1-Blank	.000000	-.115921	.115921
		STD4	500.000	513.004	-13.0040
		STD3	2500.00	2494.43	5.57153
		STD2	5000.00	4881.10	118.896

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
P_1782	178.287	STD1-Blank	.000000	-.086722	.086722
		STD4	500.000	510.533	-10.5334
		STD3	2500.00	2509.60	-9.60083
		STD2	5000.00	4905.46	94.5361

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	STD1-Blank	.000000	-.247940	.247940
		STD4	1000.00	1028.64	-28.6381
		STD3	5000.00	5051.24	-51.2417
		STD2	10000.0	9671.29	328.714

CorCoef: 0.99973

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	STD1-Blank	.000000	-.047193	.047193
		STD4	200.000	201.947	-1.94722
		STD3	1000.00	979.339	20.6612
		STD2	2000.00	1920.45	79.5503

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	STD1-Blank	.000000	-.087293	.087293
		STD4	2000.00	2010.88	-10.8757
		STD3	10000.0	10043.3	-43.2715
		STD2	20000.0	19865.2	134.754

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb2203	220.353	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se1960	196.026	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.838	NONE	.000000	.000000	.000000
		NONE	.000000	.000000	.000000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	STD1-Blank	.000000	-.656541	.656541
		STD4	2000.00	2092.23	-92.2327
		STD3	10000.0	10032.3	-32.2773
		STD2	20000.0	19553.1	446.857

CorCoef: 0.99990

305603

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	STD1-Blank	.000000	-.764041	.764041
		STD4	2000.00	2077.71	-77.7146
		STD3	10000.0	9882.63	117.372
		STD2	20000.0	19193.3	806.652

CorCoef: 0.99987

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/1	206.831	STD1-Blank	.000000	.002780	-.002780
		STD4	200.000	208.507	-8.50723
		STD3	1000.00	1048.02	-48.0238
		STD2	2000.00	2085.73	-85.7295

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2068/2	206.832	STD1-Blank	.000000	-.000303	.000303
		STD4	200.000	201.798	-1.79785
		STD3	1000.00	1012.91	-12.9072
		STD2	2000.00	2011.58	-11.5845

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	STD1-Blank	.000000	-.171860	.171860
		STD4	1000.00	1019.34	-19.3370
		STD3	5000.00	4970.14	29.8613
		STD2	10000.0	9854.95	145.046

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	STD1-Blank	.000000	-.135595	.135595
		STD4	1000.00	1007.25	-7.24884
		STD3	5000.00	4942.78	57.2246
		STD2	10000.0	9796.56	203.439

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	STD1-Blank	.000000	-.005642	.005642
		STD4	200.000	201.295	-1.29500
		STD3	1000.00	1004.69	-4.68518
		STD2	2000.00	1998.53	1.47021

CorCoef: 1.00000

Method: SW846 Sample Name: HSA Operator:
Run Time: 10/20/98 15:01:56
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	496400.	9824.	19670.	1957.	4807.	243200.	9783.
SDev	3398.	32.	155.	11.	21.	1500.	57.
%RSD	.6845	.3258	.7880	.5387	.4358	.6169	.5843
#1	494000.	9802.	19570.	1950.	4792.	242100.	9743.
#2	498800.	9847.	19780.	1964.	4822.	244300.	9824.

305604

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	527200.	10540.	21080.	2108.	5272.	263600.	10540.
Low	472800.	9460.	18920.	1892.	4728.	236400.	9460.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	4840.	24960.	197200.	252100.	9731.	4816.	100400.
SDev	25.	125.	1584.	1593.	56.	23.	654.
%RSD	.5145	.4990	.8033	.6317	.5780	.4679	.6514
#1	4822.	24880.	196000.	251000.	9691.	4800.	99920.
#2	4857.	25050.	198300.	253300.	9770.	4832.	100800.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5272.	26360.	210800.	263600.	10540.	5272.	105400.
Low	4728.	23640.	189200.	236400.	9460.	4728.	94600.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2535.	250900.	9720.	4913.	4865.	4883.	4948.
SDev	14.	1409.	65.	29.	22.	29.	10.
%RSD	.5406	.5616	.6672	.5919	.4516	.5868	.1951
#1	2525.	249900.	9674.	4892.	4850.	4862.	4942.
#2	2545.	251900.	9766.	4933.	4881.	4903.	4955.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2636.	263600.	10540.	5272.	5272.	5272.	5272.
Low	2364.	236400.	9460.	4728.	4728.	4728.	4728.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	9700.	1948.	19930.	19460.	9917.	2013.	19560.
SDev	69.	6.	140.	71.	35.	16.	71.
%RSD	.7135	.3281	.7045	.3626	.3526	.7817	.3650
#1	9651.	1943.	19830.	19410.	9892.	2002.	19510.
#2	9749.	1952.	20030.	19510.	9942.	2024.	19610.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10540.	2108.	21080.	21080.	10540.	2108.	
Low	9460.	1892.	18920.	18920.	9460.	1892.	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	19410.	2009.	2021.	9933.	9909.	1995.	
SDev	70.	19.	9.	43.	31.	11.	
%RSD	.3614	.9387	.4692	.4330	.3123	.5279	
#1	19360.	1996.	2014.	9903.	9887.	1988.	
#2	19460.	2022.	2028.	9964.	9930.	2003.	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						2108.	
Low						1892.	

305605

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	975	--	--	--	--	--	--
SDev	1.750115	--	--	--	--	--	--
%RSD	.1794323	--	--	--	--	--	--
#1	977	--	--	--	--	--	--
#2	974	--	--	--	--	--	--

Method: SW846 Sample Name: ICV/CCV1 Operator:
Run Time: 10/20/98 15:07:17
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	255400.	5025.	10190.	980.0	2512.	126900.	5183.
SDev	1019.	25.	32.	6.2	16.	746.	34.
%RSD	.3991	.5021	.3166	.6372	.6295	.5882	.6602
#1	254700.	5007.	10170.	975.6	2501.	126300.	5158.
#2	256100.	5043.	10220.	984.4	2523.	127400.	5207.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2535.	12730.	98830.	127600.	5134.	2511.	49990.
SDev	13.	67.	218.	706.	32.	12.	272.
%RSD	.5202	.5258	.2207	.5534	.6271	.4669	.5439
#1	2526.	12690.	98670.	127100.	5112.	2502.	49790.
#2	2544.	12780.	98980.	128100.	5157.	2519.	50180.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1275.	127600.	4999.	2556.	2561.	2557.	2543.
SDev	7.	162.	28.	17.	17.	16.	14.
%RSD	.5451	.1267	.5630	.6664	.6741	.6065	.5462
#1	1270.	127400.	4979.	2544.	2548.	2546.	2533.
#2	1280.	127700.	5019.	2568.	2573.	2568.	2553.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5033.	1027.	10130.	10210.	4993.	1037.	10160.
SDev	24.	2.	46.	86.	30.	1.	117.
%RSD	.4763	.1703	.4583	.8383	.5966	.0502	1.148
#1	5016.	1025.	10090.	10140.	4972.	1037.	10080.
#2	5050.	1028.	10160.	10270.	5014.	1036.	10250.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	10230.	1042.	1025.	4958.	5010.	1023.
SDev	70.	9.	16.	43.	23.	2.
%RSD	.6848	.8610	1.602	.8726	.4603	.2111
#1	10180.	1049.	1013.	4927.	4994.	1021.
#2	10280.	1036.	1037.	4988.	5026.	1024.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						1104.
Low						896.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	995	--	--	--	--	--	--
SDev	3.500144	--	--	--	--	--	--
%RSD	.3518352	--	--	--	--	--	--
#1	997	--	--	--	--	--	--
#2	992	--	--	--	--	--	--

Method: SW846 Sample Name: ICB/CCB1 Operator:
Run Time: 10/20/98 15:12:37
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.652	3.516	.2763	.0333	.2116	.2440	.0350
SDev	9.693	.310	.1326	.0079	.0283	1.932	.1178
%RSD	112.0	8.807	48.01	23.61	13.36	791.8	337.1
#1	15.51	3.735	.3700	.0277	.2316	1.610	-.0484
#2	1.798	3.297	.1825	.0389	.1916	-1.122	.1183
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

305607

Avge	.2166	.0097	-1.935	7.510	.0107	-.4170	185.0
SDev	.1190	.1027	3.666	5.952	.1460	.3397	4.0
%RSD	54.94	1063.	189.5	79.26	1364.	81.46	2.154
#1	.3008	-.0630	.6572	3.301	.1139	-.1768	182.1
#2	.1325	.0823	-4.527	11.72	-.0925	-.6572	187.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1313	-231.6	.8724	-.0465	.0334	1.755	-.8837
SDev	.2234	439.9	1.542	.7930	.0460	1.033	5.9505
%RSD	170.1	190.0	176.7	1706.	137.8	58.85	673.4
#1	.2892	79.47	1.962	.5142	.0660	2.485	3.324
#2	-.0267	-542.6	-.2176	-.6072	.0009	1.025	-5.091
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.0091	-.9106	.3306	.1204	-2.622	-.4934	2.124
SDev	.0740	1.0004	1.074	1.051	2.204	1.3341	.285
%RSD	817.1	109.9	324.9	872.7	84.07	270.4	13.41
#1	.0614	-1.618	-.4288	.8636	-4.180	.4499	2.325
#2	-.0433	-.2032	1.090	-.6227	-1.063	-1.437	1.922
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	8_2496	
Units						ppb	
Avge	-.8941	-.7060	-.0907	4.104	-5.991	2.155	
SDev	1.4335	1.8760	.2485	3.715	5.159	.011	
%RSD	160.3	265.7	274.1	90.52	86.11	.5039	
#1	.1196	.6205	.0851	6.731	-9.640	2.163	
#2	-1.908	-2.033	-.2664	1.477	-2.343	2.148	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1035	--	--	--	--	--	--
SDev	2.386485	--	--	--	--	--	--

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%RSD	.2306591	--	--	--	--	--	--
#1	1033	--	--	--	--	--	--
#2	1036	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA1 Operator:
Run Time: 10/20/98 15:17:57
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	498800.	-4.341	4.340	-.0099	.9914	457900.	.2431
SDev	3215.	1.229	.019	.0109	.2302	2791.	.2750
%RSD	.6446	28.30	.4425	110.3	23.22	.6097	113.1
#1	501100.	-5.210	4.354	-.0176	1.154	459900.	.4376
#2	496500.	-3.473	4.326	-.0022	.8286	455900.	.0486
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	10.00	20.00	5.000	3.500	600000.	5.000
Low	400000.	-10.00	-10.00	-5.000	-3.500	400000.	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3535	-2.270	190100.	507100.	1.035	.8681	101.5
SDev	.1664	.001	1608.	2574.	.032	.6504	5.5
%RSD	47.07	.0493	.8462	.5076	3.044	74.93	5.406
#1	.2358	-2.270	191200.	509000.	1.057	.4081	105.4
#2	.4712	-2.271	188900.	505300.	1.013	1.328	97.63
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	20.00	240000.	600000.	10.00	10.00	500.0
Low	-5.000	-10.00	160000.	400000.	-5.000	-5.000	-500.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.8087	-172.9	-6.149	1.860	-.8695	.3488	-1.366
SDev	.0553	162.6	1.517	.459	.1062	.3226	.941
%RSD	6.843	94.04	24.68	24.66	12.21	92.49	68.92
#1	.7695	-57.93	-5.076	1.536	-.7945	.5770	-.7003
#2	.8478	-287.9	-7.222	2.185	-.9446	.1207	-2.032
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00	1000.	10.00	10.00	10.00	10.00	15.00
Low	-10.00	-2000.	-10.00	-5.000	-10.00	-5.000	-15.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.9509	-.2465	3.604	.0832	-6.348	.5210	27.82
SDev	.0407	1.4437	.375	1.907	.547	.2370	2.04
%RSD	4.276	585.7	10.40	2292.	8.623	45.48	7.346
#1	.9797	.7743	3.869	-1.265	-6.735	.6886	26.37

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#2	.9222	-1.267	3.339	1.432	-5.961	.3535	29.26
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	5.000	10.00	10.00	
Low	-5.000	-5.000	-5.000	-5.000	-10.00	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-13.78	3.541	-5.552	5.556	-12.30	.3496	
SDev	1.84	.314	1.341	.813	.42	.7686	
%RSD	13.35	8.872	24.15	14.63	3.374	219.9	
#1	-15.08	3.319	-4.604	4.981	-12.60	-.1939	
#2	-12.48	3.763	-6.500	6.130	-12.01	.8931	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-15.00	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	995	--	--	--	--	--	--
SDev	3.747657	--	--	--	--	--	--
%RSD	.3766868	--	--	--	--	--	--
#1	992	--	--	--	--	--	--
#2	998	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA81 Operator:
Run Time: 10/20/98 15:23:17
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	512300.	105.3	109.6	100.9	98.98	473100.	99.37
SDev	14944.	5.7	3.0	3.1	2.53	14124.	3.19
%RSD	2.917	5.447	2.777	3.094	2.561	2.985	3.211
#1	501800.	101.3	107.5	98.72	97.19	463200.	97.12
#2	522900.	109.4	111.8	103.1	100.8	483100.	101.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	120.0	120.0	120.0	600000.	120.0
Low	400000.	80.00	80.00	80.00	80.00	400000.	80.00
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	98.82	101.0	192000.	524800.	101.7	96.91	10970.
SDev	3.26	3.5	5207.	16019.	3.2	3.08	326.
%RSD	3.302	3.506	2.711	3.052	3.158	3.182	2.967
#1	96.51	98.46	188300.	513400.	99.43	94.73	10740.
#2	101.1	103.5	195700.	536100.	104.0	99.09	11200.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	120.0	120.0	240000.	600000.	120.0	120.0	12000.
Low	80.00	80.00	160000.	400000.	80.00	80.00	8000.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	106.3	H12290.	95.99	105.2	104.6	103.5	L3.404
SDev	4.1	146.	3.33	4.5	3.5	3.3	4.600
%RSD	3.819	1.191	3.465	4.245	3.330	3.195	135.2
#1	103.4	H12190.	93.64	102.0	102.2	101.1	L.1507
#2	109.1	H12400.	98.35	108.3	107.1	105.8	L6.657

Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	120.0	12000.	120.0	120.0	120.0	120.0	120.0
Low	80.00	8000.	80.00	80.00	80.00	80.00	80.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	107.0	105.3	104.1	95.28	91.38	102.7	134.0
SDev	3.1	5.7	4.0	2.71	4.21	5.0	1.4
%RSD	2.922	5.398	3.844	2.845	4.606	4.825	1.076
#1	104.8	101.3	101.3	93.37	88.40	99.19	135.0
#2	109.3	109.3	107.0	97.20	94.35	106.2	133.0

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	120.0	120.0	120.0	120.0	120.0	120.0	
Low	80.00	80.00	80.00	80.00	80.00	80.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	75.94	103.2	101.6	116.1	79.02	108.5	
SDev	4.78	3.1	8.7	2.4	5.10	3.8	
%RSD	6.297	3.007	8.528	2.092	6.450	3.483	
#1	72.56	101.0	95.45	114.4	75.42	105.9	
#2	79.33	105.4	107.7	117.8	82.63	111.2	

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						120.0
Low						80.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	977	--	--	--	--	--	--
SDev	23.58199	--	--	--	--	--	--
%RSD	2.413962	--	--	--	--	--	--
#1	994	--	--	--	--	--	--
#2	960	--	--	--	--	--	--

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Method: SW846 Sample Name: INT-20 Operator:
Run Time: 10/20/98 15:28:37
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	51.75	3.368	-2.473	11.37	.1531	81.44	19990.
SDev	8.20	.986	.227	.58	.1315	9.31	55.
%RSD	15.85	29.29	9.166	5.123	85.87	11.43	.2733
#1	45.95	2.670	-2.633	11.78	.0601	74.86	20030.
#2	57.54	4.065	-2.313	10.96	.2461	88.02	19960.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20390.	-6.960	-139.6	7.161	19160.	20360.	191.5
SDev	41.	.013	16.7	9.318	54.	55.	3.9
%RSD	.2027	.1936	11.99	130.1	.2807	.2698	2.061
#1	20420.	-6.950	-151.4	.5721	19200.	20400.	188.8
#2	20370.	-6.970	-127.7	13.75	19130.	20320.	194.3

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.869	-3582.	-59.91	19900.	11.97	19440.	-2.854
SDev	.348	36.	.28	83.	.68	47.	.223
%RSD	8.994	1.008	.4690	.4166	5.713	.2424	7.798
#1	-3.623	-3608.	-60.11	19960.	11.48	19470.	-2.696
#2	-4.115	-3557.	-59.72	19840.	12.45	19400.	-3.011

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	18280.	19860.	19760.	4.482	-2.809	-1.657	1.165
SDev	12.	106.	2.	.259	1.484	3.836	.973
%RSD	.0659	.5331	.0083	5.789	52.83	231.5	83.56
#1	18270.	19930.	19760.	4.666	-3.859	-4.369	1.853
#2	18290.	19780.	19760.	4.299	-1.760	1.055	.4766

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	6.123	16.76	-38.57	10.85	-9.641	-.2534
SDev	.099	2.29	6.92	1.18	1.638	.4201
%RSD	1.616	13.69	17.95	10.84	16.99	165.8
#1	6.053	15.14	-43.47	10.02	-10.80	.0436
#2	6.193	18.39	-33.68	11.68	-8.483	-.5505

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1042	--	--	--	--	--	--
SDev	2.032932	--	--	--	--	--	--
%RSD	.1951342	--	--	--	--	--	--

305612

#1	1043	--	--	--	--	--	--
#2	1040	--	--	--	--	--	--

Method: SW846 Sample Name: MCL Operator:
Run Time: 10/20/98 15:33:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	213.0	27.63	51.06	4.188	5.199	5348.	22.51
SDev	3.7	1.56	.39	.021	.078	30.	.33
%RSD	1.734	5.631	.7560	.5062	1.506	.5700	1.472
#1	215.7	26.53	51.33	4.203	5.144	5370.	22.74
#2	210.4	28.73	50.79	4.173	5.255	5327.	22.28

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	57.62	49.70	183.6	5282.	22.43	56.46	10400.
SDev	.37	.62	3.1	23.	.45	.56	71.
%RSD	.6430	1.249	1.677	.4320	1.990	.9909	.6858
#1	57.88	50.14	181.4	5299.	22.75	56.85	10450.
#2	57.36	49.26	185.8	5266.	22.12	56.06	10350.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19.55	12020.	20.74	54.83	54.75	62.76	221.5
SDev	.21	24.	.34	.68	.11	7.10	.3
%RSD	1.060	.1962	1.654	1.236	.2007	11.32	.1231
#1	19.40	12040.	20.50	55.30	54.82	67.78	221.7
#2	19.69	12010.	20.98	54.35	54.67	57.74	221.3

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	105.6	132.9	42.16	9.447	10.16	16.79	14.63
SDev	1.2	.3	.28	.138	1.75	.45	2.06
%RSD	1.147	.2149	.6527	1.461	17.18	2.700	14.08
#1	106.4	132.7	41.96	9.349	11.39	16.47	16.09
#2	104.7	133.1	42.35	9.544	8.925	17.11	13.17

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	6.848	17.82	14.70	20.46	5.004	106.5
SDev	1.236	.21	.94	4.35	.447	1.0
%RSD	18.04	1.174	6.411	21.24	8.937	.9183
#1	5.974	17.67	14.03	23.54	5.320	107.2
#2	7.721	17.97	15.37	17.39	4.687	105.8

IntStd	1	2	3	4	5	6	7

305613

Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1034	--	--	--	--	--	--
SDev	3.800699	--	--	--	--	--	--
%RSD	.3677191	--	--	--	--	--	--
#1	1031	--	--	--	--	--	--
#2	1036	--	--	--	--	--	--

Method: SW846 Sample Name: BSS101998 Operator:
Run Time: 10/20/98 15:39:17
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1722.	1678.	1731.	45.51	45.02	18010.	179.9
SDev	9.	15.	1.	.23	.53	88.	2.7
%RSD	.4999	.9065	.0629	.5153	1.172	.4887	1.503
#1	1728.	1689.	1731.	45.68	45.40	18070.	181.8
#2	1716.	1667.	1730.	45.35	44.65	17950.	178.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2400.	2400.	2400.	60.00	60.00	24000.	240.0
Low	1600.	1600.	1600.	40.00	40.00	16000.	160.0

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	451.1	216.6	874.8	17570.	441.3	450.0	16180.
SDev	2.5	1.1	15.6	94.	2.1	4.0	85.
%RSD	.5487	.5122	1.780	.5356	.4820	.8902	.5259
#1	452.8	217.4	863.8	17640.	442.8	452.8	16250.
#2	449.3	215.8	885.8	17500.	439.8	447.2	16120.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.0	300.0	1200.	24000.	600.0	600.0	24000.
Low	400.0	200.0	800.0	16000.	400.0	400.0	16000.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	43.02	19660.	1801.	442.9	448.5	455.5	L55.36
SDev	.13	416.	8.	2.4	3.2	3.0	1.73
%RSD	.3050	2.115	.4221	.5388	.7239	.6635	3.131
#1	43.11	19950.	1806.	444.6	450.8	457.6	L56.58
#2	42.93	19360.	1796.	441.2	446.2	453.3	L54.13
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	60.00	24000.	2400.	600.0	600.0	600.0	1200.
Low	40.00	16000.	1600.	400.0	400.0	400.0	800.0

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	

305614

Avge	449.8	L337.5	436.7	453.6	1784.	423.7	449.6
SDev	.8	3.0	1.7	2.6	14.	3.9	1.6
%RSD	.1830	.8995	.3921	.5794	.8105	.9109	.3621
#1	450.4	L339.6	437.9	455.5	1794.	426.5	450.8
#2	449.2	L335.3	435.5	451.7	1773.	421.0	448.5
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	600.0	600.0	600.0	600.0	2400.	600.0	
Low	400.0	400.0	400.0	400.0	1600.	400.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	455.6	424.5	422.2	1775.	1788.	449.8	
SDev	3.1	5.6	.4	3.	20.	.6	
%RSD	.6861	1.315	.0972	.1681	1.129	.1255	
#1	457.8	428.4	422.5	1777.	1802.	450.2	
#2	453.3	420.5	422.0	1773.	1774.	449.4	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						600.0	
Low						400.0	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1028	--	--	--	--	--	--
SDev	5.374081	--	--	--	--	--	--
%RSD	.5225671	--	--	--	--	--	--
#1	1025	--	--	--	--	--	--
#2	1032	--	--	--	--	--	--

Method: SW846 Sample Name: PBS101998 Operator:
Run Time: 10/20/98 15:44:37
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-3.490	3.187	.0301	-.0191	-.0913	130.0	.9488
SDev	2.899	1.421	.1330	.0149	.1016	1.6	.4798
%RSD	83.06	44.59	442.1	77.64	111.3	1.225	50.57
#1	-1.440	4.191	.1241	-.0086	-.0195	131.2	1.288
#2	-5.540	2.182	-.0640	-.0297	-.1631	128.9	.6095
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	5.000	20.00	4.900	4.900	500.0	9.900
Low	-199.0	-5.000	-20.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5715	1.598	4.871	38.63	.1184	.2424	336.7

305615

SDev	.5216	.855	16.41	5.38	.0742	.4474	15.3
%RSD	91.28	53.48	336.9	13.92	62.66	184.6	4.533
#1	.9403	2.202	16.47	42.43	.1709	.5588	347.5
#2	.2026	.9937	-6.732	34.82	.0659	-.0739	325.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	9.900	9.900	99.00	500.0	9.900	9.900	1000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-500.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3810	423.4	1.221	.7273	2.533	2.145	H50.04
SDev	.8347	325.0	.784	.5669	.077	.283	2.40
%RSD	219.1	76.77	64.20	77.94	3.036	13.21	4.806
#1	.9712	653.2	.6666	1.128	2.587	2.345	H48.34
#2	-.2093	193.6	1.775	.3265	2.479	1.945	H51.74
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	4.900	1000.	9.900	9.900	15.00	10.00	20.00
Low	-4.900	-1000.	-9.900	-9.900	-9.900	-10.00	-20.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.1717	H12.57	1.329	-1.054	-2.737	-.5832	-.4966
SDev	.0315	2.98	1.735	1.167	3.854	.8040	1.5223
%RSD	18.34	23.69	130.5	110.7	140.8	137.9	306.5
#1	.1939	H14.67	2.556	-.2287	-.0118	-.0147	.5798
#2	.1494	H10.46	.1029	-1.879	L-5.462	-1.152	-1.573
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10.00	10.00	10.00	2.900	4.900	9.900	
Low	-3.000	-3.000	-5.000	-2.900	-4.900	-9.900	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-1.346	.5882	-2.953	2.025	-5.125	1.746	
SDev	.990	1.093	.225	2.180	6.866	.765	
%RSD	73.58	185.9	7.605	107.7	134.0	43.80	
#1	-.6455	1.361	-2.794	.4833	-.2707	2.287	
#2	-2.046	-.1849	-3.112	3.566	-9.980	1.205	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1025	--	--	--	--	--	--
SDev	2.068279	--	--	--	--	--	--
%RSD	.2017267	--	--	--	--	--	--

305616

#1	1024	--	--	--	--	--	--
#2	1027	--	--	--	--	--	--

Method: SW846 Sample Name: LCSS238A-2X Operator:
Run Time: 10/20/98 15:49:57
Comment: 5062_W
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21410.	322.1	431.3	175.9	307.7	9060.	340.2
SDev	64.	.8	2.4	.1	1.2	2.	.2
%RSD	.3005	.2379	.5644	.0394	.3941	.0244	.0573
#1	21360.	322.7	429.6	175.8	308.5	9058.	340.1
#2	21460.	321.6	433.1	175.9	306.8	9062.	340.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39450.	463.5	760.0	269.5	515.0	16450.	499.5
Low	14250.	207.0	298.5	146.0	196.5	6050.	265.0

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	508.4	272.4	47790.	7656.	1005.	542.9	14790.
SDev	.3	.7	240.	6.	1.	1.1	26.
%RSD	.0675	.2450	.5032	.0747	.0807	.2025	.1789
#1	508.6	271.9	47620.	7660.	1004.	543.6	14770.
#2	508.1	272.8	47960.	7651.	1006.	542.1	14800.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	790.0	442.5	63500.	12500.	1525.	800.0	28400.
Low	365.0	197.0	17350.	5800.	725.0	403.0	11700.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	559.5	5101.	571.7	254.3	356.4	369.5	1692.
SDev	1.4	93.	.6	.2	.2	1.0	11.
%RSD	.2552	1.817	.1098	.0747	.0469	.2631	.6394
#1	558.5	5167.	572.1	254.4	356.3	370.2	1685.
#2	560.5	5036.	571.2	254.1	356.5	368.8	1700.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	940.0	7800.	920.0	375.0	575.0	520.0	
Low	370.5	2700.	369.0	194.0	253.5	256.5	

