UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/19/92

SUBJECT: Review of Region V CLP Data
Received for Review on May 26, 1992

FROM: Charles T. Elly, Director(5SCRL) Patrick J. Chinilla for
Central Regional Laboratory

TO: Data User: PRC

US EPA RECORDS CENTER REGION 5
557146

We have reviewed the data for the following case(s).

SITE NAME: Satralloy (OH) SMO Case No. 19026

EPA Data Set No. (1) No. of Samples 7 DU/Activity Numbers 1

CRL No.

SMO Traffic No. MERA 13-19

CLP Laboratory: Compuchem Hrs. for Review 54

Following are our findings:

See Attached Review - PJC

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications.
( ) Data are preliminary - pending verification by laboratory.
( ) Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

LABORATORY: COMPUCHEM CASE: 19026(1) SDG: MERA13

The laboratory portion's of case 19026(1) contains 7 low level soils assayed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

EVIDENTIAL AUDIT: The DC1 form, DC2 form, airbill, traffic report/chain of custody, and sample tags, are original and present in the case. Pages 193-218(Pb and Tl data) are not original data and the lab does not indicate where they can be found. A phone log was issued. The original data can be found in SAS7243E SDG MEQK30.

ICP ANALYSES: The CCB was found to contain Be(2.7 ug/l, 1.8 ug/l). The preparation blank was found to contain Na(69.794 mg/kg). All Be results are estimated(J) due to contamination. All Na results except MERA15 and 17 are estimated(J) due to contamination.

The matrix spike recovery of Sb(42.9%) and Ag(70.8%) are out of control. All Sb and Ag data are estimated(UJ) due to a possible elevated detection limit.

The lab did not flag the matrix spike recovery of Mn(-50.7 %) since the sample result was 4X greater than the spike amount. All Mn data are acceptable.

GFAA ANALYSES: The matrix spike recoevry of As(73.3%) is out of control. All As data are estimated(J) due to a low bias.

The matrix spike recovery of Pb(15.8%) is out of control. The duplicate audit of Pb(56.9% RPD) is out of control. All Pb data are estimated(J) due to poor precision and a low bias.

The lab flagged "W" on results for Tl(MERA13, and 15-18) and Se(MERA14, 18, and 19). These results are estimated(UJ) due to interference.

OTHER QUALIFIERS: All CN and Hg results are acceptable.

LOCKHEED/ESAT DATE: 6/16/92 M. FLETCHER

QC EXCEPTION SUMMARY REPORT

CASE # 19026 (1)
DATA S...
LAB S...
DATE ... 19026

SITE Sytralloy
LAB Compuchem
REVIEWED BY M. Fletcher

MATRIX: Soil
CONC. : low

WATER SAMPLE SPK.
WATER SAMPLE DUP.
SOIL SAMPLE SPK.
SOIL SAMPLE DUP.

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER/ COMMENTS
	Holding Time	Cal Blanks	Ini Calver	Contin Calver	Prep Blk AQ	Prep Blk SOL	ICS %R	LCS % AQ	LCS % SOL	Sol Dup RPD	Sol Spk %R	AQ Dup RPD	AQ Spk %R	Ser Diln AQ	Ser Diln SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
Aluminum																								
Antimony											42.9													
Arsenic											73.3													
Barium																								
Beryllium		221.9																						
Cadmium																								
Calcium																								
Chromium																								
Cobalt																								
Copper																								
Iron																								
Lead										56.9	158													
Magnesium																								
Manganese																								
Mercury																								
Nickel																								
Potassium																								
Selenium																								
Silver											70.8													
Sodium						69.79																		
Thallium																								
Tin																								
Vanadium																								
Zinc																								
Cyanide																								

DC1 original OK MERA 13-19 lab - Compochem
Airbill original OK Soils
ITR/COC original OK

total metals + CN

Sample tags original
DC2 doesn't say where is call need phone log
pg 143 - 218 Pb + Hg data copies original send in SDG narrative
the reviewer ~~[illegible]~~ in

ICP Sgea O Sulfuric

Sb (42.9) spike all < IDL As (73.3) spike all > IDL CN

(50.7) Mn not flagged spike Hg

Ag (70.8) spike all < IDL

Pb (15.8) spike > IDL
(56.9) dup

Blanks
~~A1 PB 14.885 CCB6 72.~~
~~Ba CCB2 2.9 CCB1 2.1~~
Be CCB2 2.7 CCB3 1.8 all
13 14
~~Ca CCB2 516 CCB3 37.7~~
~~Pb 6.3~~
~~Mn CCB2 3.9 CCB3 2.3~~
Na PB 69.794 13, 14 16 18 19
~~Zn CCB2 3.1 PB 8.01~~

M W Plug
< IDL MERA 13 17
15 18
16

Se < IDL
MERA 14
18
19

491230 13
231 14
238 15
246 16
241 17
242 18
246 19

CCBPB 14 13 CCB2 15-18 19 PB 5 CCB3

In Reference to Case No(s):

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: _____

Laboratory Name: _____

Lab Contact: _____

Region: _____

Regional Contact: _____

Call Initiated By: ____ Laboratory ____ Region

In reference to data for the following sample number(s):

_____

_____

_____

Summary of Questions/Issues Discussed:

_____

_____

_____

_____

_____

_____

_____

Summary of Resolution:

_____

_____

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_____

Signature _____ Date _____

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 19026 SDG No. MERA13 SDG Nos. To Follow _____ _____ _____ SAS No. _____ Date Recvd 5/26/92

EPA Lab ID: Compuchem

Lab Location: Research Triangle Park NC

Region: V Audit No.: _____

Re-Submitted CSF? Yes___ No___

Box No(s): _____

COMMENTS:

1+2 Custody Seals were present at time of arrival. (Custody Seal is in Case 19005 SDG# MEIW88).

Pg 193-215 are neat Originals and the copies do not indicate where they are. See proof log

Over for additional comments.

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

Received by: Lynette Burnett — LYNETTE BURNETT / DATA RECORD — Date 5-26-92

Audited by: Myra Fletcher — Myra Fletcher / Scientist — Date 6/1/92

Audited by: _____ — _____ — Date __/__/__

Signature — Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: ___/___/___ Date Entered: ___/___/___ Date Reviewed: ___/___/___

Entered by: _____ _____

Reviewed by: _____ _____

Signature — Printed Name/Title

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICAT ON

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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	20000.0	19568.00	97.8	5000.0	5086.60	101.7	5093.50	101.9	P
Antimony	5000.0	5000.60	100.0	5000.0	5177.30	103.5	5128.80	102.6	P
Arsenic	50.4	46.38	92.0	30.0	31.82	106.1	29.04	96.8	F
Barium	20000.0	19758.00	98.8	5000.0	4895.50	97.9	4866.00	97.3	P
Beryllium	500.0	478.30	95.7	5000.0	4870.30	97.4	4856.40	97.1	P
Cadmium	500.0	517.61	103.5	5000.0	4988.00	99.8	4963.50	99.3	P
Calcium	50000.0	50954.00	101.9	50000.0	50583.00	101.2	50505.00	101.0	P
Chromium	2000.0	1969.60	98.5	5000.0	4893.50	97.9	4878.60	97.6	P
Cobalt	5000.0	4847.50	97.0	5000.0	4811.10	96.2	4799.20	96.0	P
Copper	2500.0	2469.50	98.8	5000.0	4871.80	97.4	4837.50	96.8	P
Iron	10000.0	9737.70	97.4	5000.0	4836.10	96.7	4846.40	96.9	P
Lead	32.0	33.40	104.4	30.0	28.68	95.6	27.24	90.8	F
Magnesium	50000.0	50045.00	100.1	50000.0	49794.00	99.6	49657.00	99.3	P
Manganese	5000.0	4850.90	97.0	5000.0	4863.50	97.3	4829.70	96.6	P
Mercury	5.0	4.24	84.8	3.0	3.04	101.3	3.19	106.3	CV
Nickel	5000.0	4950.90	99.0	5000.0	4868.00	97.4	4850.60	97.0	P
Potassium	50000.0	51121.00	102.2	50000.0	50199.00	100.4	49746.00	99.5	P
Selenium	50.3	49.96	99.3	30.0	33.12	110.4	32.25	107.5	F
Silver	500.0	494.49	98.9	500.0	492.06	98.4	487.61	97.5	P
Sodium	50000.0	51496.00	103.0	50000.0	50671.00	101.3	50378.00	100.8	P
Thallium	20.0	19.88	99.4	30.0	29.20	97.3	27.59	92.0	F
Vanadium	5000.0	4903.70	98.1	5000.0	4924.70	98.5	4903.40	98.1	P
Zinc	5000.0	4942.00	98.8	5000.0	4992.20	99.8	4968.50	99.4	P
Cyanide	94.0	101.24	107.7	100.0	101.18	101.2	100.04	100.0	AS

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

FORM II (PART 1) - IN

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U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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				5000.0	5162.80	103.3	5131.80	102.6	P
Antimony				5000.0	5202.50	104.0	5176.70	103.5	P
Arsenic				30.0	30.10	100.3	27.21	90.7	F
Barium				5000.0	4916.00	98.3	4912.10	98.2	P
Beryllium				5000.0	4899.70	98.0	4883.90	97.7	P
Cadmium				5000.0	5006.10	100.1	4978.20	99.6	P
Calcium				50000.0	50674.00	101.3	50700.00	101.4	P
Chromium				5000.0	4910.80	98.2	4884.70	97.7	P
Cobalt				5000.0	4828.20	96.6	4808.20	96.2	P
Copper				5000.0	4887.80	97.8	4867.10	97.3	P
Iron				5000.0	4861.80	97.2	4868.60	97.4	P
Lead				30.0	28.93	96.4	32.80	109.3	F
Magnesium				50000.0	50003.00	100.0	49957.00	99.9	P
Manganese				5000.0	4867.70	97.4	4837.70	96.8	P
Mercury				3.0	3.09	103.0			CV
Nickel				5000.0	4894.20	97.9	4884.30	97.7	P
Potassium				50000.0	50219.00	100.4	50277.00	100.6	P
Selenium				30.0	29.74	99.1	27.40	91.3	F
Silver				500.0	492.83	98.6	493.14	98.6	P
Sodium				50000.0	51164.00	102.3	51109.00	102.2	P
Thallium				30.0	28.45	94.8	30.01	100.0	F
Vanadium				5000.0	4947.30	98.9	4924.30	98.5	P
Zinc				5000.0	5010.80	100.2	4979.90	99.6	P
Cyanide				100.0	100.52	100.5	99.87	99.9	AS

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

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U.S. EPA - CLP

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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				5000.0	5129.40	102.6	5325.00	106.5	P
Antimony				5000.0	5174.80	103.5	5143.50	102.9	P
Arsenic				30.0	30.34	101.1	30.89	103.0	F
Barium				5000.0	4951.40	99.0	4985.10	99.7	P
Beryllium				5000.0	4872.30	97.4	4860.70	97.2	P
Cadmium				5000.0	4952.70	99.1	4933.90	98.7	P
Calcium				50000.0	50248.00	100.5	49973.00	99.9	P
Chromium				5000.0	4856.80	97.1	4831.10	96.6	P
Cobalt				5000.0	4774.70	95.5	4740.70	94.8	P
Copper				5000.0	4896.10	97.9	4914.90	98.3	P
Iron				5000.0	4812.20	96.2	4868.70	97.4	P
Lead				30.0	29.66	98.9	32.67	108.9	F
Magnesium				50000.0	49687.00	99.4	49650.00	99.3	P
Manganese				5000.0	4813.70	96.3	4799.90	96.0	P
Mercury									
Nickel				5000.0	4853.80	97.1	4831.30	96.6	P
Potassium				50000.0	51159.00	102.3	51499.00	103.0	P
Selenium				30.0	29.79	99.3	30.95	103.2	F
Silver				500.0	493.13	98.6	493.44	98.7	P
Sodium				50000.0	51954.00	103.9	52356.00	104.7	P
Thallium				30.0	27.11	90.4	29.65	98.8	F
Vanadium				5000.0	4912.50	98.2	4904.80	98.1	P
Zinc				5000.0	4957.60	99.2	4935.40	98.7	P
Cyanide				100.0	101.10	101.1	100.06	100.1	AS

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

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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									
Antimony									
Arsenic				30.0	28.69	95.6			F
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				30.0	31.01	103.4	29.62	98.7	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				30.0	30.27	100.9			F
Silver									
Sodium									
Thallium				30.0	30.20	100.7	29.68	98.9	F
Vanadium									
Zinc									
Cyanide									

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

FORM II (PART 1) - IN

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INORGANIC CASE

19026 MERA 13

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VE IFICATION

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	32.0	34.52	107.9	30.0	30.21	100.7	30.55	101.8	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium	20.0	20.58	102.9	30.0	30.76	102.5	30.73	102.4	F
Vanadium									
Zinc									
Cyanide									

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				30.0	31.07	103.6	29.92	99.7	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium				30.0	30.66	102.2	28.64	95.5	F
Vanadium									
Zinc									
Cyanide									

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

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				30.0	30.92	103.1	30.02	100.1	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium				30.0	28.86	96.2	28.53	95.1	F
Vanadium									
Zinc									
Cyanide									

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

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Initial Calibration Source: EPA-LV

Continuing Calibration Source: SPEX

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									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				30.0	31.28	104.3	32.59	108.6	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium				30.0	28.89	96.3	30.41	101.4	F
Vanadium									
Zinc									
Cyanide									

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

FORM II (PART 1) - IN

3/90

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA A' D ICP

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source: SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony				120.0	91.04	75.9	104.95	87.5
Arsenic	10.0	10.66	106.6					
Barium								
Beryllium				10.0	9.52	95.2	9.49	94.9
Cadmium				10.0	8.31	83.1	9.65	96.5
Calcium								
Chromium				20.0	20.04	100.2	19.89	99.4
Cobalt				100.0	100.08	100.1	98.58	98.6
Copper				50.0	50.19	100.4	53.91	107.8
Iron								
Lead	3.0	2.77	92.3					
Magnesium								
Manganese				30.0	30.54	101.8	30.20	100.7
Mercury								
Nickel				80.0	80.09	100.1	83.13	103.9
Potassium								
Selenium	5.0	5.93	118.6					
Silver				20.0	22.59	113.0	21.52	107.6
Sodium								
Thallium	10.0	9.69	96.9					
Vanadium				100.0	98.69	98.7	98.89	98.9
Zinc				40.0	39.77	99.4	39.68	99.2

FORM II (PART 2) - IN

3/90

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source: SPEX

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	3.0	2.46	82.0					
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium	10.0	9.62	96.2					
Vanadium								
Zinc								

FORM II (PART 2) - IN

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INORGANIC CASE

19026 MERA 13

021

U.S EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 ICS Source: SPEX

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	495170	487750.0	97.6	497730	493450.0	98.7
Antimony	0	0	-5	10.0		11	7.0	
Arsenic								
Barium	0	500	5	459.7	91.9	5	467.0	93.4
Beryllium	0	500	0	441.4	88.3	0	443.3	88.7
Cadmium	0	1000	2	955.1	95.5	0	948.9	94.9
Calcium	500000	500000	481900	473960.0	94.8	475680	471470.0	94.3
Chromium	0	500	-2	431.3	86.3	-3	427.8	85.6
Cobalt	0	500	-1	417.2	83.4	-3	415.2	83.0
Copper	0	500	2	469.1	93.8	2	475.5	95.1
Iron	200000	200000	170230	167960.0	84.0	168600	167420.0	83.7
Lead								
Magnesium	500000	500000	502630	495300.0	99.1	498930	495180.0	99.0
Manganese	0	500	14	450.3	90.1	14	449.4	89.9
Mercury								
Nickel	0	1000	-5	845.7	84.6	-6	845.9	84.6
Potassium	0	0	-43	-120.9		-166	-93.2	
Selenium								
Silver	0	1000	-4	929.5	93.0	-5	938.0	93.8
Sodium	0	0	117	97.9		86	88.2	
Thallium								
Vanadium	0	500	-3	441.1	88.2	-4	441.4	88.3
Zinc	0	1000	-2	917.6	91.8	-1	917.5	91.8

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Solid LCS Source: EPA-LV

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				325.0	299.4		225.0	424.0	92.1
Antimony				211.0	213.2		127.0	294.0	101.0
Arsenic				917.0	1060.0		635.0	1199.0	115.6
Barium				4.8	5.2	B	0.0	40.0	108.3
Beryllium				19.4	17.7		16.5	22.3	91.2
Cadmium				45.4	43.4		35.7	55.1	95.6
Calcium				196200.0	192890.0		166800.0	225600.0	98.3
Chromium				99.6	86.9		79.2	120.0	87.2
Cobalt				144.0	130.8		125.0	162.0	90.8
Copper				6910.0	6533.4		6006.0	7820.0	94.5
Iron				22430.0	19376.2		17770.0	27080.0	86.4
Lead				236.0	224.2		188.0	285.0	95.0
Magnesium				118100.0	111776.0		100400.0	129900.0	94.6
Manganese				208.0	191.7		177.0	239.0	92.2
Mercury				12.7	10.4		8.5	17.0	81.9
Nickel				60.9	53.6		49.2	72.6	88.0
Potassium				50.0	573.4	U	0.0	1000.0	0.0
Selenium				39.2	49.2		19.1	59.4	125.5
Silver				22.2	20.6		15.5	29.0	92.8
Sodium				50.0	116.7	B	0.0	1000.0	233.4
Thallium				39.0	30.6		24.6	53.5	78.5
Vanadium				65.8	60.8		51.7	79.9	92.4
Zinc				187.0	169.5		138.0	236.0	90.6
Cyanide				5.6	5.2		4.3	6.9	92.9

FORM VII - IN

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Standard Addition Results

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
MERA15	AS	.061	10.00	.118	20.00	.162	30.00	.205	13.7	.9975	
MERA17	AS	.087	10.00	.133	20.00	.183	30.00	.251	15.2	.9956	
MERA18	AS	.065	10.00	.097	20.00	.138	30.00	.174	17.2	.9990	

FORM VIII - IN

U.S. EPA - CLP

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MERA14L

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	25302.00		26703.50		5.5		P
Antimony	54.00	U	270.00	U			P
Arsenic							
Barium	266.34		276.48	B	3.8		P
Beryllium	3.37	B	5.00	U	100.0		P
Cadmium	5.00	U	25.00	U			P
Calcium	77151.00		82025.00		6.3		P
Chromium	55.66		51.50		7.5		P
Cobalt	80.22		90.13	B	12.4		P
Copper	70.94		74.87	B	5.5		P
Iron	129420.00		139415.00		7.7		P
Lead							
Magnesium	10574.00		11245.00	B	6.3		P
Manganese	5132.60		5447.50		6.1		P
Mercury							
Nickel	144.50		146.00	B	1.0		P
Potassium	3060.60	B	14335.00	U	100.0		P
Selenium							
Silver	10.00	U	50.00	U			P
Sodium	664.93	B	2318.70	B	248.7		P
Thallium							
Vanadium	62.12		67.23	B	8.2		P
Zinc	338.34		362.87		7.3		P

FORM IX - IN

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11A
ICP Interelement Correction Factors (Annually)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	AS
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	.0001477	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	.0111058
Calcium	315.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	.0000128	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	.0000625	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	.0000436	0.0000000	0.0000000
Iron	259.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead						
Magnesium	279.00	0.0000000	0.0000000	-.0018240	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	-.0002120	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	-.0000180	0.0000000	-.0001740	0.0000000	0.0000000
Zinc	213.80	-.0000180	0.0000000	.0000330	0.0000000	0.0000000

Comments:
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11B
ICP Interelement Correction Factors (Annually)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: BE	CD	CO	CR	CU
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	-.0005350	.0192872	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	.0080598	0.0000000	-.0001810	0.0000000	0.0000000
Calcium	315.80	0.0000000	0.0000000	.0031602	-.0003690	0.0000000
Chromium	267.70	.0002236	.0000506	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	.0001670	0.0000000	.0003396	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.90	0.0000000	0.0000000	0.0000000	.0002710	0.0000000
Lead						
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	.0000119	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.00	0.0000000	0.0000000	0.0000000	.0000199	.0000337
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	0.0000000	.0004427	0.0000000
Zinc	213.80	0.0000000	0.0000000	0.0000000	0.0000000	.0229780

Comments:
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11B
ICP Interelement Correction Factors (Annually)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: MN	NI	PB	TL	V
Aluminum	308.20	.0011900	0.0000000	0.0000000	0.0000000	.0170381
Antimony	206.80	0.0000000	-.0022490	0.0000000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	.0022808
Cadmium	228.80	0.0000000	-.0007830	0.0000000	0.0000000	.0000902
Calcium	315.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	.0002376
Cobalt	228.60	0.0000000	.0002977	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.90	.0003600	0.0000000	0.0000000	0.0000000	0.0000000
Lead						
Magnesium	279.00	-.0187700	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	-.0000110	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	.0005948	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.00	.0001414	0.0000000	0.0000000	0.0000000	-.0003800
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.80	0.0000000	.0043292	0.0000000	0.0000000	-.0011700

Comments:
FORM 11.01 - PAGE 3

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11B
ICP Interelement Correction Factors (Annually)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: ZN				
Aluminum	308.20	0.0000000				
Antimony	206.80	-.0008600				
Arsenic						
Barium	493.40	0.0000000				
Beryllium	313.00	0.0000000				
Cadmium	228.80	0.0000000				
Calcium	315.80	0.0000000				
Chromium	267.70	0.0000000				
Cobalt	228.60	0.0000000				
Copper	324.70	0.0000000				
Iron	259.90	0.0000000				
Lead						
Magnesium	279.00	0.0000000				
Manganese	257.60	0.0000000				
Mercury						
Nickel	231.60	0.0000000				
Potassium	766.40	0.0000000				
Selenium						
Silver	328.00	0.0000000				
Sodium	588.90	0.0000000				
Thallium						
Vanadium	292.40	0.0000000				
Zinc	213.80	0.0000000				

Comments:
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ICP Linear Ranges (Quarterly)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 Date: 4/15/92

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	7.00	900000.0	
Antimony	7.00	300000.0	
Arsenic			NR
Barium	7.00	80000.0	
Beryllium	7.00	80000.0	
Cadmium	7.00	150000.0	
Calcium	7.00	550000.0	
Chromium	7.00	250000.0	
Cobalt	7.00	100000.0	
Copper	7.00	150000.0	
Iron	7.00	230000.0	
Lead			NR
Magnesium	7.00	750000.0	
Manganese	7.00	100000.0	
Mercury			NR
Nickel	7.00	150000.0	
Potassium	7.00	800000.0	
Selenium			NR
Silver	7.00	50000.0	
Sodium	7.00	800000.0	
Thallium			NR
Vanadium	7.00	100000.0	
Zinc	7.00	150000.0	

Comments:
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13
PREPARATION LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No: SDG No.: MERA13

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/06/92	1.00	200
MERA13	5/06/92	1.00	200
MERA14	5/06/92	1.00	200
MERA14D	5/06/92	1.00	200
MERA14S	5/06/92	1.00	200
MERA15	5/06/92	1.01	200
MERA16	5/06/92	1.00	200
MERA17	5/06/92	1.02	200
MERA18	5/06/92	1.00	200
MERA19	5/06/92	1.00	200
PBS	5/06/92	1.00	200

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13
PREPARATION LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No: SDG No.: MERA13

Method: F

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/06/92	1.00	200
MERA13	5/06/92	1.00	200
MERA14	5/06/92	1.00	200
MERA14D	5/06/92	1.00	200
MERA14S	5/06/92	1.00	200
MERA15	5/06/92	1.01	200
MERA16	5/06/92	1.02	200
MERA17	5/06/92	1.00	200
MERA18	5/06/92	1.00	200
MERA19	5/06/92	1.00	200
PBS	5/06/92	1.00	200

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PREPARATION LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No: SDG No.: MERA13

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/06/92	.20	100
MERA13	5/06/92	.20	100
MERA14	5/06/92	.20	100
MERA14D	5/06/92	.20	100
MERA14S	5/06/92	.20	100
MERA15	5/06/92	.21	100
MERA16	5/06/92	.20	100
MERA17	5/06/92	.20	100
MERA18	5/06/92	.21	100
MERA19	5/06/92	.20	100
PBS	5/06/92	.20	100

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PREPARATION LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No: SDG No.: MERA13

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/05/92	5.00	250
MERA13	5/05/92	5.02	250
MERA14	5/05/92	5.02	250
MERA14D	5/05/92	5.02	250
MERA14S	5/05/92	5.02	250
MERA15	5/05/92	5.03	250
MERA16	5/05/92	5.02	250
MERA17	5/05/92	5.02	250
MERA18	5/05/92	5.02	250
MERA19	5/05/92	5.02	250
PBS	5/05/92	5.00	250

FORM XIII - IN 3/90

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: P2 Method: P

Start Date: 5/07/92 End Date: 5/07/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1105		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	1110		X					X		X		X						X			X				X	
S	1.00	1115			X																						
S	1.00	1120					X	X				X		X			X								X		
S	1.00	1124								X						X				X			X				
ICV	1.00	1126		X	X		X	X	X		X	X	X	X			X		X			X			X	X	
ICV	1.00	1131								X						X				X			X				
ICV	1.00	1136																									
ICB	1.00	1141		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSA	1.00	1146		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	1150		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	1155			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	1200		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1205		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	1210		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	1.00	1215		X	X		X	X	X		X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	5.00	1220								X																	
MERA14	1.00	1225		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14D	1.00	1230		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14S	1.00	1235			X		X	X	X		X	X	X				X		X			X			X	X	
MERA13	1.00	1240		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	1244		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1249		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA15	1.00	1254		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA16	1.00	1259		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA17	1.00	1304		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA18	1.00	1309		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA19	1.00	1314		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14A	1.00	1319			X																						
MERA14L	5.00	1324		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1329																									
ZZZZZZ	1.00	1334																									

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 13

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: P2 Method: P

Start Date: 5/07/92 End Date: 5/07/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1339		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1344		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB	1.00	1348		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ZZZZZZ	1.00	1353		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1358		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1403		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1408		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1413		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1418		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1423		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1428		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1433		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1438		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1443		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB	1.00	1447		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ZZZZZZ	1.00	1452		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1457		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1502		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1507		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1512		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1517		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1522		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1527		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1532		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1537		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1542		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB	1.00	1546		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ZZZZZZ	1.00	1551		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRI	1.00	1556		-	X	-	-	X	X	-	X	X	X	-	-	-	X	-	X	-	-	X	-	-	X	X	-
ICSA	1.00	1601		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSAB	1.00	1606		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	-

FORM XIV - IN 3/90

INORGANIC CASE

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: P2 Method: P

Start Date: 5/07/92 End Date: 5/07/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1616		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 13

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No. MERA13

Instrument ID Number: A6 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2301																			X						
S30	1.00	2306																			X						
S5	1.00	2314																			X						
S60	1.00	2319																			X						
ICV	2.00	2337																			X						
ICB	1.00	2342																			X						
CRA	1.00	2347																			X						
CCV	1.00	4																			X						
CCB	1.00	9																			X						
ZZZZZZ	1.00	16																									
PBS	1.00	23																			X						
PBSA	1.00	31	108.9																		X						
LCSS	200.00	35																									
LCSSA	200.00	40																									
LCSS	10.00	45																			X						
LCSSA	10.00	50	153.1																		X						
MERA14	1.00	102																			X						
MERA14A	1.00	107	125.2																		X						
ZZZZZZ	1.00	112																									
CCV	1.00	120																			X						
CCB	1.00	125																			X						
STB	1.00	132																			X						
CCV	1.00	142																			X						
CCB	1.00	147																			X						
MERA14D	1.00	151																			X						
MERA14DA	1.00	156	114.6																		X						
MERA14S	1.00	201																			X						
MERA14S	5.00	207																									
MERA14	2.00	212																									
MERA14A	2.00	220																									
MERA14D	2.00	227																									
MERA14DA	2.00	232																									

FORM XIV - IN 3/90

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A6 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	238																			X						
CCB	1.00	243																			X						
MERA16	1.00	248																			X						
MERA16A	1.00	255	-9999.9																								
MERA16A	1.00	301	100.0																		X						
MERA13	1.00	306																			X						
MERA13A	1.00	315	101.1																		X						
MERA15	1.00	320																			X						
MERA15A	1.00	325	107.1																		X						
CCV	1.00	330																			X						
CCB	1.00	335																			X						
MERA17	1.00	340																			X						
MERA17A	1.00	358	-9999.9																								
MERA17A	1.00	403	60.0																		X						
MERA18	1.00	408																			X						
MERA18A	1.00	418	79.6																		X						
MERA19	1.00	423																			X						
MERA19A	1.00	428	71.8																		X						
CCV	1.00	433																			X						
CCB	1.00	438																			X						
MERA150	1.00	446																									
MERA151	1.00	451																									
MERA152	1.00	453																									
MERA153	1.00	456																									
MERA170	1.00	500																									
MERA171	1.00	503																									
MERA172	1.00	506																									
MERA173	1.00	509																									
MERA180	1.00	513																									
MERA181	1.00	517																									
MERA182	1.00	521																									
MERA183	1.00	525																									

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A6 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	533																			X						
CCB	1.00	538																			X						

FORM XIV - IN 3/90

INORGANIC CASE

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A6 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2301				X																					
S30	1.00	2306				X																					
S10	1.00	2314				X																					
S60	1.00	2319				X																					
ICV	2.00	2337				X																					
ICB	1.00	2342				X																					
CRA	1.00	2347				X																					
CCV	1.00	4				X																					
CCB	1.00	9				X																					
ZZZZZZ	1.00	16																									
PBS	1.00	23				X																					
PBSA	1.00	31	102.2			X																					
LCSS	200.00	35				X																					
LCSSA	200.00	40	130.2			X																					
LCSS	10.00	45																									
LCSSA	10.00	50																									
MERA14	1.00	102																									
MERA14A	1.00	107	-9999.9																								
ZZZZZZ	1.00	112																									
CCV	1.00	120				X																					
CCB	1.00	125				X																					
STB	1.00	132				X																					
CCV	1.00	142				X																					
CCB	1.00	147				X																					
MERA14D	1.00	151																									
MERA14DA	1.00	156	-9999.9																								
MERA14S	1.00	201																									
MERA14S	5.00	207				X																					
MERA14	2.00	212				X																					
MERA14A	2.00	220	98.4			X																					
MERA14D	2.00	227				X																					
MERA14DA	2.00	232	104.1			X																					

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A6 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	238				X																					
CCB	1.00	243				X																					
MERA16	1.00	248				X																					
MERA16A	1.00	255	86.1			X																					
MERA16A	1.00	301	-9999.9																								
MERA13	1.00	306				X																					
MERA13A	1.00	315	107.8			X																					
MERA15	1.00	320																									
MERA15A	1.00	325	118.5																								
CCV	1.00	330				X																					
CCB	1.00	335				X																					
MERA17	1.00	340																									
MERA17A	1.00	358	74.5																								
MERA17A	1.00	403	-9999.9																								
MERA18	1.00	408																									
MERA18A	1.00	418	127.8																								
MERA19	1.00	423				X																					
MERA19A	1.00	428	87.8			X																					
CCV	1.00	433				X																					
CCB	1.00	438				X																					
MERA150	1.00	446				X																					
MERA151	1.00	451				X																					
MERA152	1.00	453				X																					
MERA153	1.00	456				X																					
MERA170	1.00	500				X																					
MERA171	1.00	503				X																					
MERA172	1.00	506				X																					
MERA173	1.00	509				X																					
MERA180	1.00	513				X																					
MERA181	1.00	517				X																					
MERA182	1.00	521				X																					
MERA183	1.00	525				X																					

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A6 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	533				X																					
CCB	1.00	538				X																					

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 13

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2319		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S30	1.00	2323		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S3	1.00	2327		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S3	1.00	2332		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S60	1.00	2336		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV	1.00	2344		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB	1.00	2348		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00	2352		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	2356		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	0		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBS	1.00	4		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBSA	1.00	8	99.6	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	50.00	13		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSSA	50.00	17	91.4	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS	10.00	21		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSSA	10.00	25		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	31		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	35		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	40		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	44		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MERA14	1.00	48		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA14A	1.00	52	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA14D	1.00	56		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA14DA	1.00	101	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA14D	5.00	105		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MERA14DA	5.00	109	96.7	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MERA14S	1.00	113		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA14S	5.00	117		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	122		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	126		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MERA13	1.00	130		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MERA13A	1.00	137	-9999.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MERA13A	1.00	142	100.2												X												
MERA15	1.00	146													X												
MERA15A	1.00	150	99.4												X												
MERA16	1.00	154													X												
MERA16A	1.00	159	98.0												X												
MERA17	1.00	206																									
MERA17A	1.00	210	-9999.9																								
CCV	1.00	217													X												
CCB	1.00	221													X												
MERA17	5.00	226													X												
MERA17A	5.00	234	95.6												X												
MERA18	1.00	239													X												
MERA18A	1.00	243	99.2												X												
MERA19	1.00	247																									
MERA19A	1.00	251	-9999.9																								
MERA19	5.00	258													X												
MERA19A	5.00	302	93.2												X												
CCV	1.00	307													X												
CCB	1.00	311													X												
ZZZZZZ	1.00	316																									
ZZZZZZ	1.00	320																									
ZZZZZZ	1.00	324																									
ZZZZZZ	1.00	328																									
ZZZZZZ	1.00	332																									
ZZZZZZ	1.00	336																									
ZZZZZZ	1.00	353																									
ZZZZZZ	1.00	358																									
CCV	1.00	402													X												
CCB	1.00	407													X												
ZZZZZZ	1.00	411																									
ZZZZZZ	1.00	415																									
ZZZZZZ	1.00	419																									

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	428																									
ZZZZZZ	1.00	432																									
ZZZZZZ	1.00	450																									
ZZZZZZ	1.00	454																									
ZZZZZZ	1.00	502																									
ZZZZZZ	1.00	507																									
ZZZZZZ	1.00	513																									
CCV	1.00	518													X												
CCB	1.00	522													X												
ZZZZZZ	1.00	527																									
CCV	1.00	531													X												
CCB	1.00	536													X												

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INORGANIC CASE

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19[illegible]6 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2319																						X			
S30	1.00	2323																						X			
S10	1.00	2327																									
S10	1.00	2332																						X			
S60	1.00	2336																						X			
ICV	1.00	2344																						X			
ICB	1.00	2348																						X			
CRA	1.00	2352																						X			
CCV	1.00	2356																						X			
CCB	1.00	0																						X			
PBS	1.00	4																						X			
PBSA	1.00	8	91.7																					X			
LCSS	50.00	13																									
LCSSA	50.00	17																									
LCSS	10.00	21																						X			
LCSSA	10.00	25	88.0																					X			
ZZZZZZ	1.00	31																									
ZZZZZZ	1.00	35																									
CCV	1.00	40																						X			
CCB	1.00	44																						X			
MERA14	1.00	48																						X			
MERA14A	1.00	52	86.7																					X			
MERA14D	1.00	56																						X			
MERA14DA	1.00	101	83.6																					X			
MERA14D	5.00	105																									
MERA14DA	5.00	109																									
MERA14S	1.00	113																						X			
MERA14S	5.00	117																									
CCV	1.00	122																						X			
CCB	1.00	126																						X			
MERA13	1.00	130																						X			
MERA13A	1.00	137	-9999.9																								

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INORGANIC CASE

19026 MERA 13

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14
ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: C[illegible]MPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MERA13A	1.00	142	81.9																					X			
MERA15	1.00	146																						X			
MERA15A	1.00	150	84.1																					X			
MERA16	1.00	154																						X			
MERA16A	1.00	159	81.5																					X			
MERA17	1.00	206																						X			
MERA17A	1.00	210	79.4																					X			
CCV	1.00	217																						X			
CCB	1.00	221																						X			
MERA17	5.00	226																									
MERA17A	5.00	234																									
MERA18	1.00	239																						X			
MERA18A	1.00	243	81.4																					X			
MERA19	1.00	247																						X			
MERA19A	1.00	251	87.6																					X			
MERA19	5.00	258																									
MERA19A	5.00	302																									
CCV	1.00	307																						X			
CCB	1.00	311																						X			
ZZZZZZ	1.00	316																									
ZZZZZZ	1.00	320																									
ZZZZZZ	1.00	324																									
ZZZZZZ	1.00	328																									
ZZZZZZ	1.00	332																									
ZZZZZZ	1.00	336																									
ZZZZZZ	1.00	353																									
ZZZZZZ	1.00	358																									
CCV	1.00	402																						X			
CCB	1.00	407																						X			
ZZZZZZ	1.00	411																									
ZZZZZZ	1.00	415																									
ZZZZZZ	1.00	419																									

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14
ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/07/92 End Date: 5/08/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	428																									
ZZZZZZ	1.00	432																									
ZZZZZZ	1.00	450																									
ZZZZZZ	1.00	454																									
ZZZZZZ	1.00	502																									
ZZZZZZ	1.00	507																									
ZZZZZZ	1.00	513																									
CCV	1.00	518																						X			
CCB	1.00	522																						X			
ZZZZZZ	1.00	527																									
CCV	1.00	531																						X			
CCB	1.00	536																						X			

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/20/92 End Date: 5/21/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2330													X												
S30	1.00	2334													X												
S3	1.00	2338													X												
S60	1.00	2343													X												
ICV	1.00	2356													X												
ICB	1.00	0													X												
CRA	1.00	4													X												
CCV	1.00	9													X												
CCB	1.00	13													X												
MERA14	5.00	18													X												
MERA14A	5.00	22	108.6												X												
ZZZZZZ	1.00	26																									
ZZZZZZ	1.00	30																									
ZZZZZZ	1.00	35																									
ZZZZZZ	1.00	39																									
ZZZZZZ	1.00	43																									
ZZZZZZ	1.00	47																									
ZZZZZZ	1.00	101																									
ZZZZZZ	1.00	106																									
CCV	1.00	110													X												
CCB	1.00	114													X												
ZZZZZZ	1.00	118																									
ZZZZZZ	1.00	122																									
ZZZZZZ	1.00	132																									
ZZZZZZ	1.00	140																									
ZZZZZZ	1.00	144																									
ZZZZZZ	1.00	149																									
ZZZZZZ	1.00	154																									
ZZZZZZ	1.00	158																									
ZZZZZZ	1.00	202																									
ZZZZZZ	1.00	206																									
CCV	1.00	210													X												

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/20/92 End Date: 5/21/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	214													X												
ZZZZZZ	1.00	219																									
ZZZZZZ	1.00	223																									
ZZZZZZ	1.00	227																									
ZZZZZZ	1.00	231																									
ZZZZZZ	1.00	235																									
ZZZZZZ	1.00	239																									
ZZZZZZ	1.00	243																									
ZZZZZZ	1.00	247																									
CCV	1.00	252													X												
CCB	1.00	256													X												
ZZZZZZ	1.00	300																									
ZZZZZZ	1.00	304																									
ZZZZZZ	1.00	308																									
ZZZZZZ	1.00	312																									
ZZZZZZ	1.00	317																									
ZZZZZZ	1.00	321																									
ZZZZZZ	1.00	325																									
ZZZZZZ	1.00	329																									
CCV	1.00	334													X												
CCB	1.00	338													X												
ZZZZZZ	1.00	342																									
ZZZZZZ	1.00	346																									
ZZZZZZ	1.00	350																									
ZZZZZZ	1.00	354																									
ZZZZZZ	1.00	404																									
ZZZZZZ	1.00	408																									
ZZZZZZ	1.00	412																									
ZZZZZZ	1.00	416																									
CCV	1.00	421													X												
CCB	1.00	425													X												
ZZZZZZ	1.00	429																									

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/20/92 End Date: 5/21/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	433																									
ZZZZZZ	1.00	437																									
ZZZZZZ	1.00	442																									
ZZZZZZ	1.00	446																									
ZZZZZZ	1.00	450																									
ZZZZZZ	1.00	454																									
ZZZZZZ	1.00	458																									
ZZZZZZ	1.00	503																									
CCV	1.00	510													X												
CCB	1.00	514													X												
ZZZZZZ	1.00	519																									
ZZZZZZ	1.00	523																									
ZZZZZZ	1.00	533																									
ZZZZZZ	1.00	537																									
ZZZZZZ	1.00	545																									
ZZZZZZ	1.00	552																									
CCV	1.00	556													X												
CCB	1.00	600													X												

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/20/92 End Date: 5/21/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2330																						X			
S30	1.00	2334																						X			
S10	1.00	2338																						X			
S60	1.00	2343																						X			
ICV	1.00	2356																						X			
ICB	1.00	0																						X			
CRA	1.00	4																						X			
CCV	1.00	9																						X			
CCB	1.00	13																						X			
MERA14	5.00	18																									
MERA14A	5.00	22																									
ZZZZZZ	1.00	26																									
ZZZZZZ	1.00	30																									
ZZZZZZ	1.00	35																									
ZZZZZZ	1.00	39																									
ZZZZZZ	1.00	43																									
ZZZZZZ	1.00	47																									
ZZZZZZ	1.00	101																									
ZZZZZZ	1.00	106																									
CCV	1.00	110																						X			
CCB	1.00	114																						X			
ZZZZZZ	1.00	118																									
ZZZZZZ	1.00	122																									
ZZZZZZ	1.00	132																									
ZZZZZZ	1.00	140																									
ZZZZZZ	1.00	144																									
ZZZZZZ	1.00	149																									
ZZZZZZ	1.00	154																									
ZZZZZZ	1.00	158																									
ZZZZZZ	1.00	202																									
ZZZZZZ	1.00	206																									
CCV	1.00	210																						X			

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/20/92 End Date: 5/21/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	214																						X			
ZZZZZZ	1.00	219																									
ZZZZZZ	1.00	223																									
ZZZZZZ	1.00	227																									
ZZZZZZ	1.00	231																									
ZZZZZZ	1.00	235																									
ZZZZZZ	1.00	239																									
ZZZZZZ	1.00	243																									
ZZZZZZ	1.00	247																									
CCV	1.00	252																						X			
CCB	1.00	256																						X			
ZZZZZZ	1.00	300																									
ZZZZZZ	1.00	304																									
ZZZZZZ	1.00	308																									
ZZZZZZ	1.00	312																									
ZZZZZZ	1.00	317																									
ZZZZZZ	1.00	321																									
ZZZZZZ	1.00	325																									
ZZZZZZ	1.00	329																									
CCV	1.00	334																						X			
CCB	1.00	338																						X			
ZZZZZZ	1.00	342																									
ZZZZZZ	1.00	346																									
ZZZZZZ	1.00	350																									
ZZZZZZ	1.00	354																									
ZZZZZZ	1.00	404																									
ZZZZZZ	1.00	408																									
ZZZZZZ	1.00	412																									
ZZZZZZ	1.00	416																									
CCV	1.00	421																						X			
CCB	1.00	425																						X			
ZZZZZZ	1.00	429																									

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INORGANIC CASE

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: A1 Method: F

Start Date: 5/20/92 End Date: 5/21/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	433																									
ZZZZZZ	1.00	437																									
ZZZZZZ	1.00	442																									
ZZZZZZ	1.00	446																									
ZZZZZZ	1.00	450																									
ZZZZZZ	1.00	454																									
ZZZZZZ	1.00	458																									
ZZZZZZ	1.00	503																									
CCV	1.00	510																						X			
CCB	1.00	514																						X			
ZZZZZZ	1.00	519																									
ZZZZZZ	1.00	523																									
ZZZZZZ	1.00	533																									
ZZZZZZ	1.00	537																									
ZZZZZZ	1.00	545																									
ZZZZZZ	1.00	552																									
CCV	1.00	556																						X			
CCB	1.00	600																						X			

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: V2 Method: CV

Start Date: 5/06/92 End Date: 5/06/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1819																X									
S0.5	1.00																	X									
S1	1.00																	X									
S3	1.00																	X									
S5	1.00																	X									
S10	1.00																	X									
ICV	2.00																	X									
ICB	1.00																	X									
CCV	1.00																	X									
CCB	1.00																	X									
PBS	1.00																	X									
LCSS	5.00																	X									
MERA14	1.00																	X									
MERA14S	1.00																	X									
MERA14D	1.00																	X									
MERA13	1.00																	X									
MERA15	1.00																	X									
MERA16	1.00																	X									
MERA17	1.00																	X									
MERA18	1.00																	X									
CCV	1.00																	X									
CCB	1.00																	X									
MERA19	1.00																	X									
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																	X									
CCB	1.00	1924																X									

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INORGANIC CASE

19026 MERA 13

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: C1 Method: AS

Start Date: 5/06/92 End Date: 5/06/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S300	1.00	1249																									X
S300	1.00																										X
S200	1.00																										X
S100	1.00																										X
S50	1.00																										X
S10	1.00																										X
S0	1.00																										X
S300	1.00																										X
S0	1.00																										X
S0	1.00																										X
S100	1.00																										X
S100	1.00																										X
S100	1.00																										X
ICV	1.00																										X
ICB	1.00																										X
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
PBS	1.00																										X
LCSS	1.00																										X
MERA14	1.00																										X
MERA14D	1.00																										X
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00																										X
MERA14S	1.00																										X
MERA13	1.00																										X
MERA15	1.00																										X
MERA16	1.00																										X
MERA17	1.00																										X

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: C1 Method: AS

Start Date: 5/06/92 End Date: 5/06/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MERA18	1.00																										X
MERA19	1.00																										X
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00																										X
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00																										X
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00																										X
ZZZZZZ	1.00																										

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ANALYSIS RUN LOG

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Instrument ID Number: C1 Method: AS

Start Date: 5/06/92 End Date: 5/06/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00																										X
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00	1417																									X

FORM XIV - IN 3/90

P2

ICAP Runlog

Original data in SDG MERA13.

Page 1 of 2
Date 5/7/92

Method (circle one):

CLP 200.7
SW-846 6010

① JCU19 PEJCU2 SPEXMSSE

Operator James Medlin
Case Name: MERA13; 3D0251
File Name: JEM0507A
P2 9205071106

#	Sample ID	Comments	Time	#	Sample ID	Comments	Time
	ICV	①		1	491238		
	ICB			2	491240		
1	ICSA			3	491241		
2	ICSAB			4	491242		
3	CRI			5	491246		
4				6	491231	PDS 2XCRDL 5b	
5				7	491231	Ser. Dil. 1:5	
6				8	491941	PBS	
7				9	491720	LCSS	
8				10	491717		
9					CCV		
10	JEM 5/7/92				CCB		
	CCV						
	CCB			1	491719	D(491717)	
				2	491718	SS(491717)	
1	492218	PBS		3	491733		
2	491234	LCSS		4	491725		
3	491234	LCSS 1:5		5	491726		
4	491231			6	491727		
5	491233	D(491231)		7	491728		
6	491232	SS(491231)		8	491729		
7	491230			9	491730		
8				10	491731		
9					CCV		
10	JEM 5/7/92				CCB		
	CCV						
	CCB					JEM 5/7/92	
	#Samples				Instrument Hrs.		
	#Dilutions	JEM 5/7/92			QC Samples	JEM 5/7/92	

Reviewed By [signature] Date 5-7-92

INORGANIC CASE COMPUCHEM LABS 19026 MERA 13 LOGBOOK 1R 4 074 589

ICAP Runlog

P2

Page 2 of 2
Date 5/7/92

Method (circle one):

CLP 200.7
SW-846 6010

Operator J. Medlin
Case Name: MERAB:SD0251
File Name: JEMO507A

#	Sample ID	Comments	Time	#	Sample ID	Comments	Time
	ICV JEM 5/7/92			1			
	ICB			2			
1	491732			3			
2	491734			4			
3	491735			5			
4	491736			6			
5	491737			7			
6	491738			8			
7	491739			9			
8	491717	PDS 2xCRDL	56	10			
9	491717	Ser. Dil. 1:5			CCV		
10	123123	PDS Mn @ 2500 PPB			CCB		
	CCV						
	CCB			1			
				2			
1				3			
2				4			
3				5			
4				6			
5				7			
6				8			
7	123123	491720 LCSS	1:5	9			
8	CRI			10			
9	ICSA				CCV		
10	ICSAB				CCB		
	CCV						
	CCB					JEM 5/7/92	
	#Samples				Instrument Hrs.		
	#Dilutions	JEM 5/7/92			QC Samples	JEM 5/7/92	

Reviewed By [signature] Date 5-7-92

Compuchem Labs.

Preparation of Standard Blank (S0, ICB, CCB):
Into a 100 ml volumetric flask place ~90 mls Deionized Water and 2.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E51078 . Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of Standard XCL-11 (S):
Into a 100 ml volumetric flask place ~90 mls Deionized Water and 2.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E51078 . Pipet 1.0 ml XCL-11 Lot# 2-150VY into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of Standard XCL-2 (S):
Into a 100 ml volumetric flask place ~90 mls Deionized Water and 2.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade) ; Lot# E51078 . Pipet 1.0 ml of XCL-2 Lot# 2-151VY into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of Standard XCL-3A (S):
Into a 100 ml volumetric flask place ~90 mls Deionized Water and 2.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E51078 . Pipet 1.0 ml XCL-3A Lot# 2-152VY into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of Standard PLSB2-2X (S):
Into a 100 ml volumetric flask place ~90 mls Deionized Water and 2.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E51078 . Pipet 1.0 ml PLSB2-2X Lot# 2-138SB into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of Continuing Calibration Verification Solution (CVS1):
Into a 200 ml volumetric flask place ~150 mls Deionized Water and 4.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E51078 . Pipet 1.0 ml XCL-2 Lot# 2-151VY, 1.0 ml XCL-11 Lot# 2-150VY, 1.0 ml XCL-3A Lot# 2-152VY, 1.0 ml PLSB2-2X Lot# 1-191SB into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/5/92

Preparation of ICV19 Solutions:
Into a 200 ml volumetric flask place ~ 150mls Deionized Water and 4.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E51078 . Pipet 20.0 mls XCL-19 LOT# 3-150AS into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/5/92

Preparation of PEICV2 Solution:
Into a 200 ml volumetric flask place ~ 150 mls Deionized Water and
4.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade);
Lot# E51078 . Pipet 2.0 ml PE PURE Lot# 3-151AS
into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist EBV Date 5/2/92

Preparation of SPEXAS Solution:
Into a 200 ml volumetric flask place ~150 mls Deionized Water and
4.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade);
Lot# E51078 . Pipet 1.0 ml PLAS2-2X Lot# 1-218AS,
1.0 ml PLTL2-2X Lot# 1-217TL, 1.0 ml PLPB2-2X Lot# 2-78PB,
1.0 ml PLSE2-2X Lot# 2-47SE into flask.
Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of Intercheck Solution A (ICSA):
Into a 200 ml volumetric flask place ~150 mls Deionized Water and
4.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade);
Lot# E51078 . Pipet 20.0 mls INTER A1 Lot# 3-11AS
into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of Intercheck Solution AB (ICSAB):
Into a 200 ml volumetric flask place ~150 mls Deionized Water and
4.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade);
Lot# E51078 . Pipet 20.0 mls INTER A1 Lot# 3-11AS,
0.1 ml PLBA Lot# 2-25BA , 0.1 ml PLBE Lot# 2-81BE ,
0.1 ml PLCR Lot# 2-143CR, 0.1 ml PLCU Lot# 2-42CU ,
0.1 ml PLMN Lot# 1-19MN , 0.1 ml PLCO Lot# 2-86CO ,
0.1 ml PLV Lot# 2-132V , 0.2 ml PLAG Lot# 2-73AG ,
0.2 ml PLCD Lot# 2-74CD , 0.2 ml PLNI Lot# 2-43NI ,
0.2 ml PLPB Lot# 2-78PB , 0.2 ml PLZN Lot# 2-48ZN
into the flask. Bring up to voulume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of CRI Solution:
Into a 200 ml volumetric flask place ~150 mls Deionized Water and 4.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E51078. Pipet 2.0 mls CRI solution A P(1 or 2) (see below) and 0.20 ml CRDL-1 Lot# 3-40AS into flask. Bring up to volume with Deionized Water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 5/7/92

Preparation of CRI Solution A for P1:
Into a 100 ml volumetric flask, place ~80 mls Deionized water and 2.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E46057. Pipet 0.40 mls PLPB2-2X Lot# 2-18PB, 1.04 mls PLSE2-2X Lot# 2-47SE, 0.28 mls PLAS2-2X Lot# 1-218AS, and 1.38 mls PLTL2-2X Lot# 1-217TL into the flask. Bring up to volume with Deionized water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 2/25/92

Preparation of CRI Solution A for P2:
Into a 100 ml volumetric flask, place ~80 mls Deionized water and 2.0 mls HNO3 (Baker Instra Analyzed Trace Metals Grade); Lot# E46057. Pipet 0.90 mls PLPB2-2X Lot# 2-18PB, 1.96 mls PLSE2-2X Lot# 2-47SE, 0.62 mls PLAS2-2X Lot# 1-218AS, and 0.70 mls PLTL2-2x Lot# 1-217TL into the flask. Bring up to volume with Deionized water.
Place solution in an acid washed teflon bottle. Chemist LJ Date 2/25/92

Method: CLP61E Standard: BLANK

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.01000	-.00038	-.00214	.00018	.00229	-.00033	.01205
SDev	.00478	.00017	.00155	.00021	.00000	.00086	.00328
%RSD	47.745	-43.301	-72.111	117.61	.00000	-258.33	27.204
#1	.01400	-.00029	-.00043	.00041	.00229	.00057	.01357
#2	.01129	-.00029	-.00343	.00005	.00229	-.00043	.01429
#3	.00471	-.00057	-.00257	.00006	.00229	-.00114	.00829

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00005	-.00048	.00052	.00000	.00014	.00462	-.00057
SDev	.00159	.00135	.00044	.00000	.00340	.00129	.00076
%RSD	3345.1	-283.55	83.320	.00000	2381.2	27.892	-132.29
#1	.00186	.00000	.00043	.00000	-.00243	.00329	-.00086
#2	-.00114	.00057	.00100	.00000	.00400	.00586	.00029
#3	-.00057	-.00200	.00014	.00000	-.00114	.00471	-.00114

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	-.00034	-.04062	-.00157	.00081	.32076	.00033	.00010
SDev	.00120	.00513	.00025	.00093	.00303	.00071	.00017
%RSD	-357.29	-12.633	-15.746	114.82	.94407	211.41	173.21
#1	.00105	-.04400	-.00143	.00171	.32029	.00000	.00000
#2	-.00112	-.03471	-.00143	.00086	.32400	.00114	.00029
#3	-.00093	-.04314	-.00186	-.00014	.31800	-.00014	.00000

Elem	Tl1908	Mo2020
Avge	.00190	.04448
SDev	.00325	.00058
%RSD	170.59	1.2981
#1	-.00171	.04500
#2	.00457	.04457
#3	.00286	.04386

Method: CLP61E Standard: XCL11

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	2.9659	.01067	.02419	.00075	.00252	3.2596	.01686
SDev	.0439	.00100	.00093	.00023	.00008	.0294	.00395
%RSD	1.4789	9.4068	3.8424	30.054	3.2680	.90306	23.409
#1	2.9563	.01057	.02414	.00086	.00257	3.2561	.01814
#2	3.0137	.00971	.02514	.00049	.00243	3.2906	.01243
#3	2.9276	.01171	.02329	.00091	.00257	3.2320	.02000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	9.4206	.00371	2.9418	.00000	2.3649	.00633	.00157
SDev	.0845	.00057	.0535	.00000	.0035	.00700	.00141
%RSD	.89653	15.385	1.8182	.00000	.14648	110.51	89.535
#1	9.3983	.00429	2.9356	.00000	2.3617	.00971	.00271
#2	9.5140	.00314	2.9981	.00000	2.3686	-.00171	.00000
#3	9.3496	.00371	2.8917	.00000	2.3643	.01100	.00200

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	6.6123	-.03181	.77514	.31124	.33643	.00290	6.8111
SDev	.0523	.01545	.00678	.00353	.00515	.00073	.0652
%RSD	.79070	-48.572	.87439	1.1339	1.5310	25.237	.95772
#1	6.5844	-.02543	.77243	.31071	.33500	.00271	6.7970
#2	6.6726	-.04943	.78286	.31500	.33214	.00229	6.8823
#3	6.5798	-.02057	.77014	.30800	.34214	.00371	6.7541

Elem	Tl1908	Mo2020
Avge	2.6822	.05090
SDev	.0247	.00017
%RSD	.92000	.32405
#1	2.6807	.05100
#2	2.7076	.05071
#3	2.6583	.05100

Standardization Rpt.

Method: CLP61E

Thu 05-07-92 11:16:16 AM

Standard: PLSB2

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.01095	.61605	-.00019	.00040	.00229	.00076	.01700
SDev	.00373	.00396	.00190	.00003	.00000	.00022	.00141
%RSD	34.047	.64320	-998.75	8.3065	.00000	28.641	8.2764
#1	.00800	.61500	-.00229	.00036	.00229	.00071	.01857
#2	.01514	.61271	.00143	.00043	.00229	.00057	.01657
#3	.00971	.62043	.00029	.00041	.00229	.00100	.01586

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00171	.00019	.00019	.00000	-.00305	.00190	.00067
SDev	.00062	.00044	.00022	.00000	.00215	.00097	.00050
%RSD	36.324	229.13	114.56	.00000	-70.521	51.051	75.255
#1	.00214	.00057	.00000	.00000	-.00286	.00114	.00114
#2	.00200	.00029	.00043	.00000	-.00529	.00300	.00071
#3	.00100	-.00029	.00014	.00000	-.00100	.00157	.00014

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	.00062	-.04576	-.00081	.00095	.33257	.00019	.00033
SDev	.00065	.00521	.00054	.00036	.00287	.00033	.00058
%RSD	105.13	-11.395	-66.811	37.749	.86232	173.21	173.21
#1	.00026	-.05171	-.00043	.00129	.32957	.00000	-.00029
#2	.00138	-.04357	-.00057	.00057	.33529	.00057	.00043
#3	.00023	-.04200	-.00143	.00100	.33286	.00000	.00086

Elem	Tl1908	Mo2020
Avge	-.00062	.04562
SDev	.00059	.00022
%RSD	-96.077	.47835
#1	-.00129	.04543
#2	-.00014	.04586
#3	-.00043	.04557

INORGANIC CASE

19026 MERA 13

Method: CLP61E Standard: XCL2

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.11838	.00776	2.6867	8.8320	31.105	.07000	.05619
SDev	.00192	.00068	.0158	.0480	.137	.00089	.00100
%RSD	1.6205	8.6978	.58986	.54370	.44194	1.2745	1.7857
#1	.11757	.00800	2.6687	8.7782	30.955	.06971	.05714
#2	.12057	.00829	2.6987	8.8704	31.225	.07100	.05629
#3	.11700	.00700	2.6926	8.8475	31.134	.06929	.05514

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	-.01376	3.7982	.00195	.27829	-.00867	-.04624	35.588
SDev	.00054	.0174	.00058	.00141	.00223	.00408	.172
%RSD	-3.9300	.45833	29.572	.50559	-25.766	-8.8329	.48388
#1	-.01314	3.7797	.00229	.27671	-.01071	-.04271	35.396
#2	-.01400	3.8143	.00229	.27943	-.00629	-.04529	35.730
#3	-.01414	3.8006	.00129	.27871	-.00900	-.05071	35.637

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	-.00403	-.04214	-.01233	-.00143	.33919	4.7038	-.00976
SDev	.00209	.00942	.00318	.00038	.00300	.0210	.00022
%RSD	-51.741	-22.360	-25.805	-26.458	.88479	.44593	-2.2354
#1	-.00239	-.03514	-.01600	-.00157	.33929	4.6811	-.00971
#2	-.00638	-.03843	-.01071	-.00100	.34214	4.7226	-.00957
#3	-.00332	-.05286	-.01029	-.00171	.33614	4.7076	-.01000

Elem	Tl1908	Mo2020
Avge	-.05367	2.1158
SDev	.00470	.0140
%RSD	-8.7494	.66315
#1	-.04971	2.1009
#2	-.05243	2.1287
#3	-.05886	2.1177

Method: CLP61E Standard: XCL3A

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.01519	.00014	.00071	.00153	.00267	.00010	63.638
SDev	.00208	.00052	.00409	.00004	.00017	.00095	.036
%RSD	13.704	360.56	572.36	2.7487	6.1859	998.75	.05675
#1	.01686	.00071	-.00314	.00156	.00286	.00114	63.612
#2	.01286	.00000	.00500	.00148	.00257	-.00014	63.623
#3	.01586	-.00029	.00029	.00154	.00257	-.00071	63.679

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00000	.00029	.00033	.00000	.00390	22.643	.01571
SDev	.00168	.00057	.00030	.00000	.00392	.012	.00057
%RSD	8681e6	200.00	89.214	.00000	100.48	.05132	3.6364
#1	-.00043	-.00029	.00057	.00000	.00071	22.632	.01629
#2	-.00143	.00029	.00000	.00000	.00271	22.655	.01571
#3	.00186	.00086	.00043	.00000	.00829	22.642	.01514

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	-.00061	1.8498	.00029	.00086	36.959	.00029	.00276
SDev	.00222	.0079	.00029	.00050	.067	.00038	.00041
%RSD	-365.96	.42933	100.00	57.735	.18136	132.29	14.931
#1	.00156	1.8583	.00029	.00114	37.031	.00057	.00300
#2	-.00051	1.8484	.00057	.00114	36.947	-.00014	.00300
#3	-.00287	1.8426	.00000	.00029	36.899	.00043	.00229

Elem	Tl1908	Mo2020
Avge	.00195	.05671
SDev	.00286	.00086
%RSD	146.40	1.5113
#1	.00486	.05757
#2	-.00086	.05671
#3	.00186	.05586

Method: CLP61E Sample Name: ICV ICV19 Operator:
Run Time: 05/07/92 11:26:22
Comment: ICV ICV19
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	19568.	5000.6	19134.	19758.	478.30	517.61	10.330
SDev	28.	11.5	51.	48.	.44	4.17	2.127
%RSD	.14130	.23034	.26670	.24230	.09201	.80544	20.592
#1	19574.	4995.1	19075.	19702.	478.09	521.76	12.512
#2	19593.	4992.8	19157.	19788.	478.81	513.42	10.217
#3	19538.	5013.8	19169.	19783.	478.00	517.65	8.2619

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	1969.6	4847.5	2469.5	9737.7	4916.3	3.2199	4850.9
SDev	6.0	11.5	1.3	25.8	43.4	9.5675	8.4
%RSD	.30213	.23655	.05200	.26539	.88329	297.14	.17375
#1	1971.3	4844.1	2468.5	9734.3	4869.7	-3.6976	4852.5
#2	1974.5	4860.3	2471.0	9765.1	4955.6	14.138	4858.4
#3	1963.0	4838.1	2469.0	9713.7	4923.6	-.78111	4841.8

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4950.9	-123.43	19751.	494.49	57.577	4903.7	4942.0
SDev	13.1	206.31	32.	.26	15.596	6.2	8.7
%RSD	.26494	-167.15	.16392	.05347	27.088	.12701	.17542
#1	4943.4	-345.11	19721.	494.80	41.981	4900.0	4945.6
#2	4966.1	-88.166	19747.	494.34	73.174	4910.9	4948.2
#3	4943.3	62.975	19786.	494.34	57.577	4900.3	4932.1

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	19272.	227.19
SDev	20.	2.54
%RSD	.10523	1.1172
#1	19295.	230.11
#2	19263.	225.94
#3	19257.	225.51

Method: CLP61E Sample Name: ICV PEICV2 Operator:
Run Time: 05/07/92 11:31:17
Comment: ICV PEICV2
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	2011.3	616.48	88.101	1960.5	47.668	52.713	50954.
SDev	8.2	24.75	21.092	14.0	.195	1.975	202.
%RSD	.40906	4.0149	23.941	.71360	.40963	3.7471	.39664
#1	2002.9	603.37	65.739	1971.7	47.764	50.919	50886.
#2	2019.4	645.02	107.64	1944.8	47.444	54.830	50795.
#3	2011.5	601.03	90.924	1964.9	47.797	52.391	51181.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	99.256	479.82	244.91	970.50	66.638	50045.	147.07
SDev	1.145	3.91	1.46	8.89	9.068	218.	.60
%RSD	1.1538	.81450	.59495	.91653	13.608	.43578	.40967
#1	98.044	477.55	244.91	980.77	57.775	50104.	147.09
#2	100.32	477.57	243.45	965.36	75.898	49804.	146.45
#3	99.404	484.33	246.37	965.36	66.242	50228.	147.65

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	390.23	51121.	44.827	97.003	51496.	495.36	200.45
SDev	4.69	140.	34.175	2.006	520.	3.45	2.00
%RSD	1.2006	.27312	76.237	2.0684	1.0090	.69617	.99636
#1	392.61	50960.	35.038	95.621	52060.	493.84	200.23
#2	384.83	51202.	16.615	99.304	51037.	492.93	198.58
#3	393.25	51202.	82.828	96.084	51391.	499.30	202.55

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	72.665	28.785
SDev	8.074	2.585
%RSD	11.112	8.9812
#1	65.391	29.079
#2	71.252	26.066
#3	81.353	31.211

Method: CLP61E Sample Name: ICV SPEXASSE Operator:
Run Time: 05/07/92 11:36:12
Comment: ICV SPEXASSE
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-10.641	-6.9573	4849.6	.19722	-.00115	7.5916	6.7312
SDev	9.511	11.9025	21.0	.10642	.00069	1.2496	2.9872
%RSD	-89.375	-171.08	.43284	53.958	-59.957	16.461	44.379
#1	-1.9422	-17.034	4861.4	.30364	-.00115	6.1488	8.6691
#2	-9.1862	-10.013	4825.3	.19722	-.00046	8.2993	3.2910
#3	-20.796	6.1751	4862.0	.09081	-.00185	8.3268	8.2334

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	.30271	1.5039	-.64759	-.00012	4972.2	-13.040	.10820
SDev	1.9203	2.4188	1.01106	.00058	52.1	11.047	.16760
%RSD	634.35	160.84	-156.12	-479.66	1.0471	-84.721	154.90
#1	2.3753	4.2630	.16190	-.00075	5031.9	-2.0979	.29612
#2	-1.4159	.50038	-.32380	.00039	4948.4	-12.832	-.02582
#3	-.05127	-.25166	-1.7809	-.00001	4936.3	-24.190	.05430

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	.31800	-254.42	5046.9	.00020	36.652	.50580	-.5625
SDev	2.3375	108.99	34.1	2.0761	11.363	.30327	.4208
%RSD	735.05	-42.838	.67494	1062700.	31.003	59.958	-74.812
#1	1.9581	-163.74	5048.7	1.9953	25.994	.50504	-.14905
#2	1.3544	-224.19	5012.0	.15360	35.352	.20291	-.99032
#3	-2.3585	-375.33	5080.0	-2.1484	48.609	.80945	-.54814

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4999.6	55.870
SDev	47.7	.415
%RSD	.95372	.74316
#1	5050.8	56.157
#2	4956.5	56.060
#3	4991.7	55.394

Method: CLP61E Sample Name: S0 Operator:
Run Time: 05/07/92 11:41:06
Comment: ICB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5.1359	-9.2900	-17.456	.02980	.02815	-.09881	8.5292
SDev	1.5172	12.7886	8.399	.25573	.04973	1.91370	2.9226
%RSD	29.542	-137.66	-48.113	858.24	176.66	-1936.8	34.266
#1	3.8157	-21.677	-16.209	-.10925	.08538	.32192	8.6785
#2	6.7934	3.8656	-26.409	-.12628	.00369	-2.1879	11.374
#3	4.7986	-10.059	-9.7505	.32493	-.00462	1.5695	5.5348

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	1.0106	1.0035	.80949	-.00037	-19.574	5.6846	.28070
SDev	1.1443	.4340	2.9676	.00037	28.786	13.565	.34272
%RSD	113.23	43.249	366.61	-97.847	-147.06	238.62	122.09
#1	2.0717	1.2551	.16190	-.00078	-18.150	5.4803	.60177
#2	-.20185	.50237	-1.7809	-.00006	-49.046	-7.7768	.32053
#3	1.1620	1.2531	4.0475	-.00029	8.4726	19.350	-.08019

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-.67463	161.22	9.1962	1.8421	42.371	1.1131	.56547
SDev	3.00366	711.69	45.165	2.2710	26.002	2.4098	1.5262
%RSD	-445.23	441.45	491.12	123.28	61.367	216.49	269.91
#1	-3.9497	372.81	-29.428	2.9171	27.554	2.9347	1.3574
#2	-.02580	-632.27	58.856	3.3760	27.164	-1.6194	-1.1940
#3	1.9516	743.11	-1.8392	-.76678	72.394	2.0241	1.5330

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	5.6884	5.5332
SDev	6.6729	.9262
%RSD	117.31	16.739
#1	6.2193	6.4704
#2	-1.2341	5.5106
#3	12.080	4.6185

Method: CLP61E Sample Name: ICSA Operator:
Run Time: 05/07/92 11:46:00
Comment: ICSA
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	495170.	-5.0256	-29.744	5.1945	.08373	1.6395	481900.
SDev	1344.	25.4807	21.689	.2997	.02211	2.2917	2198.
%RSD	.27145	-507.01	-72.919	5.7694	26.406	139.78	.45616
#1	495260.	20.516	-13.254	4.8710	.05822	.72635	480320.
#2	493780.	-30.445	-21.666	5.2499	.09746	-.05490	480970.
#3	496470.	-5.1480	-54.314	5.4627	.09550	4.2470	484410.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-2.3259	-1.3573	1.9681	170230.	87.356	502630.	14.324
SDev	.6881	1.5829	1.2701	629.	23.818	2094.	.213
%RSD	-29.585	-116.61	64.530	.36960	27.265	.41658	1.4905
#1	-2.8611	-2.5936	.52330	169950.	60.769	501390.	14.197
#2	-2.5668	.42662	2.4730	169790.	106.74	501450.	14.204
#3	-1.5497	-1.9050	2.9081	170950.	94.555	505050.	14.571

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-4.6153	-42.823	1.0504	-3.8402	116.84	-3.0698	-1.7597
SDev	.8717	820.175	19.082	2.9609	6.56	2.0154	.6654
%RSD	-18.888	-1915.3	1816.6	-77.102	5.6138	-65.653	-37.815
#1	-5.1946	-874.10	-3.7939	-7.2176	111.77	-5.3438	-2.5198
#2	-3.6128	-20.152	-15.143	-1.6912	114.50	-2.3614	-1.2822
#3	-5.0386	765.78	22.088	-2.6119	124.25	-1.5042	-1.4771

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-28.480	408.64
SDev	32.014	3.59
%RSD	-112.41	.87896
#1	-23.666	405.90
#2	-62.628	407.31
#3	.85439	412.70

Method: CLP61E Sample Name: ICSAB Operator:
Run Time: 05/07/92 11:50:55
Comment: ICSAB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	487750.	9.9575	-17.886	459.74	441.38	955.08	473960.
SDev	4432.	14.699	66.031	4.55	3.47	8.48	2972.
%RSD	.90857	147.62	-369.18	.98868	.78712	.88736	.62711
#1	484930.	-.72754	-83.081	456.59	439.47	945.47	472800.
#2	485460.	3.8795	-19.528	457.67	439.29	958.32	471730.
#3	492860.	26.721	48.951	464.95	445.39	961.46	477330.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	431.30	417.17	469.14	167960.	969.26	495300.	450.33
SDev	3.64	3.58	4.74	1159.	18.17	3619.	3.80
%RSD	.84429	.85721	1.0108	.69013	1.8751	.73058	.84308
#1	429.04	421.23	465.93	167400.	966.92	493730.	449.06
#2	429.36	414.47	466.91	167200.	988.49	492730.	447.34
#3	435.50	415.82	474.59	169300.	952.37	499440.	454.60

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	845.66	-120.91	30.307	929.54	97.868	441.10	917.57
SDev	18.31	99.78	54.271	7.03	9.789	3.90	7.34
%RSD	2.1652	-82.522	179.07	.75672	10.003	.88380	.80013
#1	846.96	-141.06	15.090	923.40	95.399	438.42	914.72
#2	826.73	-209.08	-14.732	928.01	108.66	439.30	912.08
#3	863.28	-12.595	90.562	937.22	89.550	445.57	925.91

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-34.279	408.75
SDev	23.785	1.05
%RSD	-69.386	.25603
#1	-57.230	407.61
#2	-35.865	408.97
#3	-9.7405	409.67

Method: CLP61E Sample Name: CRI Operator:
Run Time: 05/07/92 11:55:50
Comment: CRI
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	15.037	Q91.036	Q63.885	.10784	9.5192	8.3090	14.884
SDev	12.440	10.449	13.677	.50936	.0921	1.4535	6.404
%RSD	82.731	11.478	21.408	472.35	.96787	17.493	43.025
#1	28.259	Q80.236	Q66.695	.50370	9.4441	9.8824	8.3685
#2	3.5642	Q91.779	Q49.022	.28661	9.6220	Q7.0162	21.170
#3	13.287	101.09	Q75.939	-.46681	9.4915	8.0285	15.114

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	20.042	100.08	50.189	-.01643	Q71.098	1.8353	30.542
SDev	1.751	1.57	.971	.00045	20.386	6.9495	.080
%RSD	8.7349	1.5650	1.9355	-2.7368	28.674	378.65	.26317
#1	19.032	101.34	50.189	-.01615	92.669	2.2560	30.542
#2	22.064	100.58	51.160	-.01695	Q52.150	8.5649	30.461
#3	19.032	98.329	49.217	-.01618	Q68.474	-5.3149	30.622

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	80.093	45.342	244.62	22.593	40.031	98.686	39.768
SDev	3.355	179.05	31.27	1.479	4.744	1.778	.483
%RSD	4.1893	394.87	12.782	6.5485	11.850	1.8021	1.2150
#1	77.405	-50.380	244.62	23.206	42.370	97.979	40.061
#2	83.853	251.90	Q275.89	20.905	34.572	100.71	40.033
#3	79.020	-65.494	213.35	23.667	43.150	97.371	39.211

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	97.377	9.1956
SDev	15.009	2.5097
%RSD	15.414	27.292
#1	Q108.56	11.076
#2	103.25	10.166
#3	80.320	6.3456

Method: CLP61E Sample Name: CCV Operator:
Run Time: 05/07/92 12:00:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5086.6	5177.3	4992.3	4895.5	4870.3	4988.0	50583.
SDev	7.3	9.4	38.8	4.3	7.9	19.7	196.
%RSD	.14409	.18158	.77694	.08877	.16127	.39566	.38825
#1	5088.1	5182.9	4974.1	4897.7	4861.2	4972.5	50395.
#2	5078.7	5166.4	4965.9	4898.3	4874.4	4981.2	50568.
#3	5093.1	5182.4	5036.8	4890.5	4875.2	5010.2	50786.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4893.5	4811.1	4871.8	4836.1	4866.6	49794.	4863.5
SDev	15.1	17.9	7.3	11.9	26.6	190.	12.1
%RSD	.30858	.37218	.14999	.24509	.54610	.38178	.24841
#1	4877.1	4791.8	4867.1	4829.3	4837.5	49593.	4851.0
#2	4896.6	4814.3	4880.2	4829.3	4872.7	49819.	4864.3
#3	4906.8	4827.1	4868.1	4849.8	4889.6	49971.	4875.1

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4868.0	50199.	4990.8	492.06	50671.	4924.7	4992.2
SDev	8.8	51.	17.1	1.33	27.	10.5	12.9
%RSD	.18084	.10247	.34197	.26993	.05314	.21317	.25803
#1	4858.9	50181.	4995.7	492.82	50645.	4912.8	4978.1
#2	4876.5	50159.	5004.9	490.52	50699.	4928.9	4994.9
#3	4868.7	50257.	4971.8	492.83	50670.	4932.5	5003.5

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4686.8	4937.8
SDev	15.2	16.8
%RSD	.32364	.34027
#1	4679.9	4918.8
#2	4704.2	4943.8
#3	4676.4	4950.7

Method: CLP61E Sample Name: CCB Operator:
Run Time: 05/07/92 12:05:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	8.5519	.01388	-6.6808	-.00568	.03254	.94837	6.6566
SDev	17.783	10.939	18.3950	.24913	.05384	.07491	7.0721
%RSD	207.95	78793.	-275.34	-4389.8	165.49	7.8991	106.24
#1	22.249	8.5032	-.66870	.26959	.09438	1.0293	13.837
#2	-11.546	-12.331	-27.330	-.21567	.00716	.88138	-.30188
#3	14.953	3.8698	7.9559	-.07095	-.00393	.93448	6.4348

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-.90986	1.2553	-.64760	.00018	-22.411	-19.138	.18705
SDev	1.35869	1.3027	1.40208	.00040	42.464	24.693	.10129
%RSD	-149.33	103.77	-216.51	224.66	-189.48	-129.03	54.151
#1	-.05056	2.7595	.16190	-.00009	-18.807	-2.7292	.28072
#2	-2.4763	.50508	-2.2666	.00064	Q-66.562	-47.537	.07956
#3	-.20274	.50137	.16190	-.00002	18.136	-7.1480	.20087

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-1.9585	-168.77	23.297	.30667	8.0582	-.80925	.07955
SDev	5.2564	848.02	6.459	3.0662	24.127	2.43548	1.7851
%RSD	-268.39	-502.46	27.725	999.87	299.41	-300.96	2244.0
#1	.69379	199.00	23.910	2.9157	28.724	-1.0118	1.9664
#2	-8.0126	-1138.6	16.553	-3.0707	-18.456	-3.1371	-1.5826
#3	1.4434	433.27	29.428	1.0750	13.907	1.7212	-.14509

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	12.267	7.3924
SDev	11.188	.9411
%RSD	91.208	12.731
#1	3.5462	8.2337
#2	8.3721	6.3760
#3	24.882	7.5675

Method: CLP61E Sample Name: PBS U 492218 #13 Operator:
Run Time: 05/07/92 12:10:34
Comment: SDG:MERA13 1:1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	74.426	11.580	-14.121	.83856	.06115	1.7633	31.502
SDev	3.660	3.522	19.822	.13053	.02821	2.3833	2.678
%RSD	4.9183	30.415	-140.37	15.566	46.138	135.16	8.5025
#1	70.543	10.780	-17.164	.98896	.04350	-.10138	33.372
#2	77.813	8.5268	7.0466	.75485	.04626	4.4485	28.433
#3	74.923	15.433	-32.246	.77187	.09369	.94286	32.700

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	.80828	2.2566	1.1333	-.00038	-5.1689	12.629	.44140
SDev	1.5784	.4348	1.2850	.00042	26.0357	10.752	.04037
%RSD	195.28	19.268	113.39	-112.33	-503.70	85.135	9.1454
#1	2.0719	2.7587	2.1047	-.00071	-17.063	25.039	.40112
#2	-.96103	2.0056	-.32380	.00010	-23.133	6.7393	.44122
#3	1.3140	2.0056	1.6190	-.00053	24.690	6.1091	.48185

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	1.5264	186.41	20.845	3.6834	348.97	.10221	4.0037
SDev	1.3798	38.78	75.035	.5320	15.23	.92741	.2422
%RSD	90.391	20.804	359.97	14.442	4.3652	907.38	6.0504
#1	.00008	176.33	90.123	4.2977	363.66	1.1138	3.8684
#2	2.6851	229.23	31.267	3.3765	350.01	-.09940	4.2834
#3	1.8941	153.66	-58.856	3.3761	333.25	-.70781	3.8593

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	6.3891	4.9305
SDev	5.3952	2.0173
%RSD	84.444	40.914
#1	12.612	7.1953
#2	3.0181	4.2694
#3	3.5375	3.3267

Method: CLP61E Sample Name: LCSS U 491234 #14 Operator:
Run Time: 05/07/92 12:15:28
Comment: SDG:MERA13 1:1 =LCS287
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	I1496.9	I1065.9	I4659.7	25.923	I88.448	I216.75	S1790500.
SDev	10.8	22.8	44.7	.255	.227	5.01	10.
%RSD	.72167	2.1371	.95860	.98212	.25636	2.3108	.00057
#1	I1509.3	I1079.1	I4664.0	25.971	I88.478	I219.18	S1790500.
#2	I1489.5	I1079.0	I4613.1	25.648	I88.207	I210.98	S1790500.
#3	I1491.9	I1039.6	I4702.1	26.150	I88.658	I220.07	S1790500.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	I434.71	I653.83	I32667.	I96881.	I1002.0	I558880.	I958.48
SDev	.89	1.16	199.	270.	28.4	1604.	2.42
%RSD	.20448	.17779	.60766	.27879	2.8334	.28709	.25216
#1	I433.70	I652.83	I32761.	I96862.	I985.68	I558660.	I958.93
#2	I435.37	I655.10	I32439.	I96621.	I985.53	I557400.	I955.87
#3	I435.07	I653.56	I32802.	I97160.	I1034.8	I560590.	I960.64

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	I268.06	57.937	I213.44	I102.78	583.44	I303.97	I847.40
SDev	5.65	391.39	30.39	1.16	5.87	2.18	2.93
%RSD	2.1087	675.54	14.238	1.1332	1.0054	.71705	.34627
#1	I270.93	L-193.96	I233.02	I102.62	577.33	I304.17	I848.93
#2	I261.55	508.84	I228.87	I104.01	583.96	I301.70	I844.01
#3	I271.70	L-141.06	I178.43	I101.70	589.03	I306.04	I849.25

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	I112.81	I396.56
SDev	16.35	1.91
%RSD	14.495	.48106
#1	I117.97	I398.51
#2	I94.499	I396.49
#3	I125.95	I394.69

Method: CLP61E Sample Name: LCSS U 491234 #15 Operator:
Run Time: 05/07/92 12:20:24
Comment: SDG:MERA13 1:5 =LCS287
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	375.26	240.04	996.51	6.1877	19.690	47.756	192890.
SDev	6.13	6.93	36.51	.2513	.079	1.834	135.
%RSD	1.6348	2.8865	3.6633	4.0618	.40192	3.8393	.06987
#1	371.72	233.12	1037.5	5.9309	19.598	45.840	192810.
#2	382.35	246.98	984.61	6.4332	19.735	49.494	192810.
#3	371.72	240.02	967.43	6.1991	19.736	47.935	193040.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	101.29	149.11	6786.2	22080.	227.04	117080.	215.94
SDev	1.80	3.79	13.9	19.	.94	117.	.28
%RSD	1.7726	2.5400	.20461	.08804	.41320	.10023	.13187
#1	99.217	145.09	6774.2	22071.	226.85	116960.	215.94
#2	102.25	152.62	6782.9	22066.	226.22	117100.	215.66
#3	102.40	149.61	6801.4	22102.	228.07	117190.	216.23

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	60.314	-30.228	36.732	21.405	441.25	66.564	184.00
SDev	2.831	315.803	33.206	.531	7.59	.303	.68
%RSD	4.6932	-1044.7	90.402	2.4816	1.7203	.45470	.37054
#1	57.677	100.76	4.8345	21.098	443.98	66.259	183.55
#2	59.959	199.00	34.252	21.098	432.67	66.865	184.79
#3	63.305	-390.45	71.108	22.018	447.10	66.567	183.67

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	10.049	114.93
SDev	11.060	2.27
%RSD	110.06	1.9724
#1	12.026	113.13
#2	19.987	117.48
#3	-1.8657	114.18

Method: CLP61E Sample Name: XXX U 491231 #16 Operator:
Run Time: 05/07/92 12:25:19
Comment: SDG:MERA13 1:1 MERA14
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	25302.	2.0999	48.629	266.34	3.3724	2.1728	77151.
SDev	246.	12.805	36.480	4.10	.0513	.3695	407.
%RSD	.97145	609.78	75.016	1.5378	1.5201	17.003	.52761
#1	25546.	2.8689	20.092	270.78	3.3132	1.7575	76708.
#2	25054.	14.503	89.730	262.70	3.4001	2.2958	77234.
#3	25306.	-11.072	36.064	265.53	3.4039	2.4651	77509.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	55.664	80.223	70.935	129420.	78.891	10574.	5132.6
SDev	1.442	.031	1.140	434.	26.698	20.	15.6
%RSD	2.5899	.03805	1.6076	.33533	33.841	.18652	.30446
#1	54.002	80.211	70.280	129600.	99.894	10565.	5135.4
#2	56.573	80.258	72.252	128930.	87.933	10559.	5115.8
#3	56.418	80.201	70.274	129740.	48.847	10596.	5146.7

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	144.50	3060.6	59.868	-1.4730	664.93	62.124	338.34
SDev	7.83	545.9	3.907	2.5662	6.24	1.190	1.78
%RSD	5.4182	17.835	6.5263	-174.21	.93884	1.9162	.52558
#1	140.53	2541.7	56.540	-1.9342	664.67	61.148	338.01
#2	139.45	3629.9	58.894	1.2924	671.30	63.450	336.76
#3	153.52	3010.2	64.170	-3.7774	658.82	61.774	340.27

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-32.623	55.761
SDev	10.969	2.135
%RSD	-33.623	3.8287
#1	-25.520	53.337
#2	-27.092	57.359
#3	-45.256	56.588

Method: CLP61E Sample Name: DUP U 491233 #17 Operator:
Run Time: 05/07/92 12:30:14
Comment: SDG:MERA13 1:1 MERA14D
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	23565.	12.289	66.993	212.60	3.5336	1.0855	80240.
SDev	214.	13.285	24.369	2.03	.0248	1.7175	490.
%RSD	.90678	108.11	36.376	.95294	.70265	158.22	.61013
#1	23743.	-2.4661	47.125	214.43	3.5483	.13290	80408.
#2	23625.	16.029	94.184	212.96	3.5476	.05545	80623.
#3	23328.	23.302	59.669	210.42	3.5050	3.0682	79689.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	59.922	72.008	62.411	116990.	64.274	9792.6	4566.2
SDev	2.666	1.332	1.142	872.	11.881	81.7	32.4
%RSD	4.4494	1.8504	1.8300	.74539	18.484	.83464	.70987
#1	59.111	70.470	61.093	117520.	67.065	9830.7	4583.7
#2	62.900	72.729	63.038	117470.	74.510	9848.4	4586.1
#3	57.756	72.824	63.102	115980.	51.246	9698.8	4528.8

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	138.55	3005.2	58.692	-.16621	669.48	58.714	286.33
SDev	5.75	422.4	20.684	.70671	21.70	.782	1.70
%RSD	4.1490	14.056	35.242	-425.19	3.2408	1.3316	.59367
#1	132.02	2519.0	82.418	-.01503	676.37	59.012	287.34
#2	140.83	3282.3	49.210	-.93628	645.17	59.303	287.29
#3	142.81	3214.3	44.449	.45268	686.90	57.827	284.37

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-21.523	49.384
SDev	14.767	2.373
%RSD	-68.613	4.8045
#1	-35.405	47.770
#2	-23.157	48.273
#3	-6.0063	52.108

Method: CLP61E Sample Name: SPK U 491232 #18 Operator:
Run Time: 05/07/92 12:35:09
Comment: SDG:MERA13 1:1 MERA14S
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	24580.	214.32	1895.5	2082.8	48.725	48.854	73793.
SDev	151.	8.11	33.0	9.8	.237	1.355	516.
%RSD	.61279	3.7858	1.7417	.46960	.48726	2.7739	.69931
#1	24436.	219.16	1860.1	2076.0	48.456	50.411	73203.
#2	24568.	218.84	1925.4	2078.4	48.813	47.940	74017.
#3	24737.	204.95	1901.0	2094.0	48.905	48.210	74160.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	240.05	519.34	299.10	128300.	489.42	9505.7	4879.3
SDev	5.17	2.26	1.25	740.	3.73	68.2	31.8
%RSD	2.1549	.43428	.41887	.57650	.76298	.71794	.65230
#1	234.39	516.89	297.68	127470.	487.96	9431.0	4843.3
#2	244.54	521.33	299.57	128540.	486.64	9521.5	4890.6
#3	241.20	519.79	300.05	128890.	493.66	9564.7	4903.8

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	598.76	2866.6	1945.3	35.406	659.34	516.64	767.46
SDev	7.59	207.1	31.6	1.477	18.52	2.76	6.10
%RSD	1.2680	7.2244	1.6256	4.1703	2.8090	.53326	.79489
#1	590.00	2942.2	1910.0	33.722	640.89	513.46	760.49
#2	602.84	3025.3	1970.9	36.019	659.21	518.20	771.80
#3	603.43	2632.4	1955.1	36.477	677.93	518.27	770.10

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	1729.2	76.453
SDev	38.4	.700
%RSD	2.2210	.91505
#1	1728.2	75.997
#2	1691.3	77.258
#3	1768.1	76.102

Method: CLP61E Sample Name: XXX U 491230 #19 Operator:
Run Time: 05/07/92 12:40:04
Comment: SDG:MERA13 1:1 MERA13
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	20995.	1.6554	47.161	247.18	2.1387	.08448	40452.
SDev	98.	5.2797	18.649	1.31	.0291	.45747	164.
%RSD	.46590	318.95	39.545	.53041	1.3614	541.51	.40619
#1	20942.	-1.3889	55.124	247.18	2.1592	-.44288	40274.
#2	21108.	7.7519	25.851	248.49	2.1054	.32184	40597.
#3	20935.	-1.3968	60.506	245.87	2.1515	.37448	40484.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	40.569	32.666	43.673	64041.	51.122	5371.7	4472.5
SDev	2.208	1.557	1.397	218.	14.244	27.6	17.4
%RSD	5.4420	4.7651	3.1994	.34029	27.862	.51421	.38869
#1	39.005	33.177	42.059	63913.	39.270	5347.4	4459.2
#2	43.094	33.903	44.471	64293.	66.924	5401.8	4492.2
#3	39.608	30.918	44.488	63918.	47.172	5365.9	4466.1

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	58.285	2934.7	27.390	-1.8456	643.75	44.604	186.78
SDev	1.299	664.5	14.816	1.5941	6.41	1.948	1.09
%RSD	2.2279	22.642	54.093	-86.371	.99587	4.3684	.58363
#1	56.865	2186.5	13.650	-3.6862	641.28	42.354	186.16
#2	58.576	3161.4	25.433	-.92712	638.94	45.762	188.04
#3	59.413	3456.1	43.088	-.92339	651.02	45.695	186.15

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-40.209	35.491
SDev	15.600	1.518
%RSD	-38.798	4.2757
#1	L-57.435	35.622
#2	-36.158	36.939
#3	-27.034	33.913

Method: CLP61E Sample Name: CCV Operator:
Run Time: 05/07/92 12:44:59
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5093.5	5128.8	4961.3	4866.0	4856.4	4963.5	50505.
SDev	6.9	14.8	15.5	20.6	10.0	8.9	64.
%RSD	.13614	.28804	.31154	.42238	.20513	.17979	.12656
#1	5086.1	5122.8	4945.9	4842.4	4844.9	4957.6	50432.
#2	5094.5	5118.0	4961.2	4875.7	4862.0	4959.0	50544.
#3	5099.8	5145.6	4976.8	4879.8	4862.2	4973.7	50540.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4878.6	4799.2	4837.5	4846.4	4860.6	49657.	4829.7
SDev	8.2	5.1	17.2	20.7	22.9	113.	9.7
%RSD	.16785	.10670	.35482	.42813	.47210	.22762	.20150
#1	4870.6	4793.7	4818.1	4824.1	4856.8	49526.	4818.6
#2	4878.3	4803.8	4843.8	4849.8	4885.3	49718.	4833.7
#3	4887.0	4800.1	4850.6	4865.2	4839.9	49725.	4836.8

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4850.6	49746.	4972.5	487.61	50378.	4903.4	4968.5
SDev	1.8	498.	31.7	.96	167.	8.7	9.7
%RSD	.03742	1.0001	.63824	.19662	.33128	.17833	.19531
#1	4849.6	50212.	4966.3	486.84	50185.	4893.3	4957.4
#2	4852.7	49804.	4944.3	487.30	50482.	4909.4	4973.2
#3	4849.6	49222.	5006.8	488.68	50466.	4907.3	4975.0

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4635.8	4922.7
SDev	29.1	23.5
%RSD	.62730	.47652
#1	4658.6	4895.8
#2	4603.0	4939.0
#3	4645.7	4933.3

Method: CLP61E Sample Name: CCB Operator:
Run Time: 05/07/92 12:49:54
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	19.433	5.3333	22.793	2.8817	2.6934	3.3672	51.562
SDev	14.979	11.446	13.459	1.1857	1.1977	1.3750	12.582
%RSD	77.077	214.61	59.049	41.144	44.468	40.834	24.401
#1	2.8018	-7.8168	23.595	4.0793	3.9469	4.6575	65.485
#2	23.638	13.053	8.9512	2.8576	2.5727	3.5231	48.196
#3	31.860	10.764	35.834	1.7083	1.5606	1.9209	41.006

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	3.9407	1.7509	3.5609	20.539	-2.8426	31.032	3.9239
SDev	1.1171	.8707	.8413	.001	25.5753	14.056	1.5031
%RSD	28.347	49.727	23.625	.00401	-899.72	45.296	38.305
#1	4.7991	1.2479	4.0466	20.538	8.4961	47.259	5.5427
#2	4.3454	1.2486	4.0466	20.539	15.103	22.613	3.6566
#3	2.6777	2.7563	2.5895	20.540	-32.127	23.224	2.5725

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	.53830	62.975	14.754	2.6096	62.906	3.2414	3.0895
SDev	1.0237	355.18	16.034	1.6167	6.540	1.8466	.9530
%RSD	190.17	564.00	108.67	61.950	10.396	56.968	30.846
#1	-.16771	418.16	22.111	1.0754	70.444	5.3665	4.0789
#2	1.7123	62.975	-3.6381	2.4558	59.527	2.3303	3.0120
#3	.07026	-292.21	25.790	4.2977	58.747	2.0275	2.1777

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	6.7408	12.697
SDev	6.4626	4.519
%RSD	95.872	35.590
#1	7.8045	17.333
#2	12.605	12.452
#3	-.18762	8.3053

Method: CLP61E Sample Name: XXX U 491238 #22 Operator:
Run Time: 05/07/92 12:54:49
Comment: SDG:MERA13 1:1 MERA15
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	15122.	9.6395	39.782	193.89	1.9208	1.4719	93646.
SDev	62.	15.770	25.721	.30	.0550	.7935	660.
%RSD	.41223	163.60	64.655	.15447	2.8646	53.911	.70467
#1	15050.	4.2672	14.890	193.55	1.9544	2.1822	92888.
#2	15150.	27.394	66.258	194.02	1.9507	1.6180	94095.
#3	15165.	-2.7424	38.198	194.10	1.8573	.61548	93954.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	27.607	24.263	33.757	42682.	10.435	4759.2	1732.2
SDev	.526	1.573	1.280	218.	8.531	31.7	10.3
%RSD	1.9054	6.4835	3.7910	.51063	81.760	.66687	.59439
#1	27.111	24.782	32.796	42433.	16.579	4723.0	1720.5
#2	27.551	22.496	33.265	42833.	14.031	4782.1	1739.8
#3	28.159	25.511	35.210	42782.	.69390	4772.5	1736.4

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	45.362	2378.0	21.507	-.38776	617.36	32.487	161.27
SDev	4.446	357.2	11.912	2.17498	4.97	1.131	.61
%RSD	9.8022	15.022	55.386	-560.91	.80470	3.4809	.37789
#1	40.439	1967.4	8.1404	-2.8422	620.61	31.228	160.66
#2	49.085	2617.3	31.000	.37872	619.83	32.817	161.88
#3	46.562	2549.2	25.381	1.3002	611.64	33.416	161.26

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-30.504	27.620
SDev	6.889	.783
%RSD	-22.584	2.8331
#1	-22.848	28.328
#2	-32.462	27.754
#3	-36.203	26.780

Method: CLP61E Sample Name: XXX U 491240 #23 Operator:
Run Time: 05/07/92 12:59:44
Comment: SDG:MERA13 1:1 MERA16
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	20055.	2.1672	36.867	197.07	2.3865	2.1054	29417.
SDev	119.	20.028	20.834	2.13	.0265	.7979	43.
%RSD	.59236	924.15	56.512	1.0806	1.1111	37.899	.14475
#1	20128.	-1.7149	30.933	198.71	2.3724	1.5850	29415.
#2	20119.	-15.636	19.644	197.84	2.4171	3.0240	29460.
#3	19918.	23.852	60.025	194.66	2.3699	1.7071	29375.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	65.832	42.093	43.489	94256.	18.087	6640.7	3286.0
SDev	1.204	.421	1.419	400.	19.771	17.3	10.6
%RSD	1.8289	1.0002	3.2640	.42455	109.31	.25995	.32320
#1	64.922	41.830	42.671	94453.	25.849	6652.7	3289.5
#2	65.377	42.579	42.668	94519.	-4.3878	6648.5	3294.4
#3	67.197	41.871	45.128	93795.	32.798	6620.9	3274.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	71.800	3448.5	31.093	-.14132	594.88	50.339	208.80
SDev	5.314	564.9	33.967	2.17718	22.08	.549	.53
%RSD	7.4005	16.380	109.24	-1540.6	3.7119	1.0912	.25440
#1	68.453	2912.0	-7.1438	.62541	589.81	49.768	208.32
#2	69.020	3395.6	42.647	-2.5981	575.77	50.387	209.37
#3	77.927	4038.0	57.775	1.5488	619.05	50.863	208.71

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-17.899	40.379
SDev	8.876	1.487
%RSD	-49.591	3.6834
#1	-19.148	38.666
#2	-26.084	41.123
#3	-8.4639	41.347

Method: CLP61E Sample Name: XXX U 491241 #24 Operator:
Run Time: 05/07/92 13:04:39
Comment: SDG:MERA13 1:1 MERA17
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	19142.	9.7892	28.872	179.05	1.7601	2.0395	215570.
SDev	138.	21.269	2.960	1.26	.0534	3.4856	1773.
%RSD	.72092	217.27	10.251	.70276	3.0359	170.90	.82248
#1	19208.	-8.6950	32.287	180.05	1.7949	.68650	214520.
#2	18984.	33.035	27.280	177.64	1.7867	5.9987	214560.
#3	19235.	5.0270	27.049	179.47	1.6986	-.56668	217610.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	663.38	26.953	33.017	48509.	43.142	27163.	3364.4
SDev	3.62	.886	1.760	330.	20.919	199.	23.1
%RSD	.54579	3.2890	5.3310	.68084	48.490	.73239	.68544
#1	660.52	26.455	31.562	48471.	19.017	27093.	3359.0
#2	662.18	27.977	34.973	48199.	56.262	27007.	3344.5
#3	667.45	26.428	32.516	48856.	54.147	27387.	3389.7

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	54.637	2599.6	20.717	.13999	765.79	42.402	298.21
SDev	1.314	749.8	41.513	3.7723	26.34	1.797	2.19
%RSD	2.4047	28.843	200.38	2694.6	3.4399	4.2374	.73364
#1	53.181	2027.8	7.1552	-.78071	736.80	40.576	296.46
#2	55.733	3448.5	67.315	4.2874	772.29	44.168	297.51
#3	54.999	2322.5	-12.318	-3.0867	788.27	42.462	300.67

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-30.787	43.545
SDev	24.685	1.141
%RSD	-80.179	2.6209
#1	-7.6583	43.027
#2	-27.925	44.854
#3	L-56.779	42.755

Method: CLP61E Sample Name: XXX U 491242 #25 Operator:
Run Time: 05/07/92 13:09:34
Comment: SDG:MERA13 1:1 MERA18
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	18795.	4.0015	51.420	166.91	2.4725	.48786	64333.
SDev	32.	20.719	10.357	1.08	.0276	2.3868	326.
%RSD	.16898	517.78	20.143	.64480	1.1150	489.22	.50721
#1	18829.	-9.0375	49.192	167.86	2.4578	1.8285	63961.
#2	18788.	27.893	62.710	167.13	2.5044	-2.2678	64464.
#3	18767.	-6.8506	42.358	165.74	2.4555	1.9029	64572.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	90.761	42.596	35.547	94449.	50.637	7627.7	2863.0
SDev	2.318	1.495	1.131	216.	19.139	26.0	6.2
%RSD	2.5535	3.5109	3.1818	.22890	37.796	.34091	.21583
#1	88.137	41.105	36.853	94201.	31.198	7600.8	2856.2
#2	92.529	44.096	34.895	94550.	51.251	7652.7	2864.6
#3	91.617	42.587	34.893	94597.	69.461	7629.5	2868.2

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	77.921	2826.3	25.956	-1.1551	624.64	52.971	222.91
SDev	3.422	279.7	31.060	1.8411	7.08	.647	.80
%RSD	4.3915	9.8979	119.66	-159.39	1.1328	1.2211	.36055
#1	80.845	2836.4	54.895	-2.9960	617.10	52.727	223.47
#2	74.158	2541.7	29.834	.68623	631.14	52.482	223.28
#3	78.760	3100.9	-6.8604	-1.1556	625.68	53.704	221.99

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-12.919	43.018
SDev	13.898	3.105
%RSD	-107.57	7.2187
#1	.61494	46.583
#2	-12.219	40.905
#3	-27.154	41.565

Method: CLP61E Sample Name: XXX U 491246 #26 Operator:
Run Time: 05/07/92 13:14:29
Comment: SDG:MERA13 1:1 MERA19
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	17821.	-3.6730	50.787	164.45	2.3970	.78530	33487.
SDev	100.	13.5214	9.216	1.17	.0269	.45289	82.
%RSD	.56275	-368.13	18.147	.71223	1.1209	57.671	.24594
#1	17751.	-9.0160	55.097	164.14	2.3815	.44739	33396.
#2	17776.	-13.706	57.058	163.46	2.3815	1.2999	33509.
#3	17936.	11.703	40.205	165.74	2.4280	.60861	33557.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	58.805	42.856	38.498	82479.	12.456	6279.4	2686.1
SDev	1.493	.417	1.414	272.	34.345	22.8	10.2
%RSD	2.5381	.97360	3.6726	.32924	275.74	.36323	.37841
#1	57.138	42.617	39.315	82292.	38.583	6253.1	2679.6
#2	59.260	42.613	39.313	82354.	25.230	6293.0	2680.8
#3	60.018	43.338	36.865	82791.	-26.446	6292.2	2697.8

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	74.039	2841.5	21.392	.24902	566.67	45.722	213.86
SDev	2.451	306.1	35.053	.92209	24.98	.127	1.70
%RSD	3.3109	10.772	163.86	370.29	4.4081	.27811	.79360
#1	76.289	2511.5	2.0192	.24996	538.34	45.791	213.71
#2	74.403	3116.0	.30130	1.1706	585.52	45.801	212.24
#3	71.427	2896.9	61.856	-.67355	576.16	45.576	215.63

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-19.599	39.354
SDev	3.626	1.401
%RSD	-18.503	3.5601
#1	-23.685	40.924
#2	-18.350	38.910
#3	-16.762	38.229

Method: CLP61E Sample Name: XXX P 491231 #27 Operator:
Run Time: 05/07/92 13:19:24
Comment: SDG:MERA13 1:1 MERA14A
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	25010.	109.69	64.384	263.04	11.032	9.1219	76273.
SDev	200.	24.31	26.271	3.00	.113	.4498	382.
%RSD	.80008	22.159	40.804	1.1395	1.0230	4.9307	.50057
#1	24852.	121.40	35.393	260.91	10.912	9.4436	75858.
#2	24942.	125.93	71.146	261.73	11.048	8.6079	76350.
#3	25235.	81.745	86.613	266.46	11.136	9.3142	76610.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	70.516	152.84	111.17	127420.	80.660	10456.	5071.1
SDev	1.291	4.25	.03	748.	41.689	63.	30.9
%RSD	1.8303	2.7813	.02935	.58725	51.685	.60179	.61030
#1	69.309	148.12	111.20	126730.	82.663	10405.	5041.6
#2	70.364	156.36	111.18	127310.	121.31	10438.	5068.4
#3	71.876	154.04	111.14	128220.	38.006	10526.	5103.4

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	206.91	3403.2	68.189	15.140	697.55	141.73	366.14
SDev	2.59	144.2	40.092	1.661	7.92	1.36	2.30
%RSD	1.2503	4.2366	58.795	10.974	1.1350	.95988	.62717
#1	205.82	3418.3	84.004	14.683	688.46	140.50	364.62
#2	205.05	3539.2	22.602	16.982	702.88	141.51	365.03
#3	209.86	3252.1	97.962	13.755	701.32	143.19	368.79