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	310.8	540.6	1437.	641.6	416.0	345.2	643.6
SDev	1.3	.4	5.	2.1	1.3	3.3	4.3
%RSD	.4271	.0825	.3283	.3220	.3054	.9545	.6616
#1	309.9	540.3	1434.	640.1	416.9	342.9	646.6
#2	311.8	540.9	1440.	643.0	415.1	347.5	640.6

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	545.0	875.0	2380.	1030.	630.0	535.0	
Low	237.0	242.0	695.0	440.5	306.5	60.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	640.5	345.6	344.4	417.6	415.2	310.4	
SDev	5.2	6.0	2.1	6.9	1.6	.3	
%RSD	.8155	1.736	.6159	1.664	.3768	.1008	
#1	636.8	341.4	345.9	422.5	414.1	310.6	
#2	644.2	349.9	342.9	412.7	416.3	310.2	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						560.0	
Low						206.5	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1029	--	--	--	--	--	--
SDev	.4950265	--	--	--	--	--	--
%RSD	.0481145	--	--	--	--	--	--
#1	1029	--	--	--	--	--	--
#2	1028	--	--	--	--	--	--

Method: SW846 Sample Name: LCSS238AD-2X Operator:
Run Time: 10/20/98 15:55:17
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19720.	295.5	406.3	163.7	285.2	8466.	314.6
SDev	1184.	18.0	24.4	9.9	16.2	492.	18.0
%RSD	6.002	6.097	6.002	6.025	5.670	5.812	5.710
#1	18890.	282.8	389.1	156.7	273.7	8118.	301.9
#2	20560.	308.3	423.6	170.7	296.6	8813.	327.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39450.	463.5	760.0	269.5	515.0	16450.	499.5
Low	14250.	207.0	298.5	146.0	196.5	6050.	265.0
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	475.3	251.8	43760.	7077.	925.8	507.1	13720.
SDev	27.2	15.5	2512.	428.	55.2	31.3	761.
%RSD	5.730	6.144	5.740	6.047	5.965	6.176	5.548
#1	456.0	240.9	41980.	6775.	886.7	484.9	13180.
#2	494.6	262.8	45530.	7380.	964.8	529.2	14260.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	790.0	442.5	63500.	12500.	1525.	800.0	28400.
Low	365.0	197.0	17350.	5800.	725.0	403.0	11700.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	522.8	4809.	531.9	232.3	328.1	337.7	1564.
SDev	31.2	195.	35.1	13.8	19.6	19.2	91.
%RSD	5.978	4.046	6.600	5.922	5.964	5.686	5.848
#1	500.7	4671.	507.1	222.6	314.2	324.1	1499.
#2	544.9	4947.	556.8	242.0	341.9	351.3	1629.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	940.0	7800.	920.0	375.0	575.0	520.0	
Low	370.5	2700.	369.0	194.0	253.5	256.5	
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	292.5	495.3	1323.	593.7	384.6	310.8	605.2
SDev	17.6	30.3	77.	40.0	25.0	21.1	31.1
%RSD	6.022	6.110	5.828	6.729	6.503	6.796	5.142
#1	280.0	473.9	1268.	565.5	366.9	295.9	583.2
#2	304.9	516.7	1377.	622.0	402.3	325.8	627.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	545.0	875.0	2380.	1030.	630.0	535.0	
Low	237.0	242.0	695.0	440.5	306.5	60.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	588.0	308.4	315.7	392.6	380.6	289.8	
SDev	44.4	22.3	18.7	16.2	29.4	17.6	
%RSD	7.544	7.244	5.918	4.134	7.723	6.062	
#1	556.6	292.6	302.5	381.1	359.8	277.4	
#2	619.4	324.2	329.0	404.1	401.4	302.2	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						560.0	
Low						206.5	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1067	--	--	--	--	--	--
SDev	2.315705	--	--	--	--	--	--
%RSD	.2170372	--	--	--	--	--	--
#1	1065	--	--	--	--	--	--
#2	1069	--	--	--	--	--	--

305619

Method: SW846 Sample Name: 88683D-2X Operator:
Run Time: 10/20/98 16:00:38
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16690.	22.01	87.45	2.809	.2999	H443600.	36.79
SDev	226.	2.99	1.30	.026	.0038	5775.	.61
%RSD	1.357	13.57	1.492	.9264	1.270	1.302	1.645
#1	16850.	24.12	88.37	2.827	.3026	H447700.	37.22
#2	16530.	19.90	86.52	2.790	.2972	H439500.	36.36
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.35	57.61	59700.	H270600.	1689.	37.84	5980.
SDev	.53	1.18	974.	3751.	21.	.82	90.
%RSD	2.081	2.041	1.631	1.386	1.240	2.157	1.500
#1	25.72	58.44	60390.	H273300.	1704.	38.42	6043.
#2	24.97	56.78	59010.	H268000.	1675.	37.26	5916.
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.9037	514.7	-1.020	58.87	147.5	1.533	1345.
SDev	.7216	8.0	2.026	.82	2.1	.082	21.
%RSD	79.85	1.559	198.6	1.386	1.429	5.328	1.568
#1	1.414	520.4	.4123	59.45	149.0	1.476	1359.
#2	.3935	509.0	-2.453	58.29	146.0	1.591	1330.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	239.7	5.499	684.5	27.48	-3.511	.1917	35.74
SDev	3.3	.351	9.7	.31	.454	.6021	.03
%RSD	1.367	6.385	1.420	1.121	12.94	314.1	.0811
#1	242.1	5.747	691.4	27.27	-3.189	.6174	35.76
#2	237.4	5.251	677.7	27.70	-3.832	-.2341	35.72
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496

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Units						ppb
Avge	23.35	1.528	-2.507	-2.270	-4.141	11.20
SDev	.48	.766	3.342	2.463	1.911	.01
%RSD	2.050	50.12	133.3	108.5	46.14	.0881
#1	23.01	.9862	-.1446	-4.012	-2.790	11.19
#2	23.68	2.069	-4.870	-.5284	-5.492	11.21
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1036	--	--	--	--	--	--
SDev	12.26829	--	--	--	--	--	--
%RSD	1.184283	--	--	--	--	--	--
#1	1027	--	--	--	--	--	--
#2	1045	--	--	--	--	--	--

Method: SW846 Sample Name: 88683-2X Operator:
Run Time: 10/20/98 16:05:58
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14870.	22.25	76.59	2.559	.2907	H460100.	29.97
SDev	54.	.38	.03	.029	.0901	2943.	.52
%RSD	.3615	1.703	.0384	1.120	30.98	.6396	1.748
#1	14910.	21.98	76.57	2.580	.3544	H462200.	30.34
#2	14830.	22.52	76.61	2.539	.2271	H458000.	29.60
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.77	58.66	69620.	H285500.	1351.	47.35	4286.
SDev	.22	.17	24.	1898.	9.	.74	33.
%RSD	.8352	.2953	.0351	.6646	.6588	1.559	.7686
#1	25.92	58.54	69640.	H286800.	1358.	47.87	4310.
#2	25.61	58.78	69600.	H284200.	1345.	46.82	4263.
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	.5046	566.7	-1.623	48.44	186.8	1.385	1225.
SDev	.4748	273.8	.427	.27	1.3	.016	17.
%RSD	94.09	48.31	26.33	.5519	.7014	1.177	1.427
#1	.8404	760.2	-1.925	48.63	187.7	1.373	1237.
#2	.1689	373.1	-1.321	48.26	185.9	1.397	1212.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	308.5	3.936	547.8	32.18	-4.033	.2937	40.69
SDev	.4	.791	1.4	1.10	3.591	.4988	1.13
%RSD	.1181	20.08	.2616	3.422	89.05	169.8	2.779
#1	308.7	4.495	548.8	31.40	-1.493	.6464	41.49
#2	308.2	3.377	546.8	32.96	L-6.572	-.0590	39.89
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	27.92	1.973	-3.093	-1.164	-5.477	10.46	
SDev	2.22	.975	.456	6.465	2.157	.61	
%RSD	7.935	49.44	14.73	555.4	39.38	5.855	
#1	26.35	2.662	-3.415	3.407	-3.952	10.03	
#2	29.49	1.283	-2.770	-5.735	-7.002	10.89	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1011	--	--	--	--	--	--
SDev	2.881469	--	--	--	--	--	--
%RSD	.2850505	--	--	--	--	--	--
#1	1009	--	--	--	--	--	--
#2	1013	--	--	--	--	--	--

Method: SW846 Sample Name: CCV2 Operator:
Run Time: 10/20/98 16:11:19
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	243400.	4853.	9710.	952.7	2468.	124600.	5053.
SDev	7010.	132.	279.	27.3	73.	3616.	145.
%RSD	2.880	2.714	2.877	2.864	2.959	2.902	2.872
#1	248300.	4946.	9908.	972.0	2520.	127200.	5155.
#2	238400.	4760.	9513.	933.4	2416.	122000.	4950.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2474.	11970.	97090.	126000.	4973.	2456.	47890.
SDev	73.	326.	3029.	3804.	141.	69.	1305.
%RSD	2.949	2.725	3.120	3.019	2.834	2.825	2.725
#1	2526.	12200.	99240.	128700.	5073.	2506.	48820.
#2	2422.	11740.	94950.	123300.	4874.	2407.	46970.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1214.	122900.	4850.	2462.	2473.	2464.	2427.
SDev	33.	3233.	130.	68.	70.	64.	77.
%RSD	2.729	2.632	2.681	2.769	2.814	2.607	3.163
#1	1238.	125200.	4942.	2510.	2522.	2510.	2481.
#2	1191.	120600.	4758.	2414.	2424.	2419.	2373.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	4805.	998.7	9758.	10030.	4811.	990.2	10060.
SDev	134.	30.7	283.	202.	92.	12.8	262.
%RSD	2.786	3.076	2.897	2.018	1.911	1.290	2.605
#1	4899.	1020.	9958.	10170.	4876.	999.3	10240.
#2	4710.	977.0	9559.	9886.	4746.	981.2	9874.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	10010.	989.1	992.4	4792.	4820.	977.2	
SDev	173.	9.4	19.6	111.	82.	27.2	
%RSD	1.723	.9491	1.972	2.324	1.705	2.782	
#1	10140.	995.7	1006.	4871.	4878.	996.4	

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#2	9892.	982.5	978.6	4713.	4762.	957.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						1104.
Low						896.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1022	--	--	--	--	--	--
SDev	24.48353	--	--	--	--	--	--
%RSD	2.395268	--	--	--	--	--	--
#1	1005	--	--	--	--	--	--
#2	1039	--	--	--	--	--	--

Method: SW846 Sample Name: CCB2 Operator:
Run Time: 10/20/98 16:16:40
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	pob
Avge	.2860	2.524	-.0451	.0778	.0124	9.161	.4462
SDev	3.372	1.344	.0642	.0075	.1179	2.068	.0885
%RSD	1179.	53.28	142.5	9.645	953.5	22.58	19.82
#1	2.670	3.474	.0003	.0725	.0957	10.62	.5087
#2	-2.098	1.573	-.0905	.0831	-.0710	7.698	.3837
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.5890	-.2300	-.4553	16.81	-.1423	.7041	415.0
SDev	.3003	.1286	2.9692	3.34	.0007	.2497	13.8
%RSD	50.98	55.91	652.1	19.86	.4618	35.47	3.314
#1	.8013	-.3210	-2.555	19.18	-.1428	.8807	405.3
#2	.3767	-.1391	1.644	14.45	-.1418	.5275	424.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2258	447.9	.9014	1.823	.1518	1.382	1.981
SDev	.2356	189.7	.0593	.506	.0663	.496	1.426
%RSD	104.3	42.37	6.580	27.75	43.64	35.89	71.98
#1	.3924	313.7	.8595	1.466	.1987	1.733	2.990
#2	.0592	582.0	.9434	2.181	.1050	1.031	.9728

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1524	.8935	1.692	-.4943	-1.354	-1.035	1.343
SDev	.0555	.1905	.248	.4971	1.703	5.748	4.392
%RSD	36.43	21.32	14.66	100.6	125.8	555.3	327.0
#1	-.1132	1.028	1.516	-.8458	-.1500	-5.099	4.448
#2	-.1917	.7588	1.867	-.1428	-2.558	3.029	-1.763

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	-1.424	-.5634	-2.003	2.569	-3.324	-.2068
SDev	2.937	8.0601	1.116	1.491	1.808	.8052
%RSD	206.3	1431.	55.71	58.03	54.40	389.3
#1	-3.500	-6.263	-2.792	3.623	-2.046	.3625
#2	.6528	5.136	-1.214	1.515	-4.603	-.7761

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1033	--	--	--	--	--	--
SDev	1.449603	--	--	--	--	--	--
%RSD	.1403397	--	--	--	--	--	--
#1	1034	--	--	--	--	--	--
#2	1032	--	--	--	--	--	--

Method: SW846 Sample Name: 88683L-2X Operator:
Run Time: 10/20/98 16:22:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2911.	6.542	14.84	.5238	-.0602	98770.	6.438
SDev	39.	.887	.17	.0017	.1149	1379.	.188
%RSD	1.341	13.56	1.173	.3254	190.7	1.396	2.919
#1	2883.	7.170	14.72	.5250	.0210	97790.	6.571
#2	2938.	5.915	14.97	.5226	-.1414	99740.	6.306

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5.215	10.18	14610.	55920.	274.8	9.905	1067.
SDev	.110	.26	202.	781.	4.1	.043	19.
%RSD	2.105	2.553	1.385	1.397	1.486	.4316	1.773
#1	5.293	9.994	14470.	55370.	271.9	9.935	1054.
#2	5.138	10.36	14760.	56470.	277.7	9.875	1081.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0518	529.5	-.9903	9.627	38.40	-.0306	247.0
SDev	.1349	211.4	1.0209	.617	.61	.1394	1.8
%RSD	260.5	39.92	103.1	6.413	1.584	455.4	.7255
#1	.1472	380.0	-1.712	10.06	37.97	-.1292	245.7
#2	-.0436	679.0	-.2684	9.190	38.84	.0680	248.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	60.69	1.421	112.0	5.104	-.7656	-1.891	11.94
SDev	.87	.030	.4	.295	3.7775	1.653	4.25
%RSD	1.428	2.111	.3942	5.773	493.4	87.40	35.58
#1	60.07	1.443	112.3	4.896	1.905	-3.060	8.937
#2	61.30	1.400	111.7	5.313	-3.437	-.7225	14.95
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	1.676	-1.876	-1.946	1.766	-2.041	1.194	
SDev	1.680	.309	5.583	.821	5.253	.383	
%RSD	100.2	16.45	286.9	46.50	257.4	32.08	
#1	2.864	-1.658	-5.893	2.347	1.673	1.465	
#2	.4885	-2.094	2.002	1.186	-5.756	.9234	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1039	--	--	--	--	--	--
SDev	5.126524	--	--	--	--	--	--
%RSD	.4933501	--	--	--	--	--	--
#1	1043	--	--	--	--	--	--
#2	1036	--	--	--	--	--	--

Method: SW846 Sample Name: 88683MS-2X Operator:
Run Time: 10/20/98 16:27:20
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18170.	853.4	912.5	24.93	21.58	H425100.	119.3
SDev	215.	8.1	12.2	.25	.19	4551.	1.1
%RSD	1.184	.9463	1.334	1.001	.9028	1.071	.9301
#1	18020.	847.6	903.9	24.75	21.44	H421900.	118.5
#2	18320.	859.1	921.1	25.10	21.72	H428300.	120.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	235.1	173.3	67920.	H259400.	1589.	254.0	14160.
SDev	2.0	.6	672.	2654.	19.	4.0	173.
%RSD	.8313	.3496	.9901	1.023	1.197	1.574	1.221
#1	233.7	172.9	67440.	H257500.	1576.	251.2	14030.
#2	236.4	173.8	68390.	H261300.	1603.	256.8	14280.
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21.30	10340.	846.9	277.5	382.5	221.7	1433.
SDev	.19	21.	6.6	2.4	4.2	4.1	20.
%RSD	.8884	.2033	.7739	.8827	1.097	1.836	1.413
#1	21.43	10320.	842.3	275.8	379.5	218.9	1419.
#2	21.16	10350.	851.6	279.2	385.4	224.6	1447.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	511.1	162.0	906.9	242.4	860.6	144.1	250.3
SDev	6.8	1.7	12.4	1.5	9.8	3.5	.1
%RSD	1.335	1.021	1.370	.6297	1.136	2.447	.0354
#1	506.3	160.8	898.2	241.3	853.7	141.6	250.3
#2	515.9	163.2	915.7	243.5	867.5	146.6	250.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	238.5	145.2	141.9	860.3	860.7	228.0	
SDev	2.3	4.6	1.3	1.3	15.3	2.2	
%RSD	.9776	3.198	.9061	.1561	1.780	.9805	
#1	236.8	141.9	141.0	861.3	849.9	226.4	
#2	240.1	148.5	142.8	859.4	871.6	229.6	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1024	--	--	--	--	--	--
SDev	8.891833	--	--	--	--	--	--
%RSD	.8683961	--	--	--	--	--	--
#1	1030	--	--	--	--	--	--
#2	1018	--	--	--	--	--	--

Method: SW846 Sample Name: 88683MSD-2X Operator:
Run Time: 10/20/98 16:32:41
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18120.	841.5	949.7	24.96	22.17	H407100.	122.9
SDev	38.	4.2	.0	.07	.10	1333.	.1
%RSD	.2122	.5023	.0010	.2857	.4602	.3275	.1100
#1	18150.	844.5	949.7	25.01	22.10	H408000.	123.0
#2	18090.	838.5	949.7	24.91	22.24	H406100.	122.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	236.5	153.8	63910.	250000.	1670.	256.4	13440.
SDev	1.3	.9	149.	1136.	4.	.8	49.
%RSD	.5420	.6169	.2338	.4546	.2652	.3307	.3618
#1	237.4	153.1	64020.	H250800.	1673.	257.0	13470.
#2	235.6	154.4	63810.	249200.	1667.	255.8	13400.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	22.24	10730.	868.4	274.7	414.7	221.7	1625.
SDev	.14	151.	.6	1.4	1.7	1.8	15.
%RSD	.6403	1.406	.0735	.5209	.4094	.8037	.9478
#1	22.34	10840.	868.8	275.7	415.9	222.9	1636.
#2	22.14	10630.	867.9	273.7	413.5	220.4	1614.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	604.2	159.5	875.7	244.1	865.2	150.6	252.1
SDev	.1	.6	1.7	.3	1.8	1.2	3.0
%RSD	.0099	.3967	.1979	.1033	.2058	.8214	1.178
#1	604.3	159.9	876.9	244.0	866.5	149.7	254.2
#2	604.2	159.0	874.5	244.3	864.0	151.5	250.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	240.1	152.3	147.1	859.2	868.2	230.8	
SDev	1.9	2.3	1.0	4.3	.5	.5	
%RSD	.7759	1.531	.6494	.4948	.0629	.2170	
#1	238.8	150.7	147.8	862.2	868.6	231.2	
#2	241.5	154.0	146.4	856.2	867.8	230.4	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1020	--	--	--	--	--	--
SDev	2.916815	--	--	--	--	--	--

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%RSD	.2859167	--	--	--	--	--	--
#1	1022	--	--	--	--	--	--
#2	1018	--	--	--	--	--	--

Method: SW846 Sample Name: 88683A-2X Operator:
Run Time: 10/20/98 16:38:01
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16690.	1669.	1933.	51.15	47.46	H482900.	222.5
SDev	15.	4.	1.	.02	.13	1742.	.7
%RSD	.0902	.2600	.0714	.0381	.2666	.3607	.3224
#1	16680.	1672.	1932.	51.14	47.55	H484100.	223.0
#2	16710.	1665.	1934.	51.16	47.37	H481600.	221.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	499.3	290.0	71160.	H311300.	1830.	517.4	22910.
SDev	.9	.8	444.	1145.	1.	1.4	27.
%RSD	.1755	.2832	.6241	.3678	.0305	.2610	.1198
#1	499.9	289.4	71470.	H312100.	1831.	518.4	22900.
#2	498.7	290.6	70850.	H310400.	1830.	516.5	22930.
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	47.37	21820.	1887.	534.4	665.2	486.1	1227.
SDev	.21	116.	4.	.4	1.1	.7	5.
%RSD	.4523	.5316	.1879	.0687	.1617	.1378	.3865
#1	47.52	21910.	1889.	534.1	665.9	485.6	1230.
#2	47.21	21740.	1884.	534.6	664.4	486.6	1223.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	790.5	129.4	983.1	507.0	1882.	444.8	512.7
SDev	1.2	.6	2.1	.9	1.	1.7	3.9
%RSD	.1500	.4770	.2145	.1789	.0316	.3905	.7522
#1	789.7	129.9	984.6	507.7	1883.	443.6	515.4

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#2	791.4	129.0	981.6	506.4	1882.	446.0	510.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	8_2496	
Units						ppb	
Avge	504.2	444.8	444.8	1872.	1887.	498.8	
SDev	.6	4.7	4.1	4.	3.	1.1	
%RSD	.1114	1.048	.9255	.2203	.1564	.2299	
#1	503.8	441.5	447.8	1869.	1889.	498.0	
#2	504.6	448.1	441.9	1875.	1885.	499.6	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1029	--	--	--	--	--	--
SDev	3.358757	--	--	--	--	--	--
%RSD	.3265288	--	--	--	--	--	--
#1	1026	--	--	--	--	--	--
#2	1031	--	--	--	--	--	--

Method: SW846 Sample Name: 90277-2X Operator:
Run Time: 10/20/98 16:43:21
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20300.	34.35	161.3	1.507	1.807	114600.	583.0
SDev	34.	.77	1.0	.023	.029	485.	2.3
%RSD	.1653	2.251	.6089	1.555	1.613	.4232	.3962
#1	20270.	34.90	160.6	1.523	1.787	115000.	584.6
#2	20320.	33.80	162.0	1.490	1.828	114300.	581.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	27.61	160.5	116000.	17320.	614.6	1462.	2961.
SDev	.60	.1	254.	101.	2.1	7.	57.
%RSD	2.180	.0595	.2192	.5842	.3434	.5122	1.917
#1	28.03	160.4	115800.	17390.	616.1	1467.	3001.
#2	27.18	160.6	116200.	17250.	613.1	1456.	2921.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0094	1984.	.2999	126.0	871.9	5.383	1761.
SDev	.0673	316.	1.221	.4	3.9	.656	9.
%RSD	716.2	15.95	407.1	.3465	.4444	12.19	.4841
#1	-.0570	2208.	1.163	126.3	874.7	5.846	1767.
#2	.0382	1760.	-.5635	125.7	869.2	4.919	1755.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	587.8	28.82	916.0	1089.	-1.533	4.058	1093.
SDev	2.4	.15	2.4	5.	1.989	.061	15.
%RSD	.4099	.5359	.2656	.4513	129.8	1.499	1.387
#1	586.1	28.71	914.3	1086.	-2.940	4.015	1104.
#2	589.5	28.93	917.7	1093.	-.1264	4.101	1082.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	1087.	7.456	-2.772	2.152	-3.384	67.27	
SDev	15.	1.183	2.186	5.558	5.757	.78	
%RSD	1.374	15.86	78.87	258.3	170.1	1.155	
#1	1076.	6.620	-1.226	6.082	-7.455	67.81	
#2	1098.	8.293	-4.318	-1.778	.6867	66.72	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1036	--	--	--	--	--	--
SDev	14.91994	--	--	--	--	--	--
%RSD	1.440009	--	--	--	--	--	--
#1	1026	--	--	--	--	--	--
#2	1047	--	--	--	--	--	--

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Method: SW846 Sample Name: 90278-2X Operator:
Run Time: 10/20/98 16:48:42
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19230.	24.25	158.1	1.239	.7027	123600.	135.6
SDev	365.	.09	3.0	.035	.0379	2039.	2.8
%RSD	1.899	.3849	1.906	2.838	5.399	1.650	2.050
#1	18970.	24.19	156.0	1.214	.6759	122100.	133.7
#2	19490.	24.32	160.3	1.264	.7296	125000.	137.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.24	73.44	66740.	15320.	455.1	42.73	2957.
SDev	.00	1.94	986.	249.	8.7	.68	35.
%RSD	.0290	2.643	1.477	1.624	1.917	1.581	1.187
#1	10.24	72.07	66040.	15140.	448.9	42.25	2932.
#2	10.24	74.81	67430.	15500.	461.2	43.21	2981.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0331	1602.	-2.276	104.5	306.0	2.606	1460.
SDev	.5735	93.	1.683	1.9	6.2	.089	19.
%RSD	1730.	5.780	73.96	1.804	2.029	3.434	1.317
#1	.4386	1667.	-3.466	103.2	301.6	2.543	1447.
#2	-.3724	1536.	-1.086	105.9	310.4	2.669	1474.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	591.1	16.86	701.9	661.3	-.4940	.9738	666.0
SDev	11.8	1.56	13.4	14.6	1.3409	2.326	4.7
%RSD	1.995	9.271	1.903	2.203	271.5	238.8	.7096
#1	582.7	15.76	692.4	651.0	.4542	2.618	662.7
#2	599.4	17.97	711.3	671.5	-1.442	-.6706	669.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

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Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496

Units						ppb
Avge	658.8	2.390	-1.886	4.386	-2.942	77.10
SDev	19.5	.407	6.169	1.127	1.448	.69
%RSD	2.957	17.03	327.1	25.69	49.22	.8906
#1	645.1	2.678	2.476	5.182	-1.918	76.62
#2	672.6	2.102	-6.248	3.589	-3.966	77.59
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1028	--	--	--	--	--	--
SDev	1.378910	--	--	--	--	--	--
%RSD	.1341744	--	--	--	--	--	--
#1	1029	--	--	--	--	--	--
#2	1027	--	--	--	--	--	--

Method: SW846 Sample Name: 90279-2X Operator:
Run Time: 10/20/98 16:54:02
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19780.	27.16	121.0	1.211	.8046	111100.	173.0
SDev	50.	3.15	.8	.022	.0495	69.	.3
%RSD	.2537	11.60	.6640	1.830	6.153	.0626	.1667
#1	19750.	29.39	120.4	1.227	.7696	111000.	173.2
#2	19820.	24.94	121.5	1.196	.8396	111100.	172.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	12.89	88.55	66610.	15700.	435.4	53.89	2652.
SDev	.08	.31	338.	6.	.3	.78	5.
%RSD	.6219	.3525	.5079	.0376	.0737	1.439	.1726
#1	12.83	88.33	66370.	15700.	435.2	54.44	2649.
#2	12.95	88.77	66850.	15690.	435.6	53.34	2656.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