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-20.832	55.094
SDev	4.438	.777
%RSD	-21.304	1.4101
#1	-23.614	54.264
#2	-23.169	55.214
#3	-15.714	55.804

Method: CLP61E Sample Name: XXX S 491231 #28 Operator:
Run Time: 05/07/92 13:24:19
Comment: SDG:MERA13 1:5 MERA14L
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5340.7	2.0008	6.8400	55.295	.75194	1.6923	16405.
SDev	50.2	8.3565	5.7767	.340	.00173	.5692	96.
%RSD	.93991	417.66	84.454	.61411	.23044	33.634	.58428
#1	5296.9	-7.2786	.34535	55.031	.75015	2.3494	16394.
#2	5329.8	4.3492	8.7705	55.176	.75360	1.3785	16316.
#3	5395.5	8.9318	11.404	55.678	.75208	1.3492	16507.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	10.301	18.026	14.974	27883.	5.3393	2249.0	1089.5
SDev	1.359	.447	.833	197.	24.845	17.4	7.4
%RSD	13.194	2.4784	5.5606	.70717	465.32	.77217	.67637
#1	11.868	18.283	14.494	27766.	16.905	2234.6	1085.7
#2	9.4430	18.284	14.493	27771.	22.293	2244.1	1084.7
#3	9.5921	17.510	15.936	28110.	-23.180	2268.3	1098.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	29.200	833.80	15.664	1.0782	463.74	13.446	72.574
SDev	1.197	304.82	51.898	1.3302	14.01	.760	.553
%RSD	4.0982	36.558	331.33	123.38	3.0203	5.6500	.76220
#1	30.580	879.14	-13.380	1.8464	479.85	14.234	72.996
#2	28.449	1113.4	-15.210	1.8460	456.85	12.718	71.948
#3	28.571	508.84	75.581	-.45786	454.51	13.386	72.779

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-8.2855	18.873
SDev	7.2798	1.740
%RSD	-87.863	9.2180
#1	-4.9078	17.607
#2	-16.641	20.857
#3	-3.3080	18.156

Method: CLP61E Sample Name: PBS U 491941 #29 Operator:
Run Time: 05/07/92 13:29:15
Comment: SDG:SD0251 1:1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	68.147	-10.807	-1.3326	.50228	.03114	.30696	39.664
SDev	14.571	11.433	8.1553	.13503	.05186	.99944	4.381
%RSD	21.381	-105.79	-611.98	26.884	166.55	325.60	11.045
#1	81.662	-5.3659	8.0759	.35898	-.00187	-.81812	43.928
#2	52.711	-23.945	-5.6914	.62714	.00437	.64693	39.889
#3	70.069	-3.1113	-6.3823	.52073	.09091	1.0921	35.175

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-.30379	.75024	-.00142	32.523	1.9129	5.1349	1.4517
SDev	1.67051	.43465	1.70564	10.690	19.180	11.658	.4491
%RSD	-549.90	57.934	-120290.	32.870	1002.7	227.04	30.938
#1	-2.0227	1.2521	1.6172	41.082	22.271	4.9492	1.9354
#2	-.20229	.49921	-1.7825	35.947	-15.818	-6.4294	1.3720
#3	1.3137	.49939	.16100	20.541	-.71464	16.885	1.0478

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	.53484	27.709	11.713	.92061	337.53	-.19543	5.7685
SDev	.97488	405.01	32.898	1.4799	12.01	1.49804	.7323
%RSD	182.27	1461.7	280.87	160.76	3.5567	-766.53	12.695
#1	1.5259	418.16	-16.472	1.9953	327.40	.81932	5.3394
#2	-.42301	-390.45	3.7493	1.5339	334.41	-1.9160	5.3521
#3	.50164	55.419	47.861	-.76739	350.79	.51038	6.6140

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-3.3840	4.4589
SDev	16.7833	2.6720
%RSD	-495.96	59.925
#1	10.475	2.2360
#2	-22.045	3.7174
#3	1.4180	7.4234

Method: CLP61E Sample Name: LCSS U 491720 #30 Operator:
Run Time: 05/07/92 13:34:10
Comment: SDG:SD0251 1:1 =LCS287
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	I1737.1	I1172.5	I5040.4	26.964	I92.946	I230.88	S1790300.
SDev	9.8	18.5	10.8	.075	.349	2.93	26.
%RSD	.56267	1.5785	.21525	.27809	.37527	1.2682	.00142
#1	I1740.9	I1172.6	I5033.5	27.048	I92.623	I233.00	S1790300.
#2	I1744.3	I1191.0	I5034.8	26.942	I93.316	I232.10	S1790200.
#3	I1725.9	I1154.0	I5052.9	26.903	I92.900	I227.54	S1790200.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	I457.81	I703.99	I33658.	I105070.	I1080.3	I591580.	I996.43
SDev	1.31	4.54	115.	350.	19.9	2016.	4.11
%RSD	.28695	.64436	.34062	.33351	1.8394	.34086	.41222
#1	I457.05	I702.37	I33583.	I104780.	I1092.3	I589860.	I992.80
#2	I457.05	I709.11	I33790.	I105460.	I1057.3	I593800.	I1000.9
#3	I459.33	I700.48	I33602.	I104980.	I1091.1	I591100.	I995.61

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	I286.67	193.96	I209.34	I108.73	523.91	I323.21	I923.62
SDev	10.21	467.21	7.42	.96	11.74	.55	4.27
%RSD	3.5629	240.88	3.5449	.88574	2.2414	.16958	.46191
#1	I282.33	720.44	I200.79	I109.50	534.05	I323.76	I918.97
#2	I279.34	L-171.29	I213.17	I107.65	526.64	I322.67	I927.35
#3	I298.33	32.747	I214.06	I109.04	511.05	I323.19	I924.55

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	I122.96	I418.72
SDev	13.87	2.13
%RSD	11.284	.50896
#1	I138.97	I420.53
#2	I115.47	I419.25
#3	I114.44	I416.37

Method: CLP61E Sample Name: XXX U 491717 #31 Operator:
Run Time: 05/07/92 13:39:05
Comment: SDG:SD0251 1:1 SD0251
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	10135.	-.34301	31.817	92.972	2.3286	.95652	6152.1
SDev	86.	5.79124	14.944	.441	.0246	.90357	95.5
%RSD	.84898	-1688.4	46.968	.47417	1.0545	94.464	1.5529
#1	10049.	-6.4738	48.531	92.954	2.3567	1.3550	6247.3
#2	10136.	.40980	19.745	92.541	2.3112	-.07779	6152.8
#3	10221.	5.0350	27.175	93.422	2.3180	1.5924	6056.3

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	161.46	22.770	42.619	51070.	125.78	1409.4	1226.2
SDev	.87	.776	5.844	372.	3.19	81.3	9.9
%RSD	.54136	3.4070	13.713	.72920	2.5344	5.7693	.80710
#1	161.97	23.547	48.465	50675.	123.48	1499.5	1215.2
#2	161.97	22.767	42.617	51122.	129.42	1387.0	1228.8
#3	160.45	21.995	36.776	51414.	124.44	1341.6	1234.5

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	30.808	876.62	34.957	1.9995	499.87	75.705	221.24
SDev	.892	302.41	5.345	2.5373	9.34	1.791	1.59
%RSD	2.8956	34.497	15.289	126.90	1.8694	2.3656	.71683
#1	31.429	1173.9	29.887	3.2291	494.28	76.849	219.69
#2	29.786	886.69	34.445	3.6877	510.66	76.625	221.17
#3	31.209	569.30	40.540	-.91840	494.67	73.641	222.85

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-4.8480	25.678
SDev	11.4115	.990
%RSD	-235.39	3.8559
#1	2.2741	25.892
#2	1.1920	26.543
#3	-18.010	24.598

Method: CLP61E Sample Name: CCV Operator:
Run Time: 05/07/92 13:44:01
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5162.8	5202.5	5010.0	4916.0	4899.7	5006.1	50674.
SDev	19.1	36.6	30.9	30.9	16.5	19.5	101.
%RSD	.36976	.70259	.61736	.62924	.33763	.39022	.19858
#1	5151.4	5180.2	5043.8	4906.6	4894.1	5003.8	50627.
#2	5152.1	5182.6	4983.0	4890.9	4886.7	4987.9	50606.
#3	5184.8	5244.7	5003.3	4950.6	4918.3	5026.7	50790.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4910.8	4828.2	4887.8	4861.8	4900.4	50003.	4867.7
SDev	15.5	9.3	28.6	7.8	33.1	159.	14.8
%RSD	.31467	.19235	.58487	.16116	.67589	.31805	.30390
#1	4902.4	4821.1	4875.4	4860.1	4908.2	49932.	4860.9
#2	4901.3	4824.9	4867.6	4854.9	4864.0	49893.	4857.5
#3	4928.6	4838.7	4920.5	4870.3	4928.8	50186.	4884.7

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4894.2	50219.	5087.7	492.83	51164.	4947.3	5010.8
SDev	9.0	111.	21.2	1.66	447.	17.3	14.1
%RSD	.18303	.22167	.41703	.33691	.87349	.35039	.28175
#1	4890.5	50196.	5108.0	494.67	51005.	4941.3	5002.5
#2	4887.7	50340.	5065.7	491.45	50819.	4933.7	5002.7
#3	4904.4	50121.	5089.6	492.38	51669.	4966.8	5027.1

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4696.2	4958.7
SDev	21.5	28.0
%RSD	.45752	.56415
#1	4716.5	4941.9
#2	4698.3	4943.3
#3	4673.7	4991.0

Method: CLP61E Sample Name: CCB Operator:
Run Time: 05/07/92 13:48:56
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	19.461	15.419	-2.3219	2.1454	1.7915	3.2216	37.714
SDev	.580	18.109	13.3109	.9020	.7097	1.2337	2.035
%RSD	2.9827	117.45	-573.28	42.046	39.617	38.293	5.3949
#1	19.798	3.8245	-7.1566	3.0917	2.5762	4.5835	39.210
#2	18.791	36.286	12.731	2.0489	1.6039	2.1788	38.535
#3	19.794	6.1461	-12.540	1.2954	1.1944	2.9026	35.397

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	2.2228	2.2531	3.2374	13.693	.77508	20.892	2.2637
SDev	.7584	.8681	1.0109	5.929	8.7376	18.994	.6232
%RSD	34.118	38.531	31.225	43.303	1127.3	90.917	27.529
#1	2.9810	2.7522	4.0466	20.539	-4.2699	34.588	2.8938
#2	1.4642	2.7563	3.5613	10.269	-4.2692	28.878	2.2496
#3	2.2231	1.2506	2.1042	10.269	10.864	-.79172	1.6477

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4.8827	-68.013	35.586	3.5302	44.060	1.7226	1.8735
SDev	3.1709	640.762	12.241	2.1764	4.569	1.3234	.4233
%RSD	64.941	-942.11	34.399	61.651	10.371	76.825	22.592
#1	8.4727	-753.19	29.468	1.0741	45.880	.81242	2.3475
#2	2.4642	516.40	49.680	5.2191	47.439	3.2407	1.5332
#3	3.7113	32.747	27.609	4.2975	38.861	1.1146	1.7398

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-.01563	9.4850
SDev	1.23094	1.0838
%RSD	-7877.3	11.427
#1	-.72907	9.7870
#2	1.4057	8.2822
#3	-.72354	10.386

Method: CLP61E Sample Name: DUP U 491719 #34 Operator:
Run Time: 05/07/92 13:53:51
Comment: SDG:SD0251 1:1 SD0260D
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	12359.	8.9642	34.722	160.98	2.3654	3.7040	20207.
SDev	34.	5.3356	24.460	.49	.0014	1.6731	124.
%RSD	.27785	59.521	70.444	.30686	.05838	45.171	.61196
#1	12323.	5.9334	32.176	160.96	2.3650	4.6072	20077.
#2	12364.	15.125	60.356	160.49	2.3643	4.7315	20221.
#3	12391.	5.8344	11.636	161.48	2.3669	1.7734	20323.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	294.69	29.137	32.082	43964.	73.130	1436.7	2209.3
SDev	1.49	.766	1.014	201.	6.097	7.8	11.1
%RSD	.50465	2.6301	3.1601	.45678	8.3375	.53951	.50423
#1	292.97	29.903	31.766	43773.	72.361	1438.5	2199.5
#2	295.54	29.139	33.216	43947.	79.575	1428.3	2207.2
#3	295.54	28.370	31.263	44173.	67.454	1443.4	2221.4

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	37.874	1148.7	28.936	41.762	547.83	73.032	212.99
SDev	2.729	395.7	20.771	2.393	14.69	.605	1.16
%RSD	7.2066	34.452	71.784	5.7299	2.6824	.82902	.54682
#1	36.591	1309.9	10.779	40.382	534.05	73.202	213.21
#2	36.022	1438.4	51.586	44.525	546.14	73.535	211.73
#3	41.009	697.77	24.442	40.379	563.29	72.360	214.02

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-9.5884	24.734
SDev	.8044	.574
%RSD	-8.3897	2.3195
#1	-10.290	24.485
#2	-9.7654	24.326
#3	-8.7102	25.390

Method: CLP61E Sample Name: SPK U 491718 #35 Operator:
Run Time: 05/07/92 13:58:46
Comment: SDG:SD0251 1:1 SD0251S
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	14213.	351.07	1935.8	2092.1	51.396	51.533	10038.
SDev	131.	19.84	24.9	29.0	.455	1.614	46.
%RSD	.92466	5.6510	1.2857	1.3857	.88468	3.1311	.45871
#1	14105.	373.65	1939.3	2066.7	50.974	53.395	9993.2
#2	14359.	343.17	1958.8	2123.7	51.878	50.539	10085.
#3	14174.	336.40	1909.4	2085.7	51.336	50.665	10037.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	361.86	521.13	280.05	101060.	612.44	1646.6	3558.5
SDev	3.16	2.77	4.45	829.	26.55	2.2	28.6
%RSD	.87201	.53112	1.5903	.82043	4.3346	.13197	.80430
#1	358.33	518.57	277.49	100290.	611.33	1646.1	3530.9
#2	364.39	524.07	285.19	101940.	639.52	1648.9	3588.0
#3	362.87	520.77	277.46	100960.	586.46	1644.7	3556.5

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	536.25	1166.3	1999.0	46.820	554.98	583.33	806.71
SDev	6.27	299.3	33.4	2.009	18.28	3.83	6.20
%RSD	1.1694	25.666	1.6725	4.2915	3.2934	.65609	.76856
#1	533.91	1491.3	2012.8	47.744	541.46	579.85	801.26
#2	531.50	901.81	1960.9	44.515	547.70	587.43	813.46
#3	543.36	1105.8	2023.3	48.202	575.77	582.70	805.42

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	1865.5	60.309
SDev	37.2	.862
%RSD	1.9952	1.4293
#1	1822.7	61.299
#2	1890.3	59.909
#3	1883.4	59.720

Method: CLP61E Sample Name: XXX U 491733 #36 Operator:
Run Time: 05/07/92 14:03:40
Comment: SDG:SD0251 1:1 SD0260
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	49360.	11.978	72.562	584.92	4.3627	2.4538	13114.
SDev	183.	5.933	32.797	2.97	.0277	1.9415	80.
%RSD	.37037	49.529	45.198	.50699	.63461	79.121	.60739
#1	49154.	12.886	102.59	582.72	4.3308	.80677	13037.
#2	49504.	17.404	77.534	588.30	4.3801	1.9602	13108.
#3	49421.	5.6439	37.564	583.75	4.3773	4.5945	13196.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	1075.4	52.337	153.56	72529.	350.78	4298.5	1854.1
SDev	5.5	2.015	.55	324.	6.55	13.5	7.3
%RSD	.51475	3.8499	.35632	.44613	1.8680	.31375	.39130
#1	1071.0	54.622	152.92	72166.	357.34	4283.6	1846.2
#2	1073.6	51.576	153.87	72633.	350.75	4309.9	1855.5
#3	1081.6	50.814	153.87	72787.	344.24	4302.0	1860.5

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	121.58	4463.7	7.3174	4.0463	656.09	98.872	748.30
SDev	1.04	380.4	21.228	1.6597	12.32	.776	2.66
%RSD	.85303	8.5213	290.10	41.017	1.8784	.78533	.35548
#1	120.76	4816.4	.47198	3.5873	644.40	99.414	745.43
#2	121.23	4514.1	-9.6434	2.6644	654.92	97.982	748.79
#3	122.74	4060.7	31.123	5.8871	668.96	99.219	750.68

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-11.400	54.803
SDev	19.861	2.461
%RSD	-174.23	4.4914
#1	10.999	52.497
#2	-26.864	54.518
#3	-18.335	57.395

Method: CLP61E Sample Name: XXX U 491725 #37 Operator:
Run Time: 05/07/92 14:08:35
Comment: SDG:SD0251 1:1 SD0252
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	21503.	15.699	41.293	129.50	3.0404	1.5879	7195.9
SDev	47.	1.359	25.198	.42	.0265	.9003	21.9
%RSD	.21770	8.6563	61.022	.32805	.87298	56.693	.30458
#1	21498.	14.934	44.997	129.65	3.0245	.96184	7174.7
#2	21552.	14.895	64.434	129.83	3.0711	1.1823	7194.7
#3	21458.	17.268	14.448	129.02	3.0258	2.6196	7218.4

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	491.12	47.952	33.009	115540.	574.85	2836.4	1754.7
SDev	.89	.755	1.285	147.	15.86	21.7	2.7
%RSD	.18098	1.5742	3.8924	.12762	2.7586	.76336	.15358
#1	491.78	47.963	32.530	115370.	586.35	2812.1	1751.5
#2	491.48	47.192	32.032	115660.	581.43	2843.6	1756.3
#3	490.11	48.702	34.464	115570.	556.76	2853.5	1756.2

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	51.785	1405.6	39.889	1.7921	554.85	147.11	440.73
SDev	3.849	690.0	39.762	1.6597	4.68	.29	.77
%RSD	7.4330	49.091	99.681	92.612	.84427	.19503	.17366
#1	50.166	1037.8	63.479	.41137	559.39	147.38	440.11
#2	49.010	977.38	62.206	1.3315	555.11	147.13	441.59
#3	56.180	2201.6	-6.0181	3.6336	550.04	146.81	440.50

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-14.990	46.693
SDev	16.048	1.283
%RSD	-107.06	2.7487
#1	-6.8113	48.167
#2	-4.6787	46.090
#3	-33.480	45.822

Method: CLP61E Sample Name: XXX U 491726 #38 Operator:
Run Time: 05/07/92 14:13:30
Comment: SDG:SD0251 1:1 SD0253
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	14527.	7.2666	44.343	192.58	3.1913	2.1320	6309.5
SDev	71.	27.891	17.233	.71	.0252	1.6343	19.1
%RSD	.48936	383.82	38.864	.36724	.78893	76.656	.30310
#1	14545.	-19.776	41.141	193.08	3.2204	.56021	6298.3
#2	14449.	35.935	62.952	191.77	3.1780	3.8223	6298.5
#3	14587.	5.6409	28.935	192.88	3.1756	2.0134	6331.6

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	421.54	45.915	26.119	91604.	105.39	1042.8	4909.3
SDev	2.25	1.759	1.011	318.	31.88	3.6	19.4
%RSD	.53394	3.8302	3.8725	.34758	30.247	.34186	.39516
#1	420.98	44.906	27.249	91684.	72.484	1046.7	4910.9
#2	419.62	47.945	25.811	91253.	136.13	1041.8	4889.1
#3	424.01	44.892	25.298	91874.	107.55	1039.8	4927.8

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	41.491	816.16	44.263	22.050	492.59	101.14	263.28
SDev	2.518	174.69	46.337	1.219	16.51	.81	1.26
%RSD	6.0686	21.403	104.69	5.5269	3.3511	.79843	.47700
#1	39.947	909.37	33.386	20.669	473.61	101.87	263.42
#2	40.130	924.48	95.071	22.973	503.64	100.27	261.96
#3	44.397	614.64	4.3321	22.508	500.52	101.29	264.46

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-25.548	36.535
SDev	17.093	3.923
%RSD	-66.905	10.738
#1	-6.5130	36.703
#2	-39.584	40.371
#3	-30.547	32.531

Method: CLP61E Sample Name: XXX U 491727 #39 Operator:
Run Time: 05/07/92 14:18:25
Comment: SDG:SD0251 1:1 SD0254
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	59384.	-7.2556	50.691	315.27	2.3078	2.0903	9231.7
SDev	255.	14.2238	31.862	1.63	.0480	1.1732	46.7
%RSD	.43025	-196.04	62.856	.51626	2.0802	56.123	.50541
#1	59414.	5.1647	34.062	315.92	2.2593	3.2969	9183.6
#2	59115.	-4.1590	30.583	313.42	2.3088	2.0203	9234.8
#3	59623.	-22.773	87.427	316.48	2.3553	.95374	9276.8

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	113.19	47.786	52.799	73804.	90.150	4227.0	2955.0
SDev	1.53	2.284	.498	325.	25.004	17.5	12.4
%RSD	1.3551	4.7795	.94310	.43990	27.736	.41466	.42031
#1	111.42	45.288	52.807	73614.	110.26	4229.3	2946.5
#2	114.00	48.301	53.293	73619.	98.035	4208.5	2949.2
#3	114.15	49.768	52.297	74179.	62.154	4243.3	2969.2

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	65.345	4977.6	34.351	-.38452	541.20	98.283	288.79
SDev	1.821	280.2	38.360	2.12810	11.06	.942	2.12
%RSD	2.7872	5.6283	111.67	-553.45	2.0433	.95844	.73513
#1	65.621	5247.1	51.144	2.0728	528.59	99.365	287.46
#2	63.401	4997.7	-9.5415	-1.6117	545.75	97.841	287.67
#3	67.012	4687.9	61.452	-1.6146	549.26	97.643	291.24

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-24.820	57.918
SDev	6.176	1.149
%RSD	-24.882	1.9831
#1	-30.490	59.156
#2	-18.240	56.887
#3	-25.731	57.711

Method: CLP61E Sample Name: XXX U 491728 #40 Operator:
Run Time: 05/07/92 14:23:20
Comment: SDG:SD0251 1:1 SD0255
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	19308.	10.095	37.695	154.45	4.0800	.59618	8467.2
SDev	220.	7.391	10.258	1.95	.0679	1.2013	52.1
%RSD	1.1369	73.219	27.213	1.2632	1.6634	201.50	.61562
#1	19112.	4.8885	48.724	152.62	4.0201	1.7869	8407.0
#2	19545.	6.8410	28.440	156.51	4.0662	-.61549	8498.4
#3	19268.	18.555	35.921	154.22	4.1537	.61715	8496.1

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	281.23	52.614	90.638	85976.	102.75	1565.8	1922.1
SDev	3.90	.441	.988	797.	10.01	13.3	17.0
%RSD	1.3875	.83878	1.0898	.92689	9.7396	.84737	.88429
#1	276.73	52.919	90.674	85158.	92.333	1557.1	1904.1
#2	283.70	52.814	89.633	86750.	112.29	1559.3	1938.0
#3	283.25	52.108	91.608	86021.	103.62	1581.1	1924.1

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	48.646	833.80	48.510	-1.0041	503.64	115.19	313.92
SDev	2.523	577.31	23.647	3.2255	16.77	1.14	3.03
%RSD	5.1864	69.239	48.747	-321.25	3.3290	.99397	.96498
#1	47.091	1030.3	75.714	2.2214	517.28	114.54	310.43
#2	47.291	183.89	32.867	-4.2297	484.92	114.52	315.45
#3	51.557	1287.2	36.949	-1.0039	508.71	116.52	315.88

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-19.112	39.273
SDev	17.712	1.288
%RSD	-92.672	3.2808
#1	-16.952	38.865
#2	-37.805	38.239
#3	-2.5796	40.717

Method: CLP61E Sample Name: XXX U 491729 #41 Operator:
Run Time: 05/07/92 14:28:15
Comment: SDG:SD0251 1:1 SD0256
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	14105.	-.02095	21.149	161.02	2.6818	.20960	6894.4
SDev	21.	9.41628	31.007	.57	.0671	1.1690	31.5
%RSD	.15202	-44953.	146.62	.35498	2.5009	557.74	.45692
#1	14128.	8.5351	-9.0678	161.54	2.6244	-1.0563	6858.2
#2	14085.	1.5115	19.623	160.40	2.7555	1.2486	6909.0
#3	14102.	-10.109	52.891	161.11	2.6655	.43651	6915.9

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	256.18	54.284	45.321	63360.	287.21	1329.0	2924.5
SDev	1.36	1.309	1.225	124.	16.39	8.7	7.4
%RSD	.53025	2.4115	2.7028	.19541	5.7064	.65200	.25447
#1	254.62	55.044	46.460	63230.	270.81	1326.6	2918.8
#2	256.89	55.035	44.026	63374.	287.24	1321.9	2921.7
#3	257.04	52.772	45.478	63477.	303.59	1338.7	2932.9

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	42.403	1282.2	3.3657	1.1459	456.20	82.327	289.54
SDev	4.923	86.9	21.056	2.0068	14.59	1.574	.82
%RSD	11.609	6.7801	625.61	175.12	3.1984	1.9114	.28232
#1	46.504	1196.5	25.181	-1.1561	439.69	80.584	288.96
#2	43.759	1370.3	-16.839	2.0677	467.37	83.644	289.19
#3	36.944	1279.7	1.7556	2.5262	461.53	82.752	290.48

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-13.723	29.150
SDev	7.262	2.899
%RSD	-52.921	9.9465
#1	-16.203	27.117
#2	-5.5453	27.864
#3	-19.420	32.470

Method: CLP61E Sample Name: XXX U 491730 #42 Operator:
Run Time: 05/07/92 14:33:10
Comment: SDG:SD0251 1:1 SD0257
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	11823.	-2.8253	24.165	102.69	1.1809	.33256	2607.1
SDev	34.	14.7191	29.793	.24	.0012	.52769	10.3
%RSD	.28911	-520.98	123.29	.23346	.10121	158.68	.39661
#1	11832.	14.171	43.836	102.75	1.1796	.55294	2598.2
#2	11851.	-11.329	-10.113	102.89	1.1816	.71433	2604.5
#3	11785.	-11.317	38.770	102.42	1.1816	-.26960	2618.4

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	356.75	11.229	90.315	11696.	79.621	995.45	235.53
SDev	.55	.377	.742	13.	12.069	18.98	.11
%RSD	.15328	3.3531	.82206	.11049	15.159	1.9066	.04609
#1	356.90	10.853	90.963	11683.	93.523	1016.2	235.45
#2	357.20	11.228	90.477	11698.	73.523	991.03	235.49
#3	356.14	11.606	89.505	11708.	71.817	979.07	235.65

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	38.663	1556.8	13.221	1.8086	507.15	27.194	328.42
SDev	2.383	198.8	21.786	.7032	8.78	.524	1.37
%RSD	6.1629	12.773	164.79	38.877	1.7312	1.9270	.41651
#1	40.042	1786.0	24.842	1.0415	497.01	27.799	327.43
#2	40.036	1430.8	-11.912	2.4224	512.21	26.891	327.85
#3	35.912	1453.5	26.732	1.9620	512.21	26.892	329.98

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	9.6050	13.074
SDev	11.393	2.289
%RSD	118.62	17.504
#1	3.0253	11.214
#2	3.0286	12.379
#3	22.761	15.630

Method: CLP61E Sample Name: XXX U 491731 #43 Operator:
Run Time: 05/07/92 14:38:05
Comment: SDG:SD0251 1:1 SD0258
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	31831.	2.3608	62.878	231.23	9.4386	2.3415	8547.4
SDev	104.	23.226	20.921	1.50	.0449	3.1277	12.3
%RSD	.32603	983.80	33.273	.64939	.47621	133.58	.14353
#1	31949.	-23.911	42.118	232.76	9.4397	4.4681	8533.5
#2	31754.	20.163	83.957	229.76	9.3931	-1.2498	8556.9
#3	31789.	10.831	62.560	231.16	9.4830	3.8061	8551.7

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	286.26	84.177	59.727	185980.	154.55	1969.1	4086.1
SDev	1.45	.748	1.490	241.	6.79	6.0	4.6
%RSD	.50530	.88843	2.4939	.12970	4.3944	.30223	.11338
#1	284.74	84.915	58.098	186190.	146.91	1964.1	4090.0
#2	286.41	84.195	60.062	185720.	159.90	1975.7	4081.0
#3	287.62	83.420	61.021	186020.	156.83	1967.5	4087.2

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	104.01	1791.0	74.359	7.3262	474.78	221.49	359.43
SDev	2.47	533.3	21.412	2.1765	6.13	.63	1.07
%RSD	2.3742	29.777	28.796	29.709	1.2907	.28344	.29722
#1	101.98	1181.4	83.373	5.6372	469.32	221.03	359.44
#2	103.29	2020.3	89.790	9.7825	481.41	221.24	360.50
#3	106.76	2171.4	49.913	6.5588	473.61	222.20	358.36

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-31.201	72.723
SDev	15.898	.930
%RSD	-50.953	1.2783
#1	-14.140	71.796
#2	-33.863	72.719
#3	-45.600	73.655

Method: CLP61E Sample Name: CCV Operator:
Run Time: 05/07/92 14:43:01
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5131.8	5176.7	4979.9	4912.1	4883.9	4978.2	50700.
SDev	19.6	35.3	52.1	35.9	15.3	14.9	154.
%RSD	.38232	.68132	1.0467	.73130	.31270	.29972	.30407
#1	5154.3	5203.5	5034.6	4941.5	4901.6	4995.0	50765.
#2	5118.6	5189.8	4974.4	4872.0	4874.5	4972.8	50811.
#3	5122.4	5136.7	4930.7	4922.6	4875.7	4966.7	50524.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4884.7	4808.2	4867.1	4868.6	4887.0	49957.	4837.7
SDev	11.4	10.1	25.5	25.8	55.0	156.	9.5
%RSD	.23293	.20927	.52312	.53076	1.1261	.31186	.19682
#1	4894.5	4812.8	4888.5	4896.0	4919.1	50131.	4848.5
#2	4887.4	4815.1	4838.9	4865.2	4918.5	49909.	4834.5
#3	4872.2	4796.7	4873.9	4844.7	4823.5	49831.	4830.3

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4884.3	50277.	5018.5	493.14	51109.	4924.3	4979.9
SDev	2.7	515.	14.0	1.74	502.	16.1	7.7
%RSD	.05625	1.0235	.27970	.35309	.98215	.32756	.15490
#1	4886.8	50748.	5021.6	492.37	51492.	4942.8	4988.8
#2	4884.7	50355.	5003.1	495.13	50541.	4913.4	4974.5
#3	4881.3	49728.	5030.7	491.91	51295.	4916.7	4976.6

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4665.6	4935.8
SDev	20.7	7.1
%RSD	.44391	.14323
#1	4680.3	4942.4
#2	4641.9	4936.7
#3	4674.5	4928.3

Method: CLP61E Sample Name: CCB Operator:
Run Time: 05/07/92 14:47:56
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	12.817	10.003	5.0551	2.8690	2.4769	2.6930	41.151
SDev	8.928	7.090	15.463	1.1707	1.1237	2.6009	16.732
%RSD	69.657	70.878	305.88	40.805	45.367	96.583	40.659
#1	12.936	8.4334	-8.2663	4.0793	3.6225	Q5.0218	57.613
#2	21.684	3.8296	1.4202	2.7853	2.4318	3.1709	41.679
#3	3.8298	17.747	22.011	1.7424	1.3765	-.11377	24.162

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	2.5254	4.0097	3.0756	10.269	11.488	33.316	3.3601
SDev	1.7869	1.3197	1.7512	.001	22.787	18.089	1.5855
%RSD	70.756	32.912	56.938	.01021	198.36	54.294	47.187
#1	4.4957	5.3863	5.0184	10.268	37.520	50.384	4.9389
#2	2.0705	2.7555	2.5899	10.269	1.7914	35.210	3.3733
#3	1.0099	3.8873	1.6185	10.270	-4.8474	14.355	1.7680

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	2.9153	340.07	12.282	2.6100	48.479	3.9487	2.5888
SDev	4.5645	257.20	23.143	2.1764	7.076	2.1537	1.7836
%RSD	156.57	75.632	188.44	83.386	14.596	54.543	68.896
#1	7.8443	629.75	9.2165	4.2989	56.017	6.2760	4.2547
#2	2.0673	251.90	-9.1760	3.3773	41.981	3.5442	2.8044
#3	-1.1657	138.55	36.805	.15393	47.439	2.0259	.70719

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4.9488	10.305
SDev	15.711	3.846
%RSD	317.48	37.317
#1	22.710	14.734
#2	-.73101	7.8100
#3	-7.1326	8.3719

Method: CLP61E Sample Name: XXX U 491732 #46 Operator:
Run Time: 05/07/92 14:52:50
Comment: SDG:SD0251 1:1 SD0259
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	90369.	-12.534	46.347	381.93	4.5427	1.8129	5446.5
SDev	261.	12.241	21.686	.59	.0011	1.1030	26.6
%RSD	.28909	-97.663	46.790	.15432	.02366	60.843	.48806
#1	90147.	-26.406	62.283	382.33	4.5414	.76052	5415.8
#2	90303.	-3.2468	55.107	381.25	4.5433	1.7177	5461.2
#3	90657.	-7.9500	21.652	382.21	4.5433	2.9604	5462.5

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	88.261	39.441	68.446	86252.	87.703	6108.9	2017.9
SDev	1.583	1.892	.567	294.	17.424	25.7	7.3
%RSD	1.7939	4.7978	.82860	.34036	19.867	.42107	.36137
#1	89.020	39.211	68.785	85913.	107.82	6079.9	2009.6
#2	86.442	41.438	68.762	86427.	77.928	6129.0	2023.2
#3	89.323	37.674	67.791	86416.	77.362	6117.6	2020.9

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	58.401	4262.2	55.797	2.5217	537.56	127.64	244.20
SDev	2.596	143.7	33.600	.7043	3.09	.47	3.55
%RSD	4.4445	3.3703	60.218	27.930	.57572	.36913	1.4555
#1	59.010	4408.3	62.486	3.1370	535.22	128.18	240.13
#2	60.638	4257.1	19.356	1.7535	536.39	127.37	246.65
#3	55.555	4121.1	85.548	2.6747	541.07	127.37	245.84

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-19.091	72.421
SDev	2.677	.576
%RSD	-14.025	.79481
#1	-19.085	72.255
#2	-21.771	71.947
#3	-16.417	73.061

Method: CLP61E Sample Name: XXX U 491734 #47 Operator:
Run Time: 05/07/92 14:57:46
Comment: SDG:SD0251 1:1 SD0261
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	7189.5	16.557	115.55	89.899	.49181	8.0717	3522.7
SDev	13.8	12.253	22.19	.036	.02920	3.4065	18.0
%RSD	.19235	74.003	19.208	.04027	5.9365	42.203	.51057
#1	7174.3	11.916	91.950	89.898	.47394	5.7099	3503.2
#2	7201.4	7.3027	118.69	89.863	.47599	11.977	3538.7
#3	7192.7	30.453	136.00	89.936	.52550	6.5285	3526.1

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	120.92	7.2618	661.23	10409.	274.90	694.47	93.243
SDev	1.15	.6528	2.43	36.	35.33	2.81	.265
%RSD	.94713	8.9895	.36703	.34534	12.851	.40489	.28416
#1	121.98	6.8864	658.80	10373.	294.09	691.25	93.223
#2	119.70	6.8834	663.65	10445.	234.13	696.44	93.518
#3	121.07	8.0156	661.23	10409.	296.48	695.73	92.989

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	23.818	1289.7	64.025	3.3437	902.65	13.123	330.78
SDev	3.861	160.2	23.594	.4602	16.89	1.225	.92
%RSD	16.211	12.420	36.852	13.763	1.8711	9.3325	.27792
#1	28.206	1461.0	73.763	2.8837	884.19	14.230	330.34
#2	22.311	1264.5	37.120	3.8041	917.33	13.333	331.83
#3	20.938	1143.6	81.191	3.3432	906.42	11.807	330.16

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	12.696	10.789
SDev	22.384	2.230
%RSD	176.30	20.668
#1	29.404	8.8647
#2	21.421	13.233
#3	-12.736	10.270

Method: CLP61E Sample Name: XXX U 491735 #48 Operator:
Run Time: 05/07/92 15:02:41
Comment: SDG:SD0251 1:1 SD0262
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	58060.	3.8442	54.054	527.28	4.3380	2.5183	5283.5
SDev	72.	16.704	27.580	2.27	.0290	1.1404	26.9
%RSD	.12368	434.54	51.024	.43017	.66901	45.284	.50856
#1	58135.	-4.5810	28.145	529.81	4.3199	1.2024	5255.8
#2	58053.	-6.9698	83.047	526.61	4.3715	3.2183	5285.2
#3	57992.	23.083	50.970	525.43	4.3226	3.1344	5309.4

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	698.41	33.960	149.54	68150.	274.90	4559.5	706.75
SDev	2.51	1.299	.74	145.	20.90	16.4	2.93
%RSD	.35961	3.8236	.49665	.21220	7.6010	.36002	.41429
#1	695.79	32.461	150.19	68027.	296.77	4563.8	703.70
#2	698.67	34.716	148.73	68114.	255.14	4541.3	707.01
#3	700.79	34.704	149.69	68310.	272.79	4573.3	709.54

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	132.25	5388.2	21.994	11.124	769.30	102.99	930.07
SDev	2.83	473.7	20.325	.798	12.12	1.21	2.41
%RSD	2.1407	8.7916	92.414	7.1728	1.5756	1.1736	.25880
#1	134.88	5897.0	18.073	11.586	780.86	104.18	928.09
#2	132.61	4959.9	43.994	10.203	756.69	101.77	929.36
#3	129.26	5307.6	3.9148	11.584	770.34	103.01	932.75

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-.56253	55.256
SDev	6.92780	1.650
%RSD	-1231.5	2.9865
#1	-8.5559	57.155
#2	3.7053	54.169
#3	3.1630	54.445

Method: CLP61E Sample Name: XXX U 491736 #49 Operator:
Run Time: 05/07/92 15:07:36
Comment: SDG:SD0251 1:1 SD0263
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	59267.	4.7779	56.871	449.33	3.8871	3.9829	6932.3
SDev	46.	17.074	8.058	1.88	.0506	1.6791	18.5
%RSD	.07757	357.35	14.169	.41809	1.3006	42.158	.26759
#1	59310.	-8.3248	51.632	450.16	3.8287	4.0432	6911.0
#2	59219.	-1.4281	66.150	447.17	3.9173	5.6311	6940.7
#3	59273.	24.087	52.831	450.64	3.9152	2.2745	6945.2

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	447.31	59.707	140.37	77878.	215.95	4166.1	1947.2
SDev	1.26	1.780	1.12	46.	26.14	22.7	.6
%RSD	.28223	2.9818	.79779	.05947	12.103	.54396	.03320
#1	446.30	61.717	139.08	77830.	191.06	4140.0	1947.3
#2	448.72	58.327	141.02	77881.	213.61	4179.2	1947.8
#3	446.90	59.077	141.02	77923.	243.17	4179.2	1946.5

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	165.92	4584.6	63.219	3.2786	573.82	98.842	645.67
SDev	1.45	480.0	12.150	2.2717	13.15	1.235	1.59
%RSD	.87578	10.470	19.219	69.289	2.2912	1.2491	.24699
#1	167.12	4098.4	52.089	2.2038	562.51	97.519	644.96
#2	166.33	5058.2	61.386	1.7438	570.70	99.043	647.49
#3	164.30	4597.2	76.181	5.8883	588.25	99.963	644.55

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-13.055	58.838
SDev	12.667	1.591
%RSD	-97.026	2.7046
#1	-19.281	57.307
#2	-21.405	58.722
#3	1.5199	60.484

Method: CLP61E Sample Name: XXX U 491737 #50 Operator:
Run Time: 05/07/92 15:12:32
Comment: SDG:SD0251 1:1 SD0264
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	33504.	5.6015	93.691	238.91	2.0402	2.9680	5121.0
SDev	127.	4.0059	40.721	.99	.0432	.2009	14.6
%RSD	.37828	71.514	43.463	.41597	2.1199	6.7683	.28465
#1	33362.	3.3205	46.908	237.79	1.9974	3.1945	5104.4
#2	33607.	3.2571	121.17	239.70	2.0392	2.8111	5131.3
#3	33541.	10.227	113.00	239.23	2.0839	2.8985	5127.5

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	395.68	30.027	414.68	35913.	208.14	2504.5	429.11
SDev	1.39	2.172	2.49	88.	16.58	14.8	.67
%RSD	.35116	7.2346	.60033	.24532	7.9650	.58894	.15640
#1	394.16	28.780	411.93	35819.	202.31	2488.1	428.39
#2	396.89	28.765	415.32	35993.	195.26	2508.7	429.71
#3	395.98	32.535	416.78	35926.	226.84	2516.8	429.25

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	113.85	3849.1	64.581	29.867	554.85	54.152	578.85
SDev	2.85	397.3	19.661	2.176	15.91	1.278	1.81
%RSD	2.5010	10.322	30.444	7.2865	2.8669	2.3604	.31188
#1	111.81	3561.9	46.617	28.178	537.95	52.716	577.25
#2	117.11	3682.8	85.585	29.099	557.05	54.572	580.81
#3	112.64	4302.5	61.543	32.323	569.53	55.167	578.50

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	1.3815	33.406
SDev	4.9403	3.127
%RSD	357.61	9.3602
#1	-2.6980	30.427
#2	-.03205	33.129
#3	6.8745	36.662

Method: CLP61E Sample Name: XXX U 491738 #51 Operator:
Run Time: 05/07/92 15:17:27
Comment: SDG:SD0251 1:1 SD0265
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	63117.	7.8344	37.520	448.79	4.2671	1.6357	5069.5
SDev	212.	5.8033	13.381	2.91	.0260	2.0979	16.5
%RSD	.33638	74.074	35.664	.64779	.60825	128.26	.32623
#1	62926.	7.1128	52.085	446.20	4.2504	3.9541	5058.4
#2	63079.	2.4256	25.770	448.23	4.2539	-.13197	5061.5
#3	63345.	13.965	34.705	451.94	4.2970	1.0851	5088.5

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	80.439	39.582	31.484	65096.	69.209	4731.3	2964.0
SDev	1.457	.950	.750	196.	7.729	7.2	8.2
%RSD	1.8115	2.4013	2.3817	.30126	11.167	.15130	.27699
#1	78.872	40.474	32.301	64925.	77.372	4736.7	2957.0
#2	80.692	38.582	31.324	65053.	62.004	4723.2	2962.0
#3	81.753	39.691	30.827	65310.	68.252	4734.0	2973.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	72.045	4650.1	17.819	5.9065	536.78	93.711	322.45
SDev	2.534	406.4	8.382	1.6164	10.48	.804	.83
%RSD	3.5176	8.7395	47.040	27.366	1.9532	.85838	.25838
#1	70.128	5118.6	24.839	5.7543	548.87	94.286	321.61
#2	71.088	4438.5	8.5384	4.3717	530.15	92.792	322.45
#3	74.918	4393.2	20.079	7.5936	531.32	94.056	323.28

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-13.393	52.504
SDev	24.232	.407
%RSD	-180.93	.77534
#1	14.344	52.244
#2	-30.451	52.296
#3	-24.073	52.974

Method: CLP61E Sample Name: XXX U 491739 #52 Operator:
Run Time: 05/07/92 15:22:22
Comment: SDG:SD0251 1:1 SD0266
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	67486.	5.8720	38.577	599.19	4.3773	1.6961	8677.0
SDev	206.	14.115	11.989	2.64	.0233	.8012	28.7
%RSD	.30484	240.37	31.079	.43991	.53270	47.237	.33059
#1	67709.	8.9385	47.654	601.90	4.3907	1.0153	8674.9
#2	67448.	-9.5238	43.092	599.04	4.3504	1.4939	8649.3
#3	67303.	18.201	24.986	596.63	4.3908	2.5789	8706.6

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	497.18	56.081	143.77	81649.	533.82	5570.0	1480.0
SDev	2.27	1.007	1.94	180.	32.43	29.4	2.8
%RSD	.45672	1.7960	1.3485	.22024	6.0750	.52784	.18851
#1	497.83	55.690	143.76	81825.	523.98	5589.3	1482.0
#2	494.65	57.225	141.83	81466.	507.45	5536.1	1476.8
#3	499.05	55.328	145.71	81656.	570.03	5584.5	1481.0

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	163.98	7484.0	51.025	-.02771	692.35	112.68	996.47
SDev	7.49	344.1	27.531	.79749	6.76	1.43	3.67
%RSD	4.5695	4.5975	53.955	-2878.5	.97706	1.2690	.36875
#1	169.37	7423.5	19.492	-.94857	684.95	113.53	1000.3
#2	155.43	7174.2	70.283	.43267	693.91	111.03	992.99
#3	167.16	7854.3	63.301	.43278	698.20	113.49	996.09

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-20.351	63.245
SDev	5.573	1.584
%RSD	-27.386	2.5038
#1	-24.083	62.509
#2	-13.944	62.164
#3	-23.026	65.063

Method: CLP61E Sample Name: XXX P 491717 #53 Operator:
Run Time: 05/07/92 15:27:17
Comment: SDG:SD0251 1:1 SD0251A
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	10094.	107.84	26.845	93.703	10.923	9.8868	5730.6
SDev	48.	11.42	16.169	.475	.094	1.5786	45.1
%RSD	.47403	10.590	60.230	.50739	.86341	15.967	.78778
#1	10038.	102.50	21.138	93.171	10.818	11.699	5679.0
#2	10120.	120.95	45.093	94.086	10.952	8.8098	5749.7
#3	10122.	100.06	14.304	93.852	11.000	9.1516	5763.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	176.21	109.34	75.993	50564.	129.32	1206.3	1239.1
SDev	1.18	.74	1.004	351.	24.74	8.3	9.0
%RSD	.67179	.67302	1.3208	.69451	19.129	.68975	.72661
#1	174.84	108.61	75.200	50172.	156.83	1199.1	1228.8
#2	176.81	110.08	77.121	50670.	122.22	1215.4	1242.9
#3	176.96	109.32	75.656	50849.	108.91	1204.5	1245.5

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	103.06	1398.1	22.924	19.372	354.43	162.66	255.03
SDev	4.29	234.9	61.765	3.655	18.33	.81	2.29
%RSD	4.1621	16.803	269.43	18.868	5.1721	.50007	.89655
#1	98.121	1506.4	8.6646	20.755	336.36	161.79	252.39
#2	105.25	1559.3	90.572	22.135	373.02	163.39	256.35
#3	105.82	1128.5	-30.464	15.228	353.91	162.81	256.34

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-15.272	22.357
SDev	6.280	.207
%RSD	-41.122	.92480
#1	-22.195	22.189
#2	-13.679	22.588
#3	-9.9417	22.294

Method: CLP61E Sample Name: XXX S 491717 #54 Operator:
Run Time: 05/07/92 15:32:12
Comment: SDG:SD0251 1:5 SD0251L
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	2177.2	6.2952	16.348	19.968	.51714	.10973	1261.6
SDev	19.0	20.840	6.078	.113	.04359	1.1379	8.4
%RSD	.87246	331.05	37.178	.56494	8.4296	1037.0	.66697
#1	2197.5	6.3089	10.781	20.003	.56037	.02593	1270.1
#2	2159.8	-14.552	15.431	20.059	.47320	1.2872	1253.2
#3	2174.3	27.128	22.833	19.842	.51784	-.98397	1261.5

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	34.253	6.1943	5.5178	10837.	35.232	254.96	259.31
SDev	1.325	1.9521	.4832	61.	14.699	22.08	1.38
%RSD	3.8687	31.514	8.7578	.56532	41.722	8.6617	.53057
#1	33.141	8.4484	6.0004	10907.	44.887	273.84	260.89
#2	33.900	5.0680	5.0339	10794.	18.315	230.68	258.38
#3	35.719	5.0666	5.5189	10810.	42.493	260.37	258.66

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	6.6941	224.19	-1.3458	1.9636	408.89	15.474	47.233
SDev	.8259	259.19	16.5952	1.2184	8.34	1.106	.005
%RSD	12.337	115.61	-1233.1	62.051	2.0385	7.1481	.01023
#1	7.3364	403.04	-2.4337	3.3452	406.16	16.702	47.228
#2	5.7625	-73.051	-17.370	1.0425	402.26	14.555	47.238
#3	6.9834	342.59	15.767	1.5031	418.25	15.165	47.232

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	21.472	11.572
SDev	9.098	1.569
%RSD	42.373	13.555
#1	15.945	10.669
#2	31.973	10.664
#3	16.498	13.384

Method: CLP61E Sample Name: XXX U 123123 #55 Operator:
Run Time: 05/07/92 15:37:07
Comment: SDG:INSERT 1:1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	10003.	-8.5627	18.969	92.636	2.2117	.66296	5629.4
SDev	39.	21.2214	4.950	.198	.0241	1.0649	15.7
%RSD	.38726	-247.83	26.092	.21377	1.0882	160.62	.27811
#1	10030.	14.582	15.328	92.792	2.2238	1.2860	5647.2
#2	10021.	-27.105	24.605	92.703	2.1839	-.56661	5623.2
#3	9958.8	-13.166	16.974	92.413	2.2273	1.2695	5617.8

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	156.26	21.594	29.721	49834.	112.31	1169.2	3498.3
SDev	.89	3.480	1.485	104.	28.33	11.6	7.4
%RSD	.56834	16.116	4.9954	.20822	25.226	.99028	.21145
#1	157.27	23.598	31.014	49893.	144.96	1178.2	3502.3
#2	155.91	17.576	28.100	49893.	97.770	1156.1	3502.9
#3	155.61	23.609	30.050	49714.	94.204	1173.2	3489.8

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	31.266	1136.1	27.005	.60339	389.91	73.161	214.83
SDev	1.527	398.4	5.210	1.5949	23.58	1.370	1.21
%RSD	4.8847	35.066	19.294	264.33	6.0476	1.8732	.56094
#1	29.578	1476.1	30.188	2.4451	415.91	74.589	216.17
#2	32.552	697.77	20.992	-.31858	383.93	71.856	213.83
#3	31.669	1234.3	29.834	-.31633	369.90	73.039	214.47

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-34.312	23.755
SDev	3.824	1.428
%RSD	-11.144	6.0093
#1	-30.070	24.329
#2	-37.493	22.130
#3	-35.372	24.807

Method: CLP61E Sample Name: CCVA Operator:
Run Time: 05/07/92 15:42:02
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5129.4	5174.8	4970.4	4951.4	4872.3	4952.7	50248.
SDev	19.8	13.8	28.8	19.5	12.1	11.8	97.
%RSD	.38552	.26661	.57887	.39360	.24826	.23835	.19301
#1	5134.1	5187.9	4971.1	4942.0	4870.6	4939.1	50250.
#2	5107.7	5160.4	4941.3	4938.4	4861.1	4960.6	50151.
#3	5146.5	5176.1	4998.9	4973.8	4885.1	4958.4	50344.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4856.8	4774.7	4896.1	4812.2	4849.7	49687.	4813.7
SDev	16.3	9.0	17.5	14.8	38.4	134.	13.5
%RSD	.33554	.18894	.35660	.30789	.79281	.27004	.27999
#1	4856.6	4775.2	4890.4	4803.6	4877.9	49651.	4811.0
#2	4840.6	4765.4	4882.2	4803.6	4805.9	49574.	4801.8
#3	4873.1	4783.4	4915.7	4829.3	4865.2	49835.	4828.4

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4853.8	51159.	4990.8	493.13	51954.	4912.5	4957.6
SDev	14.5	546.	8.3	1.40	271.	11.7	8.1
%RSD	.29936	1.0678	.16615	.28491	.52110	.23845	.16273
#1	4843.8	51783.	4982.8	491.91	51923.	4913.4	4958.1
#2	4847.2	50771.	4999.3	494.67	51700.	4900.3	4949.2
#3	4870.5	50922.	4990.2	492.83	52239.	4923.7	4965.3

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4617.6	4916.3
SDev	43.0	17.1
%RSD	.93080	.34712
#1	4635.2	4911.1
#2	4568.6	4902.5
#3	4649.0	4935.4

Method: CLP61E Sample Name: CCBA Operator:
Run Time: 05/07/92 15:46:58
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	37.175	20.025	11.203	1.9226	1.6371	3.3622	26.113
SDev	8.858	6.132	18.198	.8460	.7255	.5660	10.234
%RSD	23.827	30.619	162.43	44.003	44.316	16.834	39.193
#1	35.217	24.648	-5.6841	2.8747	2.4318	3.2522	36.732
#2	46.849	13.070	8.8175	1.6360	1.4692	3.9751	25.294
#3	29.461	22.358	30.477	1.2571	1.0102	2.8592	16.312

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	3.4866	2.6304	7.7707	10.269	3.7780	13.733	2.2362
SDev	1.3069	2.3885	1.4838	.001	14.545	12.058	1.0575
%RSD	37.484	90.802	19.095	.00700	385.01	87.804	47.287
#1	4.6486	5.3884	9.3897	10.268	4.1841	27.638	3.4135
#2	3.7395	1.2501	7.4469	10.269	-10.966	6.1550	1.9284
#3	2.0717	1.2528	6.4755	10.270	18.116	7.4065	1.3669

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	1.2336	521.44	-2.4321	2.3024	34.442	2.1267	5.8912
SDev	4.1442	11.54	10.4584	2.1269	10.652	1.2638	1.4641
%RSD	335.95	2.2138	-430.01	92.381	30.927	59.427	24.852
#1	4.6360	531.51	9.2165	4.7583	46.270	3.5433	7.4227
#2	2.4465	508.84	-5.4975	1.0744	31.453	1.7218	5.7457
#3	-3.3818	523.96	-11.015	1.0743	25.604	1.1149	4.5054

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-1.7967	8.3582
SDev	5.3196	1.9362
%RSD	-296.08	23.165
#1	3.5205	10.520
#2	-7.1187	7.7719
#3	-1.7918	6.7829

Method: CLP61E Sample Name: XXX U 123123 #58 Operator:
Run Time: 05/07/92 15:51:53
Comment: SDG:INSERT 1:1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	412.09	242.85	1062.6	6.3736	20.603	49.643	202460.
SDev	12.41	9.31	3.8	.0378	.047	.712	643.
%RSD	3.0112	3.8349	.35575	.59362	.23011	1.4341	.31752
#1	400.66	232.86	1064.3	6.3438	20.603	49.476	202450.
#2	425.28	244.42	1065.2	6.3609	20.555	49.030	201820.
#3	410.32	251.29	1058.2	6.4162	20.650	50.424	203100.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	103.64	159.28	7072.2	23811.	223.92	123100.	222.57
SDev	3.22	3.01	18.0	55.	28.59	326.	.33
%RSD	3.1092	1.8915	.25383	.23061	12.768	.26512	.14753
#1	100.76	156.27	7083.0	23823.	203.38	123160.	222.81
#2	103.04	162.30	7051.4	23751.	256.58	122750.	222.20
#3	107.12	159.28	7082.0	23859.	211.82	123390.	222.70

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	62.184	-211.60	82.442	23.237	421.24	70.002	199.54
SDev	3.589	194.34	2.796	2.272	16.19	.693	.09
%RSD	5.7717	-91.844	3.3916	9.7759	3.8437	.98957	.04644
#1	59.797	-352.66	85.531	20.628	405.38	69.601	199.46
#2	60.443	10.076	81.711	24.313	420.59	70.802	199.53
#3	66.311	-292.21	80.084	24.771	437.74	69.604	199.64

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	3.2326	118.21
SDev	22.571	2.58
%RSD	698.23	2.1847
#1	-13.102	120.79
#2	28.987	118.23
#3	-6.1881	115.62

Method: CLP61E Sample Name: CRI Operator:
Run Time: 05/07/92 15:56:48
Comment: CRI
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	8.9118	104.95	101.42	.34195	9.4881	9.6461	93.922
SDev	7.9469	9.35	30.64	.14034	.0454	2.1834	21.575
%RSD	89.173	8.9087	30.213	41.041	.47809	22.635	22.971
#1	4.0892	103.42	101.82	.25256	9.4434	Q7.7453	118.17
#2	18.084	114.97	Q131.87	.50370	9.4867	9.1620	86.732
#3	4.5621	96.461	Q70.585	.26959	9.5341	Q12.031	76.860

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	19.890	98.577	53.912	5.1191	88.456	50.218	30.195
SDev	.963	1.425	1.121	5.1353	11.486	23.048	.101
%RSD	4.8422	1.4453	2.0802	100.32	12.985	45.896	.33336
#1	19.333	97.574	54.559	10.255	85.437	68.525	30.103
#2	21.002	100.21	54.560	5.1187	101.15	57.792	30.302
#3	19.334	97.950	52.617	-.01610	78.781	24.336	30.181

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	83.128	173.81	Q251.99	21.518	43.150	98.890	39.676
SDev	.894	230.75	25.29	.959	13.780	.607	.321
%RSD	1.0758	132.76	10.036	4.4552	31.935	.61348	.80917
#1	84.136	-50.380	Q274.07	20.444	48.219	98.283	39.599
#2	82.819	410.60	224.40	22.286	53.678	99.497	40.029
#3	82.429	161.22	Q257.49	21.825	27.554	98.889	39.401

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	88.313	8.6819
SDev	18.166	.6225
%RSD	20.570	7.1705
#1	Q67.519	9.3943
#2	101.10	8.2424
#3	96.319	8.4091

Method: CLP61E Sample Name: ICSA Operator:
Run Time: 05/07/92 16:01:42
Comment: ICSA
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	497730.	10.679	-100.17	5.3322	.16330	.23045	475680.
SDev	1708.	20.328	44.17	.2390	.02719	2.4211	839.
%RSD	.34324	190.36	-44.090	4.4821	16.647	1050.6	.17647
#1	498210.	16.052	-60.841	5.6074	.14506	3.0028	476420.
#2	495830.	27.781	-91.727	5.1775	.15031	-1.4670	474770.
#3	499140.	-11.796	-147.95	5.2116	.19455	-.84449	475840.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-3.1558	-3.1367	2.2011	168600.	58.822	498930.	14.473
SDev	1.9513	1.3183	.2704	421.	4.481	1285.	.332
%RSD	-61.832	-42.029	12.286	.24962	7.6180	.25764	2.2935
#1	-3.7218	-1.7735	2.5129	168870.	60.269	499720.	14.773
#2	-4.7614	-3.2316	2.0603	168110.	53.797	497450.	14.531
#3	-.98404	-4.4050	2.0301	168810.	62.402	499630.	14.116

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	-5.5582	-166.26	51.793	-5.3755	86.041	-4.3192	-.74293
SDev	2.5887	382.09	54.237	2.3922	10.470	1.1693	.92900
%RSD	-46.574	-229.82	104.72	-44.502	12.168	-27.071	-125.05
#1	-8.4176	244.34	113.64	-6.7564	95.399	-3.0476	.32546
#2	-3.3742	-231.75	29.381	-2.6132	87.990	-5.3480	-1.1937
#3	-4.8827	-511.36	12.354	-6.7569	74.733	-4.5620	-1.3605

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-18.151	405.33
SDev	33.566	3.07
%RSD	-184.92	.75648
#1	20.064	406.28
#2	-42.861	407.80
#3	-31.658	401.90

Method: CLP61E Sample Name: ICSAB Operator:
Run Time: 05/07/92 16:06:37
Comment: ICSAB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	493450.	7.0148	-53.011	466.95	443.30	948.88	471470.
SDev	2991.	13.971	43.467	3.19	1.43	.70	383.
%RSD	.60612	199.16	-81.996	.68234	.32264	.07387	.08114
#1	490150.	20.153	-100.61	463.39	441.81	949.57	471320.
#2	495990.	-7.6606	-42.995	469.54	444.67	948.91	471910.
#3	494200.	8.5516	-15.426	467.92	443.43	948.17	471190.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	427.79	415.20	475.48	167420.	946.59	495180.	449.35
SDev	2.18	1.10	1.82	411.	45.74	891.	1.01
%RSD	.50987	.26503	.38360	.24567	4.8318	.17994	.22446
#1	430.27	414.10	474.21	166970.	928.28	494270.	448.33
#2	426.17	416.30	477.57	167780.	912.84	496050.	450.35
#3	426.94	415.19	474.67	167510.	998.64	495210.	449.37

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	845.94	-93.204	6.5545	937.99	88.250	441.41	917.46
SDev	7.80	385.509	25.778	4.18	11.938	.95	2.55
%RSD	.92192	-413.62	393.29	.44541	13.527	.21560	.27818
#1	841.39	319.92	-20.695	933.54	74.733	441.47	915.47
#2	854.95	-443.35	30.553	941.82	92.669	442.33	920.34
#3	841.49	-156.18	9.8053	938.60	97.348	440.43	916.58

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	-49.016	407.83
SDev	22.147	.99
%RSD	-45.183	.24342
#1	-26.782	408.71
#2	-49.191	408.04
#3	-71.074	406.75

Method: CLP61E Sample Name: CCVA Operator:
Run Time: 05/07/92 16:11:32
Comment: CCV CVS1
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5325.0	5143.5	4952.6	4985.1	4860.7	4933.9	49973.
SDev	65.9	27.7	30.3	48.6	20.9	18.0	119.
%RSD	1.2375	.53909	.61129	.97434	.42926	.36464	.23872
#1	5289.2	5114.4	4923.2	4957.8	4844.5	4913.6	49854.
#2	5284.7	5146.6	4951.1	4956.3	4853.2	4940.0	49973.
#3	5401.0	5169.6	4983.7	5041.2	4884.2	4948.0	50093.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4831.1	4740.7	4914.9	4868.7	4795.9	49650.	4799.9
SDev	14.5	14.3	40.7	41.5	72.3	242.	17.4
%RSD	.30026	.30153	.82750	.85237	1.5079	.48792	.36231
#1	4816.0	4727.0	4890.4	4844.7	4794.1	49460.	4784.1
#2	4832.2	4739.4	4892.4	4844.7	4724.5	49567.	4797.2
#3	4844.9	4755.6	4961.8	4916.6	4869.1	49923.	4818.5

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	4831.3	51499.	4955.9	493.44	52356.	4904.8	4935.4
SDev	22.1	266.	45.5	.71	664.	23.4	20.8
%RSD	.45676	.51680	.91816	.14350	1.2688	.47744	.42238
#1	4807.4	51617.	4907.5	492.82	52076.	4887.0	4917.7
#2	4835.4	51194.	4962.6	493.28	51878.	4896.1	4930.0
#3	4851.0	51685.	4997.7	494.21	53114.	4931.3	4958.4

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	4588.5	4892.9
SDev	34.3	27.0
%RSD	.74746	.55241
#1	4621.6	4871.2
#2	4590.6	4884.3
#3	4553.2	4923.1

Method: CLP61E Sample Name: CCBA Operator:
Run Time: 05/07/92 16:16:28
Comment: CCB
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	71.951	6.0886	6.3039	3.2578	3.0154	4.1351	81.039
SDev	14.219	8.0565	14.044	1.4567	1.3633	2.1423	27.356
%RSD	19.762	132.32	222.78	44.714	45.212	51.808	33.757
#1	87.401	-3.2142	19.306	4.7433	4.4560	Q6.4555	109.48
#2	69.038	10.734	-8.5903	3.1982	2.8448	3.7174	78.718
#3	59.414	10.746	8.1964	1.8318	1.7454	2.2324	54.918

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5.7600	5.3874	7.9326	10.268	-18.470	66.551	3.3329
SDev	1.4082	.6534	2.7042	.001	16.705	27.677	1.3485
%RSD	24.447	12.129	34.090	.00833	-90.443	41.588	40.460
#1	7.3767	4.6329	10.361	10.267	-24.941	89.505	4.7375
#2	5.1028	5.7646	8.4183	10.268	.50228	74.331	3.2128
#3	4.8007	5.7648	5.0184	10.269	-30.971	35.816	2.0486

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Units	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter	ug/liter
Avge	5.3854	-35.266	41.710	1.9957	48.999	3.3410	7.2825
SDev	2.0677	257.495	23.934	1.2183	4.727	1.4024	1.7115
%RSD	38.394	-730.15	57.382	61.046	9.6481	41.977	23.501
#1	4.4445	-329.99	40.484	.61433	54.068	4.1503	8.2675
#2	3.9555	146.10	66.233	2.9169	48.219	4.1510	8.2737
#3	7.7562	78.090	18.413	2.4558	44.710	1.7216	5.3062

Elem	Tl1908	Mo2020
Units	ug/liter	ug/liter
Avge	9.2154	12.682
SDev	16.795	2.341
%RSD	182.25	18.457
#1	.32944	14.913
#2	28.587	12.888
#3	-1.2702	10.245

A69205072301

COMPUCHEM LABORATORIES, INC.

Original in SDG MERA13

ATOMIC ABSORPTION RAW DATA PACKAGE

Analyst Debbie Spivey Date 5/8/92 SDG MERA13

Set Up Parameters

AA	Channel A	Channel B
Element	Se	As
Background Correction	BS	BS
Wavelength	196.0 nm	197.3 nm
Bandwidth	2.0 nm	2.0 nm

AA Spectrophotometer Instrument ID A6

Integration Time 2.7 sec Delay 0.6 sec

Integration Mode peak area

ThermoSpec Method Name: CLPSEAS/846SEAS

Furnace

	Dry	Pyr1	Pyr2	Atom	Clean
Temp	150	900	1100	2350	2450
Ramp	2	10	5	0	
Hold	0	5	15	3	2
Purge	Low	Medium	Low	Off	High

Fastac

Aspiration Rate 1.0 mL/min

Delay 10.0 sec Deposition 24.0 sec

Calibration Standards

Source SPEX

Preparation Date 5/7/92

Preparer RCW

Concentration Units ug/L

Matrix Modifier(s) 100/300PPM Pd/Mg

Standard Concentrations

Se	As
0	0
30	30
5	10
60	60

Performance Check – 30 ug/L STANDARD ABSORBANCES

Channel A 0.114

Channel B 0.138

Correlation Coeff.

Channel A 0.999

Channel B 0.998

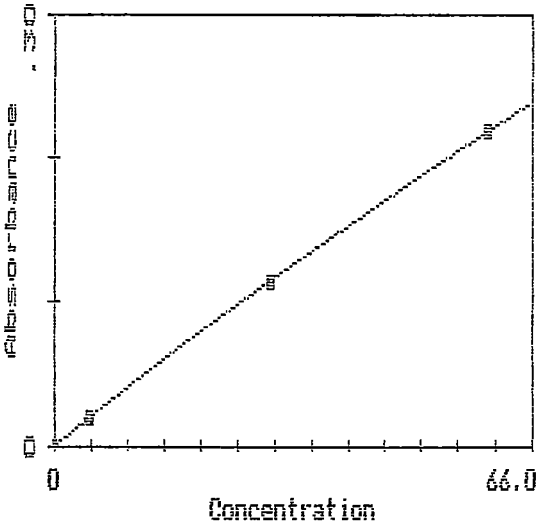
Calibration Report Fri 05-08-92 05:39:48 AM page 1

Method: CLPSEAS Element: Se Wavelength: 196.0 Element 1 of 2

Correlation Coefficient: .999454

Coefficients
a1 = .004055
a2 = -.000007 Abs : .019379
a3 = 0 Conc : 4.81752

Fit Quadratic



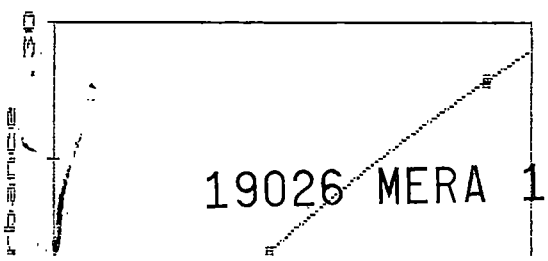
Date: 7 May 92 23:14
Slope corr.: 1

Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.113967	.021015	.220004
Known conc.:	0	30	5	60
Calc. conc.:	0.0000	29.5447	5.22794	60.2318
Residual:	0.0000	-.455328	.227942	.231804

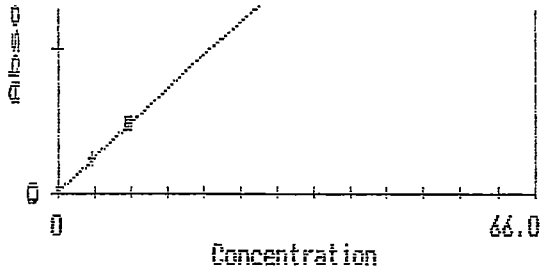
Method: CLPSEAS Element: As Wavelength: 197.2 Element 2 of 2

Correlation Coefficient: .998979

Coefficients
a1 = .004946
a2 = -.000011 Abs : .020379
a3 = 0 Conc : 4.81752



Fit Quadratic



Date: 7 May 92 23:14

Slope corr.: 1

Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.137606	.048954	.257982
Known conc.:	0	30	10	60
Calc. conc.:	0.0000	29.7745	10.123	60.1056
Residual:	0.0000	-.225479	.122966	.105618

Furnace AAS Runlog

CompuChem Laboratories
Inorganics Lab
Logbook 1Q / Copy #5

Elements	Methods SW-846:	CLP:
As / Se	7060 / 7740	206.2 / 270.2
Pb / Tl	7421 / 7841	239.2 / 279.2
Cd	7131	213.2
Ag	7761	272.2
Sb	7041	282.2

Page 1 of 2 Date: 5/8/92

Operator: Debbie Davidy
Case Name MERA13
Filename DPS0508A

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1	491233	DUP	
	ICB			2	491233	ADUP	
1	CRA			3	491232	SPK	
2				4	491232	SPK 1:5	
3				5	491231	1:2	
4				6	491231	A1:2	
5				7	491233	DUP1:2	
6				8	491233	ADUP1:2	
7				9			
8				10	DPS 5/8/92		
9					CCV	S30	
10		DPS 5/8/92			CCB		
*	CCV	S30		1	491240		
	CCB			2	491240	ARSDT	
1	123123			3	491240	A	
2	492218	PBS		4	491230		
3	492218	A		5	491230	A	
4	491234	KCSI:200		6	491238		
5	491234	A1:200		7	491238	A	
6	491234	KCSI:10		8			
7	491234	A1:10		9			
8	491231			10	DPS 5/8/92		
9	491231	A			CCV	S30	
10	123123				CCB		
	CCV AUTOCAL	CCV/CCB					
	CCB					DPS 5/8/92	

* time delay printer out of paper

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours			DPS 5/8/92

INORGANIC CASE
Reviewed By: Laura E. Allen 6 MERA Date: 15/8/92

Furnace AAS Runlog

Elements	Methods SW-846:	CLP:
As / Se	7060 / 7740	206.2 / 270.2
Pb / Tl	7421 / 7841	239.2 / 279.2
Cd	7131	213.2
Ag	7761	272.2
Sb	7041	282.2

CompuChem Laboratories
Inorganics Lab
Logbook 1Q / Copy #5

Page 2 of 2 Date: 5/8/92

Operator: Debbie Spivey
Case Name Same
Filename ↓

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1			
	ICB DPS 5/8/92			2			
1	491241			3			
2	491241	ARSD		4			
3	491241	A		5			
4	491242			6			
5	491242	A		7			
6	491246			8			
7	491246	A		9			
8				10			
9					CCV		
10	DPS 5/8/92				CCB		
	CCV	530		1			
	CCB			2			
1	491238	MSA 10		3			
2	491238	20 30		4			
3	491241	MSA 10		5			
4	491241	20 30		6			
5	491242	MSA 10		7			
6	491242	20 30		8			
7				9			
8				10			
9					CCV		
10		DPS 5/8/92			CCB		
+	CCV	530					
	CCB					DPS 5/8/92	

time delay goes from manual to autosampler

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours			DPS 5/8/92

INORGANIC CASE Reviewed By: Laura E. Blaze MERA Date: 5/8/92

\AADATA\DPS0508A.LOG.1

Analysis Report Blank Sample Thu 05-07-92 11:01:11 PM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/07/92 22:56:20
Comment:
Mode: Abs/Ei Corr. Factor: 1

Elem	Se	As
Avge	.003	.001
SDev	.001	.001
%RSD	22.63	49.13
#1	.003	.002
#2	.004	.001

Standardization Rpt. Thu 05-07-92 11:06:10 PM page 1

Method: CLPSEAS Standard: S30

Elem	Se	As
Avge	.114	.138
SDev	.000	.002
%RSD	.3596	1.724
#1	.114	.139
#2	.114	.136

Standardization Rpt. Thu 05-07-92 11:14:17 PM page 1

Method: CLPSEAS Standard: CRA

Elem	Se	As
Avge	.021	.049
SDev	.001	.005
%RSD	2.874	10.62
#1	.021	.053
#2	.021	.045

Standardization Rpt. Thu 05-07-92 11:19:15 PM page 1

Method: CLPSEAS Standard: S60

Elem	Se	As
Avge	.220	.258
SDev	.004	.005
%RSD	1.667	1.873
#1	.223	.261
#2	.217	.254

Analysis Report QC Standard Thu 05-07-92 11:37:25 PM page 1

Method: CLPSEAS Sample Name: ICV 1:2 Operator:
Run Time: 05/07/92 23:32:34
Comment: ICV SE=50.3 AS=50.4
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	24.98	23.19
SDev	.02	.19
%RSD	.0696	.8169
#1	24.99	23.33
#2	24.97	23.06
Quality	99.3% OK	92.0% OK
Standard	25.15	25.20
Range	10.5%	10.5%

\AADATA\DPS0508A.LOG.2

Analysis Report QC Standard Thu 05-07-92 11:42:22 PM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/07/92 23:37:32
Comment: ICB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.0264	-.2130
SDev	.4631	.1571
%RSD	1758.	73.79
#1	.3011	-.1019
#2	-.3538	-.3241
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report QC Standard Thu 05-07-92 11:47:17 PM page 1

Method: CLPSEAS Sample Name: CRA Operator:
Run Time: 05/07/92 23:42:26
Comment: CRA SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	5.933	10.66
SDev	.694	.54
%RSD	11.70	5.066
#1	5.442	11.04
#2	Q6.424	10.27
Quality	118.7%OK	106.6%OK
Standard	5.000	10.00
Range	20.0%	20.0%

Analysis Report QC Standard Fri 05-08-92 00:04:14 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/07/92 23:59:24
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	33.12	31.82
SDev	.16	.62
%RSD	.4865	1.944
#1	Q33.23	32.26
#2	33.00	31.39
Quality	110.4%OK	106.1%OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\DPS0508A.LOG.3

Analysis Report QC Standard Fri 05-08-92 00:09:12 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/08/92 00:04:22
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.104	.4788
SDev	.379	.4807
%RSD	34.32	100.4
#1	1.372	.8186
#2	.8362	.1389
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report QC Standard Fri 05-08-92 00:16:33 AM page 1

Method: CLPSEAS Sample Name: ~~S30~~ 123123 Operator:
Run Time: 05/08/92 00:11:42
Comment: ~~CCV~~ ~~SE=30~~ ~~AS=30~~
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	Q33.16	31.09
SDev	.94	1.04
%RSD	2.827	3.349
#1	Q33.82	31.82
#2	32.50	30.35
Quality	110.5%HI	103.6%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Omit
RC 5/20/92

Analysis Report Fri 05-08-92 00:23:12 AM page 1

Method: CLPSEAS Sample Name: PBS U1 492218 #10 Operator:
Run Time: 05/08/92 00:18:23
Comment: SDG:MERA13 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.0678	-.5525
SDev	.6282	.6024
%RSD	926.8	109.0
#1	.5120	-.1265
#2	-.3764	-.9784
Limit	LC Pass	LC Pass
Upper	5.000	10.00
Lower	-5.000	-10.00

\AADATA\DPS0508A.LOG.4

Analysis Report Fri 05-08-92 00:31:00 AM page 1

Method: CLPSEAS Sample Name: PBS A1 492218 #11 Operator:
Run Time: 05/08/92 00:26:10
Comment: SDG:MERA13 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	10.89	20.43
SDev	1.11	.79
%RSD	10.24	3.847
#1	11.67	20.98
#2	10.10	19.87

Se 108.9%
As 102.2%

Analysis Report Fri 05-08-92 00:35:54 AM page 1

Method: CLPSEAS Sample Name: LCSS U1 491234 #12 Operator:
Run Time: 05/08/92 00:31:04
Comment: SDG:MERA13 1:200 AS=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.4708	26.50
SDev	.5594	.21
%RSD	118.8	.7825
#1	.0753	26.65
#2	.8664	26.35
Limit	NOCHECK	LC Pass
Upper		29.98
Lower		15.88

Analysis Report Fri 05-08-92 00:40:47 AM page 1

Method: CLPSEAS Sample Name: LCSS A1 491234 #13 Operator:
Run Time: 05/08/92 00:35:58
Comment: SDG:MERA13 1:200 AS=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	14.80	R52.53
SDev	.75	3.38
%RSD	5.100	6.428
#1	15.33	R54.92
#2	14.27	R50.14

As 130.2%

Analysis Report Fri 05-08-92 00:45:45 AM page 1

Method: CLPSEAS Sample Name: LCSS U1 491234 #14 Operator:
Run Time: 05/08/92 00:40:50
Comment: SDG:MERA13 1:10 SE=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	24.59	R212.6
SDev	.75	6.1
%RSD	3.059	2.887
#1	25.13	R216.9
#2	24.06	R208.2
Limit	LC Pass	NOCHECK
Upper	29.70	
Lower	9.550	

\AADATA\DPS0508A.LOG.5

Analysis Report Fri 05-08-92 00:50:41 AM page 1

Method: CLPSEAS Sample Name: LCSS A1 491234 #15 Operator:
Run Time: 05/08/92 00:45:48
Comment: SDG:MERA13 1:10 SE=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	39.90	R222.6
SDev	2.17	5.2
%RSD	5.448	2.356
#1	41.44	R226.3
#2	38.37	R218.8

Se 153.1 %

Analysis Report Fri 05-08-92 01:02:41 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491231 #16 Operator:
Run Time: 05/08/92 00:57:52
Comment: SDG:MERA13 1:1 SE/AS MERA14
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.298	62.58
SDev	1.122	2.36
%RSD	86.45	3.769
#1	2.091	64.24
#2	.5044	60.91

Analysis Report Fri 05-08-92 01:07:33 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491231 #17 Operator:
Run Time: 05/08/92 01:02:44
Comment: SDG:MERA13 1:1 SE/AS MERA14A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	12.52	R88.43
SDev	.50	1.66
%RSD	3.988	1.879
#1	12.87	R89.60
#2	12.17	R87.25

Se 125.2 % W

Analysis Report QC Standard Fri 05-08-92 01:12:38 AM page 1

Method: CLPSEAS Sample Name: ~~S30~~ 123123 Operator:
Run Time: 05/08/92 01:07:48
Comment: ~~CCV~~ ~~SE=30~~ ~~AS=30~~
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	Q33.18	32.05
SDev	.11	.80
%RSD	.3238	2.503
#1	33.11	32.62
#2	Q33.26	31.49
Quality	110.6%HI	106.8%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Omit
RC 5-20-92

\AADATA\DPS0508A.LOG.6

Analysis Report QC Standard Fri 05-08-92 01:20:35 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/08/92 01:15:45
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	32.25	29.04
SDev	5.36	5.78
%RSD	16.63	19.91
#1	Q36.04	33.13
#2	28.46	Q24.95
Quality	107.5%OK	96.8% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 01:25:29 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/08/92 01:20:40
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.2750	-.2099
SDev	.6231	.0218
%RSD	226.6	10.40
#1	.7156	-.2253
#2	-.1656	-.1944
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Standardization Rpt. Fri 05-08-92 01:32:34 AM page 1

Method: CLPSEAS Standard: S30

Elem	Se	As
Avge	.140	.161
SDev	.001	.004
%RSD	.5548	2.327
#1	.140	.164
#2	.139	.159

Analysis Report QC Standard Fri 05-08-92 01:42:09 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/08/92 01:37:18
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	29.74	30.10
SDev	.06	1.51
%RSD	.1991	5.012
#1	29.70	31.17
#2	29.78	29.04
Quality	99.1% OK	100.3%OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\DPS0508A.LOG.7

Analysis Report QC Standard Fri 05-08-92 01:47:05 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/08/92 01:42:16
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.0523	-.1021
SDev	.0478	.2814
%RSD	91.50	275.6
#1	-.0184	.0969
#2	-.0861	-.3011
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report Fri 05-08-92 01:51:58 AM page 1

Method: CLPSEAS Sample Name: DUP U1 491233 #22 Operator:
Run Time: 05/08/92 01:47:08
Comment: SDG:MERA13 1:1 SE/AS MERA14D
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.102	53.57
SDev	.585	1.76
%RSD	53.03	3.277
#1	1.516	54.81
#2	.6891	52.32

Analysis Report Fri 05-08-92 01:56:52 AM page 1

Method: CLPSEAS Sample Name: DUP A1 491233 #23 Operator:
Run Time: 05/08/92 01:52:02
Comment: SDG:MERA13 1:1 SE/AS MERA14DA
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	11.46	R79.77
SDev	1.61	2.16
%RSD	14.07	2.703
#1	12.60	R81.30
#2	10.32	R78.25

Se 114.6%

Analysis Report Fri 05-08-92 02:01:48 AM page 1

Method: CLPSEAS Sample Name: SPK U1 491232 #24 Operator:
Run Time: 05/08/92 01:56:58
Comment: SDG:MERA13 1:1 SE/AS MERA14S
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	7.815	R79.65
SDev	.942	1.99
%RSD	12.05	2.493
#1	8.482	R81.06
#2	7.149	R78.25

Se only

\AADATA\DPS0508A.LOG.8

Analysis Report Fri 05-08-92 02:07:09 AM page 1

Method: CLPSEAS Sample Name: SPK U1 491232 #24 Operator:
Run Time: 05/08/92 02:02:24
Comment: SDG:MERA13 1:5 AS MERA14S
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.538	15.80
SDev	.459	.42
%RSD	29.85	2.654
#1	1.862	16.09
#2	1.213	15.50

As only

Analysis Report Fri 05-08-92 02:12:28 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491231 #16 Operator:
Run Time: 05/08/92 02:07:43
Comment: SDG:MERA13 1:2 AS MERA14
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.0492	24.84
SDev	.0869	.43
%RSD	176.8	1.744
#1	-.0123	25.15
#2	.1107	24.54

Analysis Report Fri 05-08-92 02:20:33 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491231 Operator:
Run Time: 05/08/92 02:15:46
Comment: SDG:MERA13 1:2 AS MERA14A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	8.664	44.51
SDev	2.152	4.07
%RSD	24.83	9.137
#1	10.19	47.39
#2	7.143	41.64

As 98.4%

Analysis Report Fri 05-08-92 02:27:42 AM page 1

Method: CLPSEAS Sample Name: DUP U1 491233 #22 Operator:
Run Time: 05/08/92 02:22:56
Comment: SDG:MERA13 1:2 AS MERA14D
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.1814	24.02
SDev	.5260	.83
%RSD	290.0	3.466
#1	-.5533	24.61
#2	.1906	23.43

\AADATA\DPS0508A.LOG.9

Analysis Report Fri 05-08-92 02:32:57 AM page 1

Method: CLPSEAS Sample Name: DUP A1 491233 Operator:
Run Time: 05/08/92 02:28:11
Comment: SDG:MERA13 1:2 AS MERA14DA
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.173	44.84
SDev	.744	.67
%RSD	8.114	1.484
#1	9.700	45.31
#2	8.647	44.37

104.1%

Analysis Report QC Standard Fri 05-08-92 02:38:12 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/08/92 02:33:21
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	27.40	27.21
SDev	.33	.98
%RSD	1.194	3.611
#1	27.17	27.90
#2	27.63	Q26.51
Quality	91.3% OK	90.7% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 02:43:08 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/08/92 02:38:16
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.4919	.0209
SDev	.5130	.0630
%RSD	104.3	300.5
#1	-.1291	-.0236
#2	-.8546	.0655
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report Fri 05-08-92 02:48:03 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491240 #33 Operator:
Run Time: 05/08/92 02:43:12
Comment: SDG:MERA13 1:1 SE/AS MERA16
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.1814	19.79
SDev	.1000	.58
%RSD	55.13	2.917
#1	-.1107	20.20
#2	-.2521	19.38

\AADATA\DPS0508A.LOG.10

Analysis Report Fri 05-08-92 02:55:47 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491240 #34 Operator:
Run Time: 05/08/92 02:50:57
Comment: SDG:MERA13 1:1 SE/AS MERA16A
Mode: Conc Corr. Factor: 1

RC 5-20-92

Elem	Se	As
Units	ppb	ppb
Avge	7.087	37.01
SDev	1.874	3.86
%RSD	26.44	10.43
#1	8.412	39.74
#2	5.762	34.28

~~Se 70.9%W~~ Se RSD ↑ rerun spike

As 86.1%

Analysis Report Fri 05-08-92 03:01:32 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491240 #34 Operator:
Run Time: 05/08/92 02:56:42
Comment: SDG:MERA13 1:1 SE/AS MERA16A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	10.00	43.21
SDev	.76	2.86
%RSD	7.557	6.624
#1	10.54	45.24
#2	9.469	41.19

Se 100.0%

Analysis Report Fri 05-08-92 03:06:47 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491230 #25 Operator:
Run Time: 05/08/92 03:01:58
Comment: SDG:MERA13 1:1 SE/AS MERA13
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.0338	20.54
SDev	.2304	.78
%RSD	681.5	3.791
#1	.1967	21.09
#2	-.1291	19.99

Analysis Report Fri 05-08-92 03:15:31 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491230 #26 Operator:
Run Time: 05/08/92 03:10:37
Comment: SDG:MERA13 1:1 SE/AS MERA13A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	10.11	42.10
SDev	.22	1.85
%RSD	2.194	4.387
#1	10.27	43.40
#2	9.955	40.79

Se 101.1%

As 107.8%

\AADATA\DPS0508A.LOG.11

Analysis Report Fri 05-08-92 03:20:26 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491238 #27 Operator:
Run Time: 05/08/92 03:15:36
Comment: SDG:MERA13 1:1 SE/AS MERA15
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.2769	14.55
SDev	.6351	.63
%RSD	229.3	4.345
#1	.7260	15.00
#2	-.1722	14.11

Analysis Report Fri 05-08-92 03:25:20 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491238 #28 Operator:
Run Time: 05/08/92 03:20:31
Comment: SDG:MERA13 1:1 SE/AS MERA15A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	10.71	38.25
SDev	1.36	3.68
%RSD	12.71	9.620
#1	11.68	40.86
#2	9.751	35.65

Se 107.1%
As 118.5%, MSA

Analysis Report QC Standard Fri 05-08-92 03:30:27 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/08/92 03:25:38
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	29.79	30.34
SDev	.70	.25
%RSD	2.336	.8397
#1	30.29	30.52
#2	29.30	30.15
Quality	99.3% OK	101.1%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 03:35:24 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/08/92 03:30:33
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.5749	-.7384
SDev	.3608	.4110
%RSD	62.77	55.67
#1	-.3197	-1.029
#2	-.8300	-.4478
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

\AADATA\DPS0508A.LOG.12

Analysis Report Fri 05-08-92 03:40:43 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491241 #35 Operator:
Run Time: 05/08/92 03:35:49
Comment: SDG:MERA13 1:1 SE/AS MERA17
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.281	25.34
SDev	.288	1.21
%RSD	22.49	4.775
#1	1.485	26.20
#2	1.077	24.48

Analysis Report Fri 05-08-92 03:58:30 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491241 #36 Operator:
Run Time: 05/08/92 03:53:37
Comment: SDG:MERA13 1:1 SE/AS MERA17A
Mode: Conc Corr. Factor: 1

RC 5-20-92

Elem	Se	As
Units	ppb	ppb
Avge	6.116	40.24
SDev	1.434	3.54
%RSD	23.45	8.799
#1	7.130	42.75
#2	5.102	37.74

Se ~~61.2% W~~ RSD↑ rerun spike

As 74.5% MSA required

Analysis Report Fri 05-08-92 04:03:37 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491241 #36 Operator:
Run Time: 05/08/92 03:58:48
Comment: SDG:MERA13 1:1 SE/AS MERA17A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	5.998	38.84
SDev	.699	.74
%RSD	11.65	1.909
#1	6.492	39.37
#2	5.504	38.32

Se 60.0% W

Analysis Report Fri 05-08-92 04:08:34 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491242 #37 Operator:
Run Time: 05/08/92 04:03:40
Comment: SDG:MERA13 1:1 SE/AS MERA18
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.3351	23.06
SDev	.2913	1.64
%RSD	86.93	7.125
#1	-.1291	24.23
#2	-.5410	21.90

\AADATA\DPS0508A.LOG.13

Analysis Report Fri 05-08-92 04:18:26 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491242 #38 Operator:
Run Time: 05/08/92 04:13:35
Comment: SDG:MERA13 1:1 SE/AS MERA18A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	7.960	48.61
SDev	.180	.58
%RSD	2.256	1.202
#1	8.087	49.02
#2	7.834	48.19

Se 79.6% W
As 127.8% MSA required

Analysis Report Fri 05-08-92 04:23:24 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491246 #39 Operator:
Run Time: 05/08/92 04:18:32
Comment: SDG:MERA13 1:1 SE/AS MERA19
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.1322	22.49
SDev	.1087	.33
%RSD	82.22	1.453
#1	-.0553	22.73
#2	-.2090	22.26

Analysis Report Fri 05-08-92 04:28:21 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491246 #40 Operator:
Run Time: 05/08/92 04:23:28
Comment: SDG:MERA13 1:1 SE/AS MERA19A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	7.176	40.04
SDev	1.038	.68
%RSD	14.46	1.703
#1	7.910	40.52
#2	6.442	39.55

Se 71.8% W
As 87.8%

Analysis Report QC Standard Fri 05-08-92 04:33:28 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/08/92 04:28:38
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	30.95	30.89
SDev	.91	1.44
%RSD	2.935	4.650
#1	31.59	31.91
#2	30.31	29.88
Quality	103.2%OK	103.0%OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\DPS0508A.LOG.14

Analysis Report QC Standard Fri 05-08-92 04:38:24 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/08/92 04:33:32
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.2459	-.3037
SDev	.1739	.2629
%RSD	70.71	86.56
#1	-.1230	-.1178
#2	-.3689	-.4896
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report Fri 05-08-92 04:46:10 AM page 1

Method: CLPSEAS Sample Name: XXX M0 491238 Operator:
Run Time: 05/08/92 04:43:32
Comment: SDG:MERA13 1:1 AS MERA15
Mode: Abs/Ei Corr. Factor: 1

MSA reported for Asenic

Elem	Se	As
Avge	.003	.061
SDev	.000	.000
%RSD	.0000	.0000
#1	.003	.061

+0

Analysis Report Fri 05-08-92 04:51:03 AM page 1

Method: CLPSEAS Sample Name: XXX M1 491238 Operator:
Run Time: 05/08/92 04:48:23
Comment: SDG:MERA13 1:1 AS MERA15
Mode: Abs/Ei Corr. Factor: 1

MSA reported

Elem	Se	As
Avge	.020	.118
SDev	.000	.000
%RSD	.0000	.0000
#1	.020	.118

+10

~~Omit~~ RC 5-20-92

~~MSA~~

Analysis Report Fri 05-08-92 04:53:55 AM page 1

Method: CLPSEAS Sample Name: XXX M2 491238 Operator:
Run Time: 05/08/92 04:51:16
Comment: SDG:MERA13 1:1 AS MERA15
Mode: Abs/Ei Corr. Factor: 1

Elem	Se	As
Avge	.041	.162
SDev	.000	.000
%RSD	.0000	.0000
#1	.041	.162

+20

\AADATA\DPS0508A.LOG.15

Analysis Report Fri 05-08-92 04:56:43 AM page 1

Method: CLPSEAS Sample Name: XXX M3 491238 Operator:
Run Time: 05/08/92 04:54:04
Comment: SDG:MERA13 1:1 AS MERA15
Mode: Abs/Ei Corr. Factor: 1

Y-int. 0.06510
Slope 0.00476
Sample conc. 13.68 ug/L
Corr. coeff. 0.998

Elem	Se	As
Avge	.061	.205
SDev	.000	.000
%RSD	.0000	.0000
#1	.061	.205

+30 ~~Omit~~ MSA Reported ~~AR~~ RC 5-20-92

Analysis Report Fri 05-08-92 05:00:27 AM page 1

Method: CLPSEAS Sample Name: XXX M0 491241 Operator:
Run Time: 05/08/92 04:57:48
Comment: SDG:MERA13 1:1 SE/AS MERA17
Mode: Abs/Ei Corr. Factor: 1

Elem	Se	As
Avge	-.005	.087
SDev	.000	.000
%RSD	.0000	.0000
#1	-.005	.087

+0

Analysis Report Fri 05-08-92 05:03:25 AM page 1

Method: CLPSEAS Sample Name: XXX M1 491241 Operator:
Run Time: 05/08/92 05:00:46
Comment: SDG:MERA13 1:1 AS MERA17
Mode: Abs/Ei Corr. Factor: 1

Elem	Se	As
Avge	.018	.133
SDev	.000	.000
%RSD	.0000	.0000
#1	.018	.133

+10

Analysis Report Fri 05-08-92 05:06:15 AM page 1

Method: CLPSEAS Sample Name: XXX M2 491241 Operator:
Run Time: 05/08/92 05:03:36
Comment: SDG:MERA13 1:1 AS MERA17
Mode: Abs/Ei Corr. Factor: 1

Elem	Se	As
Avge	.037	.183
SDev	.000	.000
%RSD	.0000	.0000
#1	.037	.183

+20

Analysis Report Fri 05-08-92 05:09:25 AM page 1

Method: CLPSEAS Sample Name: XXX M3 491241 Operator:
Run Time: 05/08/92 05:06:45
Comment: SDG:MERA13 1:1 AS MERA17
Mode: Abs/Ei Corr. Factor: 1

Elem	Se	As
Avge	.071	.251
SDev	.000	.000
%RSD	.0000	.0000
#1	.071	.251

+30

Y-int. 0.08220
Slope 0.00542
Sample conc. 15.17 ug/L
Corr. coeff. 0.996

\AADATA\DPS0508A.LOG.16

Analysis Report Fri 05-08-92 05:13:25 AM page 1

Method: CLPSEAS Sample Name: XXX M0 491242 Operator:
Run Time: 05/08/92 05:10:46
Comment: SDG:MERA13 1:1 AS MERA18
Mode: Abs/Ei Corr. Factor: 1

+0

Elem	Se	As
Avge	.001	.065
SDev	.000	.000
%RSD	.0000	.0000
#1	.001	.065

Analysis Report Fri 05-08-92 05:17:33 AM page 1

Method: CLPSEAS Sample Name: XXX M1 491242 Operator:
Run Time: 05/08/92 05:14:54
Comment: SDG:MERA13 1:1 AS MERA18
Mode: Abs/Ei Corr. Factor: 1

+10

Elem	Se	As
Avge	.016	.097
SDev	.000	.000
%RSD	.0000	.0000
#1	.016	.097

Analysis Report Fri 05-08-92 05:21:14 AM page 1

Method: CLPSEAS Sample Name: XXX M2 491242 Operator:
Run Time: 05/08/92 05:18:35
Comment: SDG:MERA13 1:1 AS MERA18
Mode: Abs/Ei Corr. Factor: 1

+20

Elem	Se	As
Avge	.027	.138
SDev	.000	.000
%RSD	.0000	.0000
#1	.027	.138

Analysis Report Fri 05-08-92 05:25:38 AM page 1

Method: CLPSEAS Sample Name: XXX M3 491242 Operator:
Run Time: 05/08/92 05:22:58
Comment: SDG:MERA13 1:1 AS MERA18
Mode: Abs/Ei Corr. Factor: 1

+30

Elem	Se	As
Avge	.046	.174
SDev	.000	.000
%RSD	.0000	.0000
#1	.046	.174

Y-int. 0.06330
Slope 0.00368
Sample conc. 17.20 ug/L
Corr. coeff. 0.999

\AADATA\DPS0508A.LOG.17

Analysis Report QC Standard Fri 05-08-92 05:33:48 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/08/92 05:28:56
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	30.27	28.69
SDev	.22	1.01
%RSD	.7192	3.531
#1	30.43	29.41
#2	30.12	27.97
Quality	100.9%OK	95.6% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 05:38:43 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/08/92 05:33:54
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.1445	-.4242
SDev	.2217	.7295
%RSD	153.5	172.0
#1	.0123	-.9400
#2	-.3013	.0916
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

*** END OF \AADATA\DPS0508A.LOG ***

A192050 72314

COMPUCHEM LABORATORIES, INC. P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

ATOMIC ABSORPTION RAW DATA PACKAGE

Analyst Debbie Spivey Date 5/8/92 SDG MEL88, MERA13

original data MERA13

	Channel A	Channel B
Element	Pb	Tl
Background Correction	BS	BS
Wavelength	283.3 nm	276.8 nm
Bandwidth	0.5 nm	1.0 nm

AA Spectrophotometer Instrument ID AP

Integration Time 2.7 sec Delay 0.5 sec

Integration Mode peak area

ThermoSpec Method Name: PRODPBTL/846PBTL

Furnace

	Dry	Pyr1	Pyr2	Atom	Clean
Temp	150	350	425	1850	2150
Ramp	2	10	10	0	
Hold	0	1	1	4	1
Purge	Low	Medium	Low	Off	High

Fastac

Aspiration Rate 1.0 mL/min

Delay 10.0 sec Deposition 14.0 sec

Calibration Standards

Source SPEX

Preparation Date 5/7/92

Preparer RCW

Concentration Units ug/L

Matrix Modifier(s) ——

Standard Concentrations

Se	Se
0	0
30	30
3	10
60	60

Performance Check – 30 ug/L STANDARD ABSORBANCES

Channel A 0.201

Channel B 0.115

Correlation Coeff.