305634

Avge	.0826	2045.	-1.808	116.2	359.0	2.476	1531.
SDev	.0246	192.	.331	.3	.3	.287	8.
%RSD	29.79	9.405	18.29	.2864	.0949	11.60	.5470
#1	.1001	2180.	-2.041	116.4	359.2	2.273	1537.
#2	.0652	1909.	-1.574	116.0	358.7	2.679	1525.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	547.8	22.43	711.6	733.4	-4.365	2.450	732.7
SDev	2.2	.29	2.7	.3	1.933	2.082	.5
%RSD	.4038	1.279	.3803	.0402	44.29	85.00	.0668
#1	546.2	22.64	709.7	733.2	L-5.733	.9774	733.0
#2	549.4	22.23	713.5	733.6	-2.998	3.922	732.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	733.7	3.631	.0603	.1447	-6.629	69.55	
SDev	.7	4.593	2.946	1.006	2.397	1.13	
%RSD	.0936	126.5	4885.	695.0	36.15	1.622	
#1	733.2	.3834	2.144	-.5665	-8.324	68.75	
#2	734.2	6.879	-2.023	.8559	-4.934	70.35	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1020	--	--	--	--	--	--
SDev	2.722344	--	--	--	--	--	--
%RSD	.2667657	--	--	--	--	--	--
#1	1022	--	--	--	--	--	--
#2	1019	--	--	--	--	--	--

Method: SW846 Sample Name: 90280-2X Operator:
Run Time: 10/20/98 16:59:22
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

305635

Avge	21580.	35.72	145.5	1.738	1.042	101900.	147.8
SDev	2.	.29	.2	.005	.100	137.	.1
%RSD	.0114	.7982	.1152	.2945	9.565	.1344	.0523
#1	21580.	35.52	145.7	1.734	.9713	101800.	147.7
#2	21580.	35.92	145.4	1.741	1.112	102000.	147.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.64	110.6	107400.	16600.	619.7	60.32	3024.
SDev	.24	.1	164.	28.	1.2	.19	1.
%RSD	1.555	.1249	.1525	.1699	.1901	.3093	.0196
#1	15.81	110.7	107500.	16580.	618.9	60.46	3024.
#2	15.47	110.5	107300.	16620.	620.6	60.19	3023.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1654	2279.	-3.870	161.1	391.5	2.043	2373.
SDev	.0597	90.	.093	.5	1.5	.528	1.
%RSD	36.09	3.965	2.400	.2927	.3844	25.83	.0491
#1	.1232	2343.	-3.936	160.8	390.4	1.670	2372.
#2	.2076	2215.	-3.805	161.4	392.6	2.417	2374.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	543.7	25.55	791.1	750.5	-1.005	.4601	750.3
SDev	.6	.46	.5	1.1	3.411	1.970	4.8
%RSD	.1032	1.788	.0667	.1432	339.5	428.1	.6398
#1	543.3	25.87	790.8	751.3	-3.416	-.9327	753.7
#2	544.1	25.23	791.5	749.8	1.407	1.853	747.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	750.6	.2408	.8762	4.561	-3.795	62.92
SDev	.8	4.082	2.262	.765	4.731	.44
%RSD	.1047	1695.	258.2	16.78	124.7	.7049
#1	750.0	-2.646	2.476	4.020	-7.140	63.23

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#2	751.1	3.128	-.7233	5.102	-.4494	62.61
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1038	--	--	--	--	--	--
SDev	4.295639	--	--	--	--	--	--
%RSD	.4137633	--	--	--	--	--	--
#1	1035	--	--	--	--	--	--
#2	1041	--	--	--	--	--	--

Method: SW846 Sample Name: 90281-2X Operator:
Run Time: 10/20/98 17:04:43
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19790.	23.57	152.8	1.231	.7047	114400.	211.9
SDev	87.	2.24	.3	.004	.1361	638.	2.5
%RSD	.4400	9.505	.1848	.3268	19.31	.5577	1.156
#1	19850.	21.99	153.0	1.234	.8010	114800.	213.6
#2	19730.	25.15	152.6	1.229	.6085	113900.	210.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.94	85.04	62690.	18730.	390.3	38.93	2640.
SDev	.20	.98	127.	100.	2.5	.23	26.
%RSD	1.646	1.150	.2020	.5315	.6325	.5912	.9706
#1	12.08	85.73	62780.	18800.	392.1	39.09	2658.
#2	11.81	84.35	62600.	18660.	388.6	38.76	2622.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3797	2002.	-1.735	107.4	306.2	2.925	1355.
SDev	.5864	93.	1.523	1.4	2.0	.294	5.
%RSD	154.4	4.627	87.80	1.276	.6512	10.05	.3389
#1	.7943	2068.	-2.812	108.3	307.6	2.717	1358.
#2	-.0349	1937.	-.6579	106.4	304.8	3.133	1352.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	558.6	16.75	772.1	879.4	-2.089	4.405	873.8
SDev	1.9	1.21	3.3	.8	1.737	.421	.5
%RSD	.3374	7.235	.4294	.0862	83.15	9.559	.0599
#1	559.9	17.61	774.4	880.0	-.8607	4.702	874.2
#2	557.2	15.89	769.8	878.9	-3.317	4.107	873.5

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	8_2496	
Units						ppb	
Avge	882.2	5.680	1.828	1.298	-3.792	72.31	
SDev	.9	.392	2.050	8.736	1.758	.11	
%RSD	.0991	6.904	112.1	672.8	46.36	.1555	
#1	882.8	5.402	3.277	7.476	-5.035	72.23	
#2	881.6	5.957	.3784	-4.879	-2.549	72.39	

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1024	--	--	--	--	--	--
SDev	4.843708	--	--	--	--	--	--
%RSD	.4728451	--	--	--	--	--	--
#1	1021	--	--	--	--	--	--
#2	1028	--	--	--	--	--	--

Method: SW846 Sample Name: 90282-2X Operator:
Run Time: 10/20/98 17:10:04
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	16200.	20.64	110.6	1.032	.8395	107600.	127.3
SDev	14.	5.17	.2	.032	.1653	295.	.3
%RSD	.0860	25.06	.1406	3.082	19.69	.2747	.2356
#1	16210.	24.30	110.7	1.055	.9564	107400.	127.5
#2	16190.	16.98	110.5	1.010	.7226	107800.	127.1

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.925	72.19	51830.	12480.	327.4	39.92	2309.
SDev	.770	9.56	12.	35.	1.0	.26	6.
%RSD	7.759	13.24	.0240	.2773	.2935	.6579	.2429
#1	10.47	65.43	51840.	12450.	326.7	40.11	2305.
#2	9.381	78.94	51830.	12500.	328.0	39.74	2313.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.371	1852.	-3.394	109.6	287.4	2.195	1163.
SDev	1.412	617.	.844	1.1	.4	.673	8.
%RSD	103.0	33.29	24.85	1.028	.1416	30.66	.7068
#1	2.370	2288.	-2.798	110.4	287.1	2.671	1157.
#2	.3727	1416.	-3.991	108.8	287.7	1.719	1169.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	521.0	16.91	697.5	664.2	.5894	-2.016	672.5
SDev	.6	2.51	1.0	7.0	1.362	3.667	4.8
%RSD	.1120	14.82	.1422	1.056	231.1	181.9	.7199
#1	520.6	18.68	696.8	659.3	-.3736	-4.610	675.9
#2	521.4	15.13	698.2	669.2	1.552	.5769	669.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	660.1	-3.908	1.748	10.64	-4.439	58.18	
SDev	12.9	5.954	.913	5.22	4.649	.18	
%RSD	1.960	152.4	52.21	49.09	104.7	.3058	
#1	650.9	-8.118	2.394	14.33	-7.726	58.31	
#2	669.2	.3026	1.103	6.945	-1.152	58.06	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1026	--	--	--	--	--	--
SDev	.0707797	--	--	--	--	--	--
%RSD	.0068968	--	--	--	--	--	--
#1	1026	--	--	--	--	--	--
#2	1026	--	--	--	--	--	--

Method: SW846 Sample Name: CCV3 Operator:
Run Time: 10/20/98 17:15:25
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	253200.	5121.	10050.	994.3	2576.	129000.	5273.
SDev	189.	3.	12.	1.7	4.	231.	9.
%RSD	.0747	.0496	.1175	.1753	.1626	.1792	.1727
#1	253300.	5123.	10060.	993.1	2573.	128800.	5266.
#2	253000.	5119.	10040.	995.5	2579.	129200.	5279.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2564.	12730.	97770.	130100.	5206.	2553.	50350.
SDev	4.	4.	43.	249.	10.	3.	27.
%RSD	.1739	.0302	.0444	.1917	.1871	.1095	.0543
#1	2561.	12730.	97800.	130000.	5200.	2551.	50370.
#2	2567.	12720.	97740.	130300.	5213.	2555.	50330.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.

Elem	Ag3280	Na3302	Tl1908	V_2924	In2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1273.	127600.	5041.	2598.	2599.	2591.	2556.
SDev	.	345.	11.	2.	3.	7.	13.
%RSD	.0198	.2704	.2116	.0602	.1205	.2587	.5011
#1	1272.	127800.	5033.	2597.	2597.	2586.	2547.
#2	1273.	127300.	5048.	2600.	2602.	2596.	2565.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	5010.	1050.	10110.	10420.	5051.	1040.	10400.
SDev	.	1.	1.	76.	20.	11.	27.
%RSD	.0016	.1271	.0118	.7269	.3961	1.065	.2630
#1	5011.	1051.	10110.	10360.	5037.	1032.	10380.
#2	5010.	1049.	10110.	10470.	5065.	1048.	10420.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	10420.	1038.	1043.	5031.	5061.	1021.	
SDev	100.	15.	4.	15.	37.	.	
%RSD	.9580	1.416	.3652	.2906	.7369	.0135	
#1	10350.	1028.	1041.	5041.	5035.	1021.	
#2	10490.	1049.	1046.	5021.	5088.	1021.	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1104.	
Low						896.0	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	985	--	--	--	--	--	--
SDev	1.325825	--	--	--	--	--	--
%RSD	.1345964	--	--	--	--	--	--
#1	986	--	--	--	--	--	--
#2	984	--	--	--	--	--	--

Method: SW846 Sample Name: CC83 Operator:
Run Time: 10/20/98 17:20:45
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0137	2.009	-.0871	.0133	-.0266	-2.123	-.0022
SDev	.0996	2.503	.0462	.0040	.0239	.073	.1001
%RSD	727.3	124.6	52.98	30.34	89.72	3.445	4555.
#1	-.0567	3.778	-.0545	.0161	-.0435	-2.175	.0686
#2	.0841	.2389	-.1198	.0104	-.0097	-2.072	-.0730
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

305641

Avge	.0850	.0629	3.300	6.267	-.1584	-.4551	269.0
SDev	.1427	.1403	.755	.079	.0394	.2294	12.3
%RSD	167.9	223.0	22.89	1.259	24.84	50.40	4.590
#1	-.0159	.1621	2.766	6.211	-.1863	-.2929	260.3
#2	.1859	-.0363	3.834	6.323	-.1306	-.6173	277.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.7652	-337.0	-1.111	.4797	.0348	.5881	-.4073
SDev	.3466	114.2	1.950	.1911	.0569	.6237	1.4357
%RSD	45.29	33.88	175.6	39.85	163.6	106.1	352.5
#1	1.010	-417.8	-2.490	.6148	.0750	1.029	.6079
#2	.5201	-256.3	.2682	.3445	-.0055	.1471	-1.422
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1674	.9180	1.940	-1.510	-2.408	-.1031	-.3841
SDev	.0179	1.392	.551	1.746	.073	.1600	1.1769
%RSD	10.68	151.7	28.39	115.7	3.030	155.2	306.4
#1	-.1547	1.903	2.330	-2.745	-2.356	-.2163	-1.216
#2	-.1800	-.0666	1.551	-.2747	-2.459	.0100	.4481
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-2.087	-1.030	1.729	.8183	-4.030	.9788	
SDev	2.031	1.840	3.205	.1233	.048	.3934	
%RSD	97.33	178.7	185.4	15.07	1.188	40.19	
#1	-3.522	-2.331	3.996	.9055	-3.996	1.257	
#2	-.6505	.2714	-.5373	.7311	-4.064	.7006	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1009	--	--	--	--	--	--
SDev	5.868977	--	--	--	--	--	--

305642

%RSD	.5817348	--	--	--	--	--	--
#1	1013	--	--	--	--	--	--
#2	1005	--	--	--	--	--	--

Method: SW846 Sample Name: 90283-2X Operator:
Run Time: 10/20/98 17:26:06
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21040.	17.15	140.0	1.219	1.070	166400.	208.4
SDev	91.	.80	.5	.030	.035	115.	.3
%RSD	.4325	4.638	.3494	2.450	3.248	.0690	.1334
#1	21110.	16.59	140.3	1.198	1.045	166500.	208.2
#2	20980.	17.72	139.6	1.240	1.094	166300.	208.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	9.866	61.80	48790.	14090.	385.4	38.14	2594.
SDev	.044	.89	197.	7.	.5	.79	10.
%RSD	.4450	1.446	.4030	.0516	.1272	2.063	.3731
#1	9.897	62.43	48930.	14090.	385.7	37.58	2601.
#2	9.835	61.17	48650.	14080.	385.0	38.69	2587.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.4238	2474.	-5.374	119.4	341.2	1.781	1553.
SDev	.3656	.	2.669	.8	.2	.031	12.
%RSD	86.27	.0119	49.67	.6706	.0579	1.750	.7670
#1	.6823	2474.	-7.261	118.9	341.3	1.803	1562.
#2	.1653	2474.	-3.486	120.0	341.0	1.759	1545.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	784.5	22.39	873.0	554.7	-3.303	2.461	555.1
SDev	2.5	.43	3.0	1.1	1.150	.978	2.5
%RSD	.3241	1.905	.3432	.1951	34.81	39.75	.4479
#1	786.3	22.69	875.1	553.9	-2.490	1.769	556.8

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#2	782.7	22.09	870.8	555.4	-4.116	3.152	553.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	554.5	2.779	1.800	1.765	-5.846	95.82	
SDev	2.9	1.934	.935	1.035	2.241	.19	
%RSD	.5173	69.58	51.96	58.65	38.33	.1982	
#1	552.4	1.412	2.462	1.033	-4.261	95.95	
#2	556.5	4.146	1.139	2.497	-7.430	95.69	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1026	--	--	--	--	--	--
SDev	4.401766	--	--	--	--	--	--
%RSD	.4291108	--	--	--	--	--	--
#1	1023	--	--	--	--	--	--
#2	1029	--	--	--	--	--	--

Method: SW846 Sample Name: 90284-2X Operator:
Run Time: 10/20/98 17:31:26
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20080.	27.31	156.6	1.294	1.173	122800.	157.4
SDev	56.	1.69	.1	.010	.245	517.	1.2
%RSD	.2770	6.196	.0485	.7437	20.88	.4212	.7661
#1	20120.	28.50	156.5	1.301	1.346	123200.	158.3
#2	20040.	26.11	156.6	1.287	.9996	122500.	156.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.91	102.2	82660.	101100.	557.9	85.73	3003.
SDev	.12	.7	123.	500.	2.6	.55	15.
%RSD	.7315	.6629	.1486	.4946	.4678	.6463	.5008
#1	15.83	102.6	82750.	101500.	559.7	86.12	3013.
#2	15.99	101.7	82580.	100700.	556.0	85.34	2992.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1246	2203.	-1.191	109.6	381.3	2.520	1740.
SDev	.0703	26.	.450	.5	2.6	.966	15.
%RSD	56.36	1.180	37.77	.4841	.6739	38.32	.8414
#1	.1743	2222.	-.8728	110.0	383.1	3.203	1751.
#2	.0750	2185.	-1.509	109.3	379.5	1.838	1730.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	667.2	24.72	803.8	674.5	-3.976	.8208	671.7
SDev	1.2	.32	1.9	4.6	.722	2.121	6.4
%RSD	.1748	1.313	.2307	.6757	18.16	258.4	.9592
#1	668.0	24.95	805.1	677.7	-4.487	2.320	676.3
#2	666.4	24.49	802.5	671.3	-3.466	-.6788	667.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	675.9	.7721	.8946	1.011	-6.478	71.65	
SDev	3.6	2.478	1.404	.476	1.320	.36	
%RSD	.5350	321.0	157.0	47.14	20.38	.5087	
#1	678.4	2.525	1.888	1.348	-7.412	71.39	
#2	673.3	-.9804	-.0984	.6738	-5.544	71.91	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1006	--	--	--	--	--	--
SDev	2.298097	--	--	--	--	--	--
%RSD	.2284731	--	--	--	--	--	--
#1	1004	--	--	--	--	--	--
#2	1007	--	--	--	--	--	--

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Method: SW846 Sample Name: 90285-2X Operator:
Run Time: 10/20/98 17:36:47
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18710.	22.69	155.4	1.218	1.289	104500.	158.6
SDev	24.	.31	.6	.047	.086	1313.	2.7
%RSD	.1280	1.364	.3674	3.859	6.639	1.257	1.686
#1	18730.	22.47	155.8	1.185	1.229	103600.	156.8
#2	18700.	22.91	155.0	1.251	1.350	105400.	160.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	11.19	76.86	58130.	13440.	367.2	43.02	2896.
SDev	1.15	.07	362.	202.	3.3	.82	22.
%RSD	10.32	.0924	.6225	1.500	.9010	1.906	.7464
#1	10.37	76.81	57880.	13300.	364.9	42.44	2881.
#2	12.01	76.91	58390.	13590.	369.6	43.60	2911.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1.722	1724.	-3.921	94.33	383.2	2.196	1261.
SDev	2.069	63.	.357	3.51	4.2	.161	12.
%RSD	120.2	3.638	9.116	3.726	1.102	7.338	.9279
#1	.2586	1768.	-3.668	91.85	380.2	2.082	1253.
#2	3.185	1679.	-4.174	96.82	386.2	2.310	1269.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	563.8	26.86	730.5	848.4	-4.731	1.936	847.7
SDev	.7	1.49	2.0	14.2	.896	1.738	11.6
%RSD	.1243	5.544	.2806	1.670	18.95	89.77	1.368
#1	564.3	25.80	729.1	838.4	L-5.365	.7070	839.5
#2	563.3	27.91	732.0	858.4	-4.097	3.165	855.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

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Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496

Units						ppb
Avge	848.8	2.328	1.127	3.307	-8.756	77.57
SDev	15.5	1.996	1.221	2.478	2.581	1.27
%RSD	1.821	85.75	108.3	74.91	29.48	1.639
#1	837.8	.9164	.2639	5.059	-10.58	76.67
#2	859.7	3.739	1.990	1.556	-6.931	78.47
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1023	--	--	--	--	--	--
SDev	12.03851	--	--	--	--	--	--
%RSD	1.177346	--	--	--	--	--	--
#1	1014	--	--	--	--	--	--
#2	1031	--	--	--	--	--	--

Method: SW846 Sample Name: 90286-2X Operator:
Run Time: 10/20/98 17:42:07
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21130.	34.24	138.4	1.455	2.140	161200.	108.0
SDev	32.	.37	.1	.011	.033	472.	.4
%RSD	.1522	1.084	.0438	.7603	1.536	.2928	.3757
#1	21150.	34.50	138.5	1.447	2.163	161600.	108.3
#2	21100.	33.97	138.4	1.463	2.116	160900.	107.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	14.38	79.89	115600.	17240.	625.7	47.29	2782.
SDev	.05	1.05	88.	58.	2.0	.39	18.
%RSD	.3769	1.313	.0759	.3337	.3270	.8159	.6605
#1	14.34	80.63	115600.	17280.	627.2	47.56	2795.
#2	14.41	79.14	115500.	17200.	624.3	47.01	2769.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	.1152	1730.	-4.822	138.8	343.7	2.340	2158.
SDev	.3332	233.	.339	.8	1.1	.005	8.
%RSD	289.2	13.48	7.024	.5553	.3194	.2336	.3543
#1	.3508	1895.	-5.062	139.3	344.5	2.336	2163.
#2	-.1204	1565.	-4.583	138.2	342.9	2.344	2152.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	811.0	14.19	776.0	609.4	-3.543	.9197	606.8
SDev	1.1	.59	1.6	.4	1.318	.4632	5.2
%RSD	.1353	4.146	.2112	.0737	37.21	50.37	.8519
#1	811.8	14.60	777.2	609.1	-4.476	.5921	610.4
#2	810.3	13.77	774.8	609.7	-2.611	1.247	603.1
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	610.6	3.836	-4.945	1.438	-6.042	65.16
SDev	3.3	.133	1.124	2.718	.620	.86
%RSD	.5329	3.479	22.73	189.0	10.26	1.313
#1	608.3	3.742	-5.740	-.4839	-6.480	65.76
#2	612.9	3.930	-4.151	3.360	-5.604	64.55
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1015	--	--	--	--	--	--
SDev	5.762937	--	--	--	--	--	--
%RSD	.5679449	--	--	--	--	--	--
#1	1011	--	--	--	--	--	--
#2	1019	--	--	--	--	--	--

Method: SW846 Sample Name: 90289-2X Operator:
Run Time: 10/20/98 17:47:28
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	34910.	14.28	122.4	1.023	-.0598	H253200.	284.4
SDev	164.	1.50	.8	.003	.0338	957.	1.6
%RSD	.4700	10.48	.6151	.2877	56.56	.3778	.5658
#1	35020.	13.22	122.9	1.025	-.0837	H253900.	285.5
#2	34790.	15.33	121.9	1.021	-.0359	H252600.	283.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	7.798	51.17	26720.	43260.	576.2	18.91	2683.
SDev	.045	.31	160.	168.	1.8	.68	18.
%RSD	.5731	.6027	.5978	.3884	.3123	3.591	.6729
#1	7.829	51.39	26830.	43380.	577.5	19.39	2695.
#2	7.766	50.95	26600.	43140.	574.9	18.43	2670.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.7945	2666.	-6.484	57.82	56.76	2.337	814.3
SDev	.7517	158.	1.735	1.06	.11	.384	6.1
%RSD	94.62	5.909	26.76	1.832	.1870	16.42	.7460
#1	1.326	2778.	-5.257	58.57	56.84	2.609	810.0
#2	.2629	2555.	-7.711	57.07	56.69	2.066	818.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	851.8	7.754	1667.	46.17	-.7387	-1.012	55.82
SDev	4.2	1.514	7.	.13	1.3625	.568	1.58
%RSD	.4883	19.52	.4379	.2790	184.4	56.13	2.825
#1	854.7	8.824	1673.	46.26	-1.702	-1.414	56.94
#2	848.8	6.684	1662.	46.08	.2247	-.6106	54.71
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	41.33	-1.228	-.6052	3.620	-2.927	63.92	
SDev	.59	2.579	3.4586	7.068	5.572	.41	
%RSD	1.438	210.1	571.5	195.3	190.4	.6437	
#1	40.91	-3.051	1.840	8.618	-6.866	64.21	

305649

#2	41.75	.5958	-3.051	-1.378	1.013	63.63
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1011	--	--	--	--	--	--
SDev	5.356342	--	--	--	--	--	--
%RSD	.5300357	--	--	--	--	--	--
#1	1007	--	--	--	--	--	--
#2	1014	--	--	--	--	--	--

Method: SW846 Sample Name: 90290-2X Operator:
Run Time: 10/20/98 17:52:49
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	31010.	19.68	172.8	1.530	.1419	H335600.	89.78
SDev	182.	1.53	1.1	.005	.0222	981.	.55
%RSD	.5872	7.759	.6575	.3093	15.62	.2922	.6174
#1	31130.	20.76	173.7	1.526	.1576	H336300.	90.17
#2	30880.	18.60	172.0	1.533	.1262	H334900.	89.39
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	8.977	35.51	47940.	18910.	507.5	23.67	3437.
SDev	.180	.26	217.	50.	1.7	.12	20.
%RSD	2.008	.7193	.4535	.2658	.3415	.5186	.5687
#1	9.105	35.69	48090.	18950.	508.7	23.58	3451.
#2	8.850	35.32	47790.	18880.	506.2	23.75	3423.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.3924	2635.	-4.306	72.98	160.3	.7149	1514.
SDev	.6216	19.	1.449	.25	.6	.1479	9.
%RSD	158.4	.7071	33.64	.3466	.3945	20.70	.5729
#1	.0471	2648.	-3.281	73.16	160.7	.8195	1520.
#2	-.8319	2621.	-5.330	72.80	159.8	.6102	1508.