Channel A 0.998

Channel B 0.999

INORGANIC CASE

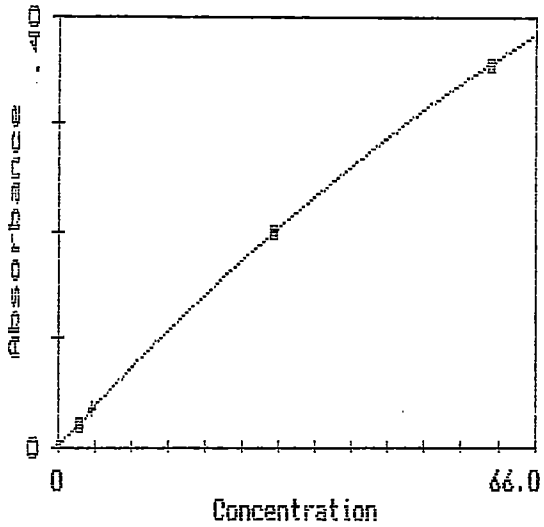
19026 MERA 13

Method: PRODPBTL Element: Pb Wavelength: 283.3 Element 1 of 2

Correlation Coefficient: .997911

Coefficients
a1 = .00742
a2 = -.000025 Abs : .035173
a3 = 0 Conc : 4.81752

Fit Quadratic



Date: 7 May 92 23:32
Slope corr.: 1

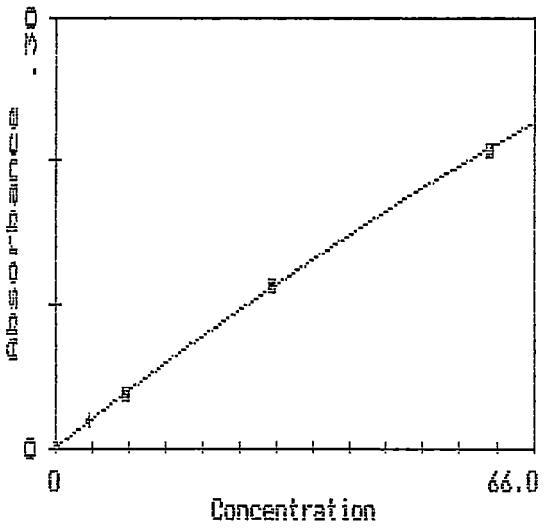
Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.201109	.021641	.355856
Known conc.:	0	30	3	60
Calc. conc.:	0.0000	30.1274	2.94547	59.9191
Residual:	0.0000	.127419	-.05453	-.080898

Method: PRODPBTL Element: Tl Wavelength: 276.8 Element 2 of 2

Correlation Coefficient: .998743

Coefficients
a1 = .004055
a2 = -.000009 Abs : .019316
a3 = 0 Conc : 4.81752

Fit Quadratic



Date: 7 May 92 23:32
Slope corr.: 1

Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.115264	.03037	.200600
Known conc.:	0	30	10	60
Calc. conc.:	0.0000	30.5923	9.67998	59.7184
Residual:	0.0000	.592316	-.320017	-.281643

INORGANIC CASE

Furnace AAS Runlog

Elements	Methods SW-846:	CLP:
As / Se	7060 / 7740	206.2 / 270.2
Pb / Tl	7421 / 7841	239.2 / 279.2
Cd	7131	213.2
Ag	7761	272.2
Sb	7041	282.2

Page 1 of 2 Date: 5/8/92

Operator: Debbie Spurlock

Case Name MERA13

Filename DPS050813

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1	491231		
	ICB			2	491231	A	
1	CRA			3	491233	DUP	
2				4	491233	ADUP	
3				5	491233	1:5 DUP	
4				6	491233	A1:5 DUP	
5				7	491232	SPK	
6				8	491232	SPK1:5	
7				9			
8				10		DPS 5/8/92	
9					CCV	S30	
10		DPS 5/8/92			CCB		
	CCV	S30		1	491230		
	CCB			2	491230	A (bee came off redead)	
1	492218	PBS		3	491238	A DPS 5/8/92	
2	492218	A		4	491238	A DPS 5/8/92	
3	491234	1:50		5	491238	A	
4	491234	A1:50		6	491240		
5	491234	1:10		7	491240	A	
6	491234	A		8	491240	1:5	
7	491231	1:5		9	491240	A1:5 DPS 5/8/92	
8	491231	A1:5		10		DPS 5/8/92	
9					CCV		
10		DPS 5/8/92			CCB		
	CCV	S30					
	CCB					DPS 5/8/92	

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours			DPS 5/8/92

Reviewed By: Laura E. Nixon Date: 5/8/92

INORGANIC CASE

19026 MERA 13

COMPUCHEM LABS LOGBOOK 1N 9

Furnace AAS Runlog

Elements	Methods SW-846:	CLP:
As / Se	7060 / 7740	206.2 / 270.2
Pb / Tl	7421 / 7841	239.2 / 279.2
Cd	7131	213.2
Ag	7761	272.2
Sb	7041	282.2

Page 2 of 2 Date: 5/8/92

Operator: D. Downey

Case Name Same

Filename ↓

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1	490696		
	ICB 0955/8/92			2	490696	A	
1	491241	1:5		3 *	490688	~~DUP~~ 0953/8/92 SPK	
2	491241	A1:5		4	490688	ADUP	
3	491242			5	490688 ~~1:5~~ SPK	DUP	
4	491242	A		6	490688 ~~A1:10~~ A 0955/8/92		
5	491246			7	490688	DUP1:10	
6	491246	A		8	490688	A1:10	
7	491246	1:5		9	123123		
8	491246	A1:5		10	123123		
9					CCV	530	
10	0955/8/92				CCB		
	CCV	530		1	490687	SPK1:10	
	CCB			2			
1	491082	~~DUP~~ 0955/8/92		3			
2	491082	A		4			
3	490689	CSS1:50		5			
4	490689	A		6			
5	490689	CSS1:10		7			
6	490689	A		8			
7	490696	1:10		9			
8	490696	A1:10		10			
9					CCV	530	
10	0955/8/92				CCB		
	CCV	530					
	CCB					0955/8/92	

* bottles were mislabel the duplicate should be spike and same spike should be duplicate

# Injects		#Pst. Dig. Spk.	
# Samples		~~Calib. QC~~	
# Dilutions		QC Samples	
~~Inst. Hours~~		0955/8/92	

Reviewed By: Laura E. Nixon Date: 5/8/92

INORGANIC CASE

19026 MERA 13

169

COMPUCHEM LABS LOGBOOK 1N 9

1175

\AADATA\DPS0508B.LOG.1

Analysis Report Blank Sample Thu 05-07-92 11:14:40 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/07/92 23:10:35
Comment:
Mode: Abs/Ei Corr. Factor: 1

Elem	Pb	Tl
Avge	.023	.027
SDev	.000	.000
%RSD	1.680	.3227
#1	.023	.027
#2	.023	.027

Omit
RC 5-20-92

Analysis Report Blank Sample Thu 05-07-92 11:19:07 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/07/92 23:15:02
Comment:
Mode: Abs/Ei Corr. Factor: 1

Elem	Pb	Tl
Avge	.001	.000
SDev	.001	.001
%RSD	151.7	150.8
#1	-.000	.001
#2	.002	-.000

Standardization Rpt. Thu 05-07-92 11:23:16 PM page 1

Method: PRODPBTL Standard: S30

Elem	Pb	Tl
Avge	.201	.115
SDev	.001	.001
%RSD	.6220	1.048
#1	.202	.116
#2	.200	.114

Standardization Rpt. Thu 05-07-92 11:27:27 PM page 1

Method: PRODPBTL Standard: CRA

Elem	Pb	Tl
Avge	.013	.019
SDev	.016	.027
%RSD	129.2	144.8
#1	.024	.038
#2	.001	-.000

Omit
RC 5-20-92

Standardization Rpt. Thu 05-07-92 11:32:15 PM page 1

Method: PRODPBTL Standard: CRA

Elem	Pb	Tl
Avge	.022	.038
SDev	.000	.000
%RSD	2.193	.5621
#1	.021	.038
#2	.022	.039

\AADATA\DPS0508B.LOG.2

Standardization Rpt. Thu 05-07-92 11:36:27 PM page 1

Method: PRODPBTL Standard: S60

Elem	Pb	Tl
Avge	.356	.209
SDev	.002	.003
%RSD	.6727	1.674
#1	.358	.211
#2	.354	.206

Analysis Report QC Standard Thu 05-07-92 11:44:00 PM page 1

Method: PRODPBTL Sample Name: ICV Operator:
Run Time: 05/07/92 23:39:56
Comment: ICV PB=32.0 TL=20.0
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	33.40	19.88
SDev	.17	.52
%RSD	.5040	2.622
#1	33.52	20.25
#2	33.29	19.51
Quality	104.4%OK	99.4% OK
Standard	32.00	20.00
Range	10.5%	10.5%

Analysis Report QC Standard Thu 05-07-92 11:48:10 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/07/92 23:44:04
Comment: ICB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.3500	.1469
SDev	.0379	.0479
%RSD	10.81	32.64
#1	.3232	.1807
#2	.3767	.1130
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report QC Standard Thu 05-07-92 11:52:20 PM page 1

Method: PRODPBTL Sample Name: CRA Operator:
Run Time: 05/07/92 23:48:14
Comment: CRA PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	2.772	9.692
SDev	.311	.206
%RSD	11.22	2.126
#1	2.552	9.838
#2	2.992	9.546
Quality	92.4% OK	96.9% OK
Standard	3.000	10.00
Range	20.0%	20.0%

\AADATA\DPS0508B.LOG.3

Analysis Report QC Standard Thu 05-07-92 11:56:30 PM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/07/92 23:52:24
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	28.68	29.20
SDev	.46	.50
%RSD	1.604	1.706
#1	29.00	29.55
#2	28.35	28.85
Quality	95.6% OK	97.3% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 00:00:39 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/07/92 23:56:34
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.0453	.4519
SDev	.1077	.1066
%RSD	237.8	23.58
#1	-.1215	.5273
#2	.0309	.3765
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Fri 05-08-92 00:04:50 AM page 1

Method: PRODPBTL Sample Name: PBS U1 492218 #10 Operator:
Run Time: 05/08/92 00:00:46
Comment: SDG:MERA13 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.7874	.1732
SDev	.1314	.2343
%RSD	16.69	135.3
#1	.6944	.3389
#2	.8803	.0075
Limit	LC Pass	LC Pass
Upper	3.000	10.00
Lower	-3.000	-10.00

\AADATA\DPS0508B.LOG.4

Analysis Report Fri 05-08-92 00:08:58 AM page 1

Method: PRODPBTL Sample Name: PBS A1 492218 #11 Operator:
Run Time: 05/08/92 00:04:54
Comment: SDG:MERA13 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	19.92	18.34
SDev	.12	.40
%RSD	.5892	2.155
#1	20.00	18.62
#2	19.84	18.06

Pb 99.6%
Tl 91.7%

Analysis Report Fri 05-08-92 00:13:04 AM page 1

Method: PRODPBTL Sample Name: LCSS U1 491234 #12 Operator:
Run Time: 05/08/92 00:09:02
Comment: SDG:MERA13 1:50 PB=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	22.42	3.111
SDev	.49	.480
%RSD	2.180	15.44
#1	22.77	3.450
#2	22.08	2.771
Limit	LC Pass	NOCHECK
Upper	28.50	
Lower	18.80	

Analysis Report Fri 05-08-92 00:17:13 AM page 1

Method: PRODPBTL Sample Name: LCSS A1 491234 #13 Operator:
Run Time: 05/08/92 00:13:09
Comment: SDG:MERA13 1:50 PB=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	40.71	20.66
SDev	.91	.68
%RSD	2.234	3.302
#1	41.35	21.14
#2	40.06	20.18

Pb 91.4%

Analysis Report Fri 05-08-92 00:21:21 AM page 1

Method: PRODPBTL Sample Name: LCSS U1 491234 #14 Operator:
Run Time: 05/08/92 00:17:17
Comment: SDG:MERA13 1:10 TL=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R104.8	15.32
SDev	1.3	.06
%RSD	1.287	.4107
#1	R105.7	15.28
#2	R103.8	15.37
Limit	NOCHECK	LC Pass
Upper		26.70
Lower		12.30

\AADATA\DPS0508B.LOG.5

Analysis Report Fri 05-08-92 00:25:31 AM page 1

Method: PRODPBTL Sample Name: LCSS A1 491234 #15 Operator:
Run Time: 05/08/92 00:21:27
Comment: SDG:MERA13 1:10 TL=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R117.4	32.93
SDev	.0	.11
%RSD	.0328	.3240
#1	R117.4	32.86
#2	R117.4	33.01

Tl 88.0%

Analysis Report Fri 05-08-92 00:31:47 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491231 #16 Operator:
Run Time: 05/08/92 00:27:43
Comment: SDG:MERA13 1:5 PB MERA14
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	14.77	-.7870
SDev	.31	.4739
%RSD	2.117	60.22
#1	14.99	-1.122
#2	14.55	-.4518

Omit
RC 5-20-92

Analysis Report Fri 05-08-92 00:35:58 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491231 #17 Operator:
Run Time: 05/08/92 00:31:55
Comment: SDG:MERA13 1:5 PB MERA14A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.56	16.95
SDev	.57	.59
%RSD	1.744	3.507
#1	32.96	17.37
#2	32.16	16.53

Analysis Report QC Standard Fri 05-08-92 00:40:19 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/08/92 00:36:16
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	27.24	27.59
SDev	.48	.60
%RSD	1.760	2.166
#1	26.90	27.16
#2	27.58	28.01
Quality	90.8% OK	92.0% OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\DPS0508B.LOG.6

Analysis Report QC Standard Fri 05-08-92 00:44:29 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/08/92 00:40:25
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.3418	-.1054
SDev	.2884	.1704
%RSD	84.36	161.6
#1	.5457	-.2259
#2	.1379	.0151
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Fri 05-08-92 00:48:39 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491231 #22 Operator:
Run Time: 05/08/92 00:44:35
Comment: SDG:MERA13 1:1 PB/TL MERA14
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	C72.56	-1.950
SDev	1.75	.117
%RSD	2.416	6.006
#1	C73.80	-1.868
#2	C71.32	-2.033

Analysis Report Fri 05-08-92 00:52:49 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491231 #23 Operator:
Run Time: 05/08/92 00:48:43
Comment: SDG:MERA13 1:1 PB/TL MERA14A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R89.31	17.34
SDev	2.24	.16
%RSD	2.507	.9337
#1	R90.89	17.46
#2	R87.72	17.23

Tl 86.7%

Analysis Report Fri 05-08-92 00:56:59 AM page 1

Method: PRODPBTL Sample Name: DUP U1 491233 #24 Operator:
Run Time: 05/08/92 00:52:53
Comment: SDG:MERA13 1:1 PB/TL MERA14D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	C66.54	-2.357
SDev	1.69	.213
%RSD	2.533	9.037
#1	C67.73	-2.207
#2	65.34	-2.508

\AADATA\DPS0508B.LOG.7

Analysis Report Fri 05-08-92 01:01:11 AM page 1

Method: PRODPBTL Sample Name: DUP A1 491233 #25 Operator:
Run Time: 05/08/92 00:57:04
Comment: SDG:MERA13 1:1 PB/TL MERA14DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R85.27	16.71
SDev	1.12	.55
%RSD	1.316	3.313
#1	R86.07	17.10
#2	R84.48	16.32

Tl 83.6% W

Analysis Report Fri 05-08-92 01:05:21 AM page 1

Method: PRODPBTL Sample Name: DUP U1 491233 #26 Operator:
Run Time: 05/08/92 01:01:16
Comment: SDG:MERA13 1:5 PB MERA14D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	7.845	-1.092
SDev	.031	.170
%RSD	.3912	15.61
#1	7.823	-1.212
#2	7.866	-.9715

Analysis Report Fri 05-08-92 01:09:29 AM page 1

Method: PRODPBTL Sample Name: DUP A1 491233 #27 Operator:
Run Time: 05/08/92 01:05:26
Comment: SDG:MERA13 1:5 PB MERA14DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	27.18	18.32
SDev	.50	.15
%RSD	1.841	.7931
#1	27.54	18.43
#2	26.83	18.22

Pb 96.7%

Analysis Report Fri 05-08-92 01:13:36 AM page 1

Method: PRODPBTL Sample Name: SPK U1 491232 #28 Operator:
Run Time: 05/08/92 01:09:33
Comment: SDG:MERA13 1:1 PB/TL MERA14S
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	C70.14	39.68
SDev	1.84	.62
%RSD	2.623	1.560
#1	C71.45	40.12
#2	C68.84	39.24

\AADATA\DPS0508B.LOG.8

Analysis Report Fri 05-08-92 01:17:44 AM page 1

Method: PRODPBTL Sample Name: SPK U1 491232 #29 Operator:
Run Time: 05/08/92 01:13:40
Comment: SDG:MERA13 1:5 PB MERA14S
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	14.72	7.292
SDev	.07	.242
%RSD	.4596	3.322
#1	14.77	7.463
#2	14.68	7.121

Analysis Report QC Standard Fri 05-08-92 01:22:06 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/08/92 01:18:02
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	28.93	28.45
SDev	2.02	2.27
%RSD	6.995	7.967
#1	27.50	Q26.84
#2	30.36	30.05
Quality	96.4% OK	94.8% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 01:26:15 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/08/92 01:22:10
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.3747	-.0640
SDev	.0204	.0479
%RSD	5.439	74.87
#1	.3891	-.0979
#2	.3603	-.0301
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Fri 05-08-92 01:30:23 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491230 #34 Operator:
Run Time: 05/08/92 01:26:18
Comment: SDG:MERA13 1:1 PB/TL MERA13
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	37.94	-1.088
SDev	1.20	.208
%RSD	3.158	19.08
#1	38.79	-1.235
#2	37.09	-.9413

\AADATA\DPS0508B.LOG.9

Analysis Report Fri 05-08-92 01:37:15 AM page 1

Method: PRODPBTL Sample Name: XXX A1 ~~491230~~ #35 Operator:
Run Time: 05/08/92 01:33:07
Comment: SDG:MERA13 1:1 PB/TL ~~MERA13A~~ Hose came off during analysis. RC 5-20-92
Mode: Conc Corr. Factor: 1

Omit

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.63	8.447
SDev	40.59	12.22
%RSD	137.0	144.7
#1	58.34	17.09
#2	.9257	-.1958

Analysis Report Fri 05-08-92 01:42:25 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491230 #35 Operator:
Run Time: 05/08/92 01:38:21
Comment: SDG:MERA13 1:1 PB/TL MERA13A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	57.97	16.38
SDev	1.54	1.80
%RSD	2.655	10.96
#1	56.88	15.11
#2	59.06	17.65

Pb 100.2%
Tl 81.9% W

Analysis Report Fri 05-08-92 01:46:45 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491238 #38 Operator:
Run Time: 05/08/92 01:42:43
Comment: SDG:MERA13 1:1 PB/TL MERA15
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	28.79	-1.107
SDev	.85	.053
%RSD	2.948	4.810
#1	29.39	-1.145
#2	28.19	-1.069

Analysis Report Fri 05-08-92 01:50:51 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491238 #39 Operator:
Run Time: 05/08/92 01:46:48
Comment: SDG:MERA13 1:1 PB/TL MERA15A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	48.66	16.82
SDev	.15	.32
%RSD	.3005	1.886
#1	48.76	17.04
#2	48.56	16.59

Pb 99.4%
Tl 84.1% W

\AADATA\DPS0508B.LOG.10

Analysis Report Fri 05-08-92 01:54:59 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491240 #40 Operator:
Run Time: 05/08/92 01:50:55
Comment: SDG:MERA13 1:1 PB/TL MERA16
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.80	-1.510
SDev	1.00	.080
%RSD	3.062	5.290
#1	33.51	-1.566
#2	32.09	-1.453

Analysis Report Fri 05-08-92 01:59:09 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491240 #41 Operator:
Run Time: 05/08/92 01:55:02
Comment: SDG:MERA13 1:1 PB/TL MERA16A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	52.41	16.30
SDev	1.03	.38
%RSD	1.960	2.330
#1	51.68	16.57
#2	53.14	16.03

Pb 98.0 %
Tl 81.5 % W

Analysis Report Fri 05-08-92 02:06:11 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491241 #46 Operator:
Run Time: 05/08/92 02:02:07
Comment: SDG:MERA13 1:1 PB/TL MERA17
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	40.74	-.9978
SDev	1.53	.3355
%RSD	3.750	33.62
#1	41.82	-1.235
#2	39.66	-.7606

Analysis Report Fri 05-08-92 02:10:17 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491241 #47 Operator:
Run Time: 05/08/92 02:06:14
Comment: SDG:MERA13 1:1 PB/TL MERA17A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	61.59	15.88
SDev	1.33	.79
%RSD	2.166	4.990
#1	62.53	16.44
#2	60.64	15.32

Tl 79.4 % W

\AADATA\DPS0508B.LOG.11

Analysis Report QC Standard Fri 05-08-92 02:17:28 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/08/92 02:13:23
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.80	30.01
SDev	.71	.03
%RSD	2.178	.1030
#1	32.29	30.03
#2	Q33.30	29.99
Quality	109.3%OK	100.0%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 02:21:36 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/08/92 02:17:32
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.3273	.1054
SDev	.0873	.2875
%RSD	26.68	272.7
#1	.2656	-.0979
#2	.3891	.3088
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Fri 05-08-92 02:26:02 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491241 #48 Operator:
Run Time: 05/08/92 02:21:58
Comment: SDG:MERA13 1:5 PB MERA17
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	8.957	-.2109
SDev	.083	.4154
%RSD	.9315	197.0
#1	9.016	.0828
#2	8.898	-.5046

Analysis Report Fri 05-08-92 02:34:54 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491241 #49 Operator:
Run Time: 05/08/92 02:30:51
Comment: SDG:MERA13 1:5 PB MERA17A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	28.07	18.16
SDev	2.22	1.20
%RSD	7.910	6.589
#1	29.64	19.00
#2	26.50	17.31

pb 95.6%

\AADATA\DPS0508B.LOG.12

Analysis Report Fri 05-08-92 02:39:04 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491242 #50 Operator:
Run Time: 05/08/92 02:35:02
Comment: SDG:MERA13 1:1 PB/TL MERA18
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	39.18	-1.999
SDev	1.62	.442
%RSD	4.136	22.11
#1	40.33	-1.687
#2	38.04	-2.312

Analysis Report Fri 05-08-92 02:43:13 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491242 #51 Operator:
Run Time: 05/08/92 02:39:09
Comment: SDG:MERA13 1:1 PB/TL MERA18A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	59.02	16.27
SDev	1.80	.40
%RSD	3.056	2.440
#1	60.30	16.55
#2	57.75	15.99

Pb 99.2%
Tl 81.4% W

Analysis Report Fri 05-08-92 02:47:43 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491246 #58 Operator:
Run Time: 05/08/92 02:43:40
Comment: SDG:MERA13 1:1 PB/TL MERA19
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	44.32	-2.018
SDev	1.37	.373
%RSD	3.090	18.47
#1	45.28	-1.755
#2	43.35	-2.282

Analysis Report Fri 05-08-92 02:51:49 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491246 #59 Operator:
Run Time: 05/08/92 02:47:47
Comment: SDG:MERA13 1:1 PB/TL MERA19A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	C65.35	17.52
SDev	2.51	.09
%RSD	3.847	.4958
#1	C67.13	17.58
#2	63.57	17.46

Tl 87.6%

\AADATA\DPS0508B.LOG.13

Analysis Report Fri 05-08-92 02:58:23 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491246 #58 Operator:
Run Time: 05/08/92 02:54:24
Comment: SDG:MERA13 1:5 PB MERA19
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	10.91	-.5234
SDev	.56	.0160
%RSD	5.174	3.052
#1	11.30	-.5121
#2	10.51	-.5347

Analysis Report Fri 05-08-92 03:02:52 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491246 Operator:
Run Time: 05/08/92 02:58:53
Comment: SDG:MERA13 1:5 PB MERA19A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.56	17.26
SDev	.85	.91
%RSD	2.890	5.291
#1	30.16	17.91
#2	28.96	16.62

pb 93.2%

Analysis Report QC Standard Fri 05-08-92 03:07:27 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/08/92 03:03:24
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.66	27.11
SDev	.48	.05
%RSD	1.613	.1796
#1	29.99	27.15
#2	29.32	27.08
Quality	98.9% OK	90.4% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 03:11:35 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/08/92 03:07:30
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.3935	-.1243
SDev	.3497	.1225
%RSD	88.89	98.57
#1	.6407	-.0377
#2	.1462	-.2109
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

\AADATA\DPS0508B.LOG.14

Analysis Report Fri 05-08-92 03:16:04 AM page 1

Method: PRODPBTL Sample Name: PBS U1 491082 #60 Operator:
Run Time: 05/08/92 03:12:00
Comment: SDG:MELW88 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.9201	.2109
SDev	.5411	.2130
%RSD	58.81	101.0
#1	1.303	.3615
#2	.5375	.0602
Limit	LC Pass	LC Pass
Upper	3.000	10.00
Lower	-3.000	-10.00

Analysis Report Fri 05-08-92 03:20:19 AM page 1

Method: PRODPBTL Sample Name: PBS A1 491082 #61 Operator:
Run Time: 05/08/92 03:16:11
Comment: SDG:MELW88 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	21.41	18.71
SDev	.48	.24
%RSD	2.265	1.276
#1	21.75	18.88
#2	21.06	18.54

Analysis Report Fri 05-08-92 03:24:30 AM page 1

Method: PRODPBTL Sample Name: LCSS U1 490689 #62 Operator:
Run Time: 05/08/92 03:20:24
Comment: SDG:MELW88 1:50 PB=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	27.30	3.500
SDev	1.30	.233
%RSD	4.763	6.644
#1	28.22	3.665
#2	26.38	3.336
Limit	LC Pass	NOCHECK
Upper	28.50	
Lower	18.80	

Analysis Report Fri 05-08-92 03:28:37 AM page 1

Method: PRODPBTL Sample Name: LCSS A1 490689 #63 Operator:
Run Time: 05/08/92 03:24:33
Comment: SDG:MELW88 1:50 PB=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	42.00	21.04
SDev	1.06	.41
%RSD	2.527	1.933
#1	42.75	21.32
#2	41.25	20.75

\AADATA\DPS0508B.LOG.15

Analysis Report Fri 05-08-92 03:32:44 AM page 1

Method: PRODPBTL Sample Name: LCSS U1 490689 #64 Operator:
Run Time: 05/08/92 03:28:42
Comment: SDG:MELW88 1:10 TL=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R103.9	16.15
SDev	2.2	1.51
%RSD	2.109	9.328
#1	R105.5	17.21
#2	R102.4	15.08
Limit	NOCHECK	LC Pass
Upper		26.70
Lower		12.30

Analysis Report Fri 05-08-92 03:36:55 AM page 1

Method: PRODPBTL Sample Name: LCSS A1 490689 #65 Operator:
Run Time: 05/08/92 03:32:49
Comment: SDG:MELW88 1:10 TL=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R117.6	33.65
SDev	1.7	.67
%RSD	1.446	2.003
#1	R118.8	34.12
#2	R116.4	33.17

Analysis Report Fri 05-08-92 03:53:53 AM page 1

Method: PRODPBTL Sample Name: XXX U1 490696 #70 Operator:
Run Time: 05/08/92 03:49:53
Comment: SDG:MELW88 1:10 PB MELW91
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	16.51	.1431
SDev	2.07	.2343
%RSD	12.54	163.8
#1	17.98	-.0226
#2	15.05	.3088

Analysis Report Fri 05-08-92 03:58:14 AM page 1

Method: PRODPBTL Sample Name: XXX A1 490696 Operator:
Run Time: 05/08/92 03:54:15
Comment: SDG:MELW88 1:10 PB MELW91A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	34.43	19.45
SDev	1.05	1.56
%RSD	3.046	8.025
#1	35.17	20.55
#2	33.69	18.34

\AADATA\DPS0508B.LOG.16

Analysis Report QC Standard Fri 05-08-92 04:02:52 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/08/92 03:58:49
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.67	29.65
SDev	.73	1.14
%RSD	2.229	3.846
#1	Q33.19	30.46
#2	32.16	28.85
Quality	108.9%OK	98.8% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 04:07:03 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/08/92 04:02:57
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.5811	.0151
SDev	.3356	.1278
%RSD	57.75	848.5
#1	.3438	-.0753
#2	.8184	.1054
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Fri 05-08-92 04:11:12 AM page 1

Method: PRODPBTL Sample Name: XXX U1 490696 #70 Operator:
Run Time: 05/08/92 04:07:08
Comment: SDG:MELW88 1:1 PB/TL MELW91
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	C86.90	-.4293
SDev	25.81	.7242
%RSD	29.70	168.7
#1	C68.65	.0828
#2	R105.1	-.9413

Analysis Report Fri 05-08-92 04:15:19 AM page 1

Method: PRODPBTL Sample Name: XXX A1 490696 #71 Operator:
Run Time: 05/08/92 04:11:16
Comment: SDG:MELW88 1:1 PB/TL MELW91A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R121.1	19.31
SDev	2.7	.63
%RSD	2.247	3.267
#1	R123.0	19.75
#2	R119.1	18.86

\AADATA\DPS0508B.LOG.17

Analysis Report Fri 05-08-92 04:19:28 AM page 1

Method: PRODPBTL Sample Name: DUP U1 490688 #72 Operator:
Run Time: 05/08/92 04:15:24
Comment: SDG:MELW88 1:1 PB/TL MELW91D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R124.9	46.80
SDev	2.2	1.08
%RSD	1.751	2.307
#1	R126.4	47.56
#2	R123.3	46.04

Analysis Report Fri 05-08-92 04:28:01 AM page 1

SDK 490686

Method: PRODPBTL Sample Name: ~~DUP U1 490688~~ #72 Operator:
Run Time: 05/08/92 04:23:56
Comment: SDG:MELW88 1:1 PB/TL MELW91D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R124.1	45.94
SDev	5.4	1.49
%RSD	4.346	3.250
#1	R127.9	46.99
#2	R120.3	44.88

Analysis Report Fri 05-08-92 04:32:10 AM page 1

omit DPS5/8/92

Method: PRODPBTL Sample Name: ~~DUP A1 490688~~ #73 Operator:
Run Time: 05/08/92 04:28:07 123123
Comment: SDG:MELW88 1:1 PB/TL MELW91DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R135.2	64.02
SDev	2.0	1.21
%RSD	1.453	1.892
#1	R136.6	64.88
#2	R133.8	63.16

Analysis Report Fri 05-08-92 04:50:53 AM page 1

Method: PRODPBTL Sample Name: DUP U1 490688 #72 Operator:
Run Time: 05/08/92 04:46:50
Comment: SDG:MELW88 1:1 PB/TL MELW91D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R100.2	-.3991
SDev	4.1	.2876
%RSD	4.103	72.04
#1	R103.1	-.1958
#2	R97.33	-.6025

\AADATA\DPS0508B.LOG.18

Analysis Report Fri 05-08-92 04:54:58 AM page 1

Method: PRODPBTL Sample Name: DUP A1 490688 #73 Operator:
Run Time: 05/08/92 04:50:57
Comment: SDG:MELW88 1:1 PB/TL MELW91DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R114.3	20.11
SDev	1.9	.44
%RSD	1.677	2.187
#1	R115.6	20.43
#2	R112.9	19.80

Analysis Report Fri 05-08-92 05:02:41 AM page 1

Method: PRODPBTL Sample Name: DUP U1 490688 #72 Operator:
Run Time: 05/08/92 04:58:42
Comment: SDG:MELW88 1:10 PB MELW91D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	12.89	-.0226
SDev	.60	.2556
%RSD	4.637	1131.
#1	13.32	.1581
#2	12.47	-.2033

Analysis Report Fri 05-08-92 05:07:02 AM page 1

Method: PRODPBTL Sample Name: DUP A1 490688 Operator:
Run Time: 05/08/92 05:03:04
Comment: SDG:MELW88 1:10 PB MELW91DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	33.29	20.55
SDev	1.19	.14
%RSD	3.567	.6578
#1	34.13	20.64
#2	32.45	20.45

Analysis Report QC Standard Fri 05-08-92 05:13:56 AM page 1

Method: PRODPBTL Sample Name: ~~S30~~ 123123 Operator:
Run Time: 05/08/92 05:09:52
Comment: ~~ccv~~ PB=30 TL=30
Mode: Conc Corr. Factor: 1

Omit
RC 5-20-92

Elem	Pb	Tl
Units	ppb	ppb
Avge	Q16.56	Q15.61
SDev	22.58	22.25
%RSD	136.3	142.5
#1	32.53	31.34
#2	Q.5994	Q-.1205
Quality	55.2% LO	52.0% LO
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\DPS0508B.LOG.19

Analysis Report QC Standard Fri 05-08-92 05:18:49 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/08/92 05:14:44
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	31.01	30.20
SDev	.39	.45
%RSD	1.264	1.495
#1	31.29	30.52
#2	30.74	29.88
Quality	103.4%OK	100.7%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 05:22:57 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/08/92 05:18:53
Comment: CCB
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	Q1.004	Q-.0075
SDev	.170	.2450
%RSD	16.90	3253.
#1	Q1.125	Q.1657
#2	Q.8844	Q-.1807
Quality	~~3.3% LO~~	~~-0.0% LO~~ RC 5-20-92
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report Fri 05-08-92 05:27:43 AM page 1

Method: PRODPBTL Sample Name: SPK U1 490687 #74 Operator:
Run Time: 05/08/92 05:23:42
Comment: SDG:MELW88 1:10 PB MELW91S
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	14.79	4.739
SDev	.49	.217
%RSD	3.293	4.590
#1	15.13	4.892
#2	14.44	4.585

\AADATA\DPS0508B.LOG.20

Analysis Report QC Standard Fri 05-08-92 05:31:59 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/08/92 05:27:55
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.62	29.68
SDev	.91	.62
%RSD	3.081	2.098
#1	30.26	30.12
#2	28.97	29.24
Quality	98.7% OK	98.9% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Fri 05-08-92 05:36:10 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/08/92 05:32:04
Comment: CCB
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	Q1.021	Q.2222
SDev	.082	.1012
%RSD	8.036	45.54
#1	Q.9629	Q.2937
#2	Q1.079	Q.1506
Quality	~~3.4% LO~~	~~0.7% LO~~
Standard	30.00	30.00
Range	10.5%	10.5%

5-20-92

RC

*** END OF \AADATA\DPS0508B.LOG ***

A1 9205202330

COMPUCHEM LABORATORIES, INC. P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

ATOMIC ABSORPTION RAW DATA PACKAGE

Analyst Debbie Spivey Date 5/21/92 SDG MERA13, MEQK30

original data located in MEQK30

	Channel A	Channel B
Element	Pb	Tl
Background Correction	BS	BS
Wavelength	283.3 nm	276.8 nm
Bandwidth	0.5 nm	1.0 nm

AA Spectrophotometer Instrument ID A1

Integration Time 2.7 sec Delay 0.5 sec

Integration Mode peak area

ThermoSpec Method Name: PRODPBTL/846PBTL

Furnace

	Dry	Pyr1	Pyr2	Atom	Clean
Temp	150	350	425	1850	2150
Ramp	2	10	10	0	
Hold	0	1	1	4	1
Purge	Low	Medium	Low	Off	High

Fastac

Aspiration Rate 1.0 mL/min

Delay 10.0 sec Deposition 14.0 sec

Calibration Standards

Source SPEX

Preparation Date RCW

Preparer 5/20/92

Concentration Units ug/L

Matrix Modifier(s) —

Standard Concentrations

Se	Se
0	0
30	30
3	10
60	60

Performance Check – 30 ug/L STANDARD ABSORBANCES

Channel A 0.148

Channel B 0.103

Correlation Coeff.

Channel A 0.999

Channel B 0.100

INORGANIC CASE

19026 MERA 13

Furnace AAS Runlog

Elements	Methods SW-846:	CLP:
As / Se	7060 / 7740	206.2 / 270.2
Pb / Tl	7421 / 7841	239.2 / 279.2
Cd	7131	213.2
Ag	7761	272.2
Sb	7041	282.2

Page 1 of 2 Date: 5/21/92

Operator: NO Bowley

Case Name MERA13 MBSK30

Filename DP5052/B

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1	493503	DUP	
	ICB			2	493503	A	
1	CRA			3	493503	1:10	
2				4	493503	A1:10	
3				5	493502	SPK	
4				6	493502	SPK1:2	
5				7	493501	"	
6				8	493501	A "	
7				9	493508		
8				10	493508	A	
9					CCV	S30	
10		DPS 5/21/92			CCB		
	CCV	S30		1	493509		
	CCB			2	493509	A	
1	491231	1:5		3	493510		
2	491231	A1:5		4	493510	A	
3	494878	DBLD		5	493842		
4	494878	A		6	493842	A	
5	493504	LCSWD		7	493843		
6	493504	A		8	493843	A	
7	493500			9			
8	493500	A		10	DPS 5/21/92		
9	493500	1:10			CCV	S30	
10	493500	A1:10			CCB		
	CCV	S30					
	CCB					DPS 5/21/92	

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours		DPS 5/21/92	

NORGANIC CASE Reviewed By: 19026 MERA 13 Date: 5-21-92

Furnace AAS Runlog

Elements	Methods SW-846:	CLP:
As / Se	7060 / 7740	206.2 / 270.2
Pb / Tl	7421 / 7841	239.2 / 279.2
Cd	7131	213.2
Ag	7761	272.2
Sb	7041	282.2

Page 2 of 2 Date: 5/21/92

Operator: D. Spivey
Case Name Same
Filename Same

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1	494056		
	ICB DPS 5/21/92			2	494056		
1	493844			3	494057		
2	493844	A		4	494057	A	
3	493845			5	494058		
4	493845	A		6	494058	A	
5	493846			7	494058 DPS 5/21/92		
6	493846	A		8	494059	A	
7	493847			9	123123		
8	493847	A		10	DPS 5/21/92		
9	DPS 5/21/92			*	CCV	330	
10					CCB		
	CCV	330		1	494090		
	CCB			2	494090	A	
1	493848			3	494090	1:10	
2	493848	A		4	494090	A 1:10	
3	493849			5	493849	1:20	
4	493849	A		6	493849	A 1:20	
5	493850			7			
6	493850	A		8			
7	493851			9			
8	493851	A		10	DPS 5/21/92		
9	DPS 5/21/92				CCV	330	
10					CCB		
	CCV	330					
	CCB					DPS 5/21/92	

Home delay printer out. of paper

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours			DPS 5/21/92

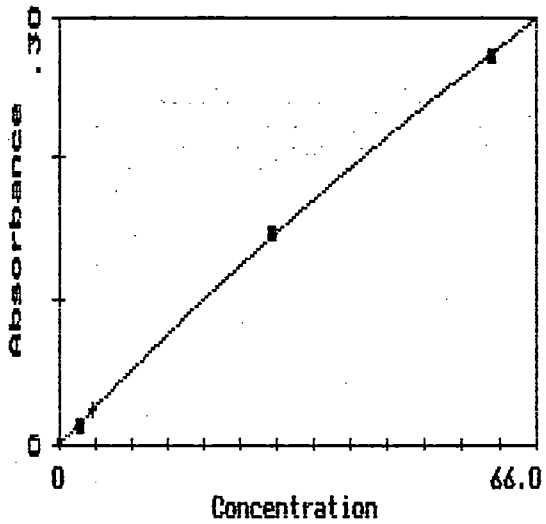
INORGANIC CASE Reviewed By 19026 MERA Date 5-21-92

Method: PRODPBTL Element: Pb Wavelength: 283.3 Element 1 of 2

Correlation Coefficient: .999329

Coefficients
a1 = .005137
a2 = -.000009 Abs : .024529
a3 = 0 Conc : 4.81752

Fit Quadratic



Date: 20 May 92 23:39
Slope corr.: 1

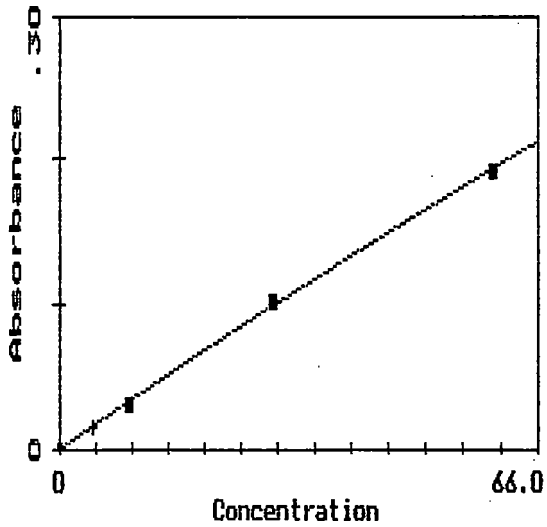
Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.147595	.01432	.273625
Known conc.:	0	30	3	60
Calc. conc.:	0.0000	30.4181	2.80217	59.7746
Residual:	0.0000	.418074	-.197829	-.225422

Method: PRODPBTL Element: Tl Wavelength: 276.8 Element 2 of 2

Correlation Coefficient: .999506

Coefficients
a1 = .003454
a2 = -.000003 Abs : .016561
a3 = 0 Conc : 4.81752

Fit Quadratic



Date: 20 May 92 23:39
Slope corr.: 1

Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.103444	.032438	.193606
Known conc.:	0	30	10	60
Calc. conc.:	0.0000	30.9044	9.48048	59.6141
Residual:	0.0000	.904362	-.519525	-.385918

Furnace AA Analysis Report for \AADATA\DPS0521B.AA Page 1

Start Date: 05-20-92 Element: PB Instrument ID: A1

Time	Samp Type	Lab ID	An'sis Code	Dilution Factor	Conc/Abs	1Pt.MSA or %R	Xon 14?	Post	Comment
23:30	STD		STD	1.00	0.000	0.0	Yes	NO	OK
23:34	STD		STD	1.00	30.000	0.0	Yes	NO	OK
23:38	STD		STD	1.00	3.000	0.0	Yes	NO	OK
23:43	STD		STD	1.00	60.000	0.0	Yes	NO	OK
23:56	ICV		QC	1.00	34.520	0.0	Yes	Yes	OK
00:00	ICB		QC	1.00	-0.032	0.0	Yes	Yes	OK
00:04	CRA		QC	1.00	2.460	0.0	Yes	Yes	OK
00:09	CCV		QC	1.00	30.210	0.0	Yes	Yes	OK
00:13	CCB		QC	1.00	0.747	0.0	Yes	Yes	OK
00:18	XXX	491231	Sample	5.00	14.090	0.0	Yes	Yes	OK
00:22	XXX	491231	Spike	5.00	35.820	108.6	Yes	NO	OK
00:26	PBW	494878	Sample	1.00	1.333	0.0	Yes	Yes	OK
00:30	PBW	494878	Spike	1.00	21.300	106.5	Yes	NO	OK
00:35	LCSW	493504	Sample	1.00	32.220	0.0	Yes	Yes	Spike failure
00:39	LCSW	493504	Spike	1.00	53.430	0.0	Yes	Yes	Spike failure
00:43	XXX	493500	Sample	1.00	125.200	0.0	NO	NO	Con Hi, Dilute
00:47	XXX	493500	Spike	1.00	137.700	-9999.9	NO	NO	OK
01:01	XXX	493500	Sample	10.00	15.500	0.0	Yes	Yes	OK
01:06	XXX	493500	Spike	10.00	35.340	99.2	Yes	NO	OK
01:10	CCV		QC	1.00	30.550	0.0	Yes	Yes	OK
01:14	CCB		QC	1.00	0.381	0.0	Yes	Yes	OK
01:18	DUP	493503	Sample	1.00	116.700	0.0	NO	NO	Con Hi, Dilute
01:22	DUP	493503	Spike	1.00	129.400	-9999.9	NO	NO	OK
01:32	DUP	493503	Sample	10.00	15.500	0.0	Yes	Yes	OK
01:40	DUP	493503	Spike	10.00	35.910	102.0	Yes	NO	OK
01:44	SPK	493502	Sample	1.00	126.000	0.0	NO	NO	Con Hi, Dilute
01:49	SPK	493502	Sample	5.00	30.340	0.0	Yes	Yes	OK
01:54	XXX	493501	Sample	1.00	1.554	0.0	Yes	Yes	OK
01:58	XXX	493501	Spike	1.00	18.380	91.9	Yes	NO	OK
02:02	XXX	493508	Sample	1.00	1.405	0.0	Yes	Yes	OK
02:06	XXX	493508	Spike	1.00	21.390	106.9	Yes	NO	OK
02:10	CCV		QC	1.00	31.070	0.0	Yes	Yes	OK
02:14	CCB		QC	1.00	-0.424	0.0	Yes	Yes	OK
02:19	XXX	493509	Sample	1.00	7.742	0.0	Yes	Yes	OK
02:23	XXX	493509	Spike	1.00	27.690	99.7	Yes	NO	OK
02:27	XXX	493510	Sample	1.00	0.443	0.0	Yes	Yes	OK
02:31	XXX	493510	Spike	1.00	20.780	103.9	Yes	NO	OK
02:35	XXX	493842	Sample	1.00	8.691	0.0	Yes	Yes	OK
02:39	XXX	493842	Spike	1.00	29.880	105.9	Yes	NO	OK
02:43	XXX	493843	Sample	1.00	0.610	0.0	Yes	Yes	OK
02:47	XXX	493843	Spike	1.00	20.370	101.8	Yes	NO	OK
02:52	CCV		QC	1.00	29.920	0.0	Yes	Yes	OK
02:56	CCB		QC	1.00	-0.710	0.0	Yes	Yes	OK
03:00	XXX	493844	Sample	1.00	0.226	0.0	Yes	Yes	OK
03:04	XXX	493844	Spike	1.00	20.040	100.2	Yes	NO	OK
03:08	XXX	493845	Sample	1.00	0.416	0.0	Yes	Yes	OK
03:12	XXX	493845	Spike	1.00	20.250	101.2	Yes	NO	OK
03:17	XXX	493846	Sample	1.00	3.159	0.0	Yes	Yes	OK
03:21	XXX	493846	Spike	1.00	23.280	116.4	Yes	NO	OK
03:25	XXX	493847	Sample	1.00	2.182	0.0	Yes	Yes	OK
03:29	XXX	493847	Spike	1.00	22.990	114.9	Yes	NO	OK

Furnace AA Analysis Report for \AADATA\DPS0521B.AA Page 2

Start Date: 05-20-92 Element: PB Instrument ID: A1

Time	Samp Type	Lab ID	An'sis Code	Dilution Factor	Conc/Abs	1Pt.MSA or %R	Xon 14?	Post	Comment
*****	****	******	******	********	*********	*******	***	****	**********
03:34	CCV		QC	1.00	30.920	0.0	Yes	Yes	OK
03:38	CCB		QC	1.00	-0.490	0.0	Yes	Yes	OK
03:42	XXX	493848	Sample	1.00	8.363	0.0	Yes	Yes	OK
03:46	XXX	493848	Spike	1.00	27.070	93.5	Yes	NO	OK
03:50	XXX	493849	Sample	1.00	240.100	0.0	NO	NO	Con Hi, Dilute
03:54	XXX	493849	Spike	1.00	249.500	-9999.9	NO	NO	OK
04:04	XXX	493850	Sample	1.00	7.565	0.0	Yes	Yes	OK
04:08	XXX	493850	Spike	1.00	27.040	97.4	Yes	NO	OK
04:12	XXX	493851	Sample	1.00	0.877	0.0	Yes	Yes	OK
04:16	XXX	493851	Spike	1.00	21.690	108.4	Yes	NO	OK
04:21	CCV		QC	1.00	30.020	0.0	Yes	Yes	OK
04:25	CCB		QC	1.00	-1.030	0.0	Yes	Yes	OK
04:29	XXX	494086	Sample	1.00	1.000	0.0	Yes	Yes	OK
04:33	XXX	494086	Spike	1.00	19.070	95.3	Yes	NO	OK
04:37	XXX	494087	Sample	1.00	1.160	0.0	Yes	Yes	OK
04:42	XXX	494087	Spike	1.00	22.070	110.3	Yes	NO	OK
04:46	XXX	494088	Sample	1.00	0.413	0.0	Yes	Yes	OK
04:50	XXX	494088	Spike	1.00	19.650	98.2	Yes	NO	OK
04:54	XXX	494089	Sample	1.00	3.054	0.0	Yes	Yes	OK
04:58	XXX	494089	Spike	1.00	19.430	97.1	Yes	NO	OK
05:03	CCV		QC	1.00	29.160	0.0	no	no	Z OUT*********
05:10	CCV		QC	1.00	31.280	0.0	Yes	Yes	OK
05:14	CCB		QC	1.00	-0.793	0.0	Yes	Yes	OK
05:19	XXX	494090	Sample	1.00	142.600	0.0	NO	NO	Con Hi, Dilute
05:23	XXX	494090	Spike	1.00	128.400	-9999.9	NO	NO	OK
05:33	XXX	494090	Sample	10.00	16.930	0.0	Yes	Yes	OK
05:37	XXX	494090	Spike	10.00	38.850	109.6	Yes	NO	OK
05:45	XXX	493849	Sample	20.00	22.640	0.0	Yes	Yes	OK
05:52	XXX	493849	Spike	20.00	44.550	109.5	Yes	NO	OK
05:56	CCV		QC	1.00	32.590	0.0	Yes	Yes	OK
06:00	CCB		QC	1.00	-0.086	0.0	Yes	Yes	OK

Furnace AA Analysis Report for \AADATA\DPS0521B.AA Page 3

Start Date: 05-20-92 Element: TL Instrument ID: A1

Time	Samp Type	Lab ID	An'sis Code	Dilution Factor	Conc/Abs	1Pt.MSA or %R	Xon 14?	Post	Comment
23:30	STD		STD	1.00	0.000	0.0	Yes	NO	OK
23:34	STD		STD	1.00	30.000	0.0	Yes	NO	OK
23:38	STD		STD	1.00	10.000	0.0	Yes	NO	OK
23:43	STD		STD	1.00	60.000	0.0	Yes	NO	OK
23:56	ICV		QC	1.00	20.580	0.0	Yes	Yes	OK
00:00	ICB		QC	1.00	-0.097	0.0	Yes	Yes	OK
00:04	CRA		QC	1.00	9.625	0.0	Yes	Yes	OK
00:09	CCV		QC	1.00	30.760	0.0	Yes	Yes	OK
00:13	CCB		QC	1.00	-0.110	0.0	Yes	Yes	OK
00:18	XXX	491231	Sample	5.00	0.000	0.0	NO	NO	N/A
00:22	XXX	491231	Spike	5.00	0.000	0.0	NO	NO	N/A
00:26	PBW	494878	Sample	1.00	0.049	0.0	Yes	Yes	OK
00:30	PBW	494878	Spike	1.00	19.990	99.9	Yes	NO	OK
00:35	LCSW	493504	Sample	1.00	19.020	0.0	Yes	Yes	Spike failure
00:39	LCSW	493504	Spike	1.00	38.710	-9999.9	NO	NO	OK
00:43	XXX	493500	Sample	1.00	-1.900	0.0	Yes	Yes	OK
00:47	XXX	493500	Spike	1.00	13.900	69.5	Yes	NO	OK
01:01	XXX	493500	Sample	10.00	0.000	0.0	NO	NO	N/A
01:06	XXX	493500	Spike	10.00	0.000	0.0	NO	NO	N/A
01:10	CCV		QC	1.00	30.730	0.0	Yes	Yes	OK
01:14	CCB		QC	1.00	-0.066	0.0	Yes	Yes	OK
01:18	DUP	493503	Sample	1.00	-3.590	0.0	Yes	Yes	OK
01:22	DUP	493503	Spike	1.00	11.210	56.0	Yes	NO	OK
01:32	DUP	493503	Sample	10.00	0.000	0.0	NO	NO	N/A
01:40	DUP	493503	Spike	10.00	0.000	0.0	NO	NO	N/A
01:44	SPK	493502	Sample	1.00	26.310	0.0	Yes	Yes	OK
01:49	SPK	493502	Sample	5.00	0.000	0.0	NO	NO	N/A
01:54	XXX	493501	Sample	1.00	-1.000	0.0	Yes	Yes	OK
01:58	XXX	493501	Spike	1.00	12.870	64.3	Yes	NO	OK
02:02	XXX	493508	Sample	1.00	-1.180	0.0	Yes	Yes	OK
02:06	XXX	493508	Spike	1.00	10.720	53.6	Yes	NO	OK
02:10	CCV		QC	1.00	30.660	0.0	Yes	Yes	OK
02:14	CCB		QC	1.00	-0.627	0.0	Yes	Yes	OK
02:19	XXX	493509	Sample	1.00	-0.843	0.0	Yes	Yes	OK
02:23	XXX	493509	Spike	1.00	11.670	58.3	Yes	NO	OK
02:27	XXX	493510	Sample	1.00	-0.662	0.0	Yes	Yes	OK
02:31	XXX	493510	Spike	1.00	10.460	52.3	Yes	NO	OK
02:35	XXX	493842	Sample	1.00	-0.344	0.0	Yes	Yes	OK
02:39	XXX	493842	Spike	1.00	14.610	73.0	Yes	NO	OK
02:43	XXX	493843	Sample	1.00	-0.397	0.0	Yes	Yes	OK
02:47	XXX	493843	Spike	1.00	8.599	43.0	Yes	NO	OK
02:52	CCV		QC	1.00	28.640	0.0	Yes	Yes	OK
02:56	CCB		QC	1.00	-0.083	0.0	Yes	Yes	OK
03:00	XXX	493844	Sample	1.00	-0.901	0.0	Yes	Yes	OK
03:04	XXX	493844	Spike	1.00	9.359	46.8	Yes	NO	OK
03:08	XXX	493845	Sample	1.00	-0.406	0.0	Yes	Yes	OK
03:12	XXX	493845	Spike	1.00	8.873	44.4	Yes	NO	OK
03:17	XXX	493846	Sample	1.00	-1.480	0.0	Yes	Yes	OK
03:21	XXX	493846	Spike	1.00	16.290	81.4	Yes	NO	OK
03:25	XXX	493847	Sample	1.00	-0.759	0.0	Yes	Yes	OK
03:29	XXX	493847	Spike	1.00	9.323	46.6	Yes	NO	OK

Furnace AA Analysis Report for \AADATA\DPS0521B.AA Page 4

Start Date: 05-20-92 Element: TL Instrument ID: A1

Time	Samp Type	Lab ID	An'sis Code	Dilution Factor	Conc/Abs	1Pt.MSA or %R	Xon 14?	Post	Comment
*****	****	******	******	********	*********	*******	***	****	**********
03:34	CCV		QC	1.00	28.860	0.0	Yes	Yes	OK
03:38	CCB		QC	1.00	-0.278	0.0	Yes	Yes	OK
03:42	XXX	493848	Sample	1.00	-1.030	0.0	Yes	Yes	OK
03:46	XXX	493848	Spike	1.00	16.230	81.1	Yes	NO	OK
03:50	XXX	493849	Sample	1.00	-4.120	0.0	Yes	Yes	OK
03:54	XXX	493849	Spike	1.00	9.026	45.1	Yes	NO	OK
04:04	XXX	493850	Sample	1.00	-0.856	0.0	Yes	Yes	OK
04:08	XXX	493850	Spike	1.00	11.560	57.8	Yes	NO	OK
04:12	XXX	493851	Sample	1.00	-0.636	0.0	Yes	Yes	OK
04:16	XXX	493851	Spike	1.00	9.634	48.2	Yes	NO	OK
04:21	CCV		QC	1.00	28.530	0.0	Yes	Yes	OK
04:25	CCB		QC	1.00	-0.530	0.0	Yes	Yes	OK
04:29	XXX	494086	Sample	1.00	-0.273	0.0	Yes	Yes	OK
04:33	XXX	494086	Spike	1.00	9.377	46.9	Yes	NO	OK
04:37	XXX	494087	Sample	1.00	-0.481	0.0	Yes	Yes	OK
04:42	XXX	494087	Spike	1.00	18.410	92.0	Yes	NO	OK
04:46	XXX	494088	Sample	1.00	-0.680	0.0	Yes	Yes	OK
04:50	XXX	494088	Spike	1.00	8.352	41.8	Yes	NO	OK
04:54	XXX	494089	Sample	1.00	-0.194	0.0	Yes	Yes	OK
04:58	XXX	494089	Spike	1.00	9.760	48.8	Yes	NO	OK
05:03	CCV		QC	1.00	26.390	0.0	NO	NO	Z OUT*********
05:10	CCV		QC	1.00	28.890	0.0	Yes	Yes	OK
05:14	CCB		QC	1.00	-0.441	0.0	Yes	Yes	OK
05:19	XXX	494090	Sample	1.00	3.562	0.0	Yes	Yes	Spike failure
05:23	XXX	494090	Spike	1.00	-4.390	-39.8	NO	NO	%R <40, Dilute
05:33	XXX	494090	Sample	10.00	-1.910	0.0	Yes	Yes	OK
05:37	XXX	494090	Spike	10.00	10.260	51.3	Yes	NO	OK
05:45	XXX	493849	Sample	20.00	0.000	0.0	NO	NO	N/A
05:52	XXX	493849	Spike	20.00	0.000	0.0	NO	NO	N/A
05:56	CCV		QC	1.00	30.410	0.0	Yes	Yes	OK
06:00	CCB		QC	1.00	-0.560	0.0	Yes	Yes	OK

\AADATA\DPS0521B.LOG.1

Analysis Report Blank Sample Wed 05-20-92 11:30:39 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/20/92 23:26:35
Comment:
Mode: Abs/Ei Corr. Factor: 1

Elem	Pb	Tl
Avge	.005	.004
SDev	.001	.000
%RSD	15.56	12.12
#1	.004	.003
#2	.005	.004

Standardization Rpt. Wed 05-20-92 11:34:47 PM page 1

Method: PRODPBTL Standard: S30

Elem	Pb	Tl
Avge	.148	.103
SDev	.004	.003
%RSD	2.747	3.294
#1	.150	.106
#2	.145	.101

Standardization Rpt. Wed 05-20-92 11:38:55 PM page 1

Method: PRODPBTL Standard: CRA

Elem	Pb	Tl
Avge	.014	.032
SDev	.000	.000
%RSD	1.657	.1330
#1	.014	.032
#2	.014	.032

Standardization Rpt. Wed 05-20-92 11:43:04 PM page 1

Method: PRODPBTL Standard: S60

Elem	Pb	Tl
Avge	.274	.194
SDev	.004	.003
%RSD	1.435	1.805
#1	.276	.196
#2	.271	.191

Analysis Report QC Standard Wed 05-20-92 11:56:41 PM page 1

Method: PRODPBTL Sample Name: ICV Operator:
Run Time: 05/20/92 23:52:37
Comment: ICV PB=32.0 TL=20.0
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	34.52	20.58
SDev	.08	.38
%RSD	.2365	1.867
#1	34.57	20.31
#2	34.46	20.86
Quality	107.9%OK	102.9%OK
Standard	32.00	20.00
Range	10.5%	10.5%

\AADATA\DPS0521B.LOG.2

Analysis Report QC Standard Thu 05-21-92 00:00:49 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/20/92 23:56:46
Comment: ICB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.0327	-.0972
SDev	.2227	.0562
%RSD	681.4	57.85
#1	.1248	-.0574
#2	-.1902	-.1369
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report QC Standard Thu 05-21-92 00:04:59 AM page 1

Method: PRODPBTL Sample Name: CRA Operator:
Run Time: 05/21/92 00:00:54
Comment: CRA PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	2.460	9.625
SDev	.140	.624
%RSD	5.684	6.483
#1	Q2.362	10.07
#2	2.559	9.183
Quality	82.0% OK	96.2% OK
Standard	3.000	10.00
Range	20.0%	20.0%

Analysis Report QC Standard Thu 05-21-92 00:09:10 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 00:05:05
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.21	30.76
SDev	.37	.72
%RSD	1.234	2.336
#1	29.95	30.26
#2	30.48	31.27
Quality	100.7%OK	102.5%OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\DPS0521B.LOG.3

Analysis Report QC Standard Thu 05-21-92 00:13:19 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/21/92 00:09:17
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.7467	-.1104
SDev	.6694	.1374
%RSD	89.65	124.5
#1	1.220	-.0133
#2	.2734	-.2076
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Thu 05-21-92 00:18:29 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491231 #10 Operator:
Run Time: 05/21/92 00:14:25
Comment: SDG:MERA13 1:5 PB MERA14
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	14.09	-.8745
SDev	.41	.4560
%RSD	2.920	52.14
#1	13.80	-.5521
#2	14.38	-1.197

Analysis Report Thu 05-21-92 00:22:35 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491231 #11 Operator:
Run Time: 05/21/92 00:18:33
Comment: SDG:MERA13 1:5 PB MERA14A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	35.82	19.64
SDev	.60	.60
%RSD	1.671	3.079
#1	36.24	20.06
#2	35.40	19.21

Pb 108.6%

Analysis Report Thu 05-21-92 00:26:45 AM page 1

Method: PRODPBTL Sample Name: PBW U1 494878 #12 Operator:
Run Time: 05/21/92 00:22:42
Comment: SDG:MEQK30 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	1.333	.0486
SDev	.160	.2499
%RSD	12.02	514.3
#1	1.220	-.1281
#2	1.447	.2253
Limit	LC Pass	LC Pass
Upper	3.000	10.00
Lower	-3.000	-10.00

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Analysis Report Thu 05-21-92 00:30:56 AM page 1

Method: PRODPBTL Sample Name: PBW A1 494878 #13 Operator:
Run Time: 05/21/92 00:26:52
Comment: SDG:MEQK30 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	21.30	19.99
SDev	.46	.37
%RSD	2.179	1.854
#1	21.63	20.26
#2	20.97	19.73

Analysis Report Thu 05-21-92 00:35:07 AM page 1

Method: PRODPBTL Sample Name: LCSW U1 493504 #14 Operator:
Run Time: 05/21/92 00:31:04
Comment: SDG:MEQK30 1:1 PB=LCSF TL=LCSF
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.22	19.02
SDev	.85	.07
%RSD	2.628	.3754
#1	32.81	19.07
#2	31.62	18.97
Limit	LC Pass	LC Pass
Upper	38.53	24.08
Lower	25.44	15.90

Analysis Report Thu 05-21-92 00:39:17 AM page 1

Method: PRODPBTL Sample Name: LCSW A1 493504 #15 Operator:
Run Time: 05/21/92 00:35:11
Comment: SDG:MEQK30 1:1 PB=LCSF TL=LCSF
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	53.43	38.71
SDev	2.34	.41
%RSD	4.371	1.049
#1	51.78	38.42
#2	55.08	38.99

Analysis Report Thu 05-21-92 00:43:23 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493500 #16 Operator:
Run Time: 05/21/92 00:39:20
Comment: SDG:MEQK30 1:1 PB/TL MEQK30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R125.2	-1.904
SDev	2.6	.762
%RSD	2.046	40.03
#1	R127.1	-1.365
#2	R123.4	-2.443

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Analysis Report Thu 05-21-92 00:47:29 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493500 #17 Operator:
Run Time: 05/21/92 00:43:26
Comment: SDG:MEQK30 1:1 PB/TL MEQK30A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R137.7	13.90
SDev	1.1	.08
%RSD	.8018	.5542
#1	R138.5	13.96
#2	R136.9	13.85

Analysis Report Thu 05-21-92 01:01:12 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493500 #16 Operator:
Run Time: 05/21/92 00:57:12
Comment: SDG:MEQK30 1:10 PB MEQK30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	15.50	-1.391
SDev	.04	.100
%RSD	.2872	7.183
#1	15.53	-1.462
#2	15.47	-1.321

Analysis Report Thu 05-21-92 01:06:01 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493500 Operator:
Run Time: 05/21/92 01:02:03
Comment: SDG:MEQK30 1:10 PB MEQK30A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	35.34	18.63
SDev	.72	.27
%RSD	2.046	1.462
#1	35.85	18.82
#2	34.83	18.44

Analysis Report QC Standard Thu 05-21-92 01:10:15 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 01:06:12
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.55	30.73
SDev	.64	.88
%RSD	2.103	2.880
#1	31.01	31.36
#2	30.10	30.10
Quality	101.8%OK	102.4%OK
Standard	30.00	30.00
Range	10.5%	10.5%

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Analysis Report QC Standard Thu 05-21-92 01:14:24 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/21/92 01:10:19
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.3809	-.0663
SDev	.9169	.6621
%RSD	240.7	999.4
#1	1.029	-.5344
#2	-.2674	.4019
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Thu 05-21-92 01:18:35 AM page 1

Method: PRODPBTL Sample Name: DUP U1 493503 #22 Operator:
Run Time: 05/21/92 01:14:28
Comment: SDG:MEQK30 1:1 PB/TL MEQK30D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R116.7	-3.591
SDev	.5	1.174
%RSD	.4179	32.70
#1	R117.1	-2.761
#2	R116.4	-4.421

Analysis Report Thu 05-21-92 01:22:42 AM page 1

Method: PRODPBTL Sample Name: DUP A1 493503 #23 Operator:
Run Time: 05/21/92 01:18:38
Comment: SDG:MEQK30 1:1 PB/TL MEQK30DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R129.4	11.21
SDev	1.5	.96
%RSD	1.160	8.545
#1	R130.4	11.89
#2	R128.3	10.53

Analysis Report Thu 05-21-92 01:32:39 AM page 1

Method: PRODPBTL Sample Name: DUP U1 493503 #22 Operator:
Run Time: 05/21/92 01:28:40
Comment: SDG:MEQK30 1:10 PB MEQK30D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	15.50	-1.771
SDev	.41	.237
%RSD	2.642	13.40
#1	15.79	-1.603
#2	15.21	-1.939

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Analysis Report Thu 05-21-92 01:40:09 AM page 1

Method: PRODPBTL Sample Name: DUP A1 493503 Operator:
Run Time: 05/21/92 01:36:11
Comment: SDG:MEQK30 1:10 PB MEQK30DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	35.91	18.54
SDev	.32	.44
%RSD	.8878	2.379
#1	36.13	18.85
#2	35.68	18.23

Analysis Report Thu 05-21-92 01:44:42 AM page 1

Method: PRODPBTL Sample Name: SPK U1 493502 #24 Operator:
Run Time: 05/21/92 01:40:39
Comment: SDG:MEQK30 1:1 PB/TL MEQK30S
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R126.0	26.31
SDev	2.6	.94
%RSD	2.076	3.583
#1	R127.8	26.98
#2	R124.1	25.64

Analysis Report Thu 05-21-92 01:49:23 AM page 1

Method: PRODPBTL Sample Name: SPK U1 493502 #24 Operator:
Run Time: 05/21/92 01:45:25
Comment: SDG:MEQK30 1:5 PB MEQK30S
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.34	5.099
SDev	.40	.240
%RSD	1.322	4.701
#1	30.63	4.929
#2	30.06	5.268

Analysis Report Thu 05-21-92 01:54:04 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493501 #25 Operator:
Run Time: 05/21/92 01:50:02
Comment: SDG:MEQK30 1:1 PB/TL MEQK34
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	1.554	-1.003
SDev	.194	.400
%RSD	12.50	39.87
#1	1.417	-.7200
#2	1.692	-1.285

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Analysis Report Thu 05-21-92 01:58:13 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493501 #26 Operator:
Run Time: 05/21/92 01:54:11
Comment: SDG:MEQK30 1:1 PB/TL MEQK34A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	18.38	12.87
SDev	.06	.32
%RSD	.3185	2.490
#1	18.42	13.09
#2	18.34	12.64

Analysis Report Thu 05-21-92 02:02:20 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493508 #27 Operator:
Run Time: 05/21/92 01:58:16
Comment: SDG:MEQK30 1:1 PB/TL MEQK36
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	1.405	-1.184
SDev	.228	.094
%RSD	16.22	7.915
#1	1.566	-1.250
#2	1.244	-1.117

Analysis Report Thu 05-21-92 02:06:28 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493508 #28 Operator:
Run Time: 05/21/92 02:02:26
Comment: SDG:MEQK30 1:1 PB/TL MEQK36A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	21.39	10.72
SDev	.06	.17
%RSD	.2981	1.608
#1	21.44	10.84
#2	21.34	10.60

Analysis Report QC Standard Thu 05-21-92 02:10:48 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 02:06:46
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	31.07	30.66
SDev	.27	.41
%RSD	.8534	1.324
#1	30.88	30.38
#2	31.25	30.95
Quality	103.6%OK	102.2%OK
Standard	30.00	30.00
Range	10.5%	10.5%

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Analysis Report QC Standard Thu 05-21-92 02:14:57 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/21/92 02:10:54
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.4249	-.6272
SDev	.0126	.3061
%RSD	2.967	48.80
#1	-.4160	-.4108
#2	-.4338	-.8436
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Thu 05-21-92 02:19:05 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493509 #33 Operator:
Run Time: 05/21/92 02:15:01
Comment: SDG:MEQK30 1:1 PB/TL MEQK38
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	7.742	-.8436
SDev	.281	.2748
%RSD	3.627	32.58
#1	7.941	-1.038
#2	7.544	-.6493

Analysis Report Thu 05-21-92 02:23:11 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493509 #34 Operator:
Run Time: 05/21/92 02:19:09
Comment: SDG:MEQK30 1:1 PB/TL MEQK38A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	27.69	11.67
SDev	.89	.28
%RSD	3.221	2.410
#1	28.32	11.87
#2	27.06	11.47

Analysis Report Thu 05-21-92 02:27:16 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493510 #35 Operator:
Run Time: 05/21/92 02:23:15
Comment: SDG:MEQK30 1:1 PB/TL MEQK42
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.4428	-.6625
SDev	.0630	.3436
%RSD	14.24	51.85
#1	.4873	-.4196
#2	.3982	-.9055

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Analysis Report Thu 05-21-92 02:31:23 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493510 #36 Operator:
Run Time: 05/21/92 02:27:21
Comment: SDG:MEQK30 1:1 PB/TL MEQK42A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	20.78	10.46
SDev	.28	.30
%RSD	1.334	2.866
#1	20.97	10.67
#2	20.58	10.25

Analysis Report Thu 05-21-92 02:35:30 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493842 #37 Operator:
Run Time: 05/21/92 02:31:28
Comment: SDG:MEQK30 1:1 PB/TL MEQK44
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	8.691	-.3445
SDev	.369	.4435
%RSD	4.240	128.7
#1	8.952	-.0309
#2	8.431	-.6581

Analysis Report Thu 05-21-92 02:39:36 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493842 #38 Operator:
Run Time: 05/21/92 02:35:33
Comment: SDG:MEQK30 1:1 PB/TL MEQK44A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.88	14.61
SDev	.80	.24
%RSD	2.681	1.630
#1	30.44	14.44
#2	29.31	14.77

Analysis Report Thu 05-21-92 02:43:45 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493843 #39 Operator:
Run Time: 05/21/92 02:39:39
Comment: SDG:MEQK30 1:1 PB/TL MEQK46
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.6097	-.3975
SDev	.5849	.0437
%RSD	95.93	11.00
#1	1.023	-.4284
#2	.1961	-.3666

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Analysis Report Thu 05-21-92 02:47:51 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493843 #40 Operator:
Run Time: 05/21/92 02:43:49
Comment: SDG:MEQK30 1:1 PB/TL MEQK46A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	20.37	8.599
SDev	.75	.241
%RSD	3.673	2.807
#1	20.90	8.429
#2	19.84	8.770

Analysis Report QC Standard Thu 05-21-92 02:52:15 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 02:48:12
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.92	28.64
SDev	.27	.52
%RSD	.9136	1.804
#1	30.11	28.28
#2	29.72	29.01
Quality	99.7% OK	95.5% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Thu 05-21-92 02:56:24 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/21/92 02:52:20
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.7102	-.0839
SDev	.0294	.6496
%RSD	4.142	774.1
#1	-.7310	-.5433
#2	-.6894	.3754
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Thu 05-21-92 03:00:33 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493844 #45 Operator:
Run Time: 05/21/92 02:56:29
Comment: SDG:MEQK30 1:1 PB/TL MEQK48
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.2258	-.9010
SDev	.0756	.4060
%RSD	33.49	45.06
#1	.2793	-.6139
#2	.1723	-1.188

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Analysis Report Thu 05-21-92 03:04:39 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493844 #46 Operator:
Run Time: 05/21/92 03:00:37
Comment: SDG:MEQK30 1:1 PB/TL MEQK48A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	20.04	9.359
SDev	1.25	.312
%RSD	6.237	3.332
#1	20.93	9.579
#2	19.16	9.139

Analysis Report Thu 05-21-92 03:08:50 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493845 #47 Operator:
Run Time: 05/21/92 03:04:46
Comment: SDG:MEQK30 1:1 PB/TL MEQK50
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.4160	-.4064
SDev	.0756	.2811
%RSD	18.18	69.17
#1	.3625	-.2076
#2	.4695	-.6051

Analysis Report Thu 05-21-92 03:12:58 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493845 #48 Operator:
Run Time: 05/21/92 03:08:56
Comment: SDG:MEQK30 1:1 PB/TL MEQK50A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	20.25	8.873
SDev	.88	.261
%RSD	4.365	2.937
#1	20.88	8.689
#2	19.63	9.058

Analysis Report Thu 05-21-92 03:17:06 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493846 #49 Operator:
Run Time: 05/21/92 03:13:04
Comment: SDG:MEQK30 1:1 PB/TL MEQK52
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	3.159	-1.488
SDev	.017	.537
%RSD	.5377	36.09
#1	3.147	-1.109
#2	3.171	-1.868

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Analysis Report Thu 05-21-92 03:21:16 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493846 #50 Operator:
Run Time: 05/21/92 03:17:13
Comment: SDG:MEQK30 1:1 PB/TL MEQK52A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	23.28	16.29
SDev	.90	.35
%RSD	3.862	2.140
#1	23.92	16.53
#2	22.65	16.04

Analysis Report Thu 05-21-92 03:25:24 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493847 #51 Operator:
Run Time: 05/21/92 03:21:19
Comment: SDG:MEQK30 1:1 PB/TL MEQK54
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	2.182	-.7597
SDev	.008	.6309
%RSD	.3879	83.04
#1	2.176	-1.206
#2	2.188	-.3136

Analysis Report Thu 05-21-92 03:29:33 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493847 #52 Operator:
Run Time: 05/21/92 03:25:29
Comment: SDG:MEQK30 1:1 PB/TL MEQK54A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	22.99	9.323
SDev	1.20	.515
%RSD	5.223	5.528
#1	23.84	9.688
#2	22.14	8.959

Analysis Report QC Standard Thu 05-21-92 03:34:00 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 03:29:57
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.92	28.86
SDev	.64	1.67
%RSD	2.081	5.787
#1	30.46	27.68
#2	31.37	30.04
Quality	103.1%OK	96.2% OK
Standard	30.00	30.00
Range	10.5%	10.5%

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Analysis Report QC Standard Thu 05-21-92 03:38:09 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/21/92 03:34:05
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.4903	-.2783
SDev	.1807	.0250
%RSD	36.86	8.979
#1	-.3625	-.2606
#2	-.6181	-.2959
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Thu 05-21-92 03:42:21 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493848 #57 Operator:
Run Time: 05/21/92 03:38:17
Comment: SDG:MEQK30 1:1 PB/TL MEQK56
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	8.363	-1.038
SDev	.095	.112
%RSD	1.139	10.83
#1	8.431	-.9585
#2	8.296	-1.117

Analysis Report Thu 05-21-92 03:46:29 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493848 #58 Operator:
Run Time: 05/21/92 03:42:26
Comment: SDG:MEQK30 1:1 PB/TL MEQK56A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	27.07	16.23
SDev	.71	.66
%RSD	2.616	4.096
#1	26.57	15.76
#2	27.57	16.70

Analysis Report Thu 05-21-92 03:50:41 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493849 #59 Operator:
Run Time: 05/21/92 03:46:35
Comment: SDG:MEQK30 1:1 PB/TL MEQK60
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R240.1	-4.121
SDev	5.6	.575
%RSD	2.322	13.95
#1	R236.1	-3.715
#2	R244.0	-4.527

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Analysis Report Thu 05-21-92 03:54:54 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493849 #60 Operator:
Run Time: 05/21/92 03:50:49
Comment: SDG:MEQK30 1:1 PB/TL MEQK60A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R249.5	9.026
SDev	.4	.134
%RSD	.1568	1.479
#1	R249.7	9.121
#2	R249.2	8.932

Analysis Report Thu 05-21-92 04:04:34 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493850 #61 Operator:
Run Time: 05/21/92 04:00:31
Comment: SDG:MEQK30 1:1 PB/TL MEQK62
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	7.565	-.8569
SDev	.065	.0812
%RSD	.8558	9.477
#1	7.611	-.9143
#2	7.519	-.7995

Analysis Report Thu 05-21-92 04:08:42 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493850 #62 Operator:
Run Time: 05/21/92 04:04:39
Comment: SDG:MEQK30 1:1 PB/TL MEQK62A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	27.04	11.56
SDev	.19	.06
%RSD	.6890	.4976
#1	27.17	11.60
#2	26.91	11.52

Analysis Report Thu 05-21-92 04:12:49 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493851 #63 Operator:
Run Time: 05/21/92 04:08:47
Comment: SDG:MEQK30 1:1 PB/TL MEQK64
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.8773	-.6360
SDev	.0463	.4310
%RSD	5.278	67.76
#1	.9100	-.3313
#2	.8445	-.9408

\AADATA\DPS0521B.LOG.16

Analysis Report Thu 05-21-92 04:16:55 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493851 #64 Operator:
Run Time: 05/21/92 04:12:53
Comment: SDG:MEQK30 1:1 PB/TL MEQK64A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	21.69	9.634
SDev	.30	.624
%RSD	1.387	6.477
#1	21.91	9.192
#2	21.48	10.07

Analysis Report QC Standard Thu 05-21-92 04:21:18 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 04:17:15
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.02	28.53
SDev	.63	1.55
%RSD	2.088	5.432
#1	29.58	27.43
#2	30.46	29.63
Quality	100.1%OK	95.1% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Thu 05-21-92 04:25:28 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/21/92 04:21:24
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-1.034	-.5300
SDev	.328	.0437
%RSD	31.70	8.250
#1	-.8023	-.5609
#2	-1.266	-.4991
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Thu 05-21-92 04:29:37 AM page 1

Method: PRODPBTL Sample Name: XXX U1 494086 #69 Operator:
Run Time: 05/21/92 04:25:33
Comment: SDG:MEQK30 1:1 PB/TL MEQK58
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.9996	-.2738
SDev	.3793	.2436
%RSD	37.94	88.96
#1	1.268	-.1016
#2	.7314	-.4461

\AADATA\DPS0521B.LOG.17

Analysis Report Thu 05-21-92 04:33:44 AM page 1

Method: PRODPBTL Sample Name: XXX A1 494086 #70 Operator:
Run Time: 05/21/92 04:29:41
Comment: SDG:MEQK30 1:1 PB/TL MEQK58A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	19.07	9.377
SDev	.18	.070
%RSD	.9228	.7465
#1	19.19	9.327
#2	18.94	9.426

Analysis Report Thu 05-21-92 04:37:54 AM page 1

Method: PRODPBTL Sample Name: XXX U1 494087 #71 Operator:
Run Time: 05/21/92 04:33:50
Comment: SDG:MEQK30 1:1 PB/TL MEQK66
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	1.160	-.4814
SDev	.371	.3498
%RSD	31.97	72.66
#1	.8981	-.2341
#2	1.423	-.7288

Analysis Report Thu 05-21-92 04:42:01 AM page 1

Method: PRODPBTL Sample Name: XXX A1 494087 #72 Operator:
Run Time: 05/21/92 04:37:57
Comment: SDG:MEQK30 1:1 PB/TL MEQK66A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	22.07	18.41
SDev	1.17	.51
%RSD	5.295	2.782
#1	22.90	18.77
#2	21.25	18.04

Analysis Report Thu 05-21-92 04:46:08 AM page 1

Method: PRODPBTL Sample Name: XXX U1 494088 #73 Operator:
Run Time: 05/21/92 04:42:06
Comment: SDG:MEQK30 1:1 PB/TL MEQK68
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.4130	-.6802
SDev	.0462	.0062
%RSD	11.19	.9183
#1	.4457	-.6758
#2	.3804	-.6846

\AADATA\DPS0521B.LOG.18

Analysis Report Thu 05-21-92 04:50:14 AM page 1

Method: PRODPBTL Sample Name: XXX A1 494088 #74 Operator:
Run Time: 05/21/92 04:46:12
Comment: SDG:MEQK30 1:1 PB/TL MEQK68A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	19.65	8.352
SDev	1.09	.197
%RSD	5.523	2.357
#1	18.88	8.213
#2	20.42	8.491

Analysis Report Thu 05-21-92 04:54:24 AM page 1

Method: PRODPBTL Sample Name: XXX U1 494089 #75 Operator:
Run Time: 05/21/92 04:50:18
Comment: SDG:MEQK30 1:1 PB/TL MEQK70
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	3.054	-.1943
SDev	.132	.4935
%RSD	4.311	253.9
#1	3.147	-.5433
#2	2.961	.1546

Analysis Report Thu 05-21-92 04:58:38 AM page 1

Method: PRODPBTL Sample Name: XXX A1 494089 #76 Operator:
Run Time: 05/21/92 04:54:33
Comment: SDG:MEQK30 1:1 PB/TL MEQK70A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	19.43	9.760
SDev	.54	.051
%RSD	2.767	.5221
#1	19.81	9.724
#2	19.05	9.796

Analysis Report QC Standard Thu 05-21-92 05:03:02 AM page 1

Method: PRODPBTL Sample Name: ~~S30~~ Operator:
Run Time: 05/21/92 04:58:58
Comment: ~~CCV PB=30 TL=30~~
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.16	Q26.39
SDev	1.13	.22
%RSD	3.882	.8242
#1	29.96	Q26.55
#2	28.36	Q26.24
Quality	97.2% OK	88.0% LO
Standard	30.00	30.00
Range	10.5%	10.5%

Omit
5-21-92

INORGANIC CASE

19026 MERA 13

\AADATA\DPS0521B.LOG.19

Analysis Report QC Standard Thu 05-21-92 05:10:14 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 05:06:11
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	31.28	28.89
SDev	.36	1.03
%RSD	1.136	3.580
#1	31.03	28.15
#2	31.53	29.62
Quality	104.3%OK	96.3% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report Thu 05-21-92 05:14:39 AM page 1

Method: PRODPBTL Sample Name: S00 Operator:
Run Time: 05/21/92 05:10:21
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.7934	-.4417
SDev	.3572	.1062
%RSD	45.02	24.04
#1	-.5408	-.3666
#2	-1.046	-.5168
Limit	NOCHECK	NOCHECK
Upper		
Lower		

Analysis Report Thu 05-21-92 05:19:02 AM page 1

Method: PRODPBTL Sample Name: XXX U1 494090 #81 Operator:
Run Time: 05/21/92 05:14:57
Comment: SDG:MEQK30 1:1 PB/TL MEQK72
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R142.6	3.562
SDev	1.4	.157
%RSD	.9470	4.414
#1	R143.6	3.451
#2	R141.7	3.673

Analysis Report Thu 05-21-92 05:23:14 AM page 1

Method: PRODPBTL Sample Name: XXX A1 494090 #82 Operator:
Run Time: 05/21/92 05:19:08
Comment: SDG:MEQK30 1:1 PB/TL MEQK72A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R128.4	-4.395
SDev	2.9	.300
%RSD	2.233	6.822
#1	R130.5	-4.607
#2	R126.4	-4.183

\AADATA\DPS0521B.LOG.20

Analysis Report Thu 05-21-92 05:33:22 AM page 1

Method: PRODPBTL Sample Name: XXX U1 494090 #81 Operator:
Run Time: 05/21/92 05:29:23
Comment: SDG:MEQK30 1:10 PB/TL MEQK72
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	16.93	-1.917
SDev	.71	.044
%RSD	4.204	2.281
#1	17.43	-1.886
#2	16.42	-1.948

Analysis Report Thu 05-21-92 05:37:40 AM page 1

Method: PRODPBTL Sample Name: XXX A1 494090 Operator:
Run Time: 05/21/92 05:33:40
Comment: SDG:MEQK30 1:10 PB/TL MEQK72A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	38.85	10.26
SDev	.82	.37
%RSD	2.115	3.602
#1	39.43	10.53
#2	38.27	10.00

Analysis Report Thu 05-21-92 05:45:21 AM page 1

Method: PRODPBTL Sample Name: XXX U1 493849 #59 Operator:
Run Time: 05/21/92 05:41:21
Comment: SDG:MEQK30 1:20 PB MEQK60
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	22.64	-1.193
SDev	.59	.094
%RSD	2.627	7.857
#1	23.06	-1.126
#2	22.22	-1.259

Analysis Report Thu 05-21-92 05:52:03 AM page 1

Method: PRODPBTL Sample Name: XXX A1 493849 Operator:
Run Time: 05/21/92 05:48:04
Comment: SDG:MEQK30 1:20 PB MEQK60A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	44.55	17.62
SDev	.44	.07
%RSD	.9788	.4041
#1	44.85	17.67
#2	44.24	17.57

\AADATA\DPS0521B.LOG.21

Analysis Report QC Standard Thu 05-21-92 05:56:20 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/21/92 05:52:16
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.59	30.41
SDev	.79	.00
%RSD	2.427	.0000
#1	33.14	30.41
#2	32.03	30.41
Quality	108.6%OK	101.4%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Thu 05-21-92 06:00:29 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/21/92 05:56:24
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.0862	-.5609
SDev	.3572	.1374
%RSD	414.5	24.50
#1	.1664	-.4638
#2	-.3388	-.6581
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

*** END OF \AADATA\DPS0521B.LOG ***

JAA 5/7/92

~~MERAIB~~ MERA13 (1)

Folder: JAA0506
18:19:33 06 May 1992 Protocol: HG

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

*** Standard: 1 Rep: 1 Seq: 25 18:19:33 06 May 1992

Hg .0000 PPB -752
Ave. Int. = -752 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 26 18:21:56 06 May 1992

Hg .5000 PPB 9437
Ave. Int. = 9437 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 27 18:24:18 06 May 1992

Hg 1.000 PPB 18785
Ave. Int. = 18785 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 28 18:26:40 06 May 1992

Hg 3.000 PPB 52897
Ave. Int. = 52897 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 29 18:29:02 06 May 1992

Hg 5.000 PPB 88795
Ave. Int. = 88795 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 30 18:31:36 06 May 1992

Hg 10.00 PPB 168080
Ave. Int. = 168080 S. D. = 0

Hg Analysis
Automated Cold Vapor by Leeman PS200
5/6/92 1819
QC: ICV-5 (0689)
T=5 (d.f. 1:2 T=2.5)
CCV: T=3
units = µg/L
corr = 0.9995
pages = 1-5
JC 19026 MERA 13

2

Protocol: HG

Rev: 1.281 Time: 18:31:45 06 May 1992

Folder: JA06506 Seq: 31 Print: On

User: Batch: Id: Std6Rep1 Cup: 7 Gas: .25 LPM

State: Idle Macro AUTOHG 79 : F3 Print Xmit: Off Autosampler: On

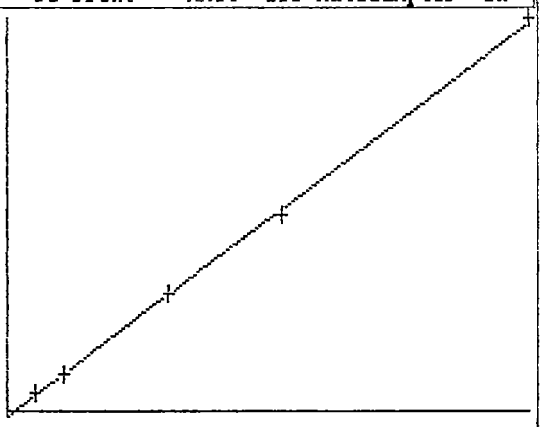
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear	
S1	.0000	-.1276	-.1276	Quadratic	
S2	.5000	.4766	-.0234	WtdLinear	
S3	1.000	1.031	.0309		C
S4	3.000	3.054	.0537	Accept	o
S5	5.000	5.182	.1825	Every	n
S6	10.00	9.884	-.1160		c

A .00000 r .999531

B 5.9299e-05 C -8.3040e-02



Relative Absorbance

	Mean	%RSD	
S1	-752	0	-752
S2	9437	0	9437
S3	18785	0	18785
S4	52897	0	52897
S5	88795	0	88795
S6	168000	0	168000

New cal coefficients stored 0 129 2 5

3

Folder: JAA0506 ~~Page 6~~

18:34:23 06 May 1992 Protocol: HG

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

*** Check Standard: 3 1:2 KC 5-20-92 Seq: 31 18:34:23 06 May 1992 ICV

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		84.74	2.118	~~2.500~~ 5.000	PPB	.0000

*** Check Standard: 1 Seq: 32 18:36:44 06 May 1992 ICB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.1613	.2000	PPB	.0000

*** Check Standard: 2 Seq: 33 18:39:02 06 May 1992 CCV

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.3	3.039	3.000	PPB	.0000

*** Check Standard: 1 Seq: 34 18:41:26 06 May 1992 CCB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0888	.2000	PPB	.0000

*** Sample ID: 492218 Seq: 35 18:43:43 06 May 1992

PBS

Hg	-.1154	PPB	.0000	-.1154

*** Sample ID: 491234 Seq: 36 18:45:59 06 May 1992

LCSS 1:5

Hg	4.167	PPB	.0000	4.167

*** Sample ID: 491231 Seq: 37 18:48:24 06 May 1992

MERA14

Hg	-.0092	PPB	.0000	-.0092

*** Sample ID: 491232 Seq: 38 18:50:40 06 May 1992

SS(491231)

Hg	1.058	PPB	.0000	1.058

*** Sample ID: 491233 Seq: 39 18:52:58 06 May 1992

D(491231)

Hg	-.0053	PPB	.0000	-.0053

*** Sample ID: 491230 Seq: 40 18:55:13 06 May 1992

MERA13

Hg	-.0706	PPB	.0000	-.0706

*** Sample ID: 491238 Seq: 41 18:57:29 06 May 1992

MERA15

Hg	-.1291	PPB	.0000	-.1291

*** Sample ID: 491240 Seq: 42 18:59:44 06 May 1992

MERA16

Hg	-.0906	PPB	.0000	-.0906

(4)

~~Page 7~~

Folder: JAA0506
19:02:00 06 May 1992 Protocol: HG

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

*** Sample ID: 491241 Seq: 43 19:02:00 06 May 1992
MERA17
Hg -.0639 PPB .0000 -.0639

*** Sample ID: 491242 Seq: 44 19:04:16 06 May 1992
MERA18
Hg -.1313 PPB .0000 -.1313

*** Check Standard: 2 Seq: 45 19:06:33 06 May 1992 CCV

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.5	3.194	3.000	PPB	.0000

*** Check Standard: 1 Seq: 46 19:08:55 06 May 1992 CCB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0023	.2000	PPB	.0000

*** Sample ID: 491246 Seq: 47 19:11:12 06 May 1992
MERA19
Hg .0427 PPB .0000 .0427

*** Sample ID: INSERT Seq: 48 19:13:27 06 May 1992

Hg -.0883 PPB .0000 -.0883

*** Sample ID: INSERT Seq: 49 19:15:40 06 May 1992

Hg -.1679 PPB .0000 -.1679

*** Sample ID: INSERT Seq: 50 19:17:53 06 May 1992

Hg -.1808 PPB .0000 -.1808

*** Sample ID: INSERT Seq: 51 19:20:08 06 May 1992

Hg -.1857 PPB .0000 -.1858

*** Check Standard: 2 Seq: 52 19:22:25 06 May 1992 CCV

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.1	3.092	3.000	PPB	.0000

*** Check Standard: 1 Seq: 53 19:24:54 06 May 1992 CCB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0003	.2000	PPB	.0000

OMIT JAA 5/8/92

~~*** Check Standard: 2 Seq: 54 19:27:12 06 May 1992~~

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		109.6	3.287	3.000	PPB	.0000

Automated Mercury Runlog

Methods: SW-846 (CLP) Cold vapor

Page 1 of 1 Date: 5/6/92

Operator: Jeff Aimentiout
Case Name MERA13
Filename 20506181 9.V29

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1			
CCV	ICB			2			
1	492218	PBS		3			
2	491234	LCSS 1:5		4			
3	491231			5			
4	491232	SS(491231)		6			
5	491233	D(491231)		7			
6	491230			8			
7	491238			9			
8	491240			10			
9	491241				CCV		
10	491242				CCB		
	CCV			1			
	CCB			2			
1	491246			3			
2	INSERT			4			
3	INSERT			5			
4	INSERT			6			
5	INSERT			7			
6				8			
7				9			
8				10			
9					CCV		
10					CCB		
	CCV						
	CCB						

JAA 5/6/92

# Injects	29	#Pst. Dig. Spk.	0.0
# Samples	7	Calib. QC	14
# Dilutions	1	QC Samples	4
Inst. Hours	1 1/2		JMN 5/6/92

INORGANIC CASE Reviewed By: Judy C Daw Date: 5/6/92

19026 MERA 13

COMPUCHEM LABS LOGBOOK 1BBB 1

22397

CompuChem Laboratories - Cyanide Analysis Report

Operator: BMH IDL: 10.0000 ug/L
CRDL: 10.0000 ug/L

Date of Analysis: 05-06-92
Starting Time: 12:49
Ending Time: 1417

Original in SDG = MERA13

Peak	Cup	Samp Type	Description/ SDG and Lab ID	Client ID	Result	Dilution	True Value	%Recov.
1	1	STD	300PPB		298.5544	1.0000	0.00	
2	1	STD	300PPB		299.8832	1.0000	0.00	
3	2	STD	200PPB		199.6169	1.0000	0.00	
4	3	STD	100PPB		100.8538	1.0000	0.00	
5	4	STD	50PPB		50.3743	1.0000	0.00	
6	5	STD	10PPB		10.4369	1.0000	0.00	
7	6	STB	0PPB		0.2207	1.0000	0.00	
8	1	STD	300PPB		297.8100	1.0000	0.00	
9	6	STB	0PPB		-0.2975	1.0000	0.00	
10	6	STB	0PPB		-0.2629	1.0000	0.00	
11	3	STD	100PPB		99.5466	1.0000	0.00	
12	3	STD	100PPB		99.5866	1.0000	0.00	
13	3	STD	100PPB		99.7428	1.0000	0.00	
14	7	ICV	ICV		101.2414	1.0000	94.00	107.704
15	8	ICB	ICB		0.2781	1.0000	0.00	OK
16	11	CCV	~~SPARE~~ 5-20-92		98.8100	1.0000	0.00	
17	12	CCB	~~SPARE~~		0.2559	1.0000	0.00	
18	13	PBW	MDCJ14 491944PB		0.9190	1.0000	0.00	OK
19	14	XXX	MDCJ14 491274	MDCJ14	-0.2491	1.0000	0.00	
20	15		SPARE		-0.1666	1.0000	0.00	
21	16	PBS	MERA13 491946PB		-0.9519	1.0000	0.00	OK
22	17	LCSS	MERA13 491237LC		104.6565	1.0000	112.00	93.443
23	18	XXX	MERA13 491231	MERA14	5.6431	1.0000	0.00	
24	19	DUP	MERA13 491236D	MERA14D	3.0588	1.0000	0.00	
25	20		SPARE		-0.1915	1.0000	0.00	
26	9	CCV	CCV0		101.1808	1.0000	100.00	101.181
27	10	CCB	CCB1		0.9951	1.0000	0.00	OK
28	21	SPK	MERA13 491235S	MERA14S	98.3373	1.0000	0.00	
29	22	XXX	MERA13 491230	MERA13	1.3535	1.0000	0.00	
30	23	XXX	MERA13 491238	MERA15	1.0521	1.0000	0.00	
31	24	XXX	MERA13 491240	MERA16	0.7507	1.0000	0.00	
32	25	XXX	MERA13 491241	MERA17	0.7323	1.0000	0.00	
33	26	XXX	MERA13 491242	MERA18	0.9032	1.0000	0.00	
34	27	XXX	MERA13 491246	MERA19	1.5502	1.0000	0.00	
35	28		SPARE		-0.3829	1.0000	0.00	
36	29	PBW	MERA30 491943PB		0.0858	1.0000	0.00	OK
37	30		SPARE		0.1584	1.0000	0.00	
38	9	CCV	CCV1		100.0395	1.0000	100.00	100.039
39	10	CCB	CCB2		0.8543	1.0000	0.00	OK

CompuChem Laboratories - Cyanide Analysis Report

Operator: BMH IDL: 10.0000 ug/L
CRDL: 10.0000 ug/L

Date of Analysis: 05-06-92
Starting Time: 12:49
Ending Time: 1417

Peak	Cup	Samp Type	Description/ SDG and Lab ID	Client ID		Result	Dilution	True Value	%Recov.
40	31	XXX	MERA30 491260	MERA32		8.2940	1.0000	0.00	
41	32	DUP	MERA30 491254D	MERA32D		6.4196	1.0000	0.00	
42	33	SPK	MERA30 491253S	MERA32S		193.8208	1.0000	0.00	
43	34	XXX	MERA30 491248	MERA30		17.3760	1.0000	0.00	
44	35	XXX	MERA30 491252	MERA31		20.5988	1.0000	0.00	
45	36	XXX	MERA30 491263	MERA33		0.5414	1.0000	0.00	
46	37		SPARE			0.1649	1.0000	0.00	
47	38	PBS	SD0209 491945PB			0.0525	1.0000	0.00	OK
48	39	LCSS	SD0209 491701LC			105.3516	1.0000	112.00	94.064
49	40		SPARE			0.1437	1.0000	0.00	
50	9	CCV	CCV2			100.5192	1.0000	100.00	100.519
51	10	CCB	CCB3			0.6088	1.0000	0.00	OK
52	41	XXX	SD0209 491694	SD0209		0.1365	1.0000	0.00	
53	42	DUP	SD0209 491700D	SD0209D		-0.0677	1.0000	0.00	
54	43	SPK	SD0209 491699S	SD0209S		96.2083	1.0000	0.00	
55	44	XXX	SD0209 491698	SD0210		0.9350	1.0000	0.00	
56	45	XXX	SD0209 491703	SD0211		-0.7073	1.0000	0.00	
57	46	XXX	SD0209 491704	SD0212		1.0951	1.0000	0.00	
58	47	XXX	SD0209 491705	SD0213		2.1114	1.0000	0.00	
59	48	XXX	SD0209 491706	SD0214		2.6562	1.0000	0.00	
60	49	XXX	SD0209 491707	SD0215		0.3481	1.0000	0.00	
61	50		SPARE			-0.7050	1.0000	0.00	
62	9	CCV	CCV3			99.8677	1.0000	100.00	99.868
63	10	CCB	CCB4			0.3709	1.0000	0.00	OK
64	51	XXX	SD0209 491708	SD0216		1.2295	1.0000	0.00	
65	52	XXX	SD0209 491709	SD0217		2.5396	1.0000	0.00	
66	53	XXX	SD0209 491710	SD0218		3.8431	1.0000	0.00	
67	54	XXX	SD0209 491711	SD0245		4.7658	1.0000	0.00	
68	55	XXX	SD0209 491712	SD0246		7.6878	1.0000	0.00	
69	56	XXX	SD0209 491713	SD0247		7.1739	1.0000	0.00	
70	57	XXX	SD0209 491714	SD0248		0.9760	1.0000	0.00	
71	58	XXX	SD0209 491715	SD0249		2.0389	1.0000	0.00	
72	59	XXX	SD0209 491716	SD0250		2.3927	1.0000	0.00	
73	60		SPARE			0.1842	1.0000	0.00	
74	9	CCV	CCV4			101.1042	1.0000	100.00	101.104
75	10	CCB	CCB5			1.5476	1.0000	0.00	OK
76	61	PDS	MERA13 491231A	MERA14	A	28.0596	20.0000	0.00	
77	62	PDS	MERA30 491260A	MERA32	A	30.4461	20.0000	0.00	
78	63	PDS	SD0209 491694A	SD0209	A	24.8029	20.0000	0.00	
79	64		SPARE			0.0237	1.0000	0.00	

Operator: BMH IDL: 10.0000 ug/L
CRDL: 10.0000 ug/L

Date of Analysis: 05-06-92
Starting Time: 12:49
Ending Time: 1417

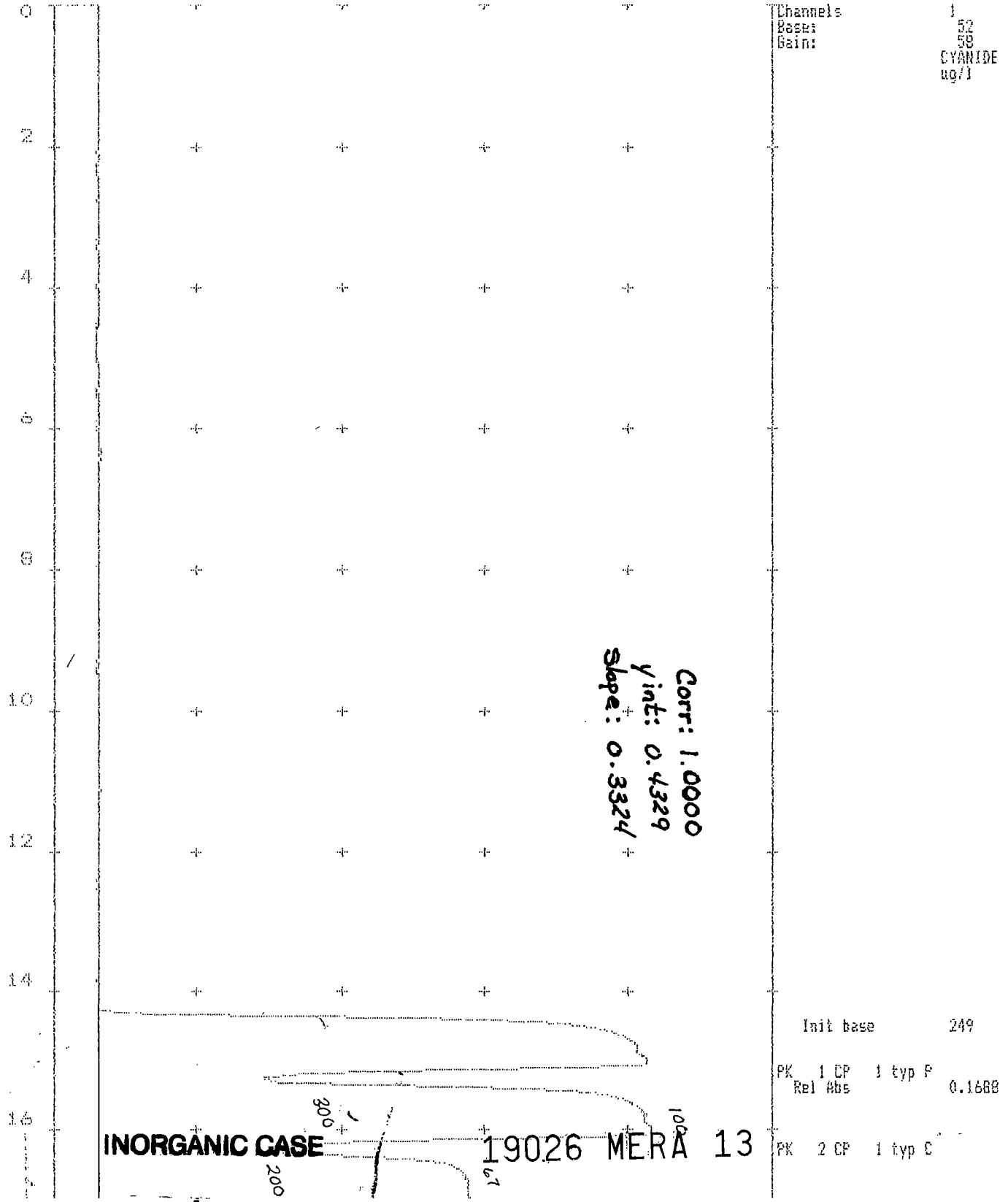
Peak	Cup	Samp Type	Description/ SDG and Lab ID	Client ID	Result	Dilution	True Value	%Recov.
80	65		SPARE		0.6274	1.0000	0.00	
81	66		SPARE		0.4147	1.0000	0.00	
82	67		SPARE		0.3010	1.0000	0.00	
83	9	CCV	CCV5		100.0625	1.0000	100.00	100.063
84	10	CCB	CCB6		2.0364	1.0000	0.00	OK
85	3	STD	100PPB		99.8912	1.0000	0.00	
86	3	STD	100PPB		98.9918	1.0000	0.00	
87	3	STD	100PPB		99.3422	1.0000	0.00	
88	1	STD	300PPB		297.8100	1.0000	0.00	

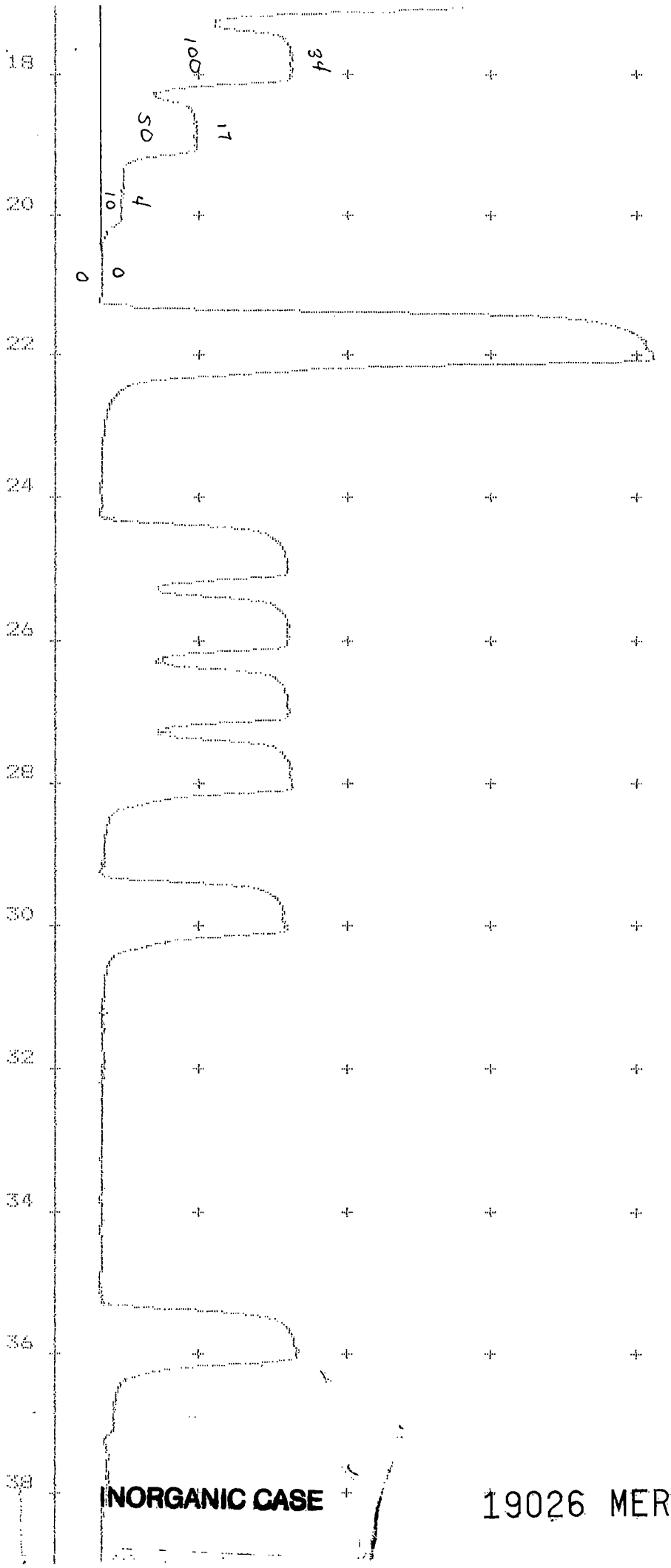
Chart minimum: 0%, maximum 100%
Active channels: 1

Input Filename: B:MDCJ14.INP
Time: 12:49; Date: 05-06-92
Operator: BMH

Comment: CYANIDE ANALYSIS

There are 305152 (bytes) free on disk.
File B:MDCJ14CH.CHR will take approximately 14800 (bytes).