305650

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	1772.	6.138	1296.	167.0	L-7.032	-1.682	175.3
SDev	8.	.095	7.	.7	1.801	.554	2.4
%RSD	.4719	1.551	.5154	.4104	25.61	32.91	1.371
#1	1778.	6.071	1301.	166.5	L-5.759	-2.073	177.0
#2	1766.	6.205	1291.	167.5	L-8.306	-1.290	173.6

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	162.9	-1.515	-2.041	-.4897	-10.31	109.4
SDev	2.2	1.063	.467	5.0246	.19	1.0
%RSD	1.368	70.19	22.89	1026.	1.861	.9256
#1	161.3	-2.266	-1.710	3.063	-10.17	110.1
#2	164.4	-.7629	-2.371	-4.043	-10.45	108.7

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	988	--	--	--	--	--	--
SDev	3.075897	--	--	--	--	--	--
%RSD	.3112469	--	--	--	--	--	--
#1	986	--	--	--	--	--	--
#2	990	--	--	--	--	--	--

Method: SW846 Sample Name: 89341-2X Operator:
Run Time: 10/20/98 17:58:09
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	45320.	18.95	334.4	3.300	.6135	4192.	79.61
SDev	100.	1.51	1.1	.004	.0733	3.	.00
%RSD	.2209	7.991	.3305	.1189	11.95	.0682	.0005
#1	45250.	17.88	333.7	3.303	.5616	4194.	79.61
#2	45390.	20.02	335.2	3.297	.6654	4190.	79.61

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	42.11	48.80	90970.	8959.	3953.	53.04	2545.
SDev	.06	.49	337.	12.	6.	.85	4.
%RSD	.1348	1.010	.3703	.1297	.1635	1.595	.1640
#1	42.07	49.15	90730.	8967.	3958.	53.63	2548.
#2	42.15	48.46	91210.	8951.	3949.	52.44	2542.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.6538	213.9	-4.711	120.7	185.1	1.481	1733.
SDev	.3949	37.1	1.284	.4	.5	.192	7.
%RSD	60.39	17.35	27.26	.3666	.2949	12.98	.4216
#1	-.3746	240.1	-5.619	121.0	185.5	1.345	1738.
#2	-.9330	187.6	-3.803	120.4	184.7	1.617	1728.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	21.45	6.951	980.1	83.38	-3.290	-.0856	88.55
SDev	.03	1.625	1.4	.38	.399	.4443	.96
%RSD	.1360	23.38	.1384	.4543	12.14	518.9	1.083
#1	21.47	8.100	979.1	83.64	-3.572	.2285	89.22
#2	21.43	5.802	981.0	83.11	-3.007	-.3998	87.87
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	80.78	1.409	-3.102	4.477	-7.179	4.245	
SDev	.09	.438	.458	1.335	1.265	.214	
%RSD	.1116	31.05	14.76	29.81	17.62	5.029	
#1	80.85	1.719	-2.779	5.421	-8.073	4.095	
#2	80.72	1.100	-3.426	3.533	-6.284	4.396	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

305652

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1067	--	--	--	--	--	--
SDev	1.555687	--	--	--	--	--	--
%RSD	.1457386	--	--	--	--	--	--
#1	1066	--	--	--	--	--	--
#2	1069	--	--	--	--	--	--

Method: SW846 Sample Name: 89343-2X Operator:
Run Time: 10/20/98 18:03:30
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	46420.	24.20	285.7	2.635	.2555	6141.	83.40
SDev	884.	.70	5.1	.071	.1811	127.	1.71
%RSD	1.904	2.889	1.777	2.691	70.88	2.073	2.045
#1	45790.	24.69	282.1	2.585	.3836	6051.	82.19
#2	47040.	23.70	289.3	2.685	.1275	6231.	84.60
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	31.97	46.15	89420.	8048.	2196.	49.89	2715.
SDev	.42	1.65	1566.	175.	46.	.14	73.
%RSD	1.311	3.579	1.751	2.172	2.104	.2823	2.681
#1	31.67	44.99	88320.	7925.	2163.	49.79	2663.
#2	32.26	47.32	90530.	8172.	2229.	49.99	2766.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.6229	813.7	-5.586	125.3	166.7	2.181	1553.
SDev	.2274	252.2	4.260	3.1	3.7	.427	26.
%RSD	36.51	31.00	76.27	2.477	2.206	19.55	1.652
#1	-.4621	992.0	-2.573	123.1	164.1	1.880	1535.
#2	-.7837	635.3	-8.599	127.5	169.3	2.483	1571.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

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Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	39.77	8.924	1179.	67.68	.1498	-2.158	74.30
SDev	.77	1.091	24.	2.22	.4822	.181	.31
%RSD	1.943	12.22	1.996	3.276	321.8	8.376	.4191
#1	39.22	9.695	1162.	66.11	-.1911	-2.285	74.08
#2	40.32	8.153	1195.	69.25	.4908	-2.030	74.52
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	64.36	-2.378	-1.738	10.70	-5.128	6.350
SDev	3.17	1.822	3.108	5.37	3.404	.578
%RSD	4.923	76.62	178.8	50.19	66.37	9.098
#1	62.12	-3.667	.4592	14.50	-7.535	6.758
#2	66.60	-1.090	-3.936	6.902	-2.721	5.941
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1053	--	--	--	--	--	--
SDev	12.12690	--	--	--	--	--	--
%RSD	1.152090	--	--	--	--	--	--
#1	1061	--	--	--	--	--	--
#2	1044	--	--	--	--	--	--

Method: SW846 Sample Name: 89310-2X Operator:
Run Time: 10/20/98 18:08:50
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	40770.	45.57	244.5	2.359	1.608	24120.	54.08
SDev	160.	.61	.7	.038	.235	159.	.22
%RSD	.3931	1.336	.2766	1.623	14.63	.6586	.3994
#1	40880.	46.00	244.9	2.331	1.442	24230.	54.23
#2	40650.	45.14	244.0	2.386	1.775	24010.	53.93
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

305654

Avge	35.14	126.0	133100.	11160.	2006.	67.62	4097.
SDev	.70	1.0	310.	78.	16.	.64	31.
%RSD	1.989	.8120	.2332	.6965	.7930	.9475	.7452
#1	35.63	126.7	133300.	11210.	2017.	67.17	4118.
#2	34.64	125.2	132900.	11100.	1994.	68.08	4075.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.5638	256.9	-3.842	114.6	438.2	3.852	H10200.
SDev	.0549	297.3	2.397	.7	4.5	.360	74.
%RSD	9.731	115.7	62.40	.6402	1.025	9.359	.7246
#1	-.5250	467.1	-2.147	115.1	441.3	4.106	H10250.
#2	-.6026	46.72	-5.537	114.1	435.0	3.597	H10150.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	49.07	28.34	1426.	780.9	-4.179	.1675	776.3
SDev	.24	.78	7.	6.3	.124	5.357	8.9
%RSD	.4988	2.758	.4708	.8059	2.973	3199.	1.144
#1	49.24	27.79	1431.	785.4	-4.091	-3.620	782.6
#2	48.90	28.89	1421.	776.5	-4.267	3.955	770.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	783.3	2.951	-5.429	4.390	-8.467	3.084	
SDev	5.0	7.644	.776	6.446	3.032	.728	
%RSD	.6383	259.0	14.30	146.8	35.81	23.62	
#1	786.8	-2.454	-5.978	8.949	-10.61	3.599	
#2	779.7	8.356	-4.880	-.1679	-6.323	2.568	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1184	--	--	--	--	--	--
SDev	4.914444	--	--	--	--	--	--

305655

%RSD	.4149924	--	--	--	--	--	--
#1	1181	--	--	--	--	--	--
#2	1188	--	--	--	--	--	--

Method: SW846 Sample Name: 88666-2X Operator:
Run Time: 10/20/98 18:14:11
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	37390.	92.97	890.8	2.311	3.531	50670.	64.16
SDev	235.	1.50	6.4	.015	.047	163.	.11
%RSD	.6297	1.608	.7163	.6362	1.328	.3220	.1771
#1	37560.	94.02	895.3	2.300	3.565	50780.	64.24
#2	37220.	91.91	886.3	2.321	3.498	50550.	64.08
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	21.56	222.6	63600.	9711.	1108.	44.68	3612.
SDev	.00	1.6	409.	29.	4.	.55	24.
%RSD	.0205	.7382	.6429	.3031	.3393	1.223	.6513
#1	21.55	223.8	63890.	9732.	1111.	45.06	3629.
#2	21.56	221.5	63320.	9691.	1106.	44.29	3596.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2182	1135.	-5.892	94.71	1301.	3.777	H16420.
SDev	.2792	74.	.202	.08	4.	.315	61.
%RSD	128.0	6.512	3.423	.0874	.3279	8.350	.3698
#1	.4157	1083.	-6.035	94.65	1304.	3.554	H16460.
#2	.0208	1187.	-5.750	94.76	1298.	3.999	H16370.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	181.9	58.64	1174.	1393.	-.7239	.1640	1392.
SDev	1.0	1.10	5.	11.	1.2517	.7880	5.
%RSD	.5629	1.871	.4231	.7993	172.9	480.6	.3607
#1	182.6	59.41	1177.	1385.	.1613	.7212	1389.

305656

#2	181.2	57.86	1170.	1401.	-1.609	-.3932	1396.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	1393.	-.1085	.6917	3.021	-2.602	52.83	
SDev	14.	2.1521	1.944	1.448	1.154	.44	
%RSD	1.018	1983.	281.1	47.94	44.33	.8415	
#1	1383.	1.413	-.6831	4.045	-1.787	52.51	
#2	1403.	-1.630	2.067	1.997	-3.418	53.14	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						5000.	
Low						-4.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1324	--	--	--	--	--	--
SDev	2.298097	--	--	--	--	--	--
%RSD	.1735362	--	--	--	--	--	--
#1	1323	--	--	--	--	--	--
#2	1326	--	--	--	--	--	--

Method: SW846 Sample Name: CCV4 Operator:
Run Time: 10/20/98 18:19:32
Comment: 506711
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	241900.	4801.	9623.	928.3	2386.	120200.	4929.
SDev	7625.	143.	306.	28.4	71.	3678.	151.
%RSD	3.152	2.972	3.175	3.057	2.964	3.059	3.059
#1	236500.	4700.	9407.	908.3	2336.	117600.	4822.
#2	247300.	4902.	9839.	948.4	2436.	122800.	5035.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	2398.	12170.	92040.	120700.	4875.	2372.	48430.
SDev	74.	377.	3009.	3795.	150.	71.	1466.
%RSD	3.090	3.095	3.269	3.143	3.067	3.008	3.026
#1	2345.	11910.	89910.	118100.	4769.	2322.	47390.
#2	2450.	12440.	94170.	123400.	4981.	2423.	49470.

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1216.	123300.	4709.	2439.	2439.	2428.	2374.
SDev	36.	3519.	146.	75.	73.	77.	87.
%RSD	2.943	2.854	3.104	3.056	2.999	3.165	3.646
#1	1190.	120800.	4606.	2386.	2387.	2373.	2313.
#2	1241.	125800.	4812.	2492.	2491.	2482.	2435.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	4783.	975.8	9568.	9717.	4746.	987.4	9691.
SDev	151.	27.6	304.	235.	102.	18.7	231.
%RSD	3.157	2.833	3.174	2.416	2.144	1.893	2.388
#1	4676.	956.3	9353.	9551.	4674.	974.2	9527.
#2	4889.	995.4	9783.	9883.	4818.	1001.	9855.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	9730.	985.2	991.9	4741.	4748.	963.1	
SDev	236.	16.7	22.6	93.	106.	30.4	
%RSD	2.430	1.697	2.283	1.967	2.232	3.157	
#1	9562.	973.4	975.9	4675.	4673.	941.6	
#2	9897.	997.0	1008.	4807.	4823.	984.6	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1104.	
Low						896.0	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1012	--	--	--	--	--	--
SDev	18.70294	--	--	--	--	--	--
%RSD	1.847204	--	--	--	--	--	--
#1	1026	--	--	--	--	--	--
#2	999	--	--	--	--	--	--

305658

Method: SW846 Sample Name: CCB4 Operator:
Run Time: 10/20/98 18:24:53
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-2.548	2.318	-.1522	-.0024	-.0192	-3.060	-.0501
SDev	4.165	1.302	.0659	.0141	.0020	.876	.4617
%RSD	163.5	56.16	43.26	586.0	10.17	28.64	921.5
#1	.3969	3.239	-.1057	-.0124	-.0178	-2.440	.2764
#2	-5.493	1.397	-.1988	.0076	-.0206	-3.679	-.3766
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2080	-.0516	1.174	6.130	-.1106	-.6927	203.8
SDev	.0611	.7193	9.775	2.274	.1099	.2988	.6
%RSD	29.37	1395.	832.5	37.09	99.33	43.14	.2745
#1	.1648	.4571	8.086	7.738	-.0329	-.9040	204.2
#2	.2512	-.5602	-5.738	4.522	-.1883	-.4814	203.4
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.2779	-110.6	.5209	.1770	.0316	.4726	-.6551
SDev	.2068	434.3	3.695	.5053	.0995	.3230	1.0173
%RSD	74.41	392.6	709.3	285.5	314.9	68.35	155.3
#1	.4242	196.5	3.134	.5343	.1020	.2442	.0643
#2	.1317	-417.7	-2.092	-.1803	-.0388	.7009	-1.374
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.1905	-.4784	1.602	-1.238	-2.089	-1.440	.7447
SDev	.0468	.0506	1.204	1.182	.185	1.331	1.663
%RSD	24.55	10.58	75.18	95.49	8.873	92.39	223.3
#1	-.1575	-.4426	2.454	-.4021	-2.220	-2.381	1.921
#2	-.2236	-.5142	.7503	-2.074	-1.958	-.4994	-.4313
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496

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Units						ppb
Avge	-2.241	-1.410	-1.525	1.719	-4.003	-.9191
SDev	.942	1.081	1.832	4.813	2.125	.8189
%RSD	42.03	76.63	120.2	279.9	53.09	89.10
#1	-1.575	-2.174	-2.821	-1.684	-2.500	-.3401
#2	-2.907	-.6459	-.2293	5.123	-5.505	-1.498
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						15.00
Low						-9.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1019	--	--	--	--	--	--
SDev	.4065519	--	--	--	--	--	--
%RSD	.0398918	--	--	--	--	--	--
#1	1019	--	--	--	--	--	--
#2	1019	--	--	--	--	--	--

Method: SW846 Sample Name: 88677-2X Operator:
Run Time: 10/20/98 18:30:14
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	26490.	13.19	341.0	1.826	4.830	20220.	192.7
SDev	44.	1.86	.7	.010	.045	4.	.2
%RSD	.1664	14.08	.2051	.5489	.9226	.0206	.0827
#1	26520.	14.51	341.5	1.833	4.862	20220.	192.6
#2	26450.	11.88	340.5	1.819	4.799	20220.	192.8
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	74.28	303.7	119400.	16370.	1041.	129.6	7946.
SDev	.27	1.2	44.	5.	.	.9	10.
%RSD	.3625	.3931	.0371	.0296	.0107	.7279	.1269
#1	74.08	304.6	119400.	16370.	1041.	130.3	7954.
#2	74.47	302.9	119300.	16380.	1041.	129.0	7939.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

305660

Avge	-.1801	557.4	-9.039	253.1	1595.	9.015	H6905.
SDev	.2570	141.9	1.683	.6	1.	.053	7.
%RSD	142.7	25.47	18.62	.2359	.0381	.5842	.0973
#1	.0017	657.7	-7.849	253.5	1596.	9.052	H6900.
#2	-.3619	457.0	L-10.23	252.7	1595.	8.978	H6909.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	43.96	22.96	2079.	335.0	-3.168	-1.633	336.1
SDev	.06	1.08	2.	3.3	3.299	1.060	3.2
%RSD	.1322	4.707	.0998	.9774	104.1	64.94	.9434
#1	44.00	23.73	2080.	332.7	L-5.501	-.8830	338.3
#2	43.92	22.20	2077.	337.3	-.8356	-2.383	333.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	

Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496
Units						ppb
Avge	334.5	.0181	-4.961	4.171	-6.843	9.483
SDev	6.5	.7464	1.689	2.414	3.740	.418
%RSD	1.942	4120.	34.04	57.89	54.66	4.407
#1	329.9	.5459	-3.767	2.463	-9.487	9.779
#2	339.1	-.5097	-6.155	5.878	-4.198	9.188
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1112	--	--	--	--	--	--
SDev	3.853697	--	--	--	--	--	--
%RSD	.3464231	--	--	--	--	--	--
#1	1110	--	--	--	--	--	--
#2	1115	--	--	--	--	--	--

Method: SW846 Sample Name: 88684-2X Operator:
Run Time: 10/20/98 18:35:35
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	24770.	10.95	88.37	2.244	-.1230	2408.	40.79
SDev	40.	.88	.09	.012	.0825	7.	.07
%RSD	.1619	8.081	.1025	.5327	67.07	.2712	.1812
#1	24800.	11.57	88.31	2.235	-.0646	2413.	40.84
#2	24740.	10.32	88.44	2.252	-.1813	2404.	40.74
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.04	47.20	58860.	6876.	1478.	39.22	1431.
SDev	.10	.45	132.	17.	5.	.26	7.
%RSD	.5643	.9475	.2239	.2429	.3297	.6677	.5079
#1	17.11	46.89	58770.	6888.	1481.	39.04	1436.
#2	16.97	47.52	58950.	6864.	1474.	39.41	1426.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.0610	371.2	-3.700	54.20	116.8	1.094	1243.
SDev	.0106	80.6	2.781	.53	.7	.008	21.
%RSD	17.39	21.72	75.16	.9762	.5825	.7674	1.700
#1	-.0535	428.2	-1.734	54.58	117.3	1.088	1258.
#2	-.0685	314.2	-5.667	53.83	116.3	1.100	1228.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	20.21	6.431	896.1	12.19	-1.614	-3.377	16.10
SDev	.01	1.440	.6	.19	.232	1.186	.10
%RSD	.0470	22.38	.0643	1.558	14.40	35.12	.6306
#1	20.20	5.413	896.5	12.05	-1.779	-4.215	16.18
#2	20.21	7.449	895.6	12.32	-1.450	-2.538	16.03
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	10.22	-2.899	-4.356	5.341	-5.098	.2421	
SDev	.34	.998	5.560	1.596	.448	.2724	
%RSD	3.283	34.42	127.6	29.88	8.791	112.5	
#1	9.980	-2.194	-8.287	4.213	-4.781	.0495	

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#2	10.45	-3.605	-.4242	6.470	-5.415	.4347
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1083	--	--	--	--	--	--
SDev	1.166743	--	--	--	--	--	--
%RSD	.1076903	--	--	--	--	--	--
#1	1083	--	--	--	--	--	--
#2	1084	--	--	--	--	--	--

Method: SW846 Sample Name: 88685-2X Operator:
Run Time: 10/20/98 18:40:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	31430.	16.35	125.4	2.824	.9694	2734.	38.62
SDev	644.	1.93	2.6	.053	.0942	48.	.90
%RSD	2.049	11.79	2.053	1.863	9.716	1.759	2.340
#1	31880.	14.99	127.2	2.861	1.036	2768.	39.26
#2	30970.	17.71	123.5	2.787	.9028	2700.	37.98
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	10000.	20000.	2000.	5000.	250000.	10000.
Low	-199.0	-9.900	-10.00	-4.900	-4.900	-400.0	-9.900

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	25.63	54.71	87230.	9949.	746.4	57.63	1335.
SDev	.16	1.47	1901.	179.	13.2	1.59	43.
%RSD	.6052	2.678	2.180	1.804	1.771	2.755	3.248
#1	25.74	55.75	88570.	10080.	755.8	58.75	1365.
#2	25.52	53.67	85890.	9822.	737.1	56.50	1304.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5000.	25000.	200000.	250000.	10000.	5000.	100000.
Low	-9.900	-9.900	-99.00	-400.0	-9.900	-9.900	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2802	475.7	-4.287	76.25	404.7	1.245	1316.
SDev	.7055	212.4	.563	1.41	7.1	.226	24.
%RSD	251.8	44.66	13.14	1.844	1.761	18.13	1.856
#1	.2187	325.5	-3.889	77.25	409.7	1.086	1333.
#2	-.7791	625.9	-4.686	75.26	399.7	1.405	1299.

305663

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2500.	250000.	10000.	5000.	5000.	5000.	5000.
Low	-4.500	-1000.	-9.900	-9.900	-9.900	-2.900	-4.900
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	18.21	6.806	698.8	21.03	-2.967	-3.459	27.52
SDev	.35	.448	13.2	.82	3.497	1.612	1.54
%RSD	1.933	6.585	1.891	3.877	117.9	46.62	5.609
#1	18.46	7.123	708.1	21.61	L-5.439	-2.319	28.61
#2	17.96	6.489	689.4	20.45	-.4940	-4.599	26.43

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	10000.	2000.	100000.	20000.	10000.	2000.	
Low	-2.900	-2.900	-10.00	-2.900	-4.900	-15.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	17.78	-3.349	-3.701	6.335	-7.622	-.5297	
SDev	.45	3.189	1.546	5.231	2.631	.5162	
%RSD	2.535	95.22	41.77	82.56	34.53	97.46	
#1	18.09	-1.094	-4.794	2.637	-9.482	-.8947	
#2	17.46	-5.604	-2.608	10.03	-5.761	-.1647	

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High						5000.
Low						-4.900

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1095	--	--	--	--	--	--
SDev	15.27349	--	--	--	--	--	--
%RSD	1.394553	--	--	--	--	--	--
#1	1084	--	--	--	--	--	--
#2	1106	--	--	--	--	--	--

Method: SW846 Sample Name: ICSA2 Operator:
Run Time: 10/20/98 18:46:16
Comment: 503771
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	495500.	1.621	3.898	-.0613	.0781	455000.	-.0301
SDev	3765.	1.695	.044	.0115	.1309	3194.	.3813
%RSD	.7598	104.6	1.137	18.75	167.7	.7020	1267.
#1	498200.	.4222	3.929	-.0694	-.0145	457200.	.2396
#2	492900.	2.819	3.866	-.0532	.1707	452700.	-.2997

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	10.00	20.00	5.000	3.500	600000.	5.000
Low	400000.	-10.00	-10.00	-5.000	-3.500	400000.	-5.000
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.3850	-2.602	181700.	503300.	1.009	.5344	111.0
SDev	.0213	.110	1550.	3575.	.190	.1436	10.5
%RSD	5.522	4.237	.8531	.7103	18.82	26.87	9.438
#1	.3699	-2.680	182800.	505800.	1.144	.4329	118.4
#2	.4000	-2.524	180600.	500700.	.8749	.6359	103.6
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	20.00	240000.	600000.	10.00	10.00	500.0
Low	-5.000	-10.00	160000.	400000.	-5.000	-5.000	-500.0
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.2065	7.401	-8.241	2.135	-.2128	-1.747	1.264
SDev	.1821	508.8	.489	.415	.1641	.536	1.183
%RSD	88.17	6875.	5.928	19.41	77.11	30.66	93.60
#1	-.0778	367.2	-8.587	2.429	-.0968	-1.368	.4275
#2	-.3353	-352.4	-7.896	1.842	-.3288	-2.125	2.101
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	10.00	1000.	10.00	10.00	10.00	10.00	15.00
Low	-10.00	-2000.	-10.00	-5.000	-10.00	-5.000	-15.00
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	.8449	-2.231	.2277	-1.369	L-14.35	-.3222	32.51
SDev	.0232	.312	.0869	.117	.39	5.7228	.38
%RSD	2.743	13.98	38.19	8.525	2.705	1776.	1.184
#1	.8613	-2.011	.1662	-1.287	L-14.63	-4.369	32.24
#2	.8285	-2.452	.2891	-1.452	L-14.08	3.724	32.78
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	NOCHECK
High	10.00	10.00	10.00	5.000	10.00	10.00	
Low	-5.000	-5.000	-5.000	-5.000	-10.00	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-18.30	1.878	-4.753	8.094	-25.57	-1.576	
SDev	.36	7.726	1.711	3.173	1.00	.672	
%RSD	1.994	411.5	36.00	39.21	3.919	42.62	
#1	-18.04	-3.585	-5.963	5.850	-24.86	-2.051	
#2	-18.56	7.341	-3.544	10.34	-26.28	-1.101	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-15.00	

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	969	--	--	--	--	--	--
SDev	5.603813	--	--	--	--	--	--
%RSD	.5781820	--	--	--	--	--	--
#1	965	--	--	--	--	--	--
#2	973	--	--	--	--	--	--

Method: SW846 Sample Name: ICSAB2 Operator:
Run Time: 10/20/98 18:51:37
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	503800.	101.9	107.8	98.41	96.26	463800.	97.23
SDev	848.	.1	.2	.01	.10	126.	.49
%RSD	.1684	.1183	.1848	.0075	.1030	.0271	.5059
#1	504400.	102.0	107.9	98.42	96.19	463700.	96.88
#2	503200.	101.8	107.6	98.41	96.33	463900.	97.58
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	120.0	120.0	120.0	120.0	600000.	120.0
Low	400000.	80.00	80.00	80.00	80.00	400000.	80.00

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	96.60	97.43	190600.	514000.	99.16	94.26	10800.
SDev	.02	.19	59.	108.	.13	.27	18.
%RSD	.0180	.1906	.0308	.0210	.1296	.2839	.1663
#1	96.61	97.57	190600.	513900.	99.07	94.45	10810.
#2	96.59	97.30	190500.	514100.	99.25	94.08	10790.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	120.0	120.0	240000.	600000.	120.0	120.0	12000.
Low	80.00	80.00	160000.	400000.	80.00	80.00	8000.

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	104.3	H12160.	93.77	102.7	101.9	98.94	L5.067
SDev	.5	59.	.25	.2	.2	.44	1.450
%RSD	.4917	.4822	.2644	.1894	.2174	.4432	28.62
#1	103.9	H12120.	93.95	102.9	101.7	98.63	L4.041
#2	104.7	H12200.	93.59	102.6	102.0	99.25	L6.093
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	120.0	12000.	120.0	120.0	120.0	120.0	120.0
Low	80.00	8000.	80.00	80.00	80.00	80.00	80.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1

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Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	105.3	101.9	100.5	93.10	88.17	96.06	132.1
SDev	.1	1.0	.2	.70	6.42	4.34	2.7
%RSD	.0992	1.029	.2387	.7571	7.278	4.514	2.059
#1	105.4	102.7	100.3	93.60	92.71	99.12	130.2
#2	105.3	101.2	100.6	92.60	83.63	92.99	134.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	120.0	120.0	120.0	120.0	120.0	120.0	
Low	80.00	80.00	80.00	80.00	80.00	80.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	73.60	99.29	89.56	101.2	81.68	103.7	
SDev	2.42	8.61	4.23	6.8	6.23	.2	
%RSD	3.281	8.676	4.725	6.722	7.623	.2372	
#1	75.31	105.4	86.57	106.0	86.08	103.5	
#2	71.89	93.20	92.55	96.35	77.27	103.9	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						120.0	
Low						80.00	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	975	--	--	--	--	--	--
SDev	.5480250	--	--	--	--	--	--
%RSD	.0561882	--	--	--	--	--	--
#1	975	--	--	--	--	--	--
#2	976	--	--	--	--	--	--

Method: SW846 Sample Name: CCV5 Operator:
Run Time: 10/20/98 18:56:58
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	247900.	4939.	9818.	955.8	2464.	123700.	5067.
SDev	755.	7.	44.	.4	4.	14.	3.
%RSD	.3044	.1376	.4518	.0380	.1474	.0111	.0575
#1	248400.	4934.	9849.	956.1	2461.	123700.	5065.
#2	247400.	4944.	9786.	955.6	2466.	123700.	5069.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	5520.	11040.	1104.	2760.	138000.	5520.
Low	223900.	4478.	8960.	896.0	2239.	112000.	4478.
Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb

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Avge	2471.	12400.	95000.	124500.	5009.	2446.	49110.
SDev	2.	22.	435.	70.	1.	1.	40.
%RSD	.0788	.1780	.4575	.0560	.0268	.0314	.0812
#1	2472.	12420.	95300.	124500.	5008.	2447.	49140.
#2	2470.	12390.	94690.	124600.	5010.	2446.	49080.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2760.	13800.	110400.	138000.	5520.	2760.	55200.
Low	2239.	11200.	89600.	112000.	4478.	2239.	44780.
Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1241.	125500.	4837.	2502.	2508.	2498.	2447.
SDev	3.	149.	12.	3.	.	2.	5.
%RSD	.2535	.1189	.2547	.1250	.0026	.0668	.2217
#1	1244.	125600.	4828.	2500.	2508.	2496.	2450.
#2	1239.	125400.	4846.	2504.	2508.	2499.	2443.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1380.	138000.	5520.	2760.	2760.	2760.	2760.
Low	1120.	112000.	4478.	2239.	2239.	2239.	2239.
Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	4887.	996.9	9808.	9983.	4866.	1011.	9938.
SDev	13.	1.6	23.	41.	11.	1.	25.
%RSD	.2627	.1615	.2300	.4081	.2232	.0772	.2522
#1	4896.	998.1	9824.	9955.	4858.	1012.	9920.
#2	4877.	995.8	9792.	10010.	4874.	1011.	9956.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5520.	1104.	11040.	11040.	5520.	1104.	
Low	4478.	896.0	8960.	8960.	4478.	896.0	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	10010.	1008.	1019.	4834.	4882.	990.7	
SDev	49.	.	2.	10.	11.	.4	
%RSD	.4854	.0052	.2198	.2067	.2313	.0426	
#1	9972.	1008.	1021.	4826.	4874.	990.9	
#2	10040.	1008.	1018.	4841.	4890.	990.4	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						1104.	
Low						896.0	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	999	--	--	--	--	--	--
SDev	6.470044	--	--	--	--	--	--

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%RSD	.6477169	--	--	--	--	--	--
#1	994	--	--	--	--	--	--
#2	1003	--	--	--	--	--	--