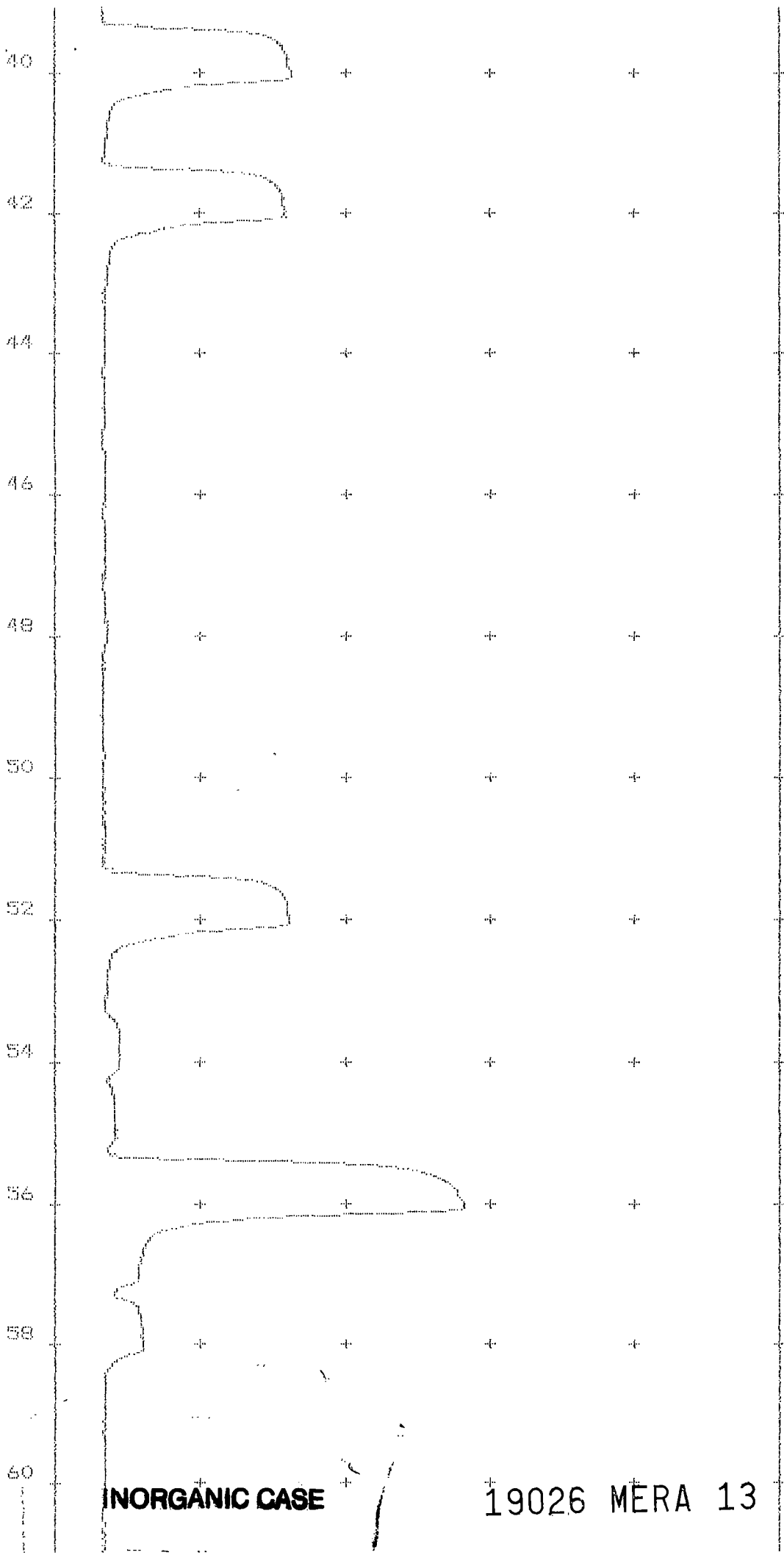




PK	3	CP	2	typ C	
PK	4	CP	3	typ C	
PK	5	CP	4	typ C	
PK	6	CP	5	typ C	N
PK	7	CP	6	typ C	0.09756 M
PK	8	CP	1	typ H	296.0 M
PK	9	CP	6	typ L	1.335 M
PK	10	CP	6	typ L	-0.3785 M
PK	11	CP	3	typ I	98.92
PK	12	CP	3	typ I	99.59
PK	13	CP	3	typ I	99.78
PK	14	CP	7	typ S	101.3
PK	15	CP	8	typ S	0.8592 M
PK	16	CP	11	typ S	98.35
PK	17	CP	12	typ S	0.8592 M
PK	18	CP	13	typ S	0.9544 M
PK	19	CP	14	typ S	-0.1881 M
PK	20	CP	15	typ S	-0.09285 M
PK	21	CP	16	typ S	-0.8545 M
PK	22	CP	17	typ S	104.4
PK	23	CP	18	typ S	6.381 M
PK	24	CP	19	typ S	3.239

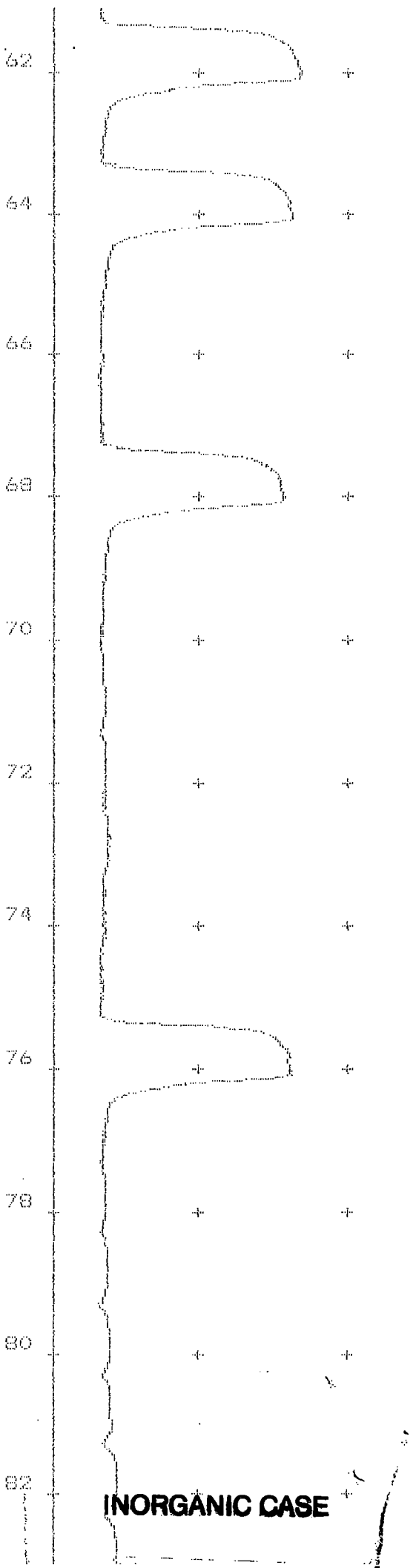
INORGANIC CASE

19026 MERA 13



PK	25	CP	20	typ S	0.00236 M
PK	26	CP	9	typ S	101.0
PK	27	CP	10	typ S	1.811 M
PK	28	CP	21	typ S	98.26
PK	29	CP	22	typ S	2.192 M
PK	30	CP	23	typ S	1.335 M
PK	31	CP	24	typ S	1.050 M
PK	32	CP	25	typ S	1.050 M
PK	33	CP	26	typ S	1.240 M
PK	34	CP	27	typ S	1.907 M
PK	35	CP	28	typ S	0.00236 M
PK	36	CP	29	typ S	0.4784 M
PK	37	CP	30	typ S	0.5736 M
PK	38	CP	9	typ S	100.3
PK	39	CP	10	typ S	1.907 M
PK	40	CP	31	typ S	8.762 M
PK	41	CP	32	typ S	6.953 M
PK	42	CP	33	typ S	194.0 M
PK	43	CP	34	typ S	19.04
PK	44	CP	35	typ S	21.23
PK	45	CP	36	typ S	1.240 M
PK	46	CP	37	typ S	0.7640

INORGANIC CASE 19026 MERA 13



PK 47 CP 38 typ S 0.6688 M

PK 48 CP 39 typ S 105.9

PK 49 CP 40 typ S 1.430 M

PK 50 CP 9 typ S 101.1

PK 51 CP 10 typ S 1.907 M

PK 52 CP 41 typ S 0.8592 M

PK 53 CP 42 typ S 0.6688 M

PK 54 CP 43 typ S 96.92

PK 55 CP 44 typ S 2.287 M

PK 56 CP 45 typ S 0.09756 M

PK 57 CP 46 typ S 1.907 M

PK 58 CP 47 typ S 2.954 M

PK 59 CP 48 typ S 3.525 M

PK 60 CP 49 typ S 1.240 M

PK 61 CP 50 typ S 0.1928 M

PK 62 CP 9 typ S 100.8

PK 63 CP 10 typ S 1.907 M

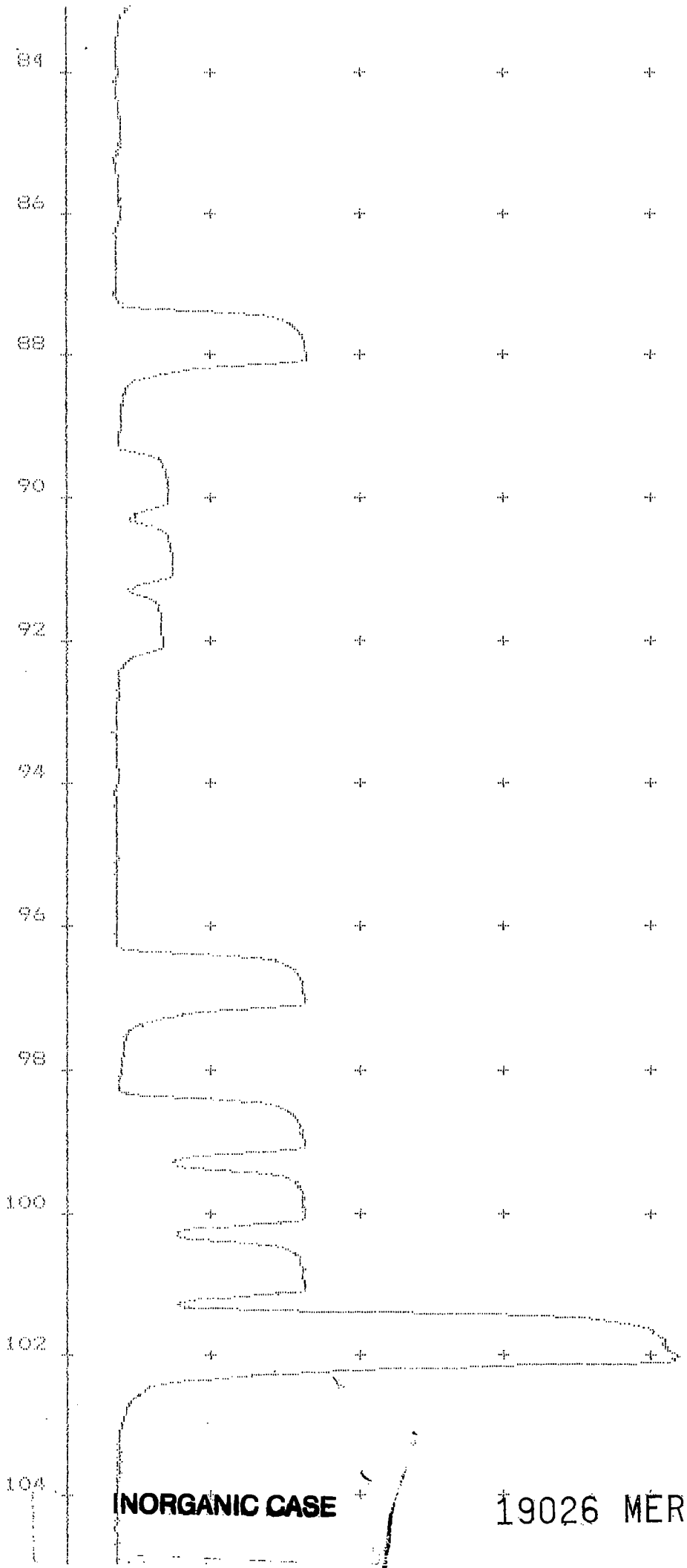
PK 64 CP 51 typ S 2.192 M

PK 65 CP 52 typ S 3.525 M

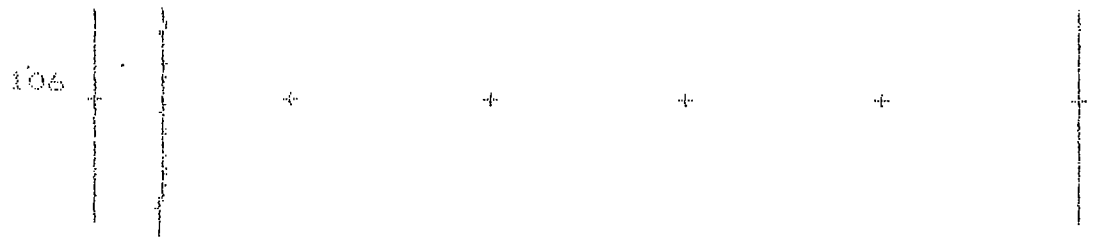
PK 66 CP 53 typ S 4.858 M

PK 67 CP 54 typ S 5.810 M

PK 68 CP 55 typ S 8.762 M



PK	69	CP	56	typ S	8.285 M
PK	70	CP	57	typ S	2.097 M
PK	71	CP	58	typ S	3.184 M
PK	72	CP	59	typ S	3.525 M
PK	73	CP	60	typ S	1.335 M
PK	74	CP	9	typ S	102.4
PK	75	CP	10	typ S	3.335 M
PK	76	CP	61	typ S	29.33
PK	77	CP	62	typ S	31.90
PK	78	CP	63	typ S	26.28
PK	79	CP	64	typ S	1.430 M
PK	80	CP	65	typ S	1.907 M
PK	81	CP	66	typ S	1.716 M
PK	82	CP	67	typ S	1.621 M
PK	83	CP	9	typ S	101.7 M
PK	84	CP	10	typ S	4.001 M
PK	85	CP	3	typ I	101.6
PK	86	CP	3	typ I	101.3 M
PK	87	CP	3	typ I	101.7
PK	88	CP	1	typ G	300.9 M



Last base 268
Conc. 9.756e-02
Anal 1: uncorr linear fit 3.899e+00 -2.542e+01.

Time: 12:49; Date: 05-06-92
Operator: BMH

Comment: CYANIDE ANALYSIS

Channels 1
Base: 52
Gain: 58

CYANIDE

ug/l

Base drift correction made
Carryover correction made
Gain drift correction made
Init base 249
Conc. -1.386e+00

PK	1	CP	1	typ	P	298.6 N
Rel Abs						0.1688
PK	2	CP	1	typ	C	299.9 N
PK	3	CP	2	typ	C	199.6
PK	4	CP	3	typ	C	100.9
PK	5	CP	4	typ	C	50.37
PK	6	CP	5	typ	C	10.44 M
PK	7	CP	6	typ	C	0.2207 M
PK	8	CP	1	typ	H	297.8 N
PK	9	CP	6	typ	L	-0.2975 M
PK	10	CP	6	typ	L	-0.2629 M
PK	11	CP	3	typ	I	99.55
PK	12	CP	3	typ	I	99.59
PK	13	CP	3	typ	I	99.74
PK	14	CP	7	typ	S	101.2
PK	15	CP	8	typ	S	0.2781 M
PK	16	CP	11	typ	S	98.81
PK	17	CP	12	typ	S	0.2559 M
PK	18	CP	13	typ	S	0.9190 M
PK	19	CP	14	typ	S	-0.2491 M
PK	20	CP	15	typ	S	-0.1666 M
PK	21	CP	16	typ	S	-0.9519 M
PK	22	CP	17	typ	S	104.7
PK	23	CP	18	typ	S	5.643 M
PK	24	CP	19	typ	S	3.059 M
PK	25	CP	20	typ	S	-0.1915 M
PK	26	CP	9	typ	S	101.2
PK	27	CP	10	typ	S	0.9951 M
PK	28	CP	21	typ	S	98.34
PK	29	[illegible]	[illegible]	[illegible]	[illegible]	1.354 M
PK	30	CP	23	typ	S	1.052 M
PK	31	CP	24	typ	S	0.7507 M
PK	32	CP	25	typ	S	0.7863 M

INORGANIC CASE

19026 MERA 13

PK	33	CP	26	typ	S	0.9032 M
PK	34	CP	27	typ	S	1.550 M
PK	35	CP	28	typ	S	-0.3829 M
PK	36	CP	29	typ	S	0.08583 M
PK	37	CP	30	typ	S	0.1584 M
PK	38	CP	9	typ	S	100.0
PK	39	CP	10	typ	S	0.8543 M
PK	40	CP	31	typ	S	8.294 M
PK	41	CP	32	typ	S	6.420 M
PK	42	CP	33	typ	S	193.8 N
PK	43	CP	34	typ	S	17.38
PK	44	CP	35	typ	S	20.60
PK	45	CP	36	typ	S	0.5414 M
PK	46	CP	37	typ	S	0.1649 M
PK	47	CP	38	typ	S	0.05248 M
PK	48	CP	39	typ	S	105.4
PK	49	CP	40	typ	S	0.1437 M
PK	50	CP	9	typ	S	100.5
PK	51	CP	10	typ	S	0.6088 M
PK	52	CP	41	typ	S	0.1365 M
PK	53	CP	42	typ	S	-0.06767 M
PK	54	CP	43	typ	S	96.21
PK	55	CP	44	typ	S	0.9350 M
PK	56	CP	45	typ	S	-0.7073 M
PK	57	CP	46	typ	S	1.095 M
PK	58	CP	47	typ	S	2.111 M
PK	59	CP	48	typ	S	2.656 M
PK	60	CP	49	typ	S	0.3481 M
PK	61	CP	50	typ	S	-0.7050 M
PK	62	CP	9	typ	S	99.87
PK	63	CP	10	typ	S	0.3709 M
PK	64	CP	51	typ	S	1.229 M
PK	65	CP	52	typ	S	2.540 M
PK	66	CP	53	typ	S	3.843 M
PK	67	CP	54	typ	S	4.766 M
PK	68	CP	55	typ	S	7.688 M
PK	69	CP	56	typ	S	7.174 M
PK	70	CP	57	typ	S	0.9760 M
PK	71	CP	58	typ	S	2.039 M
PK	72	CP	59	typ	S	2.393 M
PK	73	CP	60	typ	S	0.1842 M
PK	74	CP	9	typ	S	101.1
PK	75	CP	10	typ	S	1.548 M
PK	76	CP	61	typ	S	28.06
PK	77	CP	62	typ	S	30.45
PK	78	CP	63	typ	S	24.80
PK	79	CP	64	typ	S	0.02368 M
PK	80	CP	65	typ	S	0.6274 M
PK	81	CP	66	typ	S	0.4147 M
PK	82	CP	67	typ	S	0.3010 M
PK	83	CP	9	typ	S	100.1 N
PK	84	CP	10	typ	S	2.036 M
PK	85	CP	3	typ	I	99.89
PK	86	CP	3	typ	I	98.99 N
PK	87	CP	3	typ	I	99.34
PK	88	CP	1	typ	G	297.8 N

Last base 268
Conc. -1.386e+00

Sample statistics

Anal	level	cups	avg	std dev	cv
1	all	71	22.5255	42.5102	1.8872

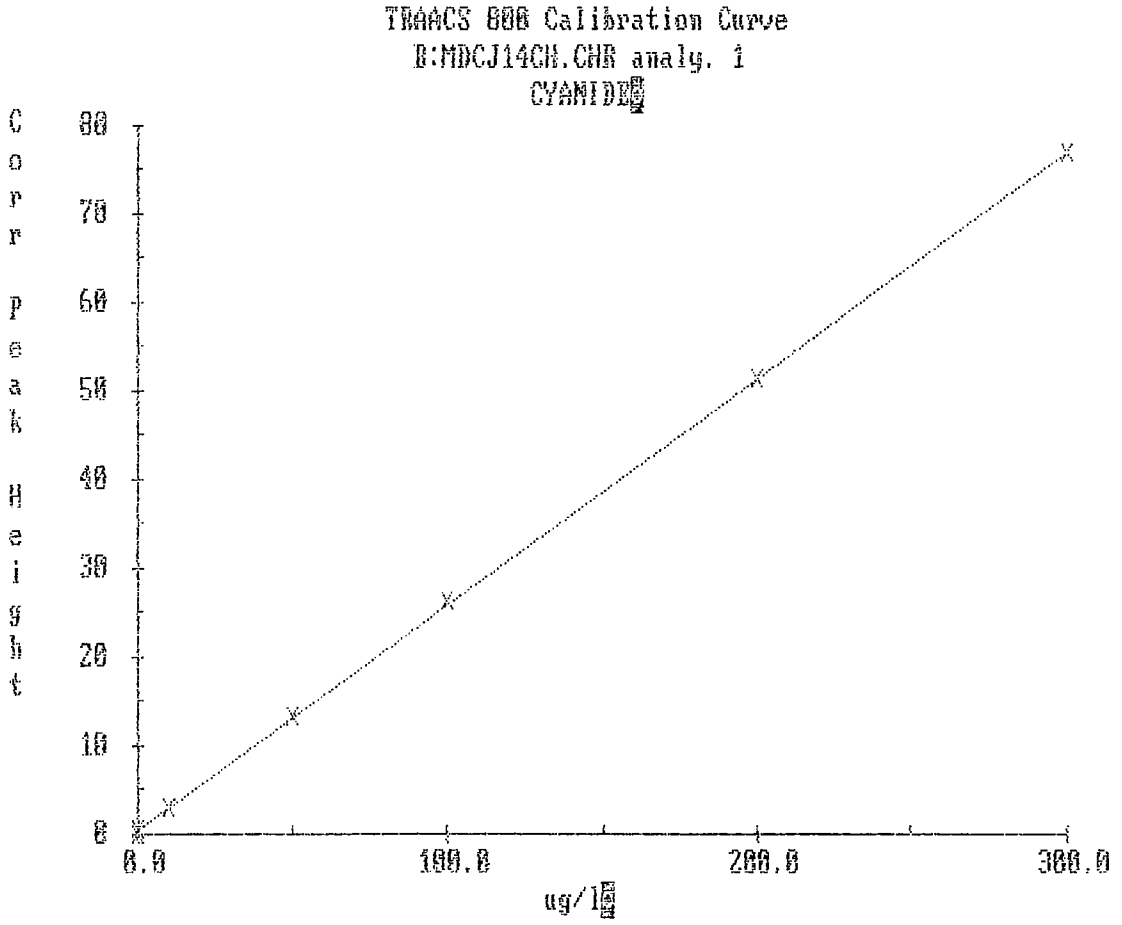
INORGANIC CASE 19026 MERA 13 233

ISS statistics

1.	all	6	99.5169	0.3172	0.0032

Anal 1: linear fit 3.920e+00 -2.522e+01.
Carryover factor: 0.60%.

Chart saved to file B:MDCJ14CH.CHR.



Cyanide Run Log

Operator: B.M. Holmes

Page 1 of 2

Date: 5-6-92

Filename MDCJ14 CH

Method: CLP 335.3 or SW-846 9012

Case Name 05061249

#	Sample ID	Comments	#	Sample ID	Comments
	300			491235	S
	200			491230	
	100			491238	
	50			491240	
	10			491241	
	0			491242	
	ICV			491246	
	ICB			Blk	
	CCV			491943	PB
	CCB			Blk	
	491944	PB		CCV	
	491274			CCB	
	Blk			491260	
	491946	PB		491254	D
	491237	LCS		491253	S
	491231			491248	
	491236	D		491252	
	Blk			491263	
	CCV			Blk	
	CCB			491945	PB

(1) ICV Solutions:

(2) CCV Solutions

Instrument Hours _____

Production Samples _____

QC Samples _____

Reviewed By RC

Date: 5-6-92

Cyanide Run Log

Operator: Continued

Page 2 of 2

Date:

Filename

Method: CLP 335.3 or SW-846 9012

Case Name

#	Sample ID	Comments	#	Sample ID	Comments
	491701	LCS		491712	
	Blk			491713	
	CCV			491714	
	CCB			491715	
	491694			491716	
	491700	D		Blk	
	491699	S		CCV	
	491698			CCB	
	491703			491231	A
	491704			491260	A
	491705			491694	A
	491706			Blk	
	491707			Blk	
	Blk			Blk	
	CCV			Blk	
	CCB			CCV	
	491708			CCB	
	491709				
	491710				
	491711			5-6-92	

(1) ICV Solutions:

(2) CCV Solutions

Instrument Hours

Production Samples

QC Samples

Reviewed By RC

Date: 5-6-92

INORGANIC CASE

CYANIDE ANALYSIS AUTOSAMPLER SET UP MAP

DATE GENERATED: 06-MAY-92 SET UP PERFORMED BY: B. M. Holmes

05061249

IDL: 10.000
CRDL: 10.000
ICV RECIPE: 0789 TRUE VALUE: 94.000
CCV RECIPE: ABCD TRUE VALUE: 100.00
LCSS RECIPE: LCS689 TRUE VALUE: 112.00
LCSW RECIPE: 0789 TRUE VALUE: 94.000

	CUP	SAMPLE	CLIENT ID	SDG	DILUTION
Rack 1					
	1	300PPB			
	2	200PPB			
	3	100PPB			
	4	50PPB			
	5	10PPB			
	6	0PPB			
	7	ICV			
	8	ICB			
	9	CCV			
	10	CCB			
Rack 2					
	11	~~SPARE~~ CCV			
	12	~~SPARE~~ CCB			
	13	491944PBW	PREP	MDCJ14	
	14	491274	MDCJ14	MDCJ14	
	15	SPARE			
	16	491946PBS	PREP	MERA13	
	17	491237LCSS	LCSS	MERA13	
	18	491231	MERA14	MERA13	
	19	491236D	MERA14D	MERA13	
	20	SPARE			
Rack 3					
	21	491235S	MERA14S	MERA13	
	22	491230	MERA13	MERA13	
	23	491238	MERA15	MERA13	
	24	491240	MERA16	MERA13	
	25	491241	MERA17	MERA13	
	26	491242	MERA18	MERA13	
	27	491246	MERA19	MERA13	
	28	SPARE			
	29	491943PBW	PREP	MERA30	
	30	SPARE			
Rack 4					
	31	491260	MERA32	MERA30	
	32	491254D	MERA32D	MERA30	
	33	491253S	MERA32S	MERA30	
	34	491248	MERA30	MERA30	
	35	491252	MERA31	MERA30	
	36	491263	MERA33	MERA30	
	37	SPARE			
	38	491945PBS	PREP	SD0209	
	39	491701LCSS	LCSS	SD0209	
	40	SPARE			

CYANIDE ANALYSIS AUTOSAMPLER SET UP MAP

DATE GENERATED: 06-MAY-92 SET UP PERFORMED BY:_____

IDL: 10.000
CRDL: 10.000
ICV RECIPE: 0789 TRUE VALUE: 94.000
CCV RECIPE: ABCD TRUE VALUE: 100.00
LCSS RECIPE: LCS689 TRUE VALUE: 112.00
LCSW RECIPE: 0789 TRUE VALUE: 94.000

	CUP	SAMPLE	CLIENT ID	SDG	DILUTION
Rack 5					
	41	491694	SD0209	SD0209	
	42	491700D	SD0209D	SD0209	
	43	491699S	SD0209S	SD0209	
	44	491698	SD0210	SD0209	
	45	491703	SD0211	SD0209	
	46	491704	SD0212	SD0209	
	47	491705	SD0213	SD0209	
	48	491706	SD0214	SD0209	
	49	491707	SD0215	SD0209	
	50	SPARE			
Rack 6					
	51	491708	SD0216	SD0209	
	52	491709	SD0217	SD0209	
	53	491710	SD0218	SD0209	
	54	491711	SD0245	SD0209	
	55	491712	SD0246	SD0209	
	56	491713	SD0247	SD0209	
	57	491714	SD0248	SD0209	
	58	491715	SD0249	SD0209	
	59	491716	SD0250	SD0209	
	60	SPARE			
Rack 7					
	61	~~SPARE~~ 491231-A			
	62	~~SPARE~~ 491260-A			
	63	~~SPARE~~ 491694-A			
	64	SPARE			
	65	SPARE			
	66	SPARE			
	67	SPARE			

Standards/QC Preparation for Automated TrAAcs 800 Cyanide

CompuChem Labs.

Preparation of Standard 300 ppb: Into a 100 ml volumetric flask, place 20 ml of *1.25 N NaOH (Fisher Scientific Company). Pipet 3.0 ml of 10 ppm stock solution B into flasks and dilute to 100 ml with deionized water. Place solution in a Teflon bottle.

Preparation of Standard 200 ppb: Into a 100 ml volumetric flask, place 20 ml of *1.25 N NaOH (Fisher Scientific Company). Pipet 2.0 ml of 10 ppm stock solution B into flask and dilute to 100 ml with deionized water. Place solution in a Teflon bottle.

Preparation of Standard 100 ppb: Into a 100 ml volumetric flask, place 20 ml of *1.25 N NaOH (Fisher Scientific Company). Pipet 1.0 ml of 10 ppm stock solution B into flask and dilute to 100 ml with deionized water. Place solution in a Teflon bottle.

Preparation of Standard 50 ppb: Into a 100 ml volumetric flask, place 20 ml of *1.25 N NaOH (Fisher Scientific Company). Pipet 0.5 ml of 10 ppm stock solution B into flask and dilute to 100 ml with deionized water. Place solution in a Teflon bottle.

Preparation of Standard 10 ppb: Into a 100 ml volumetric flask, place 20 ml of *1.25 N NaOH (Fisher Scientific Company). Pipet 0.1 ml of 10 ppm stock solution B into flask and dilute to 100 ml with deionized water. Place solution in a Teflon bottle.

Preparation of Standard Blank: Into a 100 ml volumetric flask, place 20 ml of *1.25 N NaOH (Fisher Scientific Company). Dilute to 100 ml with deionized water. Place solution in a Teflon bottle.

Preparation of 1000 ppm stock solution A: Into a 1000 ml volumetric flask, place 2.5026g of dried KCN (Fisher Scientific Company) lot# 792060 and 2.0 g of KOH (Fisher Scientific Company) lot# 723564A and dilute to the mark with deionized water. Place solution in a Teflon bottle.

Prepared by [illegible] Date 10-24-1991

Preparation of 10 ppm stock solution B: Into a 250 ml volumetric flask, place 2.5 ml of stock solution A and 50.0 ml 1.25N NaOH and dilute to the mark with deionized water.

Preparedby Carl Hooker Date 5-1-92

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*1.25 N NaOH (Fisher Scientific Company) Lot# 895047

All other Standards on this page were prepared by: [illegible] Date 5-6-92

Chemist [illegible] Date 5-6-92

INORGANIC CASE

Metals Preparation Log

Method: CLP SW-846
3005 (dissolved) 3050
755 1028
705016 19024-MERA13

Prepared By Carl Hunter

Case Type: EPA SDG ID MERA13
Procedure Code: -163
Date: 5/6/92

#	CCN (Lab ID)	Date Rec'd	Customer ID	Initial Plasma (Wt. /Vol.)	Final Plasma (Vol.)	Initial Furnace (Wt. / Vol.)	Final Furnace (Vol.)	Description Before	Description After	pH
1	491230	4-30-92	MERA13	1.00 g	200ml	1.00g	200ml	brown, med	yellow, ~~clear~~ RC 5-20-92	N/A
2	491231		MERA14	1.00 g		1.00g				
3	491238		MERA15	1.01 g		1.01g				
4	491240		MERA16	1.00 g		1.02g				
5	491241		MERA17	1.02 g		1.00g				
6	491242		MERA18	1.00 g		1.00g				
7	491246	4-30-92	MERA19	1.00g	200ml	1.00g	200ml	brown, med	yellow, ~~clear~~	N/A
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21	491232	Sample Spike		1.00g	200ml	1.00g	200ml	Ref CCN: (491231)		
22	491233	Duplicate Spike		1.00g		1.00g		Ref CCN: (491231)		
23	491234	Lab Ctrl. Sample		1.00g		1.00g		Solid LCS		
24	492218	Prep. Blank		1.00g	200ml	1.00g	200ml	N/A		

CH 5-6-92

POSTED 5-6-92

QC Preparation Information

Sample Spike:
Plasma Preparation 2ml std 18 → 200ml
Furnace Preparation 2ml std 16 → 200ml

Laboratory Control Sample:
P1 1.00g solid LCS 0287 → 200ml
F2 1.00g solid LCS 0287 → 200ml

Reviewed By J. Medlin
Date: 5/6/92

INORGANIC CASE

19026 MERA13

40

COMPUCHEM LABS LOGBOOK ID 7

915

Mercury Preparation Log

SDG ID: MERA13

Method: CLP 245.1
SW-846 7470 (Liq) 7471 (Sol)

755 1028
705016 19026-MERA13

Preparation Analysis Code: -162

Date: 5-6-92

Prepared By: Carl Huber

#	CC#	Rec'd Date	Client ID	Initial Wt/Vol	Final Vol.	Description Before	Description After	pH
1	491230	4-30-92	MERA13	0.20g	100ml	brown, med	violet	N/A
2	491231		MERA14	0.20g				
3	491238		MERA15	0.21g				
4	491240		MERA16	0.20g				
5	491241		MERA17	0.20g				
6	491242		MERA18	0.21g				
7	491246	4-30-92	MERA19	0.20g	100ml	brown, med	violet	N/A
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21	491232		Sample Spike	0.20g	100ml	Ref CCN: 491231		
22	491233		Dup Sample	0.20g		Ref CCN: 491231		
23	491234		Lab Ctrl Sample	0.20g		solid LCS		
24	492218		Prep Blank	0.20g	100ml	N/A		

CH 5-6-92

PASSED 5-6-92

Standard Curve

- 0 ml 100 ppb Hg to 100 ml
- 0.5 ml 100 ppb Hg to 100 ml
- 1.0 ml 100 ppb Hg to 100 ml
- 3.0 ml 100 ppb Hg to 100 ml
- 5.0 ml 100 ppb Hg to 100 ml
- 10.0 ml 100ppb Hg to 100 ml

The standards listed above were prepared in the same manner and at the same time as the associated samples

QC Preparation Information

Sample Spike: 1.0ml 100ppb Hg → 100ml
N/A

Lab Control Sample (LCS): 0.20g solid LCS 0287 → 100ml
N/A

CH 5-6-92

Reviewed By: J Medlin

Date: 5/6/92

COMPUCHEM LABS LOGBOOK 1F 7

INORGANIC CASE

19026 MERA 13

241

981

Cyanide Preparation Log

Postech 5/5/92 RKL

SDG ID: MERA 13
705016 19026-MERA13

Method: CLP 335.3
SW-846 9012
757/828

Preparation Analysis Code: -139

Date: 5-5-92

Prepared By: RKL

#	CC#	Rec'd Date	Client ID	Initial Wt/Vol	Final Vol.	Description Before	Description After	pH
1	491230	4-30-92	MERA 13	5-02g	250ml	Brown	Med	
2	491231		MERA 14	5-02g		"	"	
3	491238		MERA 15	5-02g		"	"	
4	491240		MERA 16	5-02g		"	"	
5	491241		MERA 17	5-02g		"	"	
6	491242		MERA 18	5-02g		"	"	
7	491246	4-30-92	MERA 19	5-02g	250ml	"	"	
8								
9								
10								
11								
12								
13				RKL 5/5/92				
14								
15								
16								
17								
18								
19								
20								
21	491235		Sample Spike	5-02g	250ml	Ref CCN: 491231		
22	491236		Dup Sample	5-02g		Ref CCN: 491231		
23	491237		Lab Ctrl Sample	5-00g		BS		
24	491946		Prep Blank	500ml	250ml	D.I. H2O		

QC Preparation Information

Sample Spike: 2.5ml 10ppm CN⁻ → 250ml
N/A

Lab Control Sample (LCS): 2.5ml ICV6 → 250ml
5.00g Solid LCS → 250ml

Reviewed By: J. Medlin

Date: 5/5/92

COMPUCHEM LABS LOGBOOK 1E 6

796

242

19026 MERA 13

INORGANIC CASE

CCN	Emp ID	Start Date	Comp Date:	Cont Wt(g)	Tot Wt(g)	Dry Wt(g)	Fact	% Moist	% Solid
491238	LOWERYJ	05/01/92	05/02/92	1.00	6.54	2.81	3.06	67.33	32.67
491230	LOWERYJ	05/01/92	05/02/92	.99	6.68	4.38	1.68	40.42	59.58
491231	LOWERYJ	05/01/92	05/02/92	.99	6.93	5.28	1.38	27.78	72.22
491240	LOWERYJ	05/01/92	05/02/92	1.00	6.74	3.56	2.24	55.40	44.60
491241	LOWERYJ	05/01/92	05/02/92	1.00	6.90	3.35	2.51	60.17	39.83
491242	LOWERYJ	05/01/92	05/02/92	1.00	6.30	4.94	1.35	25.66	74.34
491246	LOWERYJ	05/01/92	05/02/92	.99	6.49	4.84	1.43	30.00	70.00
491233	LOWERYJ	05/12/92	05/13/92	.99	6.38	4.98	1.35	25.97	74.03

COMPUCHEM LABORATORIES, INC.

SAMPLE DELIVERY GROUP (SDG) TRAFFIC REPORT (TR) COVER SHEET

P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

Lab Name: CompuChem **Contract No.:** 68-01-6800150

Lab Code: Compu **Case No.:** 19026 **SAS No.:** _____-___

Full Sample Analysis Price in Contract: $ 99.00

SDG No./First Sample in SDG: MERA13 **Sample Receipt Date:** 4.30.92 (MM/DD/YY)
(Lowest EPA Sample Number in first shipment of samples received under SDG)

Last Sample in SDG: MERA19. **Sample Receipt Date:** 4.30.92 (MM/DD/YY)
(Highest EPA Sample Number in last shipment of samples received under SDG)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1	MERA 13	11	
2	14	12	
3	15	13	
4	16	14	
5	17	15	
6	18	16	5.16.92
7	19 Last sample in SDG-MERA19	17	
8		18	
9	5.16.92	19	
10		20	

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Joan Kerdell 5.16.92

Sample Custodian **Date**

19026 MERA 13

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No. (if applicable):

Case No.: 19026

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

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

3. Region No.: 5

Sampling Co.: PRC

5. Date Shipped: 4/29/92

Carrier: Federal Express

7. Date Received -- Received by: 4.30.92 Joan Purdie

Sampler (Name): C. Hirschman

Airbill Number: 2271398706

Laboratory Contract Number: 68D00150

Unit Price: 99.00

Sampler Signature: C. Hirschman

6. Ship To: Compuchem Laboratories, 3308 Chapel Hill/Nelson Highway, Research Training Park, NC 27709
ATTN: Terry Evans

8. Transfer to

Date Received

Received by

Contract Number

Price

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF		X	RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

CLP Sample Numbers (from labels)	A Enter # from Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E - RAS Analysis: Metals Total	Metals Dissolved	Cyanide	Low Conc. only: Nitrate/ Nitrite	Fluoride	High only: pH	Conductivity	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Sample Condition on Receipt	L High Conc. Phases (Check below): Solids	Water - MIS Liq.	Non Water - Mis Liq.
~~EQKMERA12~~	~~5~~	~~L~~	~~C~~	~~N~~	~~X~~		~~X~~					~~5-046548~~	~~SD-1~~	~~4/29/92~~	~~CLH~~	~~EQK12~~				
[redacted]					X		X					5-046552	SD-2	4/29/92		EQK13				
[redacted]					X		X					5-046556	SD-3	4/29/92		EQK14				
[redacted]					X		X					5-046560	SD-4	4/29/92		EQK15				
[redacted]					X		X					5-046564	SD-5	4/29/92 1300		EQK16				
[redacted]					X		X					5-046568	SD-6	4/29/92 1230		EQK17				
[redacted]					X		X					5-046572	SD-7	4/29/92 1045		EQK18				
[redacted]					X		X					5-046576	SD-8	4/29/92 1030		EQK19				
												[redacted]	[redacted]	[redacted]						
												[redacted]	[redacted]	[redacted]						

Shipment for Case complete? (Y/N)

Page 1 of 2

Sample used for a spike and/or duplicate: MERA 14, MERA 32

Additional Sampler Signatures

Chain of Custody Seal Number: 157437, 157438

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Christine Hirschman	4/29/92 1425	Christopher P. Cappel	Christopher P. Cappel	4/29/92 1630	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none
		Joan Purdie	4.30.92 0930		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION 4.30.92

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

1034605

245

19026 MERA 13

INORGANIC CASE

Inorg-2

SDG: MERA13 GFAA Inst. Id(s): _____

CCNs	*Action/+Complete			CCNs	*Action/+Complete			CCNs	*Action/+Comple	
491218 PBS	As		DPS	242	As	MSA	DPS		As	
	Se		DPS		Se		DPS		Se	
	Pb		DPS		Pb		DPS		Pb	
	Tl		DPS		Tl		DPS		Tl	
491234 LCSS	As	1:200	DPS	246	As		DPS		As	
	Se	1:10	DPS		Se		DPS		Se	
	Pb	1:50	DPS		Pb	1:5	DPS		Pb	
	Tl	1:10	DPS		Tl		DPS		Tl	
231	As	1:2	DPS		As				As	
	Se		DPS		Se				Se	
	Pb	1:5	DPS		Pb				Pb	
	Tl		DPS		Tl				Tl	
233 DUP	As	1:2	DPS		As				As	
	Se		DPS		Se				Se	
	Pb	1:5	DPS		Pb				Pb	
	Tl		DPS		Tl				Tl	
232 SPK	As	1:5	DPS		As				As	
	Se	1:	DPS		Se				Se	
	Pb	1:5	DPS		Pb				Pb	
	Tl		DPS		Tl				Tl	
230	As		DPS		As				As	
	Se		DPS		Se				Se	
	Pb		DPS		Pb				Pb	
	Tl		DPS		Tl				Tl	
238	As	MSA	DPS		As				As	
	Se		DPS		Se				Se	
	Pb		DPS		Pb				Pb	
	Tl		DPS		Tl				Tl	
240	As		DPS		As				As	
	Se		DPS		Se				Se	
	Pb		DPS		Pb				Pb	
	Tl		DPS		Tl				Tl	
241	As	MSA	DPS		As				As	
	Se		DPS		Se				Se	
	Pb	1:5	DPS		Pb				Pb	
	Tl		DPS		Tl				Tl	

*Action Codes: D=dilution M=MSA R=^%RSD =No Action NA=Not Applicable
+Initials

Requisition Number: 25454.0001
Case: 705016 19026-MERA13
Turnaround: 28 Days Priority: M
Analysis Codes: 2010

CompuChem Number: 491230
Account Number: 705016
Due: 5/28/92

Lab Instr

Receiving Data

Sample Identification: C#19026-MERA13
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 01
Receiving Information: 1-8oz JAR
Containers Received: 1-8oz JAR
Matrix: SO Temp: 6C Sampling Date(s): 042992 N

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date				Date Rec'd
_____	_____	( )	-190	PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )	-139	Solid Prep-Cyanide	
_____	_____	( )	-163	Metal Preparation-Solid	
_____	_____	( )	-162	S/S/S PREP. FOR MERCURY	
_____	_____	( )	308	ICP ANAL.; CLP TAL; S/S; SOW 7/88+3/90	_____
_____	_____	( )	1	FUR. AAS; CLP TAL; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	5	C.V. MERC. ANAL.; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	501	CYANIDE ANAL.; S/S; CLP SOW 7/88 + 3/90	_____

Requisition Number: 25454.0001 CompuChem Number: 491230
Case: 705016 19026-MERA13 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Data Rec'd
_____	_____	( )	
_____	_____	( )	

Requisition Number: 25454.0001 CompuChem Number: 491230
Case: 705016 19026-MERA13 Account Number: 705016

Company Name: US ENVIRON. PROTECTION AGENCY

Reporting 1

US ENVIRON. PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
FINANCIAL MANAGEMENT DIVISION
(MD-32)
Attention: VIAR & CO.
RES. TRI. PK. NC
27709
(680) 168-7017

Requisition Number: 25454.0002 CompuChem Number: 491231
Case: 705016 19026-MERA13 Account Number: 705016
Turnaround: 28 Days Priority: M Due: 5/28/92
Analysis Codes: 2010

Lab Instr USE FOR QC

Receiving Data

Sample Identification: C#19026-MERA14
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 01
Receiving Information: 1-8oz JAR
Containers Received: 1-8oz JAR
Matrix: SO Temp: 6C Sampling Date(s): 042992 N

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date				Data Rec'd
_____	_____	( )	-190	PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )	-139	Solid Prep-Cyanide	
_____	_____	( )	-163	Metal Preparation-Solid	
_____	_____	( )	-162	S/S/S PREP. FOR MERCURY	
_____	_____	( )	308	ICP ANAL.; CLP TAL; S/S; SOW 7/88+3/90	_____
_____	_____	( )	1	FUR. AAS; CLP TAL; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	5	C.V. MERC. ANAL.; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	501	CYANIDE ANAL.; S/S; CLP SOW 7/88 + 3/90	_____

Requisition Number: 25454.0002 CompuChem Number: 491831
Case: 705016 19026-MERA13 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Date Rec'd
_____	_____	( )	
_____	_____	( )	

Requisition Number: 25454.0002 CompuChem Number: 491231
Case: 705016 19026-MERA13 Account Number: 705016

Company Name: US ENVIRON. PROTECTION AGENCY

Reporting 1

US ENVIRON. PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
FINANCIAL MANAGEMENT DIVISION
(MD-32)
Attention: VIAR & CO.
RES. TRI. PK. NC
27709
(680) 168-7017

Requisition Number: 25454.0003 CompuChem Number: 491238
Case: 705016 19026-MERA13 Account Number: 705016
Turnaround: 28 Days Priority: M Due: 5/28/92
Analysis Codes: 2010

Lab Instr STANDING WATER ON TOP

Receiving Data

Sample Identification: C#19026-MERA15
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 01
Receiving Information: 1-8oz JAR
Containers Received: 1-8oz JAR
Matrix: SO Temp: 6C Sampling Date(s): 042992 N

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date				Data Rec'd
_____	_____	( )	-190	PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )	-139	Solid Prep-Cyanide	
_____	_____	( )	-163	Metal Preparation-Solid	
_____	_____	( )	-162	S/S/S PREP. FOR MERCURY	
_____	_____	( )	308	ICP ANAL.; CLP TAL; S/S; SOW 7/88+3/90	_____
_____	_____	( )	1	FUR. AAS; CLP TAL; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	5	C.V. MERC. ANAL.; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	501	CYANIDE ANAL.; S/S; CLP SOW 7/88 + 3/90	_____

Requisition Number: 25454.0003 CompuChem Number: 491238
Case: 705016 19026-MERA13 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Data Rec'd
_____	_____	( )	
_____	_____	( )	

Requisition Number: 25454.0003 CompuChem Number: 491238
Case: 705016 19026-NERA13 Account Number: 705016

Company Name: US ENVIRON. PROTECTION AGENCY

Reporting 1

US ENVIRON. PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
FINANCIAL MANAGEMENT DIVISION
(MD-32)
Attention: VIAR & CO.
RES. TRI. PK. NC
27709
(680) 168-7017

Requisition Number: 25454.0001
Case: 705016 19026-MERA13
Turnaround: 14 Days Priority: M
Analysis Codes: 994

CompuChem Number: 491239
Account Number: 705016
Due: 5/14/92

Lab Instr

Receiving Data

QC Counter: 686
Log Page: 1454

Origin: 113 0

Action Step: 1
Type: D

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date			Data Rec'd
_____	_____	( )	-190 PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )		
_____	_____	( )		

Requisition Number: 25454.0004 CompuChem Number: 491240
Case: 705016 19026-MERA13 Account Number: 705016
Turnaround: 28 Days Priority: M Due: 5/28/92
Analysis Codes: 2010

Lab Instr

Receiving Data

Sample Identification: C#19026-MERA16
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 01
Receiving Information: 1-8oz JAR
Containers Received: 1-8oz JAR
Matrix: SO Temp: 6C Sampling Date(s): 042992 N

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date				Data Rec'd
_____	_____	( )	-190	PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )	-139	Solid Prep-Cyanide	
_____	_____	( )	-163	Metal Preparation-Solid	
_____	_____	( )	-162	S/S/S PREP. FOR MERCURY	
_____	_____	( )	308	ICP ANAL.; CLP TAL; S/S; SOW 7/88+3/90	_____
_____	_____	( )	1	FUR. AAS; CLP TAL; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	5	C.V. MERC. ANAL.; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	501	CYANIDE ANAL.; S/S; CLP SOW 7/88 + 3/90	_____

Requisition Number: 25454.0004 CompuChem Number: 491840
Case: 705016 19026-MERA13 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Data Rec'd
_____	_____	( )	
_____	_____	( )	

Requisition Number: 25454.0004 CompuChem Number: 491240
Case: 705016 19026-MERA13 Account Number: 705016

Company Name: US ENVIRON. PROTECTION AGENCY

Reporting 1

US ENVIRON. PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
FINANCIAL MANAGEMENT DIVISION
(MD-32)
Attention: VIAR & CO.
RES. TRI. PK. NC
27709
(680) 168-7017

Requisition Number: 25454.0005
Case: 705016 19026-MERA13
Turnaround: 28 Days Priority: M
Analysis Codes: 2010

CompuChem Number: 491241
Account Number: 705016
Due: 5/25/92

Lab Instr STANDING WATER ON TOP

Receiving Data

Sample Identification: C#19026-MERA17
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 01
Receiving Information: 1-8oz JAR
Containers Received: 1-8oz JAR
Matrix: SO Temp: 6C Sampling Date(s): 042992 N

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date				Data Rec'd
_____	_____	( )	-190	PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )	-139	Solid Prep-Cyanide	
_____	_____	( )	-163	Metal Preparation-Solid	
_____	_____	( )	-162	S/S/S PREP. FOR MERCURY	
_____	_____	( )	308	ICP ANAL.; CLP TAL; S/S; SOW 7/88+3/90	____
_____	_____	( )	1	FUR. AAS; CLP TAL; S/S; SOW 7/88 + 3/90	____
_____	_____	( )	5	C.V. MERC. ANAL.; S/S; SOW 7/88 + 3/90	____
_____	_____	( )	501	CYANIDE ANAL.; S/S; CLP SOW 7/88 + 3/90	____

Requisition Number: 25454.0005 CompuChem Number: 491241
Case: 705016 19026-MERA13 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Data Rec'd
_____	_____	( )	
_____	_____	( )	

Requisition Number: 25454.0005 CompuChem Number: 491241
Case: 705016 19026-MERA13 Account Number: 705016

Company Name: US ENVIRON. PROTECTION AGENCY

Reporting 1

US ENVIRON. PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
FINANCIAL MANAGEMENT DIVISION
(MD-32)
Attention: VIAR & CO.
RES. TRI. PK. NC
27709
(680) 168-7017

Requisition Number: 25454.0006
Case: 705016 19026-MERA13
Turnaround: 28 Days Priority: M
Analysis Codes: 2010

CompuChem Number: 491242
Account Number: 705016
Due: 5/28/92

Lab Instr

Receiving Data

Sample Identification: C#19026-MERA18
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 01
Receiving Information: 1-8oz JAR
Containers Received: 1-8oz JAR
Matrix: SO Temp: 6C Sampling Date(s): 042992 N

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date				Data Rec'd
_____	_____	( )	-190	PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )	-139	Solid Prep-Cyanide	
_____	_____	( )	-163	Metal Preparation-Solid	
_____	_____	( )	-162	S/S/S PREP. FOR MERCURY	
_____	_____	( )	308	ICP ANAL.; CLP TAL; S/S; SOW 7/88+3/90	_____
_____	_____	( )	1	FUR. AAS; CLP TAL; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	5	C.V. MERC. ANAL.; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	501	CYANIDE ANAL.; S/S; CLP SOW 7/88 + 3/90	_____

Requisition Number: 25454.0006 CompuChem Number: 491242
Case: 705016 19086-MERA13 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Data Rec'd
_____	_____	( )	
_____	_____	( )	

Requisition Number: 25454.0006 CompuChem Number: 491242
Case: 705016 19026-MERA13 Account Number: 705016

Company Name: US ENVIRON. PROTECTION AGENCY

Reporting 1

US ENVIRON. PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
FINANCIAL MANAGEMENT DIVISION
(MD-32)
Attention: VIAR & CO.
RES. TRI. PK. NC
27709
(680) 168-7017

Requisition Number: 25454.0007 CompuChem Number: 491246
Case: 705016 19026-MERA13 Account Number: 705016
Turnaround: 28 Days Priority: M Due: 5/28/92
Analysis Codes: 2010

Lab Instr

Receiving Data

Sample Identification: C#19026-MERA19
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 01
Receiving Information: 1-8oz JAR
Containers Received: 1-8oz JAR
Matrix: SO Temp: 6C Sampling Date(s): 042992 N

Deliverables

Deliverables Code: 211B03

2 : Archive EPA Tape + Deliver EPA Tape
1 : Refrigerate 30 days beyond report, dispose
1 : Freeze 3 months, Dispose
B : Standard EPA report, organics, extract samples
03 : Report + 2 extra copies

Lab Requirements

Laboratory Completion Date	Repeat Date				Date Rec'd
_____	_____	( )	-190	PERCENT SOLIDS; S/S; SOW 7/87+7/88+3/90	
_____	_____	( )	-139	Solid Prep-Cyanide	
_____	_____	( )	-163	Metal Preparation-Solid	
_____	_____	( )	-162	S/S/S PREP. FOR MERCURY	
_____	_____	( )	308	ICP ANAL.; CLP TAL; S/S; SOW 7/88+3/90	_____
_____	_____	( )	1	FUR. AAS; CLP TAL; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	5	C.V. MERC. ANAL.; S/S; SOW 7/88 + 3/90	_____
_____	_____	( )	501	CYANIDE ANAL.; S/S; CLP SOW 7/88 + 3/90	_____

Requisition Number: 25454.0007 CompuChem Number: 491246
Case: 705016 19026-MERA13 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Date Rec'd
_____	_____	( )	
_____	_____	( )	

Requisition Number: 2545410007 CompuChem Number: 491246
Case: 705016 19026-MERA13 Account Number: 705016

Company Name: US ENVIRON. PROTECTION AGENCY

Reporting 1

US ENVIRON. PROTECTION AGENCY
SAMPLE MANAGEMENT OFFICE
FINANCIAL MANAGEMENT DIVISION
(MD-32)
Attention: VIAR & CO.
RES. TRI. PK. NC
27709
(680) 168-7017

FEDERAL EXPRESS

QUESTIONS? CALL 800-23-5355 TOLL FREE.