Method: SW846 Sample Name: CCB5 Operator:
Run Time: 10/20/98 19:02:19
Comment: 5033T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	10.64	1.529	-.2124	.0029	-.1303	6.448	.1209
SDev	4.83	.568	.2372	.0053	.3197	1.755	.2090
%RSD	45.40	37.13	111.7	182.3	245.4	27.22	172.8
#1	14.05	1.931	-.0447	.0067	.0958	7.690	.2687
#2	7.223	1.128	-.3801	-.0008	-.3563	5.207	-.0268
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	4.000	5.000	1.000	1.500	400.0	5.000
Low	-199.0	-4.000	-5.000	-1.000	-1.500	-400.0	-5.000

Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-.1060	-.1846	.6364	17.58	-.2085	-.1461	240.9
SDev	.0607	.5111	9.184	2.78	.0383	.1078	12.6
%RSD	57.30	276.9	1443.	15.83	18.37	73.75	5.228
#1	-.1489	.1768	7.130	19.55	-.1814	-.0699	249.8
#2	-.0630	-.5460	-5.858	15.62	-.2356	-.2223	232.0
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	5.000	50.00	200.0	5.000	5.000	1000.
Low	-5.000	-5.000	-50.00	-200.0	-5.000	-5.000	-400.0

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.1646	135.2	1.952	.5283	-.1953	.6680	1.412
SDev	.0742	121.6	.132	.3365	.0387	.0802	1.497
%RSD	45.10	89.94	6.757	63.70	19.82	12.01	106.0
#1	.1121	49.20	2.046	.2903	-.2226	.7247	.3535
#2	.2170	221.1	1.859	.7662	-.1679	.6113	2.470
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.000	1000.	9.900	5.000	15.00	10.00	20.00
Low	-5.000	-1000.	-9.900	-5.000	-9.900	-10.00	-20.00

Elem	Sr4215	Sn1899	Ti3349	Pb2203	Se1960	Sb2068	2203/1
Units	ppb	ppb	ppb	ppb	ppb	ppb	
Avge	-.2324	.1657	.7380	-1.438	-4.451	-1.299	.2130
SDev	.0352	.0964	.5859	1.706	1.639	1.003	.4075
%RSD	15.13	58.20	79.40	118.7	36.83	77.22	191.3
#1	-.2075	.2339	1.152	-2.644	L-5.610	-2.008	-.0751

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#2	-.2572	.0975	.3237	-.2315	-3.291	-.5896	.5012
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK
High	5.000	5.000	5.000	3.000	5.000	10.00	
Low	-3.000	-3.000	-5.000	-3.000	-5.000	-10.00	
Elem	2203/2	2068/1	2068/2	1960/1	1960/2	B_2496	
Units						ppb	
Avge	-2.276	-.7156	-2.491	.6705	-7.019	-.4687	
SDev	2.354	1.0404	.928	.7812	2.068	.5895	
%RSD	103.5	145.4	37.26	116.5	29.46	125.8	
#1	-3.940	-1.451	-3.147	.1181	-8.481	-.8856	
#2	-.6107	.0201	-1.835	1.223	-5.557	-.0519	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	
High						15.00	
Low						-9.900	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1001	--	--	--	--	--	--
SDev	3.075897	--	--	--	--	--	--
%RSD	.3071981	--	--	--	--	--	--
#1	999	--	--	--	--	--	--
#2	1003	--	--	--	--	--	--

Method: SW846 Standard: STD1-Blank

Elem	Al3082	As1890	Ba4394	Be3130	Cd2265	Ca3179	Cr2677
Avge	.2923	-.0239	.0162	-.0291	.0418	.2503	.0338
SDev	.0006	.0043	.0011	.0003	.0121	.0010	.0041
%RSD	.2104	17.94	6.797	.9381	28.88	.4111	12.21
#1	.2918	-.0269	.0169	-.0289	.0503	.2510	.0309
#2	.2927	-.0208	.0154	-.0293	.0332	.2495	.0367

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Elem	Co2286	Cu3247	Fe2714	Mg2790	Mn2576	Ni2316	K_7664
Avge	.0072	.0820	-.0020	.0432	.0084	.0467	5.199
SDev	.0039	.0005	.0000	.0034	.0007	.0406	.013
%RSD	53.87	.5865	.2706	7.858	8.049	87.09	.2571
#1	.0100	.0817	-.0020	.0408	.0080	.0179	5.208
#2	.0045	.0824	-.0020	.0456	.0089	.0754	5.189

Elem	Ag3280	Na3302	Tl1908	V_2924	Zn2138	Mo2020	P_1782
Avge	-.1379	.0060	-.0408	.0039	.0577	.0090	.2008
SDev	.0035	.0099	.0212	.0007	.0016	.0120	.0093
%RSD	2.564	164.9	51.97	17.66	2.709	133.6	4.630
#1	-.1404	.0129	-.0558	.0034	.0588	.0174	.1942
#2	-.1354	-.0010	-.0258	.0044	.0566	.0005	.2074

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File : 7057T2.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Instrument Type	Matrix	Dil.	Date	Time	Flag
1	STD1-BLANK		3		1.0	10/21/98	11:56:00	
2	STD2		3		1.0	10/21/98	12:00:00	
3	STD3		3		1.0	10/21/98	12:04:00	
4	STD4		3		1.0	10/21/98	12:08:00	
5	HSA		0		1.0	10/21/98	12:12:00	
6	ICV/CCV1		0		1.0	10/21/98	12:16:00	
7	ICB/CCB1		0		1.0	10/21/98	12:21:00	
8	ICSA1		0		1.0	10/21/98	12:25:00	
9	ICSAB1		0		1.0	10/21/98	12:29:00	
10	INT-20		0		1.0	10/21/98	12:33:00	
11	MCL		0		1.0	10/21/98	12:37:00	
12	BSS101998 Na		0		1.0	10/21/98	12:41:00	
13	PBS101998		0		1.0	10/21/98	12:46:00	
14	LCSS238A		0		2.0	10/21/98	12:50:00	
15	LCSS238AD		0		2.0	10/21/98	12:54:00	
16	88683D		0		2.0	10/21/98	12:58:00	
17	88683		0		2.0	10/21/98	13:02:00	
18	CCV2		0		1.0	10/21/98	13:07:00	
19	CCB2		0		1.0	10/21/98	13:11:00	
20	88683L Na		0		2.0	10/21/98	13:15:00	
21	88683MS		0		2.0	10/21/98	13:19:00	
22	88683MSD		0		2.0	10/21/98	13:23:00	
23	88683A		0		2.0	10/21/98	13:27:00	
24	DW		0		1.0	10/21/98	13:32:00	
25	88683D-10 Ca,Mg		0		10.0	10/21/98	13:36:00	
26	88683-10		0		10.0	10/21/98	13:40:00	
27	88683L-10		0		10.0	10/21/98	13:44:00	
28	88683MS-10		0		10.0	10/21/98	13:48:00	
29	88683MSD-10		0		10.0	10/21/98	13:53:00	
30	CCV3		0		1.0	10/21/98	13:57:00	
31	CCB3		0		1.0	10/21/98	14:01:00	
32	88683A-10 Ca,Mg		0		10.0	10/21/98	14:05:00	
33	89310 Na		0		2.0	10/21/98	14:09:00	
34	88666		0		2.0	10/21/98	14:14:00	
35	88677		0		2.0	10/21/98	14:18:00	
36	ICSA2		0		1.0	10/21/98	14:22:00	
37	ICSAB2		0		1.0	10/21/98	14:26:00	
38	CCV4		0		1.0	10/21/98	14:30:00	
39	CCB4		0		1.0	10/21/98	14:34:00	

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Analysis Report Summary Wed 10-21-98 02:42:33 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	HSA	7057T2	SW846A	10/21/98	12:12		S	CONC
2	ICV/CCV1	7057T2	SW846A	10/21/98	12:16		S	CONC
3	ICB/CCB1	7057T2	SW846A	10/21/98	12:21		S	CONC
4	ICSA1	7057T2	SW846A	10/21/98	12:25		S	CONC
5	ICSAB1	7057T2	SW846A	10/21/98	12:29		S	CONC
6	INT-20	7057T2	SW846A	10/21/98	12:33		S	CONC
7	MCL	7057T2	SW846A	10/21/98	12:37		S	CONC
8	BSS101998	7057T2	SW846A	10/21/98	12:41		S	CONC
9	PBS101998	7057T2	SW846A	10/21/98	12:46		S	CONC
10	LCSS238A-2X	7057T2	SW846A	10/21/98	12:50		S	CONC
11	LCSS238AD-2X	7057T2	SW846A	10/21/98	12:54		S	CONC
12	88683D-2X	7057T2	SW846A	10/21/98	12:58		S	CONC
13	88683-2X	7057T2	SW846A	10/21/98	13:02		S	CONC
14	CCV2	7057T2	SW846A	10/21/98	13:07		S	CONC
15	CCB2	7057T2	SW846A	10/21/98	13:11		S	CONC
16	88683L-2X	7057T2	SW846A	10/21/98	13:15		S	CONC
17	88683MS-2X	7057T2	SW846A	10/21/98	13:19		S	CONC
18	88683MSD-2X	7057T2	SW846A	10/21/98	13:23		S	CONC
19	88683A-2X	7057T2	SW846A	10/21/98	13:27		S	CONC
20	DW	7057T2	SW846A	10/21/98	13:32		S	CONC
21	88683D-10X	7057T2	SW846A	10/21/98	13:36		S	CONC
22	88683-10X	7057T2	SW846A	10/21/98	13:40		S	CONC
23	88683L-10X	7057T2	SW846A	10/21/98	13:44		S	CONC
24	88683MS-10X	7057T2	SW846A	10/21/98	13:48		S	CONC
25	88683MSD-10X	7057T2	SW846A	10/21/98	13:53		S	CONC
26	CCV3	7057T2	SW846A	10/21/98	13:57		S	CONC
27	CCB3	7057T2	SW846A	10/21/98	14:01		S	CONC
28	88683A-10X	7057T2	SW846A	10/21/98	14:05		S	CONC
29	89310-2X	7057T2	SW846A	10/21/98	14:09		S	CONC
30	88666-2X	7057T2	SW846A	10/21/98	14:14		S	CONC
31	88677-2X	7057T2	SW846A	10/21/98	14:18		S	CONC
32	ICSA2	7057T2	SW846A	10/21/98	14:22		S	CONC
33	ICSAB2	7057T2	SW846A	10/21/98	14:26		S	CONC
34	CCV4	7057T2	SW846A	10/21/98	14:30		S	CONC
35	CCB4	7057T2	SW846A	10/21/98	14:34		S	CONC

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#	Sample Name	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138
1	HSA	498200.	244000.	198300.	253400.	248900.	4853.
2	ICV/CCV1	250900.	125800.	97640.	126400.	123800.	2510.
3	ICB/CCB1	24.15	.9055	.2856	10.44	-694.6	-.1939
4	ICSA1	497800.	448700.	188500.	498700.	49.16	-.9708
5	ICSAB1	490100.	446500.	185200.	495400.	11710.	97.10
6	INT-20	644.2	76.28	1349.	-.0960	-4246.	104.2
7	MCL	223.9	5238.	202.5	5167.	11560.	52.75
8	BSS101998	1790.	17970.	928.8	17470.	19850.	444.9
9	PBS101998	15.48	127.9	3.868	31.51	217.2	2.788
10	LCSS238A-2X	20970.	8586.	46220.	7256.	4816.	346.1
11	LCSS238AD-2X	20720.	8634.	45740.	7235.	4967.	341.9
12	88683D-2X	17300.	H440900.	61630.	H271300.	547.3	152.1
13	88683-2X	15260.	H454400.	70590.	H284700.	673.1	188.6
14	CCV2	250100.	124700.	99700.	125600.	124200.	2471.
15	CCB2	-4.006	14.92	4.498	16.02	-420.0	-.0167
16	88683L-2X	3113.	98840.	14950.	56160.	-245.2	41.85
17	88683MS-2X	18740.	H418000.	68900.	H256200.	10500.	382.8
18	88683MSD-2X	19300.	H406200.	66750.	H252200.	10870.	421.3
19	88683A-2X	17220.	H471500.	73500.	H306000.	21820.	649.1
20	DW	.0434	38.79	5.695	32.27	-68.87	-.1220
21	88683D-10X	3497.	96100.	12880.	53750.	11.07	40.96
22	88683-10X	3099.	99610.	15300.	56710.	-170.0	47.92
23	88683L-10X	626.4	20790.	3136.	11530.	-369.6	13.31
24	88683MS-10X	3812.	90810.	14370.	50840.	2143.	89.18
25	88683MSD-10X	3891.	87020.	13760.	49350.	2383.	89.70
26	CCV3	255300.	126000.	101700.	126900.	126900.	2491.
27	CCB3	6.582	.9072	-8.213	6.923	-223.4	-.1999
28	88683A-10X	5106.	117000.	16070.	75330.	22210.	523.2
29	89310-2X	39880.	23340.	135200.	10820.	268.2	411.3
30	88666-2X	36980.	50050.	63530.	9628.	1136.	1258.
31	88677-2X	26980.	20540.	125300.	16720.	403.3	1571.
32	ICSA2	498400.	458200.	195500.	511800.	75.99	-1.484
33	ICSAB2	496100.	449500.	189600.	499600.	11730.	96.58
34	CCV4	254700.	126000.	99010.	126500.	126200.	2506.
35	CCB4	17.58	15.63	17.13	22.06	-71.50	-.2567

#	Sample Name	Ti3349
1	HSA	20010.
2	ICV/CCV1	9995.
3	ICB/CCB1	-.1313
4	ICSA1	.2053
5	ICSAB1	96.28
6	INT-20	19820.
7	MCL	43.20
8	BSS101998	445.3
9	PBS101998	-.6833
10	LCSS238A-2X	1387.
11	LCSS238AD-2X	1372.
12	88683D-2X	696.3
13	88683-2X	552.1
14	CCV2	9992.

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#	Sample Name	Ti3349
15	CCB2	-.2896
16	88683L-2X	112.6
17	88683MS-2X	921.9
18	88683MSD-2X	912.5
19	88683A-2X	991.5
20	DW	-.2348
21	886B3D-10X	143.4
22	88683-10X	114.3
23	88683L-10X	21.68
24	88683MS-10X	190.3
25	88683MSD-10X	186.9
26	CCV3	10190.
27	CCB3	.0954
28	88683A-10X	568.6
29	89310-2X	1398.
30	88666-2X	1160.
31	88677-2X	2126.
32	ICSA2	-.1738
33	ICSAB2	98.93
34	CCV4	10110.
35	CCB4	.1312

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Method: SW846A Standard: STD1-Blank

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Avge	.3027	.1823	-.0108	.0163	.0119	.0578	-.2528
SDev	.0033	.0020	.0015	.0015	.0076	.0003	.0226
%RSD	1.097	1.092	13.97	9.258	64.15	.4933	8.934
#1	.3050	.1837	-.0119	.0173	.0173	.0580	-.2687
#2	.3003	.1808	-.0098	.0152	.0065	.0576	-.2368

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	922	--	--	--	--	--	--
SDev	1.573338	--	--	--	--	--	--
%RSD	.1706834	--	--	--	--	--	--
#1	923	--	--	--	--	--	--
#2	921	--	--	--	--	--	--

Method: SW846A Standard: ~~STD4~~ STD2 Ga 10/21/98

Elem	Al3082	Ca3179	Fe2714	Mg2790	Zn2138	Ti3349
Avge	91.57	88.54	18.41	44.54	13.37	151.2
SDev	.22	.53	.09	.25	.09	.7
%RSD	.2438	.6035	.4823	.5679	.6662	.4795
#1	91.41	88.16	18.35	44.36	13.30	150.7
#2	91.72	88.92	18.47	44.72	13.43	151.7

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	930	--	--	--	--	--	--
SDev	2.757691	--	--	--	--	--	--
%RSD	.2964940	--	--	--	--	--	--
#1	932	--	--	--	--	--	--
#2	928	--	--	--	--	--	--

Method: SW846A Standard: STD3

Elem	Al3082	Ca3179	Fe2714	Mg2790	Zn2138	Ti3349
Avge	448.0	418.7	86.93	219.5	62.57	736.3
SDev	1.2	.9	.15	.5	.17	1.8
%RSD	.2635	.2194	.1730	.2402	.2708	.2377
#1	448.9	419.4	87.04	219.9	62.69	737.6
#2	447.2	418.1	86.82	219.1	62.45	735.1

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IntStd	1	2	3	4	5	6	7

Wavlen	371.030	--	--	--	--	--	--
Avge	911	--	--	--	--	--	--
SDev	3.235022	--	--	--	--	--	--
%RSD	.3551116	--	--	--	--	--	--
#1	909	--	--	--	--	--	--
#2	913	--	--	--	--	--	--

Method: SW846A Standard: ~~STD2~~ STD1 fx 10/21/98

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Avge	898.9	828.7	177.2	449.8	25.15	123.1	1500.
SDev	.1	.2	.2	.2	.04	.2	1.
%RSD	.0077	.0237	.1183	.0383	.1779	.2022	.0382
#1	899.0	828.8	177.0	449.9	25.18	123.2	1500.
#2	898.9	828.5	177.3	449.6	25.12	122.9	1499.

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	880	--	--	--	--	--	--
SDev	3.588576	--	--	--	--	--	--
%RSD	.4079839	--	--	--	--	--	--
#1	877	--	--	--	--	--	--
#2	882	--	--	--	--	--	--

Method: SW846A Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	Multiple	Standards	554.218	-172.542	10/21/98 12:08:28
Ca3179	317.933	Multiple	Standards	294.257	-62.1786	10/21/98 12:08:28
Fe2714	271.441	Multiple	Standards	1119.48	6.85484	10/21/98 12:08:28
Mg2790	279.078	Multiple	Standards	562.211	-9.12764	10/21/98 12:08:28
Na3302	330.232	STD2	STD1-Blank	.838049	.013005	10/21/98 12:08:28
Zn2138	213.856	Multiple	Standards	39.5542	-2.49133	10/21/98 12:08:28
Ti3349	334.941	Multiple	Standards	13.3758	3.18619	10/21/98 12:08:28

Method: SW846A

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al3082	308.215	STD1-Blank	.000000	-4.79662	4.79662
		STD4	50000.0	50575.6	-575.629
		STD3	250000.	248126.	1874.19
		STD2	500000.	498020.	1980.34

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca3179	317.933	STD1-Blank	.000000	-8.54943	8.54943
		STD4	25000.0	25991.0	-990.986
		STD3	125000.	123153.	1847.30

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	STD2	250000.	243785.	6215.30

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe2714	271.441	STD1-Blank	.000000	-5.28843	5.28843
		STD4	20000.0	20615.9	-615.943
		STD3	100000.	97323.8	2676.23
		STD2	200000.	198352.	1647.55

CorCoef: 0.99993

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg2790	279.078	STD1-Blank	.000000	.020356	-.020356
		STD4	25000.0	25033.1	-33.0957
		STD3	125000.	123409.	1591.02
		STD2	250000.	252851.	-2851.11

CorCoef: 0.99992

Element	Wavelength	Standard	Known Signal	Measured Signal	Residual Signal
Na3302	330.232	STD1-Blank	.023000	.011927	.011073
		STD2	21.0913	25.1517	-4.06032

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn2138	213.856	STD1-Blank	.000000	-.206361	.206361
		STD4	500.000	526.250	-26.2499
		STD3	2500.00	2472.56	27.4421
		STD2	5000.00	4865.58	134.416

CorCoef: 0.99995

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti3349	334.941	STD1-Blank	.000000	-.194542	.194542
		STD4	2000.00	2025.89	-25.8898
		STD3	10000.0	9852.05	147.953
		STD2	20000.0	20063.6	-63.6328

CorCoef: 0.99995

Method: SW846A Sample Name: HSA Operator:
Run Time: 10/21/98 12:12:41
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	498200.	244000.	198300.	253400.	248900.	4853.	20010.
SDev	1.	556.	50.	687.	58.	8.	.
%RSD	.0002	.2277	.0251	.2712	.0234	.1717	.0022
#1	498200.	243600.	198300.	252900.	249000.	4847.	20010.
#2	498200.	244400.	198400.	253900.	248900.	4859.	20010.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	527200.	263600.	210800.	263600.	263600.	5272.	21080.
Low	472800.	236400.	189200.	236400.	236400.	4728.	18920.

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IntStd	1	2	3	4	5	6	7

Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	885	--	--	--	--	--	--
SDev	.7601484	--	--	--	--	--	--
%RSD	.0858573	--	--	--	--	--	--
#1	885	--	--	--	--	--	--
#2	886	--	--	--	--	--	--

Method: SW846A Sample Name: ICV/CCV1 Operator:
Run Time: 10/21/98 12:16:52
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250900.	125800.	97640.	126400.	123800.	2510.	9995.
SDev	642.	220.	142.	132.	612.	2.	8.
%RSD	.2558	.1749	.1456	.1048	.4946	.0737	.0804
#1	251400.	125700.	97750.	126300.	124200.	2509.	10000.
#2	250500.	126000.	97540.	126500.	123400.	2511.	9990.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	138000.	110400.	138000.	138000.	2760.	11040.
Low	223900.	112000.	89600.	112000.	112000.	2239.	8960.

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	909	--	--	--	--	--	--
SDev	.6540651	--	--	--	--	--	--
%RSD	.0719474	--	--	--	--	--	--
#1	910	--	--	--	--	--	--
#2	909	--	--	--	--	--	--

Method: SW846A Sample Name: ICB/CCB1 Operator:
Run Time: 10/21/98 12:21:03
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	24.15	.9055	.2856	10.44	-694.6	-.1939	-.1313
SDev	1.81	.5948	2.478	1.47	387.9	.0077	.4078
%RSD	7.497	65.69	867.5	14.10	55.84	3.962	310.7
#1	25.43	1.326	-1.466	9.401	-420.3	-.1994	.1571
#2	22.87	.4849	2.038	11.48	-968.9	-.1885	-.4197
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	400.0	50.00	200.0	1000.	15.00	5.000

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Low	-199.0	-400.0	-50.00	-200.0	-1000.	-9.900	-5.000
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	934	--	--	--	--	--	--
SDev	9.333818	--	--	--	--	--	--
%RSD	.9993114	--	--	--	--	--	--
#1	941	--	--	--	--	--	--
#2	927	--	--	--	--	--	--

Method: SW846A Sample Name: ICSA1 Operator:
Run Time: 10/21/98 12:25:14
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	497800.	448700.	188500.	498700.	49.16	-.9708	.2053
SDev	820.	449.	74.	1267.	408.8	.1513	.2254
%RSD	.1648	.1001	.0395	.2540	831.6	15.58	109.8
#1	497300.	448400.	188400.	497800.	338.2	-.8639	.3647
#2	498400.	449000.	188500.	499600.	-239.9	-1.078	.0459
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	600000.	240000.	600000.	1000.	10.00	10.00
Low	400000.	400000.	160000.	400000.	-2000.	-10.00	-5.000
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	889	--	--	--	--	--	--
SDev	.5480250	--	--	--	--	--	--
%RSD	.0616408	--	--	--	--	--	--
#1	889	--	--	--	--	--	--
#2	889	--	--	--	--	--	--

Method: SW846A Sample Name: ICSAB1 Operator:
Run Time: 10/21/98 12:29:25
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	490100.	446500.	185200.	495400.	11710.	97.10	96.28
SDev	1273.	1668.	347.	2077.	32.	.15	.72
%RSD	.2599	.3735	.1875	.4192	.2729	.1537	.7494
#1	489200.	445300.	185000.	494000.	11730.	97.00	96.79
#2	491000.	447700.	185500.	496900.	11680.	97.21	95.77

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Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	600000.	240000.	600000.	12000.	120.0	120.0
Low	400000.	400000.	160000.	400000.	8000.	80.00	80.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	888	--	--	--	--	--	--
SDev	.4773316	--	--	--	--	--	--
%RSD	.0537377	--	--	--	--	--	--
#1	889	--	--	--	--	--	--
#2	888	--	--	--	--	--	--

Method: SW846A Sample Name: INT-20 Operator:
Run Time: 10/21/98 12:33:36
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	644.2	76.28	1349.	-.0960	-4246.	104.2	19820.
SDev	3.4	6.48	.	6.8076	27.	.2	14.
%RSD	.5302	8.493	.0037	7093.	.6284	.2155	.0715
#1	646.7	80.86	1349.	4.718	-4227.	104.1	19830.
#2	641.8	71.70	1349.	-4.910	-4265.	104.4	19810.

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	933	--	--	--	--	--	--
SDev	.6540651	--	--	--	--	--	--
%RSD	.0700668	--	--	--	--	--	--
#1	934	--	--	--	--	--	--
#2	933	--	--	--	--	--	--

Method: SW846A Sample Name: MCL Operator:
Run Time: 10/21/98 12:37:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	223.9	5238.	202.5	5167.	11560.	52.75	43.20
SDev	3.8	9.	5.5	9.	149.	.05	.41
%RSD	1.705	.1741	2.705	.1746	1.284	.0868	.9376
#1	226.6	5244.	198.7	5173.	11460.	52.72	42.91
#2	221.2	5231.	206.4	5160.	11670.	52.78	43.48

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	950	--	--	--	--	--	--
SDev	1.732420	--	--	--	--	--	--
%RSD	.1824080	--	--	--	--	--	--
#1	949	--	--	--	--	--	--
#2	951	--	--	--	--	--	--

Method: SW846A Sample Name: BSS101998 Operator:
Run Time: 10/21/98 12:41:57
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	1790.	17970.	928.8	17470.	19850.	444.9	445.3
SDev	6.	56.	20.0	17.	122.	.8	.6
%RSD	.3401	.3138	2.158	.0948	.6169	.1842	.1364
#1	1794.	17930.	943.0	17460.	19930.	444.3	445.7
#2	1786.	18010.	914.6	17480.	19760.	445.5	444.9
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2400.	24000.	1200.	24000.	24000.	600.0	600.0
Low	1600.	16000.	800.0	16000.	16000.	400.0	400.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	932	--	--	--	--	--	--
SDev	1.202047	--	--	--	--	--	--
%RSD	.1289300	--	--	--	--	--	--
#1	933	--	--	--	--	--	--
#2	931	--	--	--	--	--	--

Method: SW846A Sample Name: PBS101998 Operator:
Run Time: 10/21/98 12:46:08
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15.48	127.9	3.868	31.51	217.2	2.788	-.6833
SDev	.81	1.5	9.394	.87	209.2	.045	.7337
%RSD	5.208	1.172	242.9	2.749	96.33	1.622	107.4
#1	14.91	128.9	10.51	32.12	365.1	2.820	-.1645
#2	16.05	126.8	-2.775	30.89	69.24	2.756	-1.202
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

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High	199.0	500.0	99.00	500.0	1000.	15.00	10.00
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-5.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	927	--	--	--	--	--	--
SDev	.1944716	--	--	--	--	--	--
%RSD	.0209783	--	--	--	--	--	--
#1	927	--	--	--	--	--	--
#2	927	--	--	--	--	--	--

Method: SW846A Sample Name: LCSS238A-2X Operator:
Run Time: 10/21/98 12:50:18
Comment: 5062_W
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20970.	8586.	46220.	7256.	4816.	346.1	1387.
SDev	3.	16.	169.	15.	133.	.5	3.
%RSD	.0147	.1854	.3664	.2039	2.763	.1374	.2396
#1	20970.	8575.	46100.	7246.	4722.	345.8	1385.
#2	20970.	8597.	46340.	7266.	4910.	346.5	1390.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39450.	16450.	63500.	12500.	7800.	575.0	2380.
Low	14250.	6050.	17350.	5800.	2700.	253.5	695.0

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	956	--	--	--	--	--	--
SDev	1.891502	--	--	--	--	--	--
%RSD	.1979413	--	--	--	--	--	--
#1	957	--	--	--	--	--	--
#2	954	--	--	--	--	--	--

Method: SW846A Sample Name: LCSS238AD-2X Operator:
Run Time: 10/21/98 12:54:30
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	20720.	8634.	45740.	7235.	4967.	341.9	1372.
SDev	2.	8.	52.	13.	28.	.0	2.
%RSD	.0103	.0878	.1147	.1754	.5547	.0141	.1680
#1	20730.	8628.	45710.	7226.	4986.	341.8	1371.

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#2	20720.	8639.	45780.	7244.	4947.	341.9	1374.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	39450.	16450.	63500.	12500.	7800.	575.0	2380.
Low	14250.	6050.	17350.	5800.	2700.	253.5	695.0
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	964	--	--	--	--	--	--
SDev	1.767767	--	--	--	--	--	--
%RSD	.1833260	--	--	--	--	--	--
#1	963	--	--	--	--	--	--
#2	966	--	--	--	--	--	--

Method: SW846A Sample Name: 88683D-2X Operator:
Run Time: 10/21/98 12:58:41
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17300.	H440900.	61630.	H271300.	547.3	152.1	696.3
SDev	29.	130.	249.	139.	249.9	.1	1.7
%RSD	.1677	.0295	.4033	.0513	45.66	.0874	.2488
#1	17320.	H441000.	61810.	H271400.	370.6	152.2	697.5
#2	17280.	H440800.	61460.	H271200.	724.0	152.0	695.1
Errors	LC Pass	LC High	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	922	--	--	--	--	--	--
SDev	2.740039	--	--	--	--	--	--
%RSD	.2972044	--	--	--	--	--	--
#1	920	--	--	--	--	--	--
#2	924	--	--	--	--	--	--

Method: SW846A Sample Name: 88683-2X Operator:
Run Time: 10/21/98 13:02:52
Comment: 5010
Mode: CONC Corr. Factor: 1

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Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	15260.	H454400.	70590.	H284700.	673.1	188.6	552.1
SDev	42.	1398.	41.	433.	286.3	.1	.2

%RSD	.2746	.3077	.0575	.1522	42.54	.0604	.0356
#1	15290.	H453400.	70620.	H284400.	875.6	188.5	552.0
#2	15230.	H455400.	70560.	H285000.	470.6	188.7	552.2
Errors	LC Pass	LC High	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	919	--	--	--	--	--	--
SDev	2.439527	--	--	--	--	--	--
%RSD	.2654256	--	--	--	--	--	--
#1	917	--	--	--	--	--	--
#2	921	--	--	--	--	--	--

Method: SW846A Sample Name: CCV2 Operator:
Run Time: 10/21/98 13:07:04
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	250100.	124700.	99700.	125600.	124200.	2471.	9992.
SDev	210.	65.	164.	7.	184.	3.	2.
%RSD	.0839	.0519	.1643	.0056	.1481	.1266	.0186
#1	250300.	124600.	99590.	125600.	124300.	2473.	9991.
#2	250000.	124700.	99820.	125600.	124100.	2469.	9993.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	138000.	110400.	138000.	138000.	2760.	11040.
Low	223900.	112000.	89600.	112000.	112000.	2239.	8960.
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	922	--	--	--	--	--	--
SDev	1.361172	--	--	--	--	--	--
%RSD	.1476185	--	--	--	--	--	--
#1	921	--	--	--	--	--	--
#2	923	--	--	--	--	--	--

Method: SW846A Sample Name: CCB2 Operator:
Run Time: 10/21/98 13:11:15
Comment: 5027T1
Mode: CONC Corr. Factor: 1

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Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349

Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	-4.006	14.92	4.498	16.02	-420.0	-.0167	-.2896
SDev	.849	1.15	10.11	.91	.5	.0102	.8782
%RSD	21.20	7.675	224.9	5.660	.1195	61.19	303.2
#1	-3.405	15.73	-2.654	15.38	-420.4	-.0095	-.9106
#2	-4.606	14.11	11.65	16.67	-419.6	-.0239	.3314
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	400.0	50.00	200.0	1000.	15.00	5.000
Low	-199.0	-400.0	-50.00	-200.0	-1000.	-9.900	-5.000
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	939	--	--	--	--	--	--
SDev	2.245055	--	--	--	--	--	--
%RSD	.2391314	--	--	--	--	--	--
#1	940	--	--	--	--	--	--
#2	937	--	--	--	--	--	--

Method: SW846A Sample Name: 88683L-2X Operator:
Run Time: 10/21/98 13:15:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3113.	98840.	14950.	56160.	-245.2	41.85	112.6
SDev	10.	163.	27.	22.	.3	.06	.1
%RSD	.3292	.1654	.1832	.0398	.1142	.1397	.1166
#1	3121.	98720.	14930.	56140.	-245.4	41.89	112.7
#2	3106.	98950.	14970.	56170.	-245.0	41.81	112.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	915	--	--	--	--	--	--
SDev	.7247586	--	--	--	--	--	--
%RSD	.0791988	--	--	--	--	--	--
#1	916	--	--	--	--	--	--
#2	915	--	--	--	--	--	--

305685

Method: SW846A Sample Name: 88683MS-2X Operator:
Run Time: 10/21/98 13:19:36

Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	18740.	H418000.	68900.	H256200.	10500.	382.8	921.9
SDev	55.	391.	223.	13.	67.	.4	2.3
%RSD	.2946	.0935	.3233	.0049	.6370	.0994	.2548
#1	18700.	H418200.	68740.	H256200.	10450.	383.1	920.3
#2	18780.	H417700.	69050.	H256200.	10550.	382.5	923.6
Errors	LC Pass	LC High	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	917	--	--	--	--	--	--
SDev	2.386485	--	--	--	--	--	--
%RSD	.2601464	--	--	--	--	--	--
#1	916	--	--	--	--	--	--
#2	919	--	--	--	--	--	--

Method: SW846A Sample Name: 88683MSD-2X Operator:
Run Time: 10/21/98 13:23:47
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	19300.	H406200.	66750.	H252200.	10870.	421.3	912.5
SDev	50.	232.	144.	395.	36.	1.2	.6
%RSD	.2577	.0572	.2160	.1568	.3274	.2941	.0631
#1	19330.	H406400.	66650.	H252500.	10850.	422.2	912.1
#2	19260.	H406100.	66850.	H251900.	10900.	420.4	912.9
Errors	LC Pass	LC High	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	929	--	--	--	--	--	--
SDev	2.563262	--	--	--	--	--	--
%RSD	.2758680	--	--	--	--	--	--
#1	927	--	--	--	--	--	--
#2	931	--	--	--	--	--	--

305686

Method: SW846A Sample Name: 88683A-2X Operator:
Run Time: 10/21/98 13:27:58
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17220.	H471500.	73500.	H306000.	21820.	649.1	991.5
SDev	8.	487.	62.	318.	331.	.5	1.3
%RSD	.0475	.1034	.0839	.1040	1.517	.0730	.1294
#1	17220.	H471100.	73540.	H305700.	21580.	648.8	992.4
#2	17210.	H471800.	73460.	H306200.	22050.	649.5	990.6
Errors	LC Pass	LC High	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	925	--	--	--	--	--	--
SDev	1.378867	--	--	--	--	--	--
%RSD	.1490707	--	--	--	--	--	--
#1	924	--	--	--	--	--	--
#2	926	--	--	--	--	--	--

Method: SW846A Sample Name: DW Operator:
Run Time: 10/21/98 13:32:09
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	.0434	38.79	5.695	32.27	-68.87	-.1220	-.2348
SDev	4.417	5.72	8.512	5.65	357.77	.1099	1.2723
%RSD	10180.	14.75	149.5	17.52	519.5	90.07	541.9
#1	3.167	42.83	11.71	36.27	184.1	-.0443	.6649
#2	-3.080	34.74	-.3242	28.27	-321.8	-.1997	-1.134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	930	--	--	--	--	--	--
SDev	2.245055	--	--	--	--	--	--
%RSD	.2412773	--	--	--	--	--	--

305687

Method: SW846A Sample Name: 88683D-10X Operator:
Run Time: 10/21/98 13:36:20
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3497.	96100.	12880.	53750.	11.07	40.96	143.4
SDev	2.	53.	7.	18.	89.00	.16	.1
%RSD	.0497	.0553	.0508	.0333	803.9	.3806	.0763
#1	3496.	96140.	12870.	53760.	-51.86	40.85	143.3
#2	3499.	96060.	12880.	53730.	74.00	41.07	143.5
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	925	--	--	--	--	--	--
SDev	1.750072	--	--	--	--	--	--
%RSD	.1891791	--	--	--	--	--	--
#1	924	--	--	--	--	--	--
#2	926	--	--	--	--	--	--

Method: SW846A Sample Name: 88683-10X Operator:
Run Time: 10/21/98 13:40:31
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3099.	99610.	15300.	56710.	-170.0	47.92	114.3
SDev	2.	113.	3.	31.	21.3	.01	.1
%RSD	.0565	.1135	.0173	.0539	12.55	.0237	.0943
#1	3098.	99530.	15300.	56680.	-185.1	47.91	114.4
#2	3100.	99690.	15300.	56730.	-154.9	47.92	114.2
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	930	--	--	--	--	--	--
SDev	3.270369	--	--	--	--	--	--

305688

%RSD	.3517424	--	--	--	--	--	--
#1	927	--	--	--	--	--	--
#2	932	--	--	--	--	--	--

Method: SW846A Sample Name: 88683L-10X Operator:
Run Time: 10/21/98 13:44:42
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	626.4	20790.	3136.	11530.	-369.6	13.31	21.68
SDev	3.0	10.	8.	18.	386.9	.19	.90
%RSD	.4834	.0493	.2396	.1525	104.7	1.456	4.142
#1	628.6	20790.	3131.	11540.	-96.03	13.18	21.04
#2	624.3	20800.	3142.	11510.	-643.2	13.45	22.31
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	936	--	--	--	--	--	--
SDev	2.563262	--	--	--	--	--	--
%RSD	.2738784	--	--	--	--	--	--
#1	934	--	--	--	--	--	--
#2	938	--	--	--	--	--	--

Method: SW846A Sample Name: 88683MS-10X Operator:
Run Time: 10/21/98 13:48:54
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3812.	90810.	14370.	50840.	2143.	89.18	190.3
SDev	3.	54.	1.	43.	67.	.03	.7
%RSD	.0810	.0597	.0079	.0851	3.142	.0350	.3597
#1	3810.	90850.	14370.	50870.	2190.	89.16	189.8
#2	3814.	90770.	14370.	50810.	2095.	89.20	190.7
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

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IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	931	--	--	--	--	--	--
SDev	1.785419	--	--	--	--	--	--
%RSD	.1916894	--	--	--	--	--	--
#1	930	--	--	--	--	--	--
#2	933	--	--	--	--	--	--

Method: SW846A Sample Name: 88683MSD-10X Operator:
Run Time: 10/21/98 13:53:05
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	3891.	87020.	13760.	49350.	2383.	89.70	186.9
SDev	9.	95.	21.	52.	110.	.14	.4
%RSD	.2200	.1093	.1538	.1055	4.619	.1575	.2386
#1	3897.	87090.	13750.	49380.	2305.	89.60	186.6
#2	3885.	86960.	13780.	49310.	2460.	89.80	187.3
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	927	--	--	--	--	--	--
SDev	1.856155	--	--	--	--	--	--
%RSD	.2001812	--	--	--	--	--	--
#1	926	--	--	--	--	--	--
#2	929	--	--	--	--	--	--

Method: SW846A Sample Name: CCV3 Operator:
Run Time: 10/21/98 13:57:16
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	255300.	126000.	101700.	126900.	126900.	2491.	10190.
SDev	498.	271.	98.	230.	180.	5.	1.
%RSD	.1951	.2149	.0961	.1815	.1421	.1815	.0119
#1	255600.	125900.	101800.	126800.	127100.	2488.	10190.
#2	254900.	126200.	101600.	127100.	126800.	2494.	10190.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	138000.	110400.	138000.	138000.	2760.	11040.
Low	223900.	112000.	89600.	112000.	112000.	2239.	8960.

305690

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	907	--	--	--	--	--	--
SDev	2.916815	--	--	--	--	--	--
%RSD	.3217534	--	--	--	--	--	--
#1	904	--	--	--	--	--	--
#2	909	--	--	--	--	--	--

Method: SW846A Sample Name: CC83 Operator:
Run Time: 10/21/98 14:01:28
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	6.582	.9072	-8.213	6.923	-223.4	-.1999	.0954
SDev	4.760	2.283	2.550	.439	45.5	.0742	.9048
%RSD	72.32	251.6	31.05	6.336	20.38	37.09	948.7
#1	9.947	2.521	-6.409	7.233	-255.6	-.2524	.7352
#2	3.216	-.7067	-10.02	6.613	-191.2	-.1475	-.5444
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	400.0	50.00	200.0	1000.	15.00	5.000
Low	-199.0	-400.0	-50.00	-200.0	-1000.	-9.900	-5.000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	928	--	--	--	--	--	--
SDev	.6010667	--	--	--	--	--	--
%RSD	.0647544	--	--	--	--	--	--
#1	928	--	--	--	--	--	--
#2	929	--	--	--	--	--	--

Method: SW846A Sample Name: 88683A-10X Operator:
Run Time: 10/21/98 14:05:39
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	5106.	117000.	16070.	75330.	22210.	523.2	568.6
SDev	29.	82.	4.	142.	202.	1.8	1.1
%RSD	.5763	.0702	.0219	.1891	.9079	.3528	.1897
#1	5127.	117000.	16060.	75430.	22350.	524.5	569.4
#2	5085.	116900.	16070.	75230.	22070.	521.9	567.9

305691

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	917	--	--	--	--	--	--
SDev	2.810732	--	--	--	--	--	--
%RSD	.3064095	--	--	--	--	--	--
#1	915	--	--	--	--	--	--
#2	919	--	--	--	--	--	--

Method: SW846A Sample Name: 89310-2X Operator:
Run Time: 10/21/98 14:09:50
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	39880.	23340.	135200.	10820.	268.2	411.3	1398.
SDev	8.	41.	138.	24.	84.2	.8	2.
%RSD	.0197	.1754	.1023	.2210	31.38	.2000	.1232
#1	39870.	23310.	135300.	10800.	208.7	410.7	1397.
#2	39880.	23370.	135100.	10840.	327.7	411.9	1400.

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1125	--	--	--	--	--	--
SDev	.3182499	--	--	--	--	--	--
%RSD	.0282958	--	--	--	--	--	--
#1	1125	--	--	--	--	--	--
#2	1124	--	--	--	--	--	--

Method: SW846A Sample Name: 88666-2X Operator:
Run Time: 10/21/98 14:14:02
Comment: 5027T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	36980.	50050.	63530.	9628.	1136.	1258.	1160.
SDev	360.	403.	734.	77.	145.	8.	11.
%RSD	.9738	.8050	1.156	.8040	12.79	.6293	.9589

305692

#1	37230.	50340.	64050.	9683.	1238.	1264.	1168.
#2	36720.	49770.	63010.	9573.	1033.	1252.	1152.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1250	--	--	--	--	--	--
SDev	11.77335	--	--	--	--	--	--
%RSD	.9417922	--	--	--	--	--	--
#1	1242	--	--	--	--	--	--
#2	1258	--	--	--	--	--	--

Method: SW846A Sample Name: 88677-2X Operator:
Run Time: 10/21/98 14:18:13
Comment: 5031T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	26980.	20540.	125300.	16720.	403.3	1571.	2126.
SDev	12.	15.	206.	18.	277.9	4.	.
%RSD	.0448	.0708	.1645	.1054	68.90	.2449	.0168
#1	26990.	20550.	125100.	16730.	599.8	1574.	2126.
#2	26970.	20530.	125400.	16710.	206.8	1569.	2125.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500000.	250000.	200000.	250000.	250000.	5000.	100000.
Low	-199.0	-400.0	-99.00	-400.0	-1000.	-9.900	-10.00
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	1032	--	--	--	--	--	--
SDev	2.227404	--	--	--	--	--	--
%RSD	.2158912	--	--	--	--	--	--
#1	1030	--	--	--	--	--	--
#2	1033	--	--	--	--	--	--

Method: SW846A Sample Name: ICSA2 Operator:
Run Time: 10/21/98 14:22:24
Comment: 5010
Mode: CONC Corr. Factor: 1

305693

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	498400.	458200.	195500.	511800.	75.99	-1.484	-.1738

SDev	4799.	1606.	1146.	2811.	31.63	.011	.9537
%RSD	.9627	.3505	.5861	.5492	41.62	.7217	548.8
#1	495000.	457000.	194700.	509800.	53.63	-1.476	-.8481
#2	501800.	459300.	196300.	513800.	98.36	-1.491	.5006
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	600000.	240000.	600000.	1000.	10.00	10.00
Low	400000.	400000.	160000.	400000.	-2000.	-10.00	-5.000
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	913	--	--	--	--	--	--
SDev	5.303301	--	--	--	--	--	--
%RSD	.5808971	--	--	--	--	--	--
#1	917	--	--	--	--	--	--
#2	909	--	--	--	--	--	--

Method: SW846A Sample Name: ICSAB2 Operator:
Run Time: 10/21/98 14:26:35
Comment: 5010
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	496100.	449500.	189600.	499600.	11730.	96.58	98.93
SDev	21.	435.	174.	503.	218.	.27	.37
%RSD	.0042	.0969	.0919	.1006	1.856	.2777	.3716
#1	496100.	449200.	189800.	499300.	11570.	96.39	98.67
#2	496100.	449800.	189500.	500000.	11880.	96.77	99.19
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600000.	600000.	240000.	600000.	12000.	120.0	120.0
Low	400000.	400000.	160000.	400000.	8000.	80.00	80.00
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	895	--	--	--	--	--	--
SDev	1.396519	--	--	--	--	--	--
%RSD	.1560988	--	--	--	--	--	--
#1	894	--	--	--	--	--	--
#2	896	--	--	--	--	--	--

Method: SW846A Sample Name: CCV4 Operator:
Run Time: 10/21/98 14:30:46
Comment: 5067T1
Mode: CONC Corr. Factor: 1

305694

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	254700.	126000.	99010.	126500.	126200.	2506.	10110.
SDev	2.	187.	78.	217.	325.	1.	.
%RSD	.0009	.1484	.0787	.1718	.2578	.0492	.0023
#1	254700.	125900.	98960.	126400.	125900.	2506.	10110.
#2	254700.	126200.	99070.	126700.	126400.	2507.	10110.
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	276000.	138000.	110400.	138000.	138000.	2760.	11040.
Low	223900.	112000.	89600.	112000.	112000.	2239.	8960.
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	904	--	--	--	--	--	--
SDev	.4065950	--	--	--	--	--	--
%RSD	.0449730	--	--	--	--	--	--
#1	904	--	--	--	--	--	--
#2	904	--	--	--	--	--	--

Method: SW846A Sample Name: CCB4 Operator:
Run Time: 10/21/98 14:34:58
Comment: 5067T1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Ca3179	Fe2714	Mg2790	Na3302	Zn2138	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avge	17.58	15.63	17.13	22.06	-71.50	-.2567	.1312
SDev	4.62	2.23	4.27	3.85	169.10	.0610	.8560
%RSD	26.28	14.28	24.91	17.45	236.5	23.77	652.5
#1	20.85	17.21	20.14	24.78	-191.1	-.2999	.7364
#2	14.32	14.05	14.11	19.34	48.07	-.2136	-.4741
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	199.0	400.0	50.00	200.0	1000.	15.00	5.000
Low	-199.0	-400.0	-50.00	-200.0	-1000.	-9.900	-5.000
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	928	--	--	--	--	--	--
SDev	.1060401	--	--	--	--	--	--
%RSD	.0114215	--	--	--	--	--	--
#1	928	--	--	--	--	--	--
#2	928	--	--	--	--	--	--

305695

File : 7057HG1.WSL Rewritten saved under 7064Hg1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1		3		1.0	10/20/98	09:31:43	
2	STD2		3		1.0	10/20/98	09:34:42	
3	STD3		3		1.0	10/20/98	09:37:41	
4	STD4		3		1.0	10/20/98	09:40:40	
5	STD5		3		1.0	10/20/98	09:43:39	
6	STD6		3		1.0	10/20/98	09:46:38	
7	AICV/ACCV1		0		1.0	10/20/98	09:49:35	
8	ICB/CCB1		0		1.0	10/20/98	09:52:31	
9	PBS101998/7064		0		1.0	10/20/98	09:55:25	
10	BSS101998/7064		0		1.0	10/20/98	09:58:18	
11	LCSS-238/7064		0		2.0	10/20/98	10:01:11	
12	LCSS-238-D/7064		0		2.0	10/20/98	10:04:04	
13	89908		0		1.0	10/20/98	10:06:57	
14	89908D		0		1.0	10/20/98	10:10:02	
15	89908MS		0		1.0	10/20/98	10:14:38	
16	89908MSD		0		1.0	10/20/98	10:18:15	
17	89907		0		1.0	10/20/98	10:21:14	
18	89909		0		1.0	10/20/98	10:24:12	
19	ACCV2		0		1.0	10/20/98	10:27:10	
20	CCB2		0		1.0	10/20/98	10:30:05	
21	89910		0		1.0	10/20/98	10:32:59	
22	89911		0		1.0	10/20/98	10:36:07	
23	89912		0		1.0	10/20/98	10:39:06	
24	89913		0		1.0	10/20/98	10:41:59	
25	89914		0		1.0	10/20/98	10:45:39	
26	90643		0		1.0	10/20/98	10:48:32	
27	90273		0		1.0	10/20/98	10:51:26	
28	90633		0		1.0	10/20/98	10:54:19	
29	90635		0		1.0	10/20/98	10:57:12	
30	90636		0		1.0	10/20/98	11:00:05	
31	ACCV3		0		1.0	10/20/98	11:03:00	
32	CCB3		0		1.0	10/20/98	11:05:56	
33	90637		0		1.0	10/20/98	11:08:50	
34	90638		0		1.0	10/20/98	11:11:43	
35	90639		0		1.0	10/20/98	11:14:37	
36	90640		0		1.0	10/20/98	11:17:30	
37	90641		0		1.0	10/20/98	11:20:24	
38	90642		0		1.0	10/20/98	11:23:18	
39	89908		0		20.0	10/20/98	11:28:16	
40	89908D		0		20.0	10/20/98	11:31:11	
41	89908MS		0		20.0	10/20/98	11:34:05	
42	89908MSD		0		20.0	10/20/98	11:36:59	
43	ACCV4		0		1.0	10/20/98	11:39:54	
44	CCB4		0		1.0	10/20/98	11:42:49	
45	89907		0		10.0	10/20/98	11:45:45	
46	89909		0		1.0	10/20/98	11:48:40	
47	89910		0		20.0	10/20/98	11:51:35	
48	89911		0		1.0	10/20/98	11:54:30	
49	89913		0		50.0	10/20/98	11:57:39	
50	89914		0		1.0	10/20/98	12:00:34	
51	ACCV5		0		1.0	10/20/98	12:03:30	
52	CCB5		0		1.0	10/20/98	12:06:25	
53	Z		0		1.0	10/20/98	12:09:21	
54	BSS101998/7060		0		1.0	10/20/98	12:12:18	
55	LCSS-238/7060		0		2.0	10/20/98	12:15:15	

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56	LCSS-238-D/7060	0	2.0	10/20/98	12:18:12
57	90535	0	1.0	10/20/98	12:21:09
58	90535D	0	1.0	10/20/98	12:24:06
59	90535MS	0	1.0	10/20/98	12:27:03
60	90535MSD	0	1.0	10/20/98	12:30:00
61	89148	0	1.0	10/20/98	12:32:58
62	89149	0	1.0	10/20/98	12:35:56
63	ACCV6	0	1.0	10/20/98	12:38:54
64	CCB6	0	1.0	10/20/98	12:41:49
65	89150	0	1.0	10/20/98	12:44:46
66	89151	0	1.0	10/20/98	12:47:45
67	89152	0	1.0	10/20/98	12:50:44
68	89225	0	1.0	10/20/98	12:53:43
69	89226	0	1.0	10/20/98	12:56:42
70	89227	0	1.0	10/20/98	12:59:41
71	89228	0	1.0	10/20/98	13:02:40
72	89229	0	1.0	10/20/98	13:05:39
73	90526	0	1.0	10/20/98	13:08:38
74	90527	0	1.0	10/20/98	13:11:37
75	ACCV7	0	1.0	10/20/98	13:14:35
76	CCB7	0	1.0	10/20/98	13:17:31
77	90528	0	1.0	10/20/98	13:20:25
78	90529	0	1.0	10/20/98	13:23:18
79	90530	0	1.0	10/20/98	13:26:11
80	90531	0	1.0	10/20/98	13:29:05
81	90532	0	1.0	10/20/98	13:31:59
82	90533	0	1.0	10/20/98	13:34:53
83	90534	0	1.0	10/20/98	13:37:47
84	PBS101998/7060	0	1.0	10/20/98	13:40:43
85	ACCV8	0	1.0	10/20/98	13:43:38
86	CCB8	0	1.0	10/20/98	13:46:33
87	PBS101998	0	1.0	10/20/98	13:49:27
88	BSS101998	0	1.0	10/20/98	13:52:20
89	LCSS-238	0	2.0	10/20/98	13:55:13
90	LCSS-238-D	0	2.0	10/20/98	13:58:06
91	88683	0	1.0	10/20/98	14:00:59
92	88683D	0	1.0	10/20/98	14:03:52
93	88683MS	0	1.0	10/20/98	14:06:45
94	88683MSD	0	1.0	10/20/98	14:09:39
95	90277	0	2.0	10/20/98	14:12:32
96	90278	0	1.0	10/20/98	14:15:26
97	ACCV9	0	1.0	10/20/98	14:18:21
98	CCB9	0	1.0	10/20/98	14:21:16
99	90279	0	200.0	10/20/98	14:24:09
100	90280	0	1.0	10/20/98	14:27:01
101	90281	0	1.0	10/20/98	14:30:19
102	90282	0	1.0	10/20/98	14:33:12
103	90283	0	1.0	10/20/98	14:36:05
104	90284	0	1.0	10/20/98	14:38:58
105	90285	0	1.0	10/20/98	14:41:51
106	90286	0	1.0	10/20/98	14:44:45
107	90289	0	1.0	10/20/98	14:47:38
108	90290	0	1.0	10/20/98	14:50:31
109	ACCV10	0	1.0	10/20/98	14:53:25
110	CCB10	0	1.0	10/20/98	14:56:20
111	89341	0	1.0	10/20/98	15:00:11
112	89343	0	1.0	10/20/98	15:03:04
113	89310	0	1.0	10/20/98	15:05:57
114	88666	0	1.0	10/20/98	15:08:50
115	88677	0	1.0	10/20/98	15:11:45

116	90277	0	1.0	10/20/98	15:14:39
117	90280	0	10.0	10/20/98	15:17:35
118	90281	0	1.0	10/20/98	15:20:29
119	90285	0	5.0	10/20/98	15:23:24
120	90286	0	2.0	10/20/98	15:26:18
121	ACCV11	0	1.0	10/20/98	15:29:13
122	CCB11	0	1.0	10/20/98	15:32:08
123	90289	0	1.0	10/20/98	15:35:03
124	88666	0	2.0	10/20/98	15:37:58
125	88677	0	1.0	10/20/98	15:40:53
126	ACCV12	0	1.0	10/20/98	15:43:48
127	CCB12	0	1.0	10/20/98	15:46:43

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111 Wheel Polygon

15:47:21 20 Oct 1998 Folder: 7064HG1/7060HG1/7057HG1 Page 1
Protocol: SW846

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

*** Standard: 1 Rep: 1 Seq: 5 09:31:43 20 Oct 1998 HG

Hg .000 ppb 556
Ave. Int. = 556 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 6 09:34:42 20 Oct 1998 HG

Hg .100 ppb 4386
Ave. Int. = 4386 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 7 09:37:41 20 Oct 1998 HG

Hg 1.00 ppb 53572
Ave. Int. = 53572 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 8 09:40:40 20 Oct 1998 HG

Hg 2.00 ppb 106777
Ave. Int. = 106777 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 9 09:43:39 20 Oct 1998 HG

Hg 5.00 ppb 263758
Ave. Int. = 263758 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 10 09:46:38 20 Oct 1998 HG

Hg 10.0 ppb 526390
Ave. Int. = 526390 S. D. = 0

305699

Protocol: SW846

Rev: 3.001 Time: 09:46:44 20 Oct 1998

Folder: 7064HG1 Seq: 11 Print: On

User: Batch: Id: Std6Rep1 Cup: Gas: 0.30 LPM

State: Idle Macro SW846 35: F3 Print Xmit: Off Autosampler: On

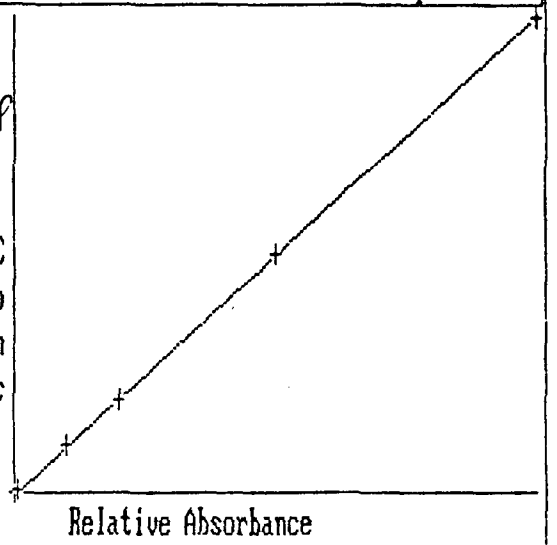
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted	
S1	.000	.001	.001	LiNear	MP
S2	.100	.074	-.026	Quadratic	
S3	1.00	1.01	.009	WtdLinear	C
S4	2.00	2.02	.020	Accept	o
S5	5.00	5.00	.003		n
S6	10.0	9.99	-.006	StdAdd	c

A .0000000 r .999992

B 1.90038e-5 C -9.48759e-3



	Mean	%RSD	
S1	556	0	556
S2	4386	0	4386
S3	53572	0	53572
S4	106777	0	106777
S5	263758	0	263758
S6	526390	0	526390

New calibration coefficients stored

305700

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

*** Check Standard: 3 Ck3ICV/CCV Seq: 11 09:49:35 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.0	4.95	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 12 09:52:31 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.031	.100	ppb	.000

*** Sample ID: PBS101998 Seq: 13 09:55:25 20 Oct 1998 HG

Hg -.019 ppb .000 -.019

*** Sample ID: BSS101998 Seq: 14 09:58:18 20 Oct 1998 HG

Hg 1.01 ppb .000 1.01

*** Sample ID: LCSS-238 Seq: 15 10:01:11 20 Oct 1998 HG

2X

Hg 3.58 ppb .000 3.58

*** Sample ID: LCSS-238-D Seq: 16 10:04:04 20 Oct 1998 HG

2X

Hg 3.24 ppb .000 3.24

*** Sample ID: 89908 See 2X dilution Seq: 17 10:06:57 20 Oct 1998 HG

Hg 86.6 ppb .000 86.6

*** Sample ID: 89908D Seq: 18 10:10:02 20 Oct 1998 HG

Hg 74.1 ppb .000 74.1

*** Sample ID: 89908MS Seq: 19 10:14:38 20 Oct 1998 HG

Hg 85.3 ppb .000 85.3

*** Sample ID: 89908MSD Seq: 20 10:18:15 20 Oct 1998 HG

Hg 75.8 ppb .000 75.8

*** Sample ID: 89907 See 10x dilution Seq: 21 10:21:14 20 Oct 1998 HG

Hg 32.8 ppb .000 32.8

*** Sample ID: 89909 See RR Seq: 22 10:24:12 20 Oct 1998 HG

Hg 1.55 ppb .000 1.55

305701

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

*** Check Standard: 2 Ck2 ACCV Seq: 23 10:27:10 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.0	4.90	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 24 10:30:05 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.045	.100	ppb	.000

*** Sample ID: 89910 See 20x dilution Seq: 25 10:32:59 20 Oct 1998 HG

Hg 62.2 ppb .000 62.2

*** Sample ID: 89911 See RR Seq: 26 10:36:07 20 Oct 1998 HG

Hg 2.89 ppb .000 2.89

*** Sample ID: 89912 Seq: 27 10:39:06 20 Oct 1998 HG

Hg 3.38 ppb .000 3.38

*** Sample ID: 89913 See 50x dilution Seq: 28 10:41:59 20 Oct 1998 HG

Hg 116. ppb .000 116.

*** Sample ID: 89914 See RR Seq: 29 10:45:39 20 Oct 1998 HG

Hg -.118 ppb .000 -.118

*** Sample ID: 90643 Seq: 30 10:48:32 20 Oct 1998 HG

Hg -.025 ppb .000 -.025

*** Sample ID: 90273 Seq: 31 10:51:26 20 Oct 1998 HG

Hg -.004 ppb .000 -.004

*** Sample ID: 90633 Seq: 32 10:54:19 20 Oct 1998 HG

Hg -.023 ppb .000 -.023

*** Sample ID: 90635 Seq: 33 10:57:12 20 Oct 1998 HG

Hg .857 ppb .000 .857

*** Sample ID: 90636 Seq: 34 11:00:05 20 Oct 1998 HG

Hg 2.71 ppb .000 2.71

305702

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

*** Check Standard: 2 Ck2 ACCV Seq: 35 11:03:00 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.9	4.85	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 36 11:05:56 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.042	.100	ppb	.000

*** Sample ID: 90637 Seq: 37 11:08:50 20 Oct 1998 HG

Hg	.127	ppb	.000	.127

*** Sample ID: 90638 Seq: 38 11:11:43 20 Oct 1998 HG

Hg	.021	ppb	.000	.021

*** Sample ID: 90639 Seq: 39 11:14:37 20 Oct 1998 HG

Hg	.151	ppb	.000	.151

*** Sample ID: 90640 Seq: 40 11:17:30 20 Oct 1998 HG

Hg	.594	ppb	.000	.594

*** Sample ID: 90641 Seq: 41 11:20:24 20 Oct 1998 HG

Hg	.533	ppb	.000	.533

*** Sample ID: 90642 Seq: 42 11:23:18 20 Oct 1998 HG

Hg	.552	ppb	.000	.552

*** Sample ID: 89908-20X Seq: 43 11:28:16 20 Oct 1998 HG

Hg	5.73	ppb	.000	5.73

*** Sample ID: 89908D-20X Seq: 44 11:31:11 20 Oct 1998 HG

Hg	4.76	ppb	.000	4.76

*** Sample ID: 89908MS Seq: 45 11:34:05 20 Oct 1998 HG

			20X	
Hg	5.77	ppb	.000	5.77

*** Sample ID: 89908MSD Seq: 46 11:36:59 20 Oct 1998 HG

			20X	
Hg	5.15	ppb	.000	5.15

305703

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

*** Check Standard: 2 Ck2 ACCV Seq: 47 11:39:54 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.3	4.81	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 48 11:42:49 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.039	.100	ppb	.000

*** Sample ID: 89907-10X Seq: 49 11:45:45 20 Oct 1998 HG

Hg 3.55 ppb .000 3.55

*** Sample ID: 89909 Seq: 50 11:48:40 20 Oct 1998 HG

Hg 1.62 ppb .000 1.62

*** Sample ID: 89910-20X Seq: 51 11:51:35 20 Oct 1998 HG

Hg 3.52 ppb .000 3.52

*** Sample ID: 89911 Seq: 52 11:54:30 20 Oct 1998 HG

Hg .294 ppb .000 .294

*** Sample ID: 89913-50X Seq: 53 11:57:39 20 Oct 1998 HG

Hg 2.97 ppb .000 2.97

*** Sample ID: 89914 Seq: 54 12:00:34 20 Oct 1998 HG

Hg -.050 ppb .000 -.050

*** Check Standard: 2 Ck2 ACCV Seq: 55 12:03:30 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.7	4.83	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 56 12:06:25 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.050	.100	ppb	.000

*** Sample ID: PBS101998 /7060 SCERR Seq: 57 12:09:21 20 Oct 1998 HG

Hg .145 ppb .000 .145

*** Sample ID: BSS101998 Seq: 58 12:12:18 20 Oct 1998 HG

Hg .955 ppb .000 .955

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

*** Sample ID: LCSS-238 Seq: 59 12:15:15 20 Oct 1998 HG

			2X	
Hg	3.24	ppb	.000	3.24

*** Sample ID: LCSS-238-D Seq: 60 12:18:12 20 Oct 1998 HG

			2X	
Hg	3.05	ppb	.000	3.05

*** Sample ID: 90535 Seq: 61 12:21:09 20 Oct 1998 HG

Hg	-.015	ppb	.000	-.015

*** Sample ID: 90535D Seq: 62 12:24:06 20 Oct 1998 HG

Hg	-.016	ppb	.000	-.016

*** Sample ID: 90535MS Seq: 63 12:27:03 20 Oct 1998 HG

Hg	.954	ppb	.000	.954

*** Sample ID: 90535MSD Seq: 64 12:30:00 20 Oct 1998 HG

Hg	.950	ppb	.000	.950

*** Sample ID: 89148 Seq: 65 12:32:58 20 Oct 1998 HG

Hg	.002	ppb	.000	.002

*** Sample ID: 89149 Seq: 66 12:35:56 20 Oct 1998 HG

Hg	.035	ppb	.000	.035

*** Check Standard: 2 Ck2 ACCV Seq: 67 12:38:54 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.3	4.81	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 68 12:41:49 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.036	.100	ppb	.000

*** Sample ID: 89150 Seq: 69 12:44:46 20 Oct 1998 HG

Hg	-.002	ppb	.000	-.002

*** Sample ID: 89151 Seq: 70 12:47:45 20 Oct 1998 HG

Hg	.057	ppb	.000	.057

305705

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

*** Sample ID: 89152 Seq: 71 12:50:44 20 Oct 1998 HG

Hg .059 ppb .000 .059

*** Sample ID: 89225 Seq: 72 12:53:43 20 Oct 1998 HG

Hg .116 ppb .000 .116

*** Sample ID: 89226 Seq: 73 12:56:42 20 Oct 1998 HG

Hg -.000 ppb .000 -.000

*** Sample ID: 89227 Seq: 74 12:59:41 20 Oct 1998 HG

Hg .050 ppb .000 .050

*** Sample ID: 89228 Seq: 75 13:02:40 20 Oct 1998 HG

Hg .082 ppb .000 .082

*** Sample ID: 89229 Seq: 76 13:05:39 20 Oct 1998 HG

Hg .001 ppb .000 .001

*** Sample ID: 90526 Seq: 77 13:08:38 20 Oct 1998 HG

Hg 1.02 ppb .000 1.02

*** Sample ID: 90527 Seq: 78 13:11:37 20 Oct 1998 HG

Hg 2.98 ppb .000 2.98

*** Check Standard: 2 Ck2 ACCV Seq: 79 13:14:35 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.4	4.72	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 80 13:17:31 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.032	.100	ppb	.000

*** Sample ID: 90528 Seq: 81 13:20:25 20 Oct 1998 HG

Hg .983 ppb .000 .983

*** Sample ID: 90529 Seq: 82 13:23:18 20 Oct 1998 HG

Hg 2.82 ppb .000 2.82

305706

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

*** Sample ID: 90530 Seq: 83 13:26:11 20 Oct 1998 HG

Hg 1.34 ppb .000 1.34

*** Sample ID: 90531 Seq: 84 13:29:05 20 Oct 1998 HG

Hg 1.30 ppb .000 1.30

*** Sample ID: 90532 Seq: 85 13:31:59 20 Oct 1998 HG

Hg 1.02 ppb .000 1.02

*** Sample ID: 90533 Seq: 86 13:34:53 20 Oct 1998 HG

Hg 1.58 ppb .000 1.58

*** Sample ID: 90534 Seq: 87 13:37:47 20 Oct 1998 HG

Hg 1.29 ppb .000 1.29

*** Sample ID: PBS101998 Seq: 88 13:40:43 20 Oct 1998 HG

Hg -.019 ppb .000 -.019

*** Check Standard: 2 Ck2 ACCV Seq: 89 13:43:38 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.6	4.68	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 90 13:46:33 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.100	ppb	.000

*** Sample ID: PBS101998 / 7057 Seq: 91 13:49:27 20 Oct 1998 HG

Hg -.027 ppb .000 -.027

*** Sample ID: BSS101998 Seq: 92 13:52:20 20 Oct 1998 HG

Hg .951 ppb .000 .951

*** Sample ID: LCSS-238 Seq: 93 13:55:13 20 Oct 1998 HG

2X

Hg 2.93 ppb .000 2.93

*** Sample ID: LCSS-238-D Seq: 94 13:58:06 20 Oct 1998 HG

2X

Hg 2.81 ppb .000 2.81

305707

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

*** Sample ID: 88683 Seq: 95 14:00:59 20 Oct 1998 HG

Hg .003 ppb .000 .003

*** Sample ID: 88683D Seq: 96 14:03:52 20 Oct 1998 HG

Hg .018 ppb .000 .018

*** Sample ID: 88683MS Seq: 97 14:06:45 20 Oct 1998 HG

Hg .811 ppb .000 .811

*** Sample ID: 88683MSD Seq: 98 14:09:39 20 Oct 1998 HG

Hg .880 ppb .000 .880

*** Sample ID: 90277-2X See RR 5+4 sht Seq: 99 14:12:32 20 Oct 1998 HG

Hg 3.24 ppb .000 3.24

*** Sample ID: 90278 Seq: 100 14:15:26 20 Oct 1998 HG

Hg 8.29 ppb .000 8.29

*** Check Standard: 2 Ck2 ACCV Seq: 101 14:18:21 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.3	4.67	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 102 14:21:16 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.023	.100	ppb	.000

*** Sample ID: 90279-200X Seq: 103 14:24:09 20 Oct 1998 HG

Hg 1.38 ppb .000 1.38

*** Sample ID: 90280 See 10x dilution Seq: 104 14:27:01 20 Oct 1998 HG

Hg 48.4 ppb .000 48.4

*** Sample ID: 90281 See RR Seq: 105 14:30:19 20 Oct 1998 HG

Hg 1.12 ppb .000 1.12

*** Sample ID: 90282 Seq: 106 14:33:12 20 Oct 1998 HG

Hg .013 ppb .000 .013

305708

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

*** Sample ID: 90283 Seq: 107 14:36:05 20 Oct 1998 HG

Hg .223 ppb .000 .223

*** Sample ID: 90284 Seq: 108 14:38:58 20 Oct 1998 HG

Hg 8.34 ppb .000 8.34

*** Sample ID: 90285 See 5X dilution Seq: 109 14:41:51 20 Oct 1998 HG

Hg 18.2 ppb .000 18.2

*** Sample ID: 90286 See 2X dilution Seq: 110 14:44:45 20 Oct 1998 HG

Hg 12.8 ppb .000 12.8

*** Sample ID: 90289 See RR Seq: 111 14:47:38 20 Oct 1998 HG

Hg .223 ppb .000 .223

*** Sample ID: 90290 Seq: 112 14:50:31 20 Oct 1998 HG

Hg 1.33 ppb .000 1.33

*** Check Standard: 2 Ck2 ACCV Seq: 113 14:53:25 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		91.9	4.60	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 114 14:56:20 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.029	.100	ppb	.000

*** Sample ID: 89341 Seq: 115 15:00:11 20 Oct 1998 HG

Hg .224 ppb .000 .224

*** Sample ID: 89343 Seq: 116 15:03:04 20 Oct 1998 HG

Hg .185 ppb .000 .185

*** Sample ID: 89310 Seq: 117 15:05:57 20 Oct 1998 HG

Hg .787 ppb .000 .787

*** Sample ID: 88666 See 2X dilution Seq: 118 15:08:50 20 Oct 1998 HG

Hg 10.6 ppb .000 10.6

305709

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

*** Sample ID: 88677 Secar Seq: 119 15:11:45 20 Oct 1998 HG

Hg .325 ppb .000 .325

*** Sample ID: 90277 Seq: 120 15:14:39 20 Oct 1998 HG

Hg 7.07 ppb .000 7.07

*** Sample ID: 90280-10X Seq: 121 15:17:35 20 Oct 1998 HG

Hg 5.15 ppb .000 5.15

*** Sample ID: 90281 Seq: 122 15:20:29 20 Oct 1998 HG

Hg 1.29 ppb .000 1.29

*** Sample ID: 90285-5X Seq: 123 15:23:24 20 Oct 1998 HG

Hg 3.70 ppb .000 3.70

*** Sample ID: 90286-2X Seq: 124 15:26:18 20 Oct 1998 HG

Hg 6.55 ppb .000 6.55

*** Check Standard: 2 Ck2 ACCV Seq: 125 15:29:13 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.0	4.65	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 126 15:32:08 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.030	.100	ppb	.000

*** Sample ID: 90289 Seq: 127 15:35:03 20 Oct 1998 HG

Hg .257 ppb .000 .257

*** Sample ID: 88666-2X Seq: 128 15:37:58 20 Oct 1998 HG

Hg 5.11 ppb .000 5.11

*** Sample ID: 88677 Seq: 129 15:40:53 20 Oct 1998 HG

Hg .322 ppb .000 .322

*** Check Standard: 2 Ck2 ACCV Seq: 130 15:43:48 20 Oct 1998 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.6	4.63	5.00	ppb	.000

305710

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

*** Check Standard: 1 Ck1 CCB Seq: 131 15:46:43 20 Oct 1998 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.024	.100	ppb	.000

305711

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

*** Standard: 1 Rep: 1 Seq: 5 09:31:43 20 Oct 1998 HG

Hg .000 ppb 556
Ave. Int. = 556 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 6 09:34:42 20 Oct 1998 HG

Hg .100 ppb 4386
Ave. Int. = 4386 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 7 09:37:41 20 Oct 1998 HG

Hg 1.00 ppb 53572
Ave. Int. = 53572 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 8 09:40:40 20 Oct 1998 HG

Hg 2.00 ppb 106777
Ave. Int. = 106777 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 9 09:43:39 20 Oct 1998 HG

Hg 5.00 ppb 263758
Ave. Int. = 263758 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 10 09:46:38 20 Oct 1998 HG

Hg 10.0 ppb 526390
Ave. Int. = 526390 S. D. = 0

*** Check Standard: 3 Ck3ICV/CCV Seq: 11 09:49:35 20 Oct 1998 HG
Line Flag Intensities
Hg 260974

*** Check Standard: 1 Ck1 CCB Seq: 12 09:52:31 20 Oct 1998 HG
Line Flag Intensities
Hg -1123

*** Sample ID: PBS101998 Seq: 13 09:55:25 20 Oct 1998 HG

Hg -.019 ppb -510

*** Sample ID: BSS101998 Seq: 14 09:58:18 20 Oct 1998 HG

Hg 1.01 ppb 53797

305712

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

*** Sample ID: LCSS-238 Seq: 15 10:01:11 20 Oct 1998 HG

			2X
Hg	3.58	ppb	188838

*** Sample ID: LCSS-238-D Seq: 16 10:04:04 20 Oct 1998 HG

			2X
Hg	3.24	ppb	170868

*** Sample ID: 89908 See 20x dilution Seq: 17 10:06:57 20 Oct 1998 HG

Hg	86.6	ppb	4557935

*** Sample ID: 89908D See 20x dilution Seq: 18 10:10:02 20 Oct 1998 HG

Hg	74.1	ppb	3898673

*** Sample ID: 89908MS See 20x dilution Seq: 19 10:14:38 20 Oct 1998 HG

Hg	85.3	ppb	4487670

*** Sample ID: 89908MSD See 20x dilution Seq: 20 10:18:15 20 Oct 1998 HG

Hg	75.8	ppb	3990331

*** Sample ID: 89907 See 10x dilution Seq: 21 10:21:14 20 Oct 1998 HG

Hg	32.8	ppb	1724738

*** Sample ID: 89909 See RR Seq: 22 10:24:12 20 Oct 1998 HG

Hg	1.55	ppb	81893

*** Check Standard: 2 Ck2 ACCV Seq: 23 10:27:10 20 Oct 1998 HG

Line	Flag	Intensities
Hg		258440

*** Check Standard: 1 Ck1 CCB Seq: 24 10:30:05 20 Oct 1998 HG

Line	Flag	Intensities
Hg		-1863

*** Sample ID: 89910 See 20x dilution Seq: 25 10:32:59 20 Oct 1998 HG

Hg	62.2	ppb	3273655

*** Sample ID: 89911 See RR Seq: 26 10:36:07 20 Oct 1998 HG

Hg	2.89	ppb	152517

305713

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 89912				Seq:	27	10:39:06 20 Oct 1998 HG		
Hg	3.38	ppb	178213					
*** Sample ID: 89913			See 50x dilution	Seq:	28	10:41:59 20 Oct 1998 HG		
Hg	116.	ppb	6102485					
*** Sample ID: 89914			See RK	Seq:	29	10:45:39 20 Oct 1998 HG		
Hg	-.118	ppb	-5684					
*** Sample ID: 90643				Seq:	30	10:48:32 20 Oct 1998 HG		
Hg	-.025	ppb	-791					
*** Sample ID: 90273				Seq:	31	10:51:26 20 Oct 1998 HG		
Hg	-.004	ppb	297					
*** Sample ID: 90633				Seq:	32	10:54:19 20 Oct 1998 HG		
Hg	-.023	ppb	-699					
*** Sample ID: 90635				Seq:	33	10:57:12 20 Oct 1998 HG		
Hg	.857	ppb	45605					
*** Sample ID: 90636				Seq:	34	11:00:05 20 Oct 1998 HG		
Hg	2.71	ppb	142879					
*** Check Standard: 2			Ck2 ACCV	Seq:	35	11:03:00 20 Oct 1998 HG		
Line	Flag		Intensities					
Hg			255540					
*** Check Standard: 1			Ck1 CCB	Seq:	36	11:05:56 20 Oct 1998 HG		
Line	Flag		Intensities					
Hg			-1688					
*** Sample ID: 90637				Seq:	37	11:08:50 20 Oct 1998 HG		
Hg	.127	ppb	7202					
*** Sample ID: 90638				Seq:	38	11:11:43 20 Oct 1998 HG		
Hg	.021	ppb	1588					

305714

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

*** Sample ID: 90639 Seq: 39 11:14:37 20 Oct 1998 HG

Hg .151 ppb 8438

*** Sample ID: 90640 Seq: 40 11:17:30 20 Oct 1998 HG

Hg .594 ppb 31774

*** Sample ID: 90641 Seq: 41 11:20:24 20 Oct 1998 HG

Hg .533 ppb 28561

*** Sample ID: 90642 Seq: 42 11:23:18 20 Oct 1998 HG

Hg .552 ppb 29546

*** Sample ID: 89908-20X Seq: 43 11:28:16 20 Oct 1998 HG

Hg 5.73 ppb 301774

*** Sample ID: 89908D-20X Seq: 44 11:31:11 20 Oct 1998 HG

Hg 4.76 ppb 251102

*** Sample ID: 89908MS Seq: 45 11:34:05 20 Oct 1998 HG
20X
Hg 5.77 ppb 304374

*** Sample ID: 89908MSD Seq: 46 11:36:59 20 Oct 1998 HG
20X
Hg 5.15 ppb 271723

*** Check Standard: 2 Ck2 ACCV Seq: 47 11:39:54 20 Oct 1998 HG
Line Flag Intensities
Hg 253741

*** Check Standard: 1 Ck1 CCB Seq: 48 11:42:49 20 Oct 1998 HG
Line Flag Intensities
Hg -1534

*** Sample ID: 89907-10X Seq: 49 11:45:45 20 Oct 1998 HG

Hg 3.55 ppb 187072

*** Sample ID: 89909 Seq: 50 11:48:40 20 Oct 1998 HG

Hg 1.62 ppb 85929

305715

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

*** Sample ID: 89910-20X Seq: 51 11:51:35 20 Oct 1998 HG

Hg 3.52 ppb 185630

*** Sample ID: 89911 Seq: 52 11:54:30 20 Oct 1998 HG

Hg .294 ppb 15983

*** Sample ID: 89913-50X Seq: 53 11:57:39 20 Oct 1998 HG

Hg 2.97 ppb 156837

*** Sample ID: 89914 Seq: 54 12:00:34 20 Oct 1998 HG

Hg -.050 ppb -2112

*** Check Standard: 2 Ck2 ACCV Seq: 55 12:03:30 20 Oct 1998 HG
Line Flag Intensities
Hg 254842

*** Check Standard: 1 Ck1 CCB Seq: 56 12:06:25 20 Oct 1998 HG
Line Flag Intensities
Hg -2137

*** Sample ID: PBS101998/7060 SECRR Seq: 57 12:09:21 20 Oct 1998 HG

Hg .145 ppb 8130

*** Sample ID: BSS101998 Seq: 58 12:12:18 20 Oct 1998 HG

Hg .955 ppb 50757

*** Sample ID: LCSS-238 Seq: 59 12:15:15 20 Oct 1998 HG
2X
Hg 3.24 ppb 170769

*** Sample ID: LCSS-238-D Seq: 60 12:18:12 20 Oct 1998 HG
2X
Hg 3.05 ppb 161182

*** Sample ID: 90535 Seq: 61 12:21:09 20 Oct 1998 HG

Hg -.015 ppb -310

*** Sample ID: 90535D Seq: 62 12:24:06 20 Oct 1998 HG

Hg -.016 ppb -336

305716

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

*** Sample ID: 90535MS Seq: 63 12:27:03 20 Oct 1998 HG

Hg .954 ppb 50697

*** Sample ID: 90535MSD Seq: 64 12:30:00 20 Oct 1998 HG

Hg .950 ppb 50472

*** Sample ID: 89148 Seq: 65 12:32:58 20 Oct 1998 HG

Hg .002 ppb 630

*** Sample ID: 89149 Seq: 66 12:35:56 20 Oct 1998 HG

Hg .035 ppb 2325

*** Check Standard: 2 Ck2 ACCV Seq: 67 12:38:54 20 Oct 1998 HG
Line Flag Intensities
Hg 253758

*** Check Standard: 1 Ck1 CCB Seq: 68 12:41:49 20 Oct 1998 HG
Line Flag Intensities
Hg -1421

*** Sample ID: 89150 Seq: 69 12:44:46 20 Oct 1998 HG

Hg -.002 ppb 405

*** Sample ID: 89151 Seq: 70 12:47:45 20 Oct 1998 HG

Hg .057 ppb 3515

*** Sample ID: 89152 Seq: 71 12:50:44 20 Oct 1998 HG

Hg .059 ppb 3585

*** Sample ID: 89225 Seq: 72 12:53:43 20 Oct 1998 HG

Hg .116 ppb 6602

*** Sample ID: 89226 Seq: 73 12:56:42 20 Oct 1998 HG

Hg -.000 ppb 482

*** Sample ID: 89227 Seq: 74 12:59:41 20 Oct 1998 HG

Hg .050 ppb 3131

305717

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

*** Sample ID: 89228 Seq: 75 13:02:40 20 Oct 1998 HG

Hg .082 ppb 4805

*** Sample ID: 89229 Seq: 76 13:05:39 20 Oct 1998 HG

Hg .001 ppb 572

*** Sample ID: 90526 Seq: 77 13:08:38 20 Oct 1998 HG

Hg 1.02 ppb 54079

*** Sample ID: 90527 Seq: 78 13:11:37 20 Oct 1998 HG

Hg 2.98 ppb 157277

*** Check Standard: 2 Ck2 ACCV Seq: 79 13:14:35 20 Oct 1998 HG
Line Flag Intensities
Hg 248746

*** Check Standard: 1 Ck1 CCB Seq: 80 13:17:31 20 Oct 1998 HG
Line Flag Intensities
Hg -1162

*** Sample ID: 90528 Seq: 81 13:20:25 20 Oct 1998 HG

Hg .983 ppb 52210

*** Sample ID: 90529 Seq: 82 13:23:18 20 Oct 1998 HG

Hg 2.82 ppb 149045

*** Sample ID: 90530 Seq: 83 13:26:11 20 Oct 1998 HG

Hg 1.34 ppb 71095

*** Sample ID: 90531 Seq: 84 13:29:05 20 Oct 1998 HG

Hg 1.30 ppb 68950

*** Sample ID: 90532 Seq: 85 13:31:59 20 Oct 1998 HG

Hg 1.02 ppb 54016

*** Sample ID: 90533 Seq: 86 13:34:53 20 Oct 1998 HG

Hg 1.58 ppb 83805

305718

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

*** Sample ID: 90534 Seq: 87 13:37:47 20 Oct 1998 HG

Hg 1.29 ppb 68439

*** Sample ID: PBS101998 Seq: 88 13:40:43 20 Oct 1998 HG

Hg -.019 ppb -511

*** Check Standard: 2 Ck2 ACCV Seq: 89 13:43:38 20 Oct 1998 HG
Line Flag Intensities
Hg 246815

*** Check Standard: 1 Ck1 CCB Seq: 90 13:46:33 20 Oct 1998 HG
Line Flag Intensities
Hg -857

*** Sample ID: PBS101998 / 7057 Seq: 91 13:49:27 20 Oct 1998 HG

Hg -.027 ppb -900

*** Sample ID: BSS101998 Seq: 92 13:52:20 20 Oct 1998 HG

Hg .951 ppb 50540

*** Sample ID: LCSS-238 Seq: 93 13:55:13 20 Oct 1998 HG
2X
Hg 2.93 ppb 154468

*** Sample ID: LCSS-238-D Seq: 94 13:58:06 20 Oct 1998 HG
2X
Hg 2.81 ppb 148312

*** Sample ID: 88683 Seq: 95 14:00:59 20 Oct 1998 HG

Hg .003 ppb 658

*** Sample ID: 88683D Seq: 96 14:03:52 20 Oct 1998 HG

Hg .018 ppb 1448

*** Sample ID: 88683MS Seq: 97 14:06:45 20 Oct 1998 HG

Hg .811 ppb 43160

*** Sample ID: 88683MSD Seq: 98 14:09:39 20 Oct 1998 HG

Hg .880 ppb 46790

305719

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 90277-2X			See RR Straight	Seq: 99	14:12:32 20 Oct 1998 HG			
Hg	3.24	ppb	170865					
*** Sample ID: 90278				Seq: 100	14:15:26 20 Oct 1998 HG			
Hg	8.29	ppb	436685					
*** Check Standard: 2			Ck2 ACCV	Seq: 101	14:18:21 20 Oct 1998 HG			
Line	Flag		Intensities					
Hg			246007					
*** Check Standard: 1			Ck1 CCB	Seq: 102	14:21:16 20 Oct 1998 HG			
Line	Flag		Intensities					
Hg			-717					
*** Sample ID: 90279-200X				Seq: 103	14:24:09 20 Oct 1998 HG			
Hg	1.38	ppb	73336					
*** Sample ID: 90280			See 10x dilution	Seq: 104	14:27:01 20 Oct 1998 HG			
Hg	48.4	ppb	2549827					
*** Sample ID: 90281			See RR	Seq: 105	14:30:19 20 Oct 1998 HG			
Hg	1.12	ppb	59466					
*** Sample ID: 90282				Seq: 106	14:33:12 20 Oct 1998 HG			
Hg	.013	ppb	1193					
*** Sample ID: 90283				Seq: 107	14:36:05 20 Oct 1998 HG			
Hg	.223	ppb	12236					
*** Sample ID: 90284				Seq: 108	14:38:58 20 Oct 1998 HG			
Hg	8.34	ppb	439406					
*** Sample ID: 90285			See 5x dilution	Seq: 109	14:41:51 20 Oct 1998 HG			
Hg	18.2	ppb	956903					
*** Sample ID: 90286			See 2x dilution	Seq: 110	14:44:45 20 Oct 1998 HG			
Hg	12.8	ppb	676461					

305720

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 90289			SECKR	Seq: 111	14:47:38 20 Oct 1998 HG			
Hg	.223	ppb	12215					
*** Sample ID: 90290				Seq: 112	14:50:31 20 Oct 1998 HG			
Hg	1.33	ppb	70520					
*** Check Standard: 2			Ck2 ACCV	Seq: 113	14:53:25 20 Oct 1998 HG			
Line	Flag		Intensities					
Hg			242387					
*** Check Standard: 1			Ck1 CCB	Seq: 114	14:56:20 20 Oct 1998 HG			
Line	Flag		Intensities					
Hg			-1010					
*** Sample ID: 89341				Seq: 115	15:00:11 20 Oct 1998 HG			
Hg	.224	ppb	12295					
*** Sample ID: 89343				Seq: 116	15:03:04 20 Oct 1998 HG			
Hg	.185	ppb	10217					
*** Sample ID: 89310				Seq: 117	15:05:57 20 Oct 1998 HG			
Hg	.787	ppb	41937					
*** Sample ID: 88666			SEE2x9/1/4tion	Seq: 118	15:08:50 20 Oct 1998 HG			
Hg	10.6	ppb	560096					
*** Sample ID: 88677				Seq: 119	15:11:45 20 Oct 1998 HG			
Hg	.325	ppb	17585					
*** Sample ID: 90277				Seq: 120	15:14:39 20 Oct 1998 HG			
Hg	7.07	ppb	372331					
*** Sample ID: 90280-10X				Seq: 121	15:17:35 20 Oct 1998 HG			
Hg	5.15	ppb	271364					
*** Sample ID: 90281				Seq: 122	15:20:29 20 Oct 1998 HG			
Hg	1.29	ppb	68209					

305721

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

*** Sample ID: 90285-5X Seq: 123 15:23:24 20 Oct 1998 HG

Hg 3.70 ppb 195368

*** Sample ID: 90286-2X Seq: 124 15:26:18 20 Oct 1998 HG

Hg 6.55 ppb 345196

*** Check Standard: 2 Ck2 ACCV Seq: 125 15:29:13 20 Oct 1998 HG
Line Flag Intensities
Hg 245215

*** Check Standard: 1 Ck1 CCB Seq: 126 15:32:08 20 Oct 1998 HG
Line Flag Intensities
Hg -1060

*** Sample ID: 90289 Seq: 127 15:35:03 20 Oct 1998 HG

Hg .257 ppb 14017

*** Sample ID: 88666-2X Seq: 128 15:37:58 20 Oct 1998 HG

Hg 5.11 ppb 269404

*** Sample ID: 88677 Seq: 129 15:40:53 20 Oct 1998 HG

Hg .322 ppb 17448

*** Check Standard: 2 Ck2 ACCV Seq: 130 15:43:48 20 Oct 1998 HG
Line Flag Intensities
Hg 244154

*** Check Standard: 1 Ck1 CCB Seq: 131 15:46:43 20 Oct 1998 HG
Line Flag Intensities
Hg -745

305722

Notebook No. 0153

PROJECT TJR TRACE / Raw Log

Continued From Page

ELEMENTS: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Tl, V, Zn, Mo, P, Sn, Si

BATCH: 7057T1

DATE: 10/20/98

305723

File : 7057T1.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Fl
1	STD1-BLANK		3		1.0	10/20/98	14:38:00	
2	STD2		3		1.0	10/20/98	14:44:00	
3	STD3		3		1.0	10/20/98	14:49:00	
4	STD4		3		1.0	10/20/98	14:54:00	
5	HSA		0		1.0	10/20/98	15:01:00	
6	ICV/CCV1		0		1.0	10/20/98	15:07:00	
7	ICB/CCB1		0		1.0	10/20/98	15:12:00	
8	ICSA1		0		1.0	10/20/98	15:17:00	
9	ICSAB1		0		1.0	10/20/98	15:23:00	
10	INT-20		0		1.0	10/20/98	15:28:00	
11	MCL		0		1.0	10/20/98	15:33:00	
12	BSS101998		0		1.0	10/20/98	15:39:00	
13	PBS101998		0		1.0	10/20/98	15:44:00	
14	LCSS238A		0		2.0	10/20/98	15:49:00	
15	LCSS238AD		0		2.0	10/20/98	15:55:00	
16	88683D		0		2.0	10/20/98	16:00:00	
17	88683		0		2.0	10/20/98	16:05:00	
18	CCV2		0		1.0	10/20/98	16:11:00	
19	CCB2		0		1.0	10/20/98	16:16:00	
20	88683L		0		2.0	10/20/98	16:22:00	
21	88683MS		0		2.0	10/20/98	16:27:00	
22	88683MSD		0		2.0	10/20/98	16:32:00	
23	88683A		0		2.0	10/20/98	16:38:00	
24	90277		0		2.0	10/20/98	16:43:00	
25	90278		0		2.0	10/20/98	16:48:00	
26	90279		0		2.0	10/20/98	16:54:00	
27	90280		0		2.0	10/20/98	16:59:00	
28	90281		0		2.0	10/20/98	17:04:00	
29	90282		0		2.0	10/20/98	17:10:00	
30	CCV3		0		1.0	10/20/98	17:15:00	
31	CCB3		0		1.0	10/20/98	17:20:00	
32	90283		0		2.0	10/20/98	17:26:00	
33	90284		0		2.0	10/20/98	17:31:00	
34	90285		0		2.0	10/20/98	17:36:00	
35	90286		0		2.0	10/20/98	17:42:00	
36	90289		0		2.0	10/20/98	17:47:00	
37	90290		0		2.0	10/20/98	17:52:00	
38	89341		0		2.0	10/20/98	17:58:00	
39	89343		0		2.0	10/20/98	18:03:00	
40	89310		0		2.0	10/20/98	18:08:00	
41	88666		0		2.0	10/20/98	18:14:00	
42	CCV4		0		1.0	10/20/98	18:19:00	
43	CCB4		0		1.0	10/20/98	18:24:00	
44	88677		0		2.0	10/20/98	18:30:00	
45	88684		0		2.0	10/20/98	18:35:00	
46	88685		0		2.0	10/20/98	18:40:00	
47	ICSA2		0		1.0	10/20/98	18:46:00	
48	ICSAB2		0		1.0	10/20/98	18:51:00	
49	CCV5		0		1.0	10/20/98	18:56:00	
50	CCB5		0		1.0	10/20/98	19:02:00	

Continued on Page

Read and Understood By

Paul Pigel — Signed

10/23/98 — Date

10/23/98

PROJECT: ICP TRACE 1 Run log

Notebook No. 0173

Continued From Page

ELEMENT: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Sb, Se, Tl, V, Zn, Mo, Ag, Sr, Ti, B

BATCH: 7057T2

DATE: 10/21/98

305724

File : 7057T2.WSL

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Fl
1	STD1-BLANK		3		1.0	10/21/98	11:56:00	
2	STD2		3		1.0	10/21/98	12:00:00	
3	STD3		3		1.0	10/21/98	12:04:00	
4	STD4		3		1.0	10/21/98	12:08:00	
5	HSA		0		1.0	10/21/98	12:12:00	
6	ICV/CCV1		0		1.0	10/21/98	12:16:00	
7	ICB/CCB1		0		1.0	10/21/98	12:21:00	
8	ICSA1		0		1.0	10/21/98	12:25:00	
9	ICSAB1		0		1.0	10/21/98	12:29:00	
10	INT-20		0		1.0	10/21/98	12:33:00	
11	MCL		0		1.0	10/21/98	12:37:00	
12	BSS101998		0		1.0	10/21/98	12:41:00	
13	PBS101998		0		1.0	10/21/98	12:46:00	
14	LCSS238A		0		2.0	10/21/98	12:50:00	
15	LCSS238AD		0		2.0	10/21/98	12:54:00	
16	88683D		0		2.0	10/21/98	12:58:00	
17	88683		0		2.0	10/21/98	13:02:00	
18	CCV2		0		1.0	10/21/98	13:07:00	
19	CCB2		0		1.0	10/21/98	13:11:00	
20	88683L		0		2.0	10/21/98	13:15:00	
21	88683MS		0		2.0	10/21/98	13:19:00	
22	88683MSD		0		2.0	10/21/98	13:23:00	
23	88683A		0		2.0	10/21/98	13:27:00	
24	DW		0		1.0	10/21/98	13:32:00	
25	88683D-10		0		10.0	10/21/98	13:36:00	
26	88683-10		0		10.0	10/21/98	13:40:00	
27	88683L-10		0		10.0	10/21/98	13:44:00	
28	88683MS-10		0		10.0	10/21/98	13:48:00	
29	88683MSD-10		0		10.0	10/21/98	13:53:00	
30	CCV3		0		1.0	10/21/98	13:57:00	
31	CCB3		0		1.0	10/21/98	14:01:00	
32	88683A-10		0		10.0	10/21/98	14:05:00	
33	89310		0		2.0	10/21/98	14:09:00	
34	88666		0		2.0	10/21/98	14:14:00	
35	88677		0		2.0	10/21/98	14:18:00	
36	ICSA2		0		1.0	10/21/98	14:22:00	
37	ICSAB2		0		1.0	10/21/98	14:26:00	
38	CCV4		0		1.0	10/21/98	14:30:00	
39	CCB4		0		1.0	10/21/98	14:34:00	

Continued on Page

Read and Understood By

Signed — Date 10/23/98

Signed — Date 10/29/98

PROJECT Hg Run Log

Continued From Page

Batch # 7057Hg1/7064Hg1/7060Hg1
Date: 10/20/98

File : 7057HG1.WSL /7064Hg1.WSL /7060Hg1.WSL

305725

File Record	Laboratory Sample Name	Customer/EPA Sample Name	Type	Matrix	Instrument Dil.	Date	Time	Flags
1	STD1		3		1.0	10/20/98	09:31:43	
2	STD2		3		1.0	10/20/98	09:34:42	
3	STD3		3		1.0	10/20/98	09:37:41	
4	STD4		3		1.0	10/20/98	09:40:40	
5	STD5		3		1.0	10/20/98	09:43:39	
6	STD6		3		1.0	10/20/98	09:46:38	
7	AICV/ACCV1		0		1.0	10/20/98	09:49:35	
8	ICB/CCB1		0		1.0	10/20/98	09:52:31	
9	PBS101998/7064		0		1.0	10/20/98	09:55:25	
10	BSS101998/7064		0		1.0	10/20/98	09:58:18	
11	LCSS-238/7064		0		2.0	10/20/98	10:01:11	
12	LCSS-238-D/7064		0		2.0	10/20/98	10:04:04	
13	89908		0		1.0	10/20/98	10:06:57	
14	89908D		0		1.0	10/20/98	10:10:02	
15	89908MS		0		1.0	10/20/98	10:14:38	
16	89908MSD		0		1.0	10/20/98	10:18:15	
17	89907		0		1.0	10/20/98	10:21:14	
18	89909		0		1.0	10/20/98	10:24:12	
19	ACCV2		0		1.0	10/20/98	10:27:10	
20	CCB2		0		1.0	10/20/98	10:30:05	
21	89910		0		1.0	10/20/98	10:32:59	
22	89911		0		1.0	10/20/98	10:36:07	
23	89912		0		1.0	10/20/98	10:39:06	
24	89913		0		1.0	10/20/98	10:41:59	
25	89914		0		1.0	10/20/98	10:45:39	
26	90643		0		1.0	10/20/98	10:48:32	
27	90273		0		1.0	10/20/98	10:51:26	
28	90633		0		1.0	10/20/98	10:54:19	
29	90635		0		1.0	10/20/98	10:57:12	
30	90636		0		1.0	10/20/98	11:00:05	
31	ACCV3		0		1.0	10/20/98	11:03:00	
32	CCB3		0		1.0	10/20/98	11:05:56	
33	90637		0		1.0	10/20/98	11:08:50	
34	90638		0		1.0	10/20/98	11:11:43	
35	90639		0		1.0	10/20/98	11:14:37	
36	90640		0		1.0	10/20/98	11:17:30	
37	90641		0		1.0	10/20/98	11:20:24	
38	90642		0		1.0	10/20/98	11:23:18	
39	89908		0		20.0	10/20/98	11:28:16	
40	89908D		0		20.0	10/20/98	11:31:11	
41	89908MS		0		20.0	10/20/98	11:34:05	
42	89908MSD		0		20.0	10/20/98	11:36:59	
43	ACCV4		0		1.0	10/20/98	11:39:54	
44	CCB4		0		1.0	10/20/98	11:42:49	
45	89907		0		10.0	10/20/98	11:45:45	
46	89909		0		1.0	10/20/98	11:48:40	
47	89910		0		20.0	10/20/98	11:51:35	
48	89911		0		1.0	10/20/98	11:54:30	
49	89913		0		50.0	10/20/98	11:57:39	
50	89914		0		1.0	10/20/98	12:00:34	
51	ACCV5		0		1.0	10/20/98	12:03:30	
52	CCB5		0		1.0	10/20/98	12:06:25	
53	Z		0		1.0	10/20/98	12:09:21	
54	BSS101998/7060		0		1.0	10/20/98	12:12:18	
55	LCSS-238/7060		0		2.0	10/20/98	12:15:15	

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Read and Understood By

Michael [illegible] 10/22/98 [illegible] 10/22/98

Signed Date Signed

PROJECT Hg Run Log

Notebook No. 01124

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Batch # 7057Hg/7064Hg/7060Hg
Date: 10/20/98

56	LCSS-238-D/7060	0	2.0	10/20/98	12:18:12
57	90535	0	1.0	10/20/98	12:21:09
58	90535D	0	1.0	10/20/98	12:24:06
59	90535MS	0	1.0	10/20/98	12:27:03
60	90535MSD	0	1.0	10/20/98	12:30:00
61	89148	0	1.0	10/20/98	12:32:58
62	89149	0	1.0	10/20/98	12:35:56
63	ACCV6	0	1.0	10/20/98	12:38:54
64	CCB6	0	1.0	10/20/98	12:41:49
65	89150	0	1.0	10/20/98	12:44:46
66	89151	0	1.0	10/20/98	12:47:45
67	89152	0	1.0	10/20/98	12:50:44
68	89225	0	1.0	10/20/98	12:53:43
69	89226	0	1.0	10/20/98	12:56:42
70	89227	0	1.0	10/20/98	12:59:41
71	89228	0	1.0	10/20/98	13:02:40
72	89229	0	1.0	10/20/98	13:05:39
73	90526	0	1.0	10/20/98	13:08:38
74	90527	0	1.0	10/20/98	13:11:37
75	ACCV7	0	1.0	10/20/98	13:14:35
76	CCB7	0	1.0	10/20/98	13:17:31
77	90528	0	1.0	10/20/98	13:20:25
78	90529	0	1.0	10/20/98	13:23:18
79	90530	0	1.0	10/20/98	13:26:11
80	90531	0	1.0	10/20/98	13:29:05
81	90532	0	1.0	10/20/98	13:31:59
82	90533	0	1.0	10/20/98	13:34:53
83	90534	0	1.0	10/20/98	13:37:47
84	PBS101998/7060	0	1.0	10/20/98	13:40:43
85	ACCV8	0	1.0	10/20/98	13:43:38
86	CCB8	0	1.0	10/20/98	13:46:33
87	PBS101998	0	1.0	10/20/98	13:49:27
88	BSS101998	0	1.0	10/20/98	13:52:20
89	LCSS-238	0	2.0	10/20/98	13:55:13
90	LCSS-238-D	0	2.0	10/20/98	13:58:06
91	88683	0	1.0	10/20/98	14:00:59
92	88683D	0	1.0	10/20/98	14:03:52
93	88683MS	0	1.0	10/20/98	14:06:45
94	88683MSD	0	1.0	10/20/98	14:09:39
95	90277	0	2.0	10/20/98	14:12:32
96	90278	0	1.0	10/20/98	14:15:26
97	ACCV9	0	1.0	10/20/98	14:18:21
98	CCB9	0	1.0	10/20/98	14:21:16
99	90279	0	200.0	10/20/98	14:24:09
100	90280	0	1.0	10/20/98	14:27:01
101	90281	0	1.0	10/20/98	14:30:19
102	90282	0	1.0	10/20/98	14:33:12
103	90283	0	1.0	10/20/98	14:36:05
104	90284	0	1.0	10/20/98	14:38:58
105	90285	0	1.0	10/20/98	14:41:51
106	90286	0	1.0	10/20/98	14:44:45
107	90289	0	1.0	10/20/98	14:47:38
108	90290	0	1.0	10/20/98	14:50:31
109	ACCV10	0	1.0	10/20/98	14:53:25
110	CCB10	0	1.0	10/20/98	14:56:20
111	89341	0	1.0	10/20/98	15:00:11
112	89343	0	1.0	10/20/98	15:03:04
113	89310	0	1.0	10/20/98	15:05:57
114	88666	0	1.0	10/20/98	15:08:50
115	88677	0	1.0	10/20/98	15:11:45

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Read and Understood By 305726

Michael Polidori 10/22/98 — Signed — Date

Chuangjing Chen 10/22/98 — Signed

Batch # 7057HG1/7064HG1/7060HG1
Date: 10/20/98

116	90277	0	1.0	10/20/98	15:14:39
117	90280	0	10.0	10/20/98	15:17:35
118	90281	0	1.0	10/20/98	15:20:29
119	90285	0	5.0	10/20/98	15:23:24
120	90286	0	2.0	10/20/98	15:26:18
121	ACCV11	0	1.0	10/20/98	15:29:13
122	CCB11	0	1.0	10/20/98	15:32:08
123	90289	0	1.0	10/20/98	15:35:03
124	88666	0	2.0	10/20/98	15:37:58
125	88677	0	1.0	10/20/98	15:40:53
126	ACCV12	0	1.0	10/20/98	15:43:48
127	CCB12	0	1.0	10/20/98	15:46:43

Continued on Page

Read and Understood By 305727

Michael Polidoro — Signed

10/22/98 — Date

10/22/98

Metals Preparation Logbook

305728

Batch: 7057
Spike Sources/Lot #
MS/BS: Each w/1ml ICPSpk 8/31/98

LCS: #238

Prep Date: 10/19/98
Reagent Sources/Lot #
HNO_3: 6623 KXGD
HCl: 5587 KXCH
H_2O_2: V340 KXKM

Matrix: Soil
Comments:
Hot Block

Method (circle one): ICP / 200 / 3010 / 3050 / CLP- / 200DW / Other:
Furnace / 200 / 3020 / 3050 / CLP / 200DW / Other:

	Job	Sample	Init Wgt/ Vol	Final Vol	Comments
1	I 206	90277	0.51	~~100~~ L.G 50ml	
2	↓	90278	0.48	↓	
3		90279	0.48		
4		90280	0.49		
5		90281	0.49		
6		90282	0.51		
7		90283	0.57		
8		90284	0.49		
9		90285	0.50		
10		90286	0.52		
11		90289	0.49		
12		90290	0.52		
13	I058	89341	0.51		
14	↓	89343	0.50		
15	I053	89310	0.50 L.G		
16	H 950	88666	0.49		
17	↓	88677	0.50		
18		88683	0.51 L.G		
19		88684	0.50		
20		88685	0.49		
MS	H 950	88683	0.51	50ml	
MSD	↓	↓	0.49	↓	
D			0.50		
BS	7057	7057	0.50		
PBLK	↓	↓	0.50		
LCS 5			0.49		
LCS 50			0.48		

Analyst(s): Lyudmila Geller
Form ID:METPRL.0G1

Reviewed by: [illegible]

Mercury Preparation Logbook

Batch: 7057 **Prep Date:** 10/19/96

Spike Sources/Lot # MS/BS: Hg-W 10/10/96 LCS: 230

Reagent Sources/Lot #: H_2SO_4: 5557 ~~KXDW~~ KXPU MP HNO_3: 6623 KXUD

$KMnO_4$: 06219KR K_2SO_4: MP/~~45194~~ NA

Bath Temp NA Start Time: NA End Time: NA

Matrix (circle one): / Water / Soil / TCLP / Other: _____

Method (circle one): / 245.1 / 7470 / 7471 / CLP / 200DW Other _____

	Job	Sample	Init Wgt/ Vol	Final Vol	Comments
1	H950	00603	0.20g to 0.25g	100ml	
2	I206	90277			
3		90278			
4		90279			
5		90280			
6		90281			
7		90282			
8		90283			
9		90284			
10		90285			
11		90286			
12		90289			
13		90290			
14	I058	09341			
15		09342			
16	I053	~~09343~~ 09343			
17		00666			
18		00672			
19					
20					
MS	H950	00603	0.25g to 0.25g	100ml	
MSD					
D					
BSS					
PBLK					
LCSS					
LCSD					

Analyst(s): Michael Polidori Reviewed by: [illegible]

Form ID:HGPRLOG1

305729