AIRBILL

PACKAGE TRACKING NUMBER

2271398706

2271398706

10,000

RECIPIENT'S COPY

1 Date 4/20

From (Your Name) Please Print: Alma Capel

Your Phone Number (Very Important): (512) 2

Company

Department/Floor No.

Street Address

City

State

ZIP Required

2 To (Recipient's Name) Please Print: Brian

Recipient's Phone Number (Very Important): (919) 296-1601

Company: Lab Laboratories

Department/Floor No.

Exact Street Address (Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): Hillsborough

City: Durham

State: NC

ZIP Required: 27705

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): 030-009920

H IF HOLD FOR PICKUP, Print FEDEX Address Here

Street Address

City

State

ZIP Required

3 PAYMENT 1 [ ] Bill Sender 2 [ ] Bill Recipient's FedEx Acct. No. 3 [ ] Bill 3rd Party FedEx Acct. No. 4 [ ] Bill Credit Card 5 [ ] Cash/Check

4 SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning†)
- 11 [ ] YOUR PACKAGING
- 16 [ ] FEDEX LETTER *
- 12 [ ] FEDEX PAK *
- 13 [ ] FEDEX BOX
- 14 [ ] FEDEX TUBE

Standard Overnight (Delivery by next business afternoon†)
- 51 [ ] YOUR PACKAGING
- 56 [ ] FEDEX LETTER *
- 52 [ ] FEDEX PAK *
- 53 [ ] FEDEX BOX
- 54 [ ] FEDEX TUBE

Economy Two-Day (Delivery by second business day†)
- 30 [ ] ECONOMY

Government Overnight (Restricted for authorized users only)
- 46 [ ] GOV'T LETTER
- 41 [ ] GOV'T PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)
- 70 [ ] OVERNIGHT FREIGHT ** (Confirmed reservation required)
- 80 [ ] TWO-DAY FREIGHT **

† Delivery commitment may be later in some areas

* Declared Value Limit $100

** Call for delivery schedule

5 DELIVERY AND SPECIAL HANDLING (Check services required)

1. [ ] HOLD FOR PICK-UP (Fill in Box H)
2. [X] DELIVER WEEKDAY
3. DELIVER SATURDAY (Extra charge) (Not available to all locations) [ ]
4. [ ] DANGEROUS GOODS (Extra charge)
5. [ ]
6. [ ] DRY ICE Lbs
7. [ ] OTHER SPECIAL SERVICE
8. [ ]
9. [ ] SATURDAY PICK-UP (Extra charge)
10. [ ]
11. [ ]
12. [ ] HOLIDAY DELIVERY (If offered) (Extra charge)

6

PACKAGES	WEIGHT In Pounds Only	YOUR DECLARED VALUE
	160	
Total	Total 160	Total

DIM SHIPMENT (Chargeable Weight) [ ] lbs.

L x W x H =

Received At
- 1 [ ] Regular Stop
- 2 [ ] On-Call Stop
- 3 [ ] Drop Box
- 4 [ ] B.S.C.
- 5 [ ] Station

Emp. No.

Date

[ ] Cash Received

[ ] Return Shipment

[ ] Third Party [ ] Chg. To Del. [ ] Chg. To Hold

Street Address

City State Zip

Received By: X J. Pardie

Date/Time Received: 4-30-92 0830

FedEx Employee Number

7 Release Signature:

Date/Time

FedEx Emp. No.

Federal Express Use

Base Charges

Declared Value

Other 1

Other 2

Total Charges

REVISION DATE 8/89
PART # 113720
FORMAT #09

0.99

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MULTIPLE PACKAGE SERVICE

IF YOU ARE MAKING AN MPS SHIPMENT, APPLY THE SELF ADHESIVE MPS COPY HERE

TERMS AND CONDITIONS

DEFINITIONS

On this Airbill, we, our, us refer to Federal Express Corporation, its employees and agents. You and your refer to the sender, its employees and agents.

AGREEMENT TO TERMS

By giving us your package to deliver, you agree to all the terms on this Airbill and in our current Service Guide, which is available on request. If there is a conflict between the current Service Guide and this Airbill, the Service Guide will control. No one is authorized to alter or modify the terms of our Agreement.

RESPONSIBILITY FOR PACKAGING AND COMPLETING AIRBILL

You are responsible for adequately packaging your goods and for properly filling out this Airbill. Omission of the number of packages and weight per package from this Airbill will result in a billing based on our best estimate of the number of packages received from you and an estimated "default" weight per package, as determined and periodically adjusted by us.

AIR TRANSPORTATION TAX INCLUDED

Our basic rate includes a federal tax required by Internal Revenue Code Section 4271 on the air transportation portion of this service.

LIMITATIONS ON OUR LIABILITY AND LIABILITIES NOT ASSUMED

Our liability for loss or damage to your package is limited to your actual damages or $100, whichever is less, unless you pay for and declare a higher authorized value. We do not provide cargo liability insurance, but you may pay an additional charge for each additional $100 of declared value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your package.

In any event we will not be liable for any damages, whether direct, incidental, special or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including, but not limited to, loss of income or profits.

We won't be liable for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking or addressing, or for the acts or omissions of the recipient or anyone else with an interest in the package. Also, we won't be liable if you or the recipient violates any of the terms of our agreement. We won't be liable for loss of or damage to shipments of prohibited items.

We won't be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts or omissions of public authorities (including customs and quarantine officials) with actual or apparent authority.

DECLARED VALUE LIMITS

The highest declared value we allow for FedEx Letter and FedEx Pak shipments is $100. For other shipments, the highest declared value we allow is $25,000 unless your package contains items of "extraordinary value," in which case the highest declared value we allow is $500. Items of "extraordinary value," include artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our current Service Guide.

If you send more than one package on this Airbill, you may fill in the total declared value for all packages, not to exceed the $100, $500 or $25,000 per package limit described above. (Example: 5 packages can have a total declared value of up to $125,000.)

If more than one package is shipped on this airbill, our liability for loss or damage will be limited to the actual value of the package(s) lost or damaged (not to exceed the lesser of the total declared value or the per package limits described above). You have the responsibility of proving the actual loss or damage.

FILING A CLAIM

ALL CLAIMS MUST BE MADE BY YOU IN WRITING: You must notify us of your claim within strict time limits. See current Service Guide.

We'll consider your claim filed if you call and notify our Customer Service Department at 800-238-5355 and notify us in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all relevant information about it. We are not obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume that the package was delivered in good condition. In order for us to process your claim, you must, to the extent possible, make the original shipping cartons and packing available for inspection.

RIGHT TO INSPECT

We may, at our option, open and inspect your packages prior to or after you give them to us to deliver.

NO C.O.D. SERVICES

NO C.O.D. SERVICES ON THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill for this purpose.

RESPONSIBILITY FOR PAYMENT

Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any costs we may incur in either returning your package to you or warehousing it pending disposition.

RIGHT OF REJECTION

We reserve the right to reject a shipment at any time, when such shipment would be likely to cause damage or delay to other shipments, equipment or personnel, or if the transportation of which is prohibited by law or is in violation of any rules contained in this Airbill or our current Service Guide.

MONEY-BACK GUARANTEE

In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for further information.

Part #137204/137205
Rev. 6/91

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No. (if applicable):

Case No.: 19026

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

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

3. Region No.: 5

Sampling Co.: PRC

Sampler (Name): C. Hirschman

Sampler Signature: C. Hirschman

4. Type of Activity

Lead		Pre-Remedial		Remedial		Removal	
SF				RIFS		CLEM	
PRP		PA		RD		REMA	
ST		SSI	X	RA		REM	
FED		LSI		O&M		OIL	
				NPLD		UST	

5. Date Shipped: 4/29/92

Carrier: Federal Express

Airbill Number: 2271348706

6. Ship To: Compuchem Laboratories, 3308 Chapel Hill/Nelson Highway, Research Triangle Park, NC 27709

ATTN: Terry Evans

7. Date Received -- Received by: 4.30.92 Joan Purdie

Laboratory Contract Number: 68D00150

Unit Price: 99.00

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # from Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E - RAS Analysis: Metals Total	Metals Dissolved	Cyanide	Low Conc. only: Nitrate/ Nitrite	Fluoride	High only: pH	Conductivity	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Sample Condition on Receipt	L High Conc. Phases (Check below): Solids	Water -- MIS Liq.	Non Water -- Mis Liq.
~~EQKMERA12~~	~~5~~	~~L~~	~~C~~	~~N~~	~~X~~		~~X~~					~~5-046548~~	~~SD-1~~	~~4/29/92~~	~~CLH~~	~~EQK12~~				
MERA 13	1	1	1	1	X		X					5-046552	SD-2	4/29/92	1	EQK13				
MERA 14	1	1	1	1	X		X					5-046556	SD-3	4/29/92	1	EQK14				
MERA 15	1	1	1	1	X		X					5-046560	SD-4	4/29/92	1	EQK15				
MERA 16	1	1	1	1	X		X					5-046564	SD-5	4/29/92 1300	1	EQK16				
MERA 17	1	1	1	1	X		X					5-046568	SD-6	4/29/92 1230	1	EQK17				
MERA 18	1	1	1	1	X		X					5-046572	SD-7	4/29/92 1045	1	EQK18				
MERA 19	↓	↓	↓	↓	X		X					5-046576	SD-8	4/29/92 1030	↓	EQK19				
												49/230	49/238	~~4/29/92~~ 49/241		~~49/296~~				
												231	240	242		49/296				

Shipment for Case complete? (Y/N)

Page 1 of 2

Sample used for a spike and/or duplicate: MERA 14, MERA 32

Additional Sampler Signatures

Chain of Custody Seal Number: 157437, 157438

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
C. Hirschman	4/29/92 1425	Christopher P. Cappel	Christopher P. Cappel	4/29/92 1630	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? (Y)/N/none
		Joan Purdie	4.30.92 0830		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION 4/30/92

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Inorg-2

U34605

10,081

Inorganic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Metals Analysis (Low Level)	1 Liter	1 X 1-Liter Polyethylene Bottle OR 2 X 500-ml. Polyethylene Bottle
Metals Analysis (Medium Level*)	16 oz.	1 X 16-oz Wide-Mouth Glass Jar
Extractable Analysis (Medium Level*)	1 Liter	1 X 1-Liter Polyethylene Bottle OR 2 X 500-ml. Polyethylene Bottle
Volatile Analysis (Low or Medium Level*)	16 oz.	1 X 16-oz. Wide-Mouth Glass Jar

Soil/Sediment Samples	Required Volume	Container Type
Metals and Cyanide (CN^-) Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar OR 2 X 4-oz. Wide-Mouth Glass Jars

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Metals and Cyanide* Analysis	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

1. Inorganic Sample Collection Requirements

- Aqueous samples require one double-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Preserve low level water samples:

Total metals	Preserve with HNO_3 to pH ≤ 2.
Dissolved metals	Preserve with HNO_3 to pH ≤ 2. No further digestion required.
Cyanide	Preserve with 10 NaOH to pH ≥12.

- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Ship medium and high concentration samples in paint cans.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Overlap the lid and bottle of each sample container with custody seals.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- Send SMO the pink copy of the Traffic Report within 5 days.
- In column E RAS analysis indicate number of sample bottles sent for analysis.

3. Sample Shipment Reporting

- PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
  Required information:
  - Case (and/or SAS) Number
  - Date shipped
  - Number of samples by concentration and matrix
  - Carrier and airbill number
  - Next planned shipment

  Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM. (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

  USEPA Contract Laboratory Program
  Sample Management Office
  P.O. Box 818
  Alexandria, VA 22313
  Phone: (703) 557-2490
  (703) 684-5678
  FAX: (703) 683-0378

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No. (if applicable):

Case No.: 19026

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

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

3. Region No.: 5

Sampling Co.: PRC

Sampler (Name): C. Hirschman

Sampler Signature: C. Hirschman

4. Type of Activity

Lead		Pre-Remedial		Remedial		Removal	
SF	✓			RIFS		CLEM	
PRP		PA		RD		REMA	
ST		SSI	✓	RA		REM	
FED		LSI		O&M		OIL	
				NPLD		UST	

5. Date Shipped: 4/29/92

Carrier: Federal Express

Airbill Number: 2271398706

6. Ship To: Compuchem Laboratories, 3308 Chapel Hill/Nelson Highway, Research Triangle Park, NC 27709

ATTN: Terry Evans

7. Date Received -- Received by: 4.30.92 Jan Purdie

Laboratory Contract Number: 68D00150

Unit Price: 99.00

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # from Box 1	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative from Box 6	E - RAS Analysis: Metals Total	Metals Dissolved	Cyanide	Low Conc. only: Nitrate/ Nitrite	Fluoride	High only: pH	Conductivity	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Sample Condition on Receipt	L High Conc. Phases (Check below): Solids	Water -- MIS Liq.	Non Water -- Mis Liq.
MERA30	1	L	G	2	X							5-046609	SW-1	4/29/92 1100	CLH	EQK30				
MERA 30	1	1	1	3			X					5-046610	SW-1	4/29/92 1100	1	EQK30				
MERA 31	1	1	1	2	X							5-046615	SW-1D	4/29/92 1100	1	EQK31				
MERA 31	1	1	1	3			X					5-046616	SW-1D	4/29/92 1100	1	EQK31				
MERA32	1	1	1	2	X							5-046627, 5-046628	SW-2	4/29/92 1245	1	EQK32				
MERA 32	1	1	1	3			X					5-046629, 5-046630	SW-2	4/29/92 1245	1	EQK32				
MERA 33	1	1	1	2	X							5-046635	FB-1	4/29/92 1210	1	EQK33				
MERA33	↓	↓	↓	3			X					5-046636	FB-1	4/29/92 1210	↓	EQK33				
												491248	491260							
												1252	1263							

Shipment for Case complete? (Y/N):

Page 1 of 8

Sample used for a spike and/or duplicate: MERA32, MERA14

Additional Sampler Signatures: C. Hirschman

Chain of Custody Seal Number: 157437, 157438

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
C. Hirschman	4/29/92 1615	Christopher P. Cappel	Christopher P. Cappel	4/29/92 1630	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? (Y/N/none)	
		Jan Purdie	4.30.92 0830		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION 4.30.92

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Inorg-2

10,807

Inorganic Sample Collection Requirements

"This form replaces both the individual Traffic Report and EPA Chain of Custody Record. If the sampling team elects to use an alternative chain-of-custody form, cross out the bottom portion of this record and indicate that chain-of-custody information is recorded on an alternative form."

Water Samples	Required Volume	Container Type
Metals Analysis (Low Level)	1 Liter	1 X 1-Liter Polyethylene Bottle OR 2 X 500-ml. Polyethylene Bottle
Metals Analysis (Medium Level*)	16 oz.	1 X 16-oz Wide-Mouth Glass Jar
Extractable Analysis (Medium Level*)	1 Liter	1 X 1-Liter Polyethylene Bottle OR 2 X 500-ml. Polyethylene Bottle
Volatile Analysis (Low or Medium Level*)	16 oz.	1 X 16-oz. Wide-Mouth Glass Jar

Soil/Sediment Samples	Required Volume	Container Type
Metals and Cyanide (CN^-) Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar OR 2 X 4-oz. Wide-Mouth Glass Jars

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Metals and Cyanide* Analysis	6 oz.	1 X 8-oz.Wide-Mouth Glass Jar

*All Medium and High Level Samples to be Sealed in Metal Can for Shipment

1. Inorganic Sample Collection Requirements

- Aqueous samples require one double-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- Preserve low level water samples:

Total metals	Preserve with HNO_3 to pH ≤ 2.
Dissolved metals	Preserve with HNO_3 to pH ≤ 2. No further digestion required.
Cyanide	Preserve with 10 NaOH to pH ≥12.

- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Ship medium and high concentration samples in paint cans.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Overlap the lid and bottle of each sample container with custody seals.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- Send SMO the pink copy of the Traffic Report within 5 days.
- In column E RAS analysis indicate number of sample bottles sent for analysis.

3. Sample Shipment Reporting

- PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)
  Required information:
  - Case (and/or SAS) Number
  - Date shipped
  - Number of samples by concentration and matrix
  - Carrier and airbill number
  - Next planned shipment

  Leave your name and a number where you can be reached.
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM. (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

  USEPA Contract Laboratory Program
  Sample Management Office
  P.O. Box 818
  Alexandria, VA 22313
  Phone: (703) 557-2490
  (703) 684-5678
  FAX: (703) 683-0378

EPA

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Inorganic Traffic Report & Chain of Custody Record

(For Inorganic CLP Analysis)

SAS No. (If applicable):

Case No.: 19026

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

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

3. Region No.: 5

Sampling Co.: PRC

Sampler (Name): C. Hirschman

Sampler Signature: C. Hirschman

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	✓		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped: 4/29/92

Carrier: Federal Express

Airbill Number: 2271398706

6. Ship To: Compuchem Laboratories
3308 Chapel Hill/Nelson Highway
Research Triang Park, NC 27709
ATTN: Terry Evans

7. Date Received -- Received by: 4.30.92 Jan Furdee

Laboratory Contract Number: 68D00150

Unit Price: 99.00

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # from Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E - RAS Analysis: Metals Total	Metals Dissolved	Cyanide	Low Conc. only: Nitrate/Nitrite	Fluoride	High only: pH	Conductivity	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Org. Samp. No.	K Sample Condition on Receipt	L High Conc. Phases (Check below): Solids	Water - MIS Liq.	Non Water - MIS Liq.
MERA30	1	L	G	2	X							5-046609	SW-1	4/29/92 1100	CLH	EQK30				
MERA30				3			X					5-046610	SW-1	4/29/92 1100		EQK30				
MERA31				2	X							5-046615	SW-1D	4/29/92 1100		EQK31				
MERA31				3			X					5-046616	SW-1D	4/29/92 1100		EQK31				
MERA32				2	X							5-046627, 5-046628	SW-2	4/29/92 1245		EQK32				
MERA32				3			X					5-046629, 5-046630	SW-2	4/29/92 1245		EQK32				
MERA33				2	X							5-046635	FB-1	4/29/92 1210		EQK33				
MERA33				3			X					5-046636	FB-1	4/29/92 1210		EQK33				
												491248	491260							
												1252	1263							

Shipment for Case complete? (Y/N): Y

Page 1 of 2

Sample used for a spike and/or duplicate: MERA32, MERA14

Additional Sampler Signatures: Jan Furdee

Chain of Custody Seal Number: 157437, 157438

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Christopher Hirschman	4/29/92 1425	Christopher P. Cappel	Christopher P. Cappel	4/29/92 1630	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? (Y/N/none)
		Jan Furdee	4.30.92 0830		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION 4.30.92

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

034604

Inorg-2

T0003

SAMPLE LOG-IN SHEET

Lab Name: CompuChem

Page 1 of 1

Received By (Print Name): Joan Purdie

Log-in Date: 4·30·92

Received By (Signature): Joan Purdie

Case Number: 19626

Sample Delivery Group No.: MERA13, 30

SAS Number: —

REMARKS:

1. Custody Seal(s) — Present/Absent* Intact/Broken
2. Custody Seal Nos.: N/A
3. Chain-of-Custody Records — Present/Absent*
4. Traffic Reports or Packing List — Present/Absent*
5. Airbill — Airbill/Sticker Present/Absent*
6. Airbill No.: 227 398706
7. Sample Tags — Present/Absent*
   Sample Tag Numbers — Listed/Not Listed on Chain-of-Custody
8. Sample Condition: Intact/Broken*/Leaking
9. Does information on custody records, traffic reports, and sample tags agree? Yes/No*
10. Date Received at Lab: 4·30·92
11. Time Received: 0830

Sample Transfer

Fraction: _____ _____

Area #: _____ _____

By: _____ _____

On: _____ _____

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
MERA13	046,552	491,230	
14	556	231	
15	560	238	
16	564	240	
17	568	241	
18	572	242	
19	576	246	
30	609,610	248	
31	615,616	252	
32	627-630	260	
33	635,636	263	
			4·30·92

* Contact SMO and attach record of resolution

Reviewed By: _____

Date: _____

Logbook No.: _____

Logbook Page No: _____

FORM DC-1

ORIGINAL

COMPUCHEM LABORATORIES, INC.

SAMPLE DELIVERY GROUP (SDG) TRAFFIC REPORT (TR) COVER SHEET

P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

Lab Name: CompuChem **Contract No.:** ~~68-01-~~ 68D00150

Lab Code: Compu **Case No.:** 19026 **SAS No.:** _____-_____

Full Sample Analysis Price in Contract: $ 99.08

SDG No./First Sample in SDG: MERA30 **Sample Receipt Date:** 4.30.92 (MM/DD/YY)
(Lowest EPA Sample Number in first shipment of samples received under SDG)

Last Sample in SDG: MERA33 **Sample Receipt Date:** 4.30.92 (MM/DD/YY)
(Highest EPA Sample Number in last shipment of samples received under SDG)

EPA Sample Numbers in the SDG (listed in alphanumeric order):

1	MERA30	11	
2	31	12	
3	32	13	
4	33 Last sample in SDG-MERA30	14	
5		15	
6		16	5.16.92
7	5.16.92	17	
8		18	
9		19	
10		20	

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

Joan Purdie
Sample Custodian

5.16.92
Date

10005

10006

COMPUCHEM LABORATORIES
ENVIRONMENTAL RECEIVING LOG

RECEIVED ON: 4·30·92
CASE # 19026 ORG/INORG:
DELIVERED BY: Fed-x
ACCOUNT #: 705016 CONTRACT # 68D00150

ORDER# 25454
FREIGHT #'s 2271398706
REGION: V $ AMT: 99.00

OF PAGES 1 OF 2
CASE I'D MERA13
TAT 28 C-OF-C Y or N
TAGS Y or N

#	REMARKS	REQ	SAMPLE ID	CC#	SD	TEMP	Sul	Chl	pH	ANAL. CODES	MX	VOLUME
1		1	MERA13	491230	4·29	6	NA	NA	NA	2010	SO	1-8oz
2	QC	2	14	491231								
3	Standing water on top	3	15	491238								
4		4	16	491240								
5	Standing water on top	5	17	491241								
6		6	18	491242								
7		7	19	491246								
8												
9												
10												
11												
12										JP 4·30·92		
13												
14												
15												
16												
17												
18												
19												
20												

LOGGED-IN BY: J. Purdie RECEIVED BY: J. Purdie REVIEWED:

10007

COMPUCHEM LABORATORIES
ENVIRONMENTAL RECEIVING LOG

RECEIVED ON: 4·30·92
CASE # 19026 ORG/INORG:
DELIVERED BY: Fed-x
ACCOUNT #: 705016 CONTRACT # 68D00150

ORDER# 25454
FREIGHT #'s 2271398706
REGION: V $ AMT: 99.00

OF PAGES 2 OF 2
CASE I'D MERA30
TAT 28 C-OF-C Y or N
TAGS Y or N

#	REMARKS	REQ	SAMPLE ID	CC#	SD	TEMP	Sul	Chl	pH	ANAL. CODES	MX	VOLUME
1		8	MERA30	491248	4:29	4	NA	NA	2/2	2008	wa	2-pl. liters
2		9	31	491252								
3	QC	10	32	491250								4-pl. liters
4	FB	11	33	491263								2-pl. liters
5												
6												
7												
8												
9												
10												
11												
12										4·30·92		
13												
14												
15												
16												
17												
18												
19												
20												

LOGGED-IN BY: J. Purdie RECEIVED BY: J. Purdie REVIEWED:

COMPUCHEM LABORATORIES, INC.

RECEIVING CHECK-OFF SHEET

CLIENT NAME:	(#19026
RECEIPT DATE:	4·30·92
ORDER #:	25454

C-OF-C SIGNED, STAMPED, & INITIALED?:	✓
pH TAKEN	✓
TEMPERATURE TAKEN	✓
INTERNAL TURN-AROUND	28
REQs COINCIDE?	✓
LIST HOLDING BLANK #s	no
GRAY FOLDER REQUIRED? MADE?	✓
SUBCONTRACT INFO SHEET RECV'D	no
SUBCONTRACT TELEFAXED?	
SUBCONTRACT PROJECT #?	

RECEIVING SIGNATURE: J. Purdie

10008

COMPUCHEM
LABORATORIES, INC.

COMPUCHEM

CONTENTS OF FOLDER

DATE: 5·1·92

EPA: ( ) ORGANIC (✓) INORGANIC

COMMERCIAL: ( )

CASE #: 19026

CLIENT:

NO. OF TRAFFIC RPTS: 2

ORDER#:

	ITEM	Y	N	NA
1	CHAIN–OF–CUSTODY	(✓)	( )	( )
2	AIRBILL	(✓)	( )	( )
3	DAILY LOG SHEET	(✓)	( )	( )
4	TRAFFIC REPORT	(✓)	( )	( )
5	TAGS	(✓)	( )	( )
6	SMO COVER LETTER	(✓)	( )	( )
7	SCHEDULING LOG	(✓)	( )	( )

COMMENTS

5·1·92

PROBLEMS/COMMENTS: none

5·1·92

SAMPLE RECEIVING: J. Purdie

DOCUMENTATION CONTROL:

COMPUCHEM LABORATORIES

EPA SCHEDULING LOG

WEEK ENDING SATURDAY: 5·2·92

CASE#: 19026 (✓) NEW CASE ( ) OLD CASE (✓) COMPLETED CASE

REGION: V TURNAROUND TIME: 28

ACCOUNT #: 705016 CONTRACT #: 68D00150 CONTRACT $ 99.00

****

QUANITY RECEIVED 11 # OF SAMPLES

WATERS	4
SEDIMENTS/SOILS	7
OTHER	

CONCENTRATION: (✓) LOW ( ) MEDIUM ( ) HIGH

ORDER#:	25454
AIRBILL#:	2271398706

****

PROBLEMS/COMMENTS: none

SMO CONTACTED AT (TIME) SPOKE TO: 5·1·92

RESOLUTION FROM SMO:

10010

COMPUCHEM LABORATORIES, INC. P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

22/MAY/92

RECEIVED
MAY 26 1992
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Mr. Chuck Elly
USEPA Region V, ESD
536 S. Clark Street
Tenth Floor, 5SCRL
Chicago, IL 60605

Subject: EPA Contract 68-D0-0150 Case# 19026 SDG# MERA13

Dear Mr. Elly

Enclosed are the results of analytical data performed in accordance with the referenced contract.

This report covers 7 sample(s) and the associated Quality Control Data for those samples received by CompuChem identified as EPA Case Number 19026 .

If you have any questions regarding this data package, please contact me at 1-919-549-8263.

Sincerely,

For Elise Cobb
Supervisor, Report Deliverables

Attachment

cc: Sample Management Office
EMSL
Accounting

COMPUCHEM LABORATORIES, INC.

22/MAY/92

Mr. Chuck Elly
USEPA Region V, ESD
536 S. Clark Street
Tenth Floor, 5SCRL
Chicago, IL 60605

REPORT OF DATA FOR - EPA CASE# 19026 SDG# MERA13

CC#	SMO ITR #	MATRIX	RECEIPT DATE
491230	MERA13	SO	4/30/92
491231	MERA14	SO	4/30/92
491238	MERA15	SO	4/30/92
491240	MERA16	SO	4/30/92
491241	MERA17	SO	4/30/92
491242	MERA18	SO	4/30/92
491246	MERA19	SO	4/30/92

TOTAL NUMBER OF SAMPLES = 7

RECEIVED
MAY 26 1992
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

COMPUCHEM LABORATORIES, INC. P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

INORGANIC CASE SUMMARY NARRATIVE
CASE # 19026 SDG # MERA13
CONTRACT # 68-D0-0150

The indicated Sample Delivery Group (SDG) consisting of seven soil samples was received on April 30, 1992 intact and in good condition with Chain of Custody (COC) Records in order. The samples were analyzed, in accordance with EPA CLP Statement of Work (SOW) 3/90 for the entire Inorganic Target Analyte List (TAL).

SAMPLE IDs:

The following customer IDs are associated with this SDG:

MERA13, MERA14, MERA15, MERA16, MERA17, MERA18, MERA19

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCS & PB) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, MERA14S, was found to be outside CLP control limits for antimony, arsenic, lead, and silver. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

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CLP control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

A post-distillation spike for cyanide analysis is also required if unsatisfactory recoveries are observed for matrix spike samples. The result of this spike is also presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-preparation spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate MERA14D, was out of control for lead. The reported concentrations for these analytes are flagged with a "*" on all associated Form 1 and on Form 6.

A "*" indicates a non-homogeneous sample matrix in regard to the flagged analyte. This is normally the consequence of a relatively coarse texture or of a mixed-matrix in sediment samples.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

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A five-fold serial dilution of sample MERA14L was performed in accordance with CLP requirements for ICP analysis. The adjusted sample concentrations were inside CLP control limits for all requested analytes.

CLP control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

A "W" flag appears on a sample specific basis in the Form 1 for the following: selenium in samples MERA14, MERA18, MERA19; thallium in samples MERA13, MERA15, MERA17, MERA18.

This qualifier flag indicates that a slight matrix related interference is present for the analyte as determined by analytical spike recovery that is wide of the 85% to 115% CLP acceptability limits in samples which exhibit relatively low concentrations of the analyte.

Analyte determination by the Method of Standard Additions (MSA) is required for arsenic in samples MERA15, MERA17, MERA18 due to the CLP mandate to reduce or eliminate result uncertainty from severe matrix related interferences for graphite furnace analysis in effected samples by this procedure.

Results obtained by this method are flagged with "S" on Form 1 if the correlation coefficient obtained during the analysis meets CLP linearity guidelines (0.995 or greater correlation) or with a "+" if acceptable linearity cannot be achieved after two separate determinations.

Release of the data contained in this hard copy data package has been authorized by the laboratory Manager or his designee, as verified by the following signature.

Jeanne Alston
Jeanne Alston
Inorganic Division
May 22, 1992

DESIGNATE	
Grab	
Comp.	✓

Time: 1530

Month/Day/Year: 4/29/92

Samplers (signatures): C. Hirschman

Sample Number: MERA 13

Station Number and Location: SD2

Case # or Project Code: 19026

PRESERVATIVE: H_2SO_4 ☐ None

HCL ☐ HNO_3 ☐ NaOH ☐ Other ☐

ANALYSES			
VOA		METALS	X
ABN		CYANIDE	X
PEST/PCB			
		Mercury	
Pesticides		Fluoride	
Herbicides		Nitrate/Nitrite	
PCB		TOC	
PCDD/PCDF		BOD	
2,3,7,8-TCDD		COB	
Ames Mutagen		TDS	
Asbestos		TSS	
Phosphorus		O&G	
TO1		Sulfate	
TO2		Chloride	
		Sulfide	
TOX		Ammonia	
CBOD		Alkalinity	
Bio-Acute		Acidity	
Bio-Chronic		TKN	

Remarks:

USE FOR MS/MSD ☐

Tag Number 5— 046552

Lab Sample Number

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

EPA

U. S. EPA - CLP
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

SOW No.: 3/90

EPA Sample No.	Lab Sample ID
MERA13	491230
MERA14	491231
MERA14D	491236
MERA14S	491235
MERA15	491238
MERA16	491240
MERA17	491241
MERA18	491242
MERA19	491246

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US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

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

Comments:

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

Signature: Jeanne C. Acton for Name: Robert Hamrick

Date: May 22, 1992 Title: Manager Inorg-Div.

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA13

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491230

Level (low/med): LOW Date Received: 4/30/92

% Solids: 59.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7050.00			P
7440-36-0	Antimony	18.10	U	N	P
7440-38-2	Arsenic	6.90		N	F
7440-39-3	Barium	82.90			P
7440-41-7	Beryllium	.72	B		P
7440-43-9	Cadmium	1.70	U		P
7440-70-2	Calcium	13600.00			P
7440-47-3	Chromium	13.60			P
7440-48-4	Cobalt	11.00	B		P
7440-50-8	Copper	14.70			P
7439-89-6	Iron	21500.00			P
7439-92-1	Lead	12.70		N*	F
7439-95-4	Magnesium	1800.00			P
7439-96-5	Manganese	1500.00			P
7439-97-6	Mercury	.17	U		CV
7440-02-0	Nickel	19.60			P
7440-09-7	Potassium	985.00	B		P
7782-49-2	Selenium	1.00	U		F
7440-22-4	Silver	3.40	U	N	P
7440-23-5	Sodium	216.00	B		P
7440-28-0	Thallium	.67	U	W	F
7440-62-2	Vanadium	15.00	B		P
7440-66-6	Zinc	62.70			P
	Cyanide	.84	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA14

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491231

Level (low/med): LOW Date Received: 4/30/92

% Solids: 72.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7010.00			P
7440-36-0	Antimony	15.00	U	N	P
7440-38-2	Arsenic	13.80		N	F
7440-39-3	Barium	73.80			P
7440-41-7	Beryllium	.93	B		P
7440-43-9	Cadmium	1.40	U		P
7440-70-2	Calcium	21400.00			P
7440-47-3	Chromium	15.40			P
7440-48-4	Cobalt	22.20			P
7440-50-8	Copper	19.60			P
7439-89-6	Iron	35900.00			P
7439-92-1	Lead	19.50		N*	F
7439-95-4	Magnesium	2930.00			P
7439-96-5	Manganese	1420.00			P
7439-97-6	Mercury	.14	U		CV
7440-02-0	Nickel	40.00			P
7440-09-7	Potassium	848.00	B		P
7782-49-2	Selenium	.83	U	W	F
7440-22-4	Silver	2.80	U	N	P
7440-23-5	Sodium	184.00	B		P
7440-28-0	Thallium	.55	U		F
7440-62-2	Vanadium	17.20			P
7440-66-6	Zinc	93.70			P
	Cyanide	.69	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA15

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491238

Level (low/med): LOW Date Received: 4/30/92

% Solids: 32.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9160.00			P
7440-36-0	Antimony	32.70	U	N	P
7440-38-2	Arsenic	8.30		SN	F
7440-39-3	Barium	117.00	B		P
7440-41-7	Beryllium	1.20	B		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	56700.00			P
7440-47-3	Chromium	16.70			P
7440-48-4	Cobalt	14.70	B		P
7440-50-8	Copper	20.40			P
7439-89-6	Iron	25800.00			P
7439-92-1	Lead	17.40		N*	F
7439-95-4	Magnesium	2880.00	B		P
7439-96-5	Manganese	1050.00			P
7439-97-6	Mercury	.29	U		CV
7440-02-0	Nickel	27.50			P
7440-09-7	Potassium	1740.00	U		P
7782-49-2	Selenium	1.80	U		F
7440-22-4	Silver	6.10	U	N	P
7440-23-5	Sodium	374.00	B		P
7440-28-0	Thallium	1.20	U	W	F
7440-62-2	Vanadium	19.70	B		P
7440-66-6	Zinc	97.70			P
	Cyanide	1.50	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA16

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491240

Level (low/med): LOW Date Received: 4/30/92

% Solids: 44.6

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8990.00			P
7440-36-0	Antimony	24.20	U	N	P
7440-38-2	Arsenic	8.70		N	F
7440-39-3	Barium	88.40	B		P
7440-41-7	Beryllium	1.10	B		P
7440-43-9	Cadmium	2.20	U		P
7440-70-2	Calcium	13200.00			P
7440-47-3	Chromium	29.50			P
7440-48-4	Cobalt	18.90	B		P
7440-50-8	Copper	19.50			P
7439-89-6	Iron	42300.00			P
7439-92-1	Lead	14.40		N*	F
7439-95-4	Magnesium	2980.00			P
7439-96-5	Manganese	1470.00			P
7439-97-6	Mercury	.22	U		CV
7440-02-0	Nickel	32.20			P
7440-09-7	Potassium	1550.00	B		P
7782-49-2	Selenium	1.30	U		F
7440-22-4	Silver	4.50	U	N	P
7440-23-5	Sodium	267.00	B		P
7440-28-0	Thallium	.88	U	W	F
7440-62-2	Vanadium	22.60			P
7440-66-6	Zinc	93.60			P
	Cyanide	1.10	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA17

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491241

Level (low/med): LOW Date Received: 4/30/92

% Solids: 39.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9430.00			P
7440-36-0	Antimony	26.60	U	N	P
7440-38-2	Arsenic	7.60		SN	F
7440-39-3	Barium	88.20	B		P
7440-41-7	Beryllium	.87	B		P
7440-43-9	Cadmium	2.50	U		P
7440-70-2	Calcium	106000.00			P
7440-47-3	Chromium	327.00			P
7440-48-4	Cobalt	13.30	B		P
7440-50-8	Copper	16.30			P
7439-89-6	Iron	23900.00			P
7439-92-1	Lead	22.50		N*	F
7439-95-4	Magnesium	13400.00			P
7439-96-5	Manganese	1660.00			P
7439-97-6	Mercury	.25	U		CV
7440-02-0	Nickel	26.90			P
7440-09-7	Potassium	1410.00	U		P
7782-49-2	Selenium	1.50	U		F
7440-22-4	Silver	4.90	U	N	P
7440-23-5	Sodium	377.00	B		P
7440-28-0	Thallium	1.00	U	W	F
7440-62-2	Vanadium	20.90	B		P
7440-66-6	Zinc	147.00			P
	Cyanide	1.30	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA18

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491242

Level (low/med): LOW Date Received: 4/30/92

% Solids: 74.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5060.00			P
7440-36-0	Antimony	14.50	U	N	P
7440-38-2	Arsenic	4.60		SN	F
7440-39-3	Barium	44.90	B		P
7440-41-7	Beryllium	.67	B		P
7440-43-9	Cadmium	1.30	U		P
7440-70-2	Calcium	17300.00			P
7440-47-3	Chromium	24.40			P
7440-48-4	Cobalt	11.50	B		P
7440-50-8	Copper	9.60			P
7439-89-6	Iron	25400.00			P
7439-92-1	Lead	10.50		N*	F
7439-95-4	Magnesium	2050.00			P
7439-96-5	Manganese	771.00			P
7439-97-6	Mercury	.13	U		CV
7440-02-0	Nickel	21.00			P
7440-09-7	Potassium	772.00	U		P
7782-49-2	Selenium	.81	U	W	F
7440-22-4	Silver	2.70	U	N	P
7440-23-5	Sodium	168.00	B		P
7440-28-0	Thallium	.54	U	W	F
7440-62-2	Vanadium	14.30			P
7440-66-6	Zinc	60.00			P
	Cyanide	.67	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA19

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix (soil/water): SOIL Lab Sample ID: 491246

Level (low/med): LOW Date Received: 4/30/92

% Solids: 70.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5090.00			P
7440-36-0	Antimony	15.40	U	N	P
7440-38-2	Arsenic	6.40		N	F
7440-39-3	Barium	47.00	B		P
7440-41-7	Beryllium	.68	B		P
7440-43-9	Cadmium	1.40	U		P
7440-70-2	Calcium	9570.00			P
7440-47-3	Chromium	16.80			P
7440-48-4	Cobalt	12.20	B		P
7440-50-8	Copper	11.00			P
7439-89-6	Iron	23600.00			P
7439-92-1	Lead	15.60		N*	F
7439-95-4	Magnesium	1790.00			P
7439-96-5	Manganese	767.00			P
7439-97-6	Mercury	.14	U		CV
7440-02-0	Nickel	21.20			P
7440-09-7	Potassium	819.00	U		P
7782-49-2	Selenium	.86	U	W	F
7440-22-4	Silver	2.90	U	N	P
7440-23-5	Sodium	162.00	B		P
7440-28-0	Thallium	.57	U		F
7440-62-2	Vanadium	13.10	B		P
7440-66-6	Zinc	61.10			P
	Cyanide	.71	U		AS

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
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Inorganic Case 19026 MERA 13 011

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3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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	57.0	U	57.0	U	57.0	U	57.0	U	14.885	B	P
Antimony	54.0	U	54.0	U	54.0	U	54.0	U	10.800	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	.600	U	F
Barium	2.0	U	2.0	U	2.9	B	2.1	B	.400	U	P
Beryllium	1.0	U	1.0	U	2.7	B	1.8	B	.200	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Calcium	23.0	U	23.0	U	51.6	B	37.7	B	6.300	B	P
Chromium	7.0	U	7.0	U	7.0	U	7.0	U	1.400	U	P
Cobalt	9.0	U	9.0	U	9.0	U	9.0	U	1.800	U	P
Copper	9.0	U	9.0	U	9.0	U	9.0	U	1.800	U	P
Iron	21.0	U	21.0	U	21.0	U	21.0	U	4.200	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	.400	U	F
Magnesium	70.0	U	70.0	U	70.0	U	70.0	U	14.000	U	P
Manganese	2.0	U	2.0	U	3.9	B	2.3	B	.400	U	P
Mercury	.2	U	.2	U	.2	U	.2	U	.100	U	CV
Nickel	12.0	U	12.0	U	12.0	U	12.0	U	2.400	U	P
Potassium	2867.0	U	2867.0	U	2867.0	U	2867.0	U	573.400	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	.600	U	F
Silver	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Sodium	334.0	U	334.0	U	334.0	U	334.0	U	69.794	B	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	.400	U	F
Vanadium	7.0	U	7.0	U	7.0	U	7.0	U	1.400	U	P
Zinc	3.0	U	3.0	U	3.1	B	3.0	U	.801	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	.500	U	AS

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BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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			57.0	U	57.0	U	72.0	B			P
Antimony			54.0	U	54.0	U	54.0	U			P
Arsenic			3.0	U	3.0	U	3.0	U			F
Barium			2.9	B	2.0	U	3.3	B			P
Beryllium			2.5	B	1.6	B	3.0	B			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			41.2	B	26.1	B	81.0	B			P
Chromium			7.0	U	7.0	U	7.0	U			P
Cobalt			9.0	U	9.0	U	9.0	U			P
Copper			9.0	U	9.0	U	9.0	U			P
Iron			21.0	U	21.0	U	21.0	U			P
Lead			2.0	U	2.0	U	2.0	U			F
Magnesium			70.0	U	70.0	U	70.0	U			P
Manganese			3.4	B	2.2	B	3.3	B			P
Mercury											
Nickel			12.0	U	12.0	U	12.0	U			P
Potassium			2867.0	U	2867.0	U	2867.0	U			P
Selenium			3.0	U	3.0	U	3.0	U			F
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			334.0	U	334.0	U	334.0	U			P
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium			7.0	U	7.0	U	7.0	U			P
Zinc			3.0	U	5.9	B	7.3	B			P
Cyanide			10.0	U	10.0	U	10.0	U			AS

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3
BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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											
Antimony											
Arsenic			3.0	U							F
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.0	U	2.0	U					F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium			3.0	U							F
Silver											
Sodium											
Thallium			2.0	U	2.0	U					F
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead	2.0	U	2.0	U	2.0	U	2.0	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium	2.0	U	2.0	U	2.0	U	2.0	U			F
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.0	U	2.0	U	2.0	U			F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium											
Zinc											
Cyanide											

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BLANKS

Lab name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead			2.0	U	2.0	U					F
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			2.0	U	2.0	U					F
Vanadium											
Zinc											
Cyanide											

FORM III - IN

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MERA14S

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix: SOIL Level (low/med): LOW

% Solids for Sample: 72.2

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									NR
Antimony	75-125	59.3684		14.9584	U	138.50	42.9	N	P
Arsenic	75-125	21.8837		13.7618		11.08	73.3	N	F
Barium	75-125	576.9529		73.7784		554.02	90.8		P
Beryllium	75-125	13.4972		.9342	B	13.85	90.7		P
Cadmium	75-125	13.5330		1.3850	U	13.85	97.7		P
Calcium									NR
Chromium	75-125	66.4958		15.4194		55.40	92.2		P
Cobalt	75-125	143.8615		22.2224		138.50	87.8		P
Copper	75-125	82.8532		19.6496		69.25	91.3		P
Iron									NR
Lead	75-125	20.3878		19.5152		5.54	15.8	N	F
Magnesium									NR
Manganese		1351.6068		1421.7728		138.50	-50.7		P
Mercury	75-125	.7327		.1385	U	.69	106.2		CV
Nickel	75-125	165.8615		40.0277		138.50	90.9		P
Potassium									NR
Selenium	75-125	2.1648		.8310	U	2.77	78.2		F
Silver	75-125	9.8078		2.7701	U	13.85	70.8	N	P
Sodium									NR
Thallium	75-125	10.9917		.5540	U	13.85	79.4		F
Vanadium	75-125	143.1136		17.2089		138.50	90.9		P
Zinc	75-125	212.5928		93.7230		138.50	85.8		P
Cyanide	75-125	6.7829		.6898	U	6.90	98.3		AS

Comments:
FORM 5A.01-PG 1 (SR)LAB ID:491231

ICP METALS (SSR)LAB ID:491232
AA METALS (SSR)LAB ID:491232
MERCURY (SSR)LAB ID:491232
CYANIDE (SSR)LAB ID:491235

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MERA14A

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

Matrix: SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony		109.69		54.00	U	120.0	91.4		P
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

Comments:
FORM 5B.01 - PAGE 1 LAB SAMPLE ID:491231

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MERA14D

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

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

% Solids for Sample: 72.2 % Solids for Duplicate: 74.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	%RPD	Q	M
Aluminum		7008.8646		6527.7011		7.1		P
Antimony		14.9584	U	14.9584	U			P
Arsenic	2.8	13.7618		13.3075		3.4		F
Barium	55.4	73.7784		58.8920		22.4		P
Beryllium		.9342	B	.9788	B	4.7		P
Cadmium		1.3850	U	1.3850	U			P
Calcium		21371.4690		22227.1478		3.9		P
Chromium		15.4194		16.5989		7.4		P
Cobalt	13.9	22.2224		19.9468		10.8		P
Copper	6.9	19.6496		17.2884		12.8		P
Iron		35850.4170		32407.2036		10.1		P
Lead		19.5152		10.8657		56.9	*	F
Magnesium	1385.0	2929.0860		2712.6316		7.7		P
Manganese		1421.7728		1264.8753		11.7		P
Mercury		.1385	U	.1385	U			CV
Nickel	11.1	40.0277		38.3795		4.2		P
Potassium		847.8117	B	832.4654	B	1.8		P
Selenium		.8310	U	.8310	U			F
Silver		2.7701	U	2.7701	U			P
Sodium		184.1911	B	185.4515	B	.7		P
Thallium		.5540	U	.5540	U			F
Vanadium	13.9	17.2089		16.2643		5.6		P
Zinc		93.7230		79.3158		16.7		P
Cyanide		.6898	U	.6898	U			AS

FORM VI - IN

3/90

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number: V2

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 1

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: P2 Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	57.0	P
Antimony	206.80		60	54.0	P
Arsenic			10		NR
Barium	493.40		200	2.0	P
Beryllium	313.00		5	1.0	P
Cadmium	228.80		5	5.0	P
Calcium	315.80		5000	23.0	P
Chromium	267.70		10	7.0	P
Cobalt	228.60		50	9.0	P
Copper	324.70		25	9.0	P
Iron	259.90		100	21.0	P
Lead			3		NR
Magnesium	279.00		5000	70.0	P
Manganese	257.60		15	2.0	P
Mercury			0.2		NR
Nickel	231.60		40	12.0	P
Potassium	766.40		5000	2867.0	P
Selenium			5		NR
Silver	328.00		10	10.0	P
Sodium	588.90		5000	334.0	P
Thallium			10		NR
Vanadium	292.40		50	7.0	P
Zinc	213.80		20	3.0	P

Comments:
FORM 10 - PAGE 2

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A6

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	197.30	BS	10	3.0	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BS	5	3.0	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 3

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A1

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BS	3	2.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 4

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM LABORATORIES Contract: 68-D0-0150

Lab Code: COMPU Case No.: 1 026 SAS No.: SDG No.: MERA13

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A1

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BS	3	2.0	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.80	BS	10	2.0	F
Vanadium			50		NR
Zinc			20		NR

Comments:
FORM 10 - PAGE 5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. (1) CERCLIS No. (OH)

Case No. 19026 Site Name Location: Satrallloy

Contractor or EPA Lab: Compuchem Data User: PRC

No. of Samples: 7 Date Samples or Data Received: May 26 1992

Have Chain-of-Custody records been received? YES____ NO ✓
Have traffic reports or packing lists been received? YES____ NO ✓
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES ✓ NO____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES ✓ NO____
No. of samples claimed: 7 No. of samples received: 7

Received by: Lynette Burnett Date: May 26, 1992

Received by LSSS: DMM Date: 5-26-92

Review started: 6/12/92 Reviewer Signature: M. Fletcher

Total time spent on review: 5 +1 MWF 6/18/92 Date review completed: 6/12/92

Copied by:_____ Date:_____

Mailed to user by Lynette Burnett Date: 6-23-92

DATA USERS:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by:_____ Date:_____

Data review received by:_____ Date:_____
Inorganic Data Complete[ ] Suitable for Intended Purpose[ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose[ ] list
Dioxin Data Complete [ ] Suitable for Intended Purpose[ ] prblms
SAS Data Complete [ ] Suitable for Intended Purpose[ ] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date:_____

FULL INORGANICS
COMPLETE SDG FILE (CSF)
INVENTORY SHEET

Lab Name: Compu City/State: Durham/NC

Case No. 19026 SDG No. MERAB SDG Nos. to Follow: _____ _____ _____

SAS No. N/A Contract No. 68-D0-0150 SOW No. 3/90

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

		Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
1.	Inventory Sheet (DC-2) (Do not number)			✓	
2.	Cover Page	4	4	✓	✓
3.	Inorganic Analysis Data Sheet (Form I-IN)	5	11	✓	✓
4.	Initial & Continuing Calibration Verification (Form IIA-IN)	12	19	✓	✓
5.	CRDL Standards For AA and ICP (Form IIB-IN)	20	21	✓	✓
6.	Blanks (Form III-IN)	22	27	✓	✓
7.	ICP Interference Check Sample (Form IV-IN)	28	28	✓	✓
8.	Spike Sample Recovery (Form VA-IN)	29	29	✓	✓
9.	Post Digest Spike Sample Recovery (Form VB-IN)	30	30	✓	✓
10.	Duplicates (Form VI-IN)	31	31	✓	✓
11.	Laboratory Control Sample (Form VII-IN)	32	32	✓	✓
12.	Standard Addition Results (Form VIII-IN)	33	33	✓	✓
13.	ICP Serial Dilutions (Form IX-IN)	34	34	✓	✓
14.	Instrument Detection Limits (Form X-IN)	35	39	✓	✓
15.	ICP Interelement Correction Factors (Form XIA-IN)	40	40	✓	✓
16.	ICP Interelement Correction Factors (Form XIB-IN)	41	43	✓	✓
17.	ICP Linear Ranges (Form XII-IN)	44	44	✓	✓
18.	Preparation Log (Form XIII-IN)	45	48	✓	✓
19.	Analysis Run Log (Form XIV-IN)	49	73	✓	✓
20.	ICP Raw Data	74	143	✓	✓
21.	Furnace AA Raw Data	144	218	✓	✓
22.	Mercury Raw Data	219	223	✓	✓

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
23. Cyanide Raw Data	224	239	✓	✓
24. Preparation Logs Raw Data	240	242	✓	✓
25. Percent Solids Determination Log	243	243	✓	✓
26. Traffic Report	244	245	✓	✓
27. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments ____)	10,000	10,000	✓	✓
Chain-of-Custody Records	10,001	10,003	✓	✓
Sample Tags	10,034	10,040	✓	✓
Sample Log-In Sheet (Lab & DCI)	10,004	10,004	✓	✓
SDC Cover Sheet	10,005	10,005	✓	✓
28. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	10,006	10,010	✓	✓
29. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
30. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records				
Analysis Records	10,011	10,011	✓	✓
Description				
31. Other Records (describe or list)				
Telephone Communication Log				
Sample Records	10,02	10033	✓	✓

32. Comments:

Completed by (CLP Lab):

Rick Christenbury for J. Alston	Rick Christenbury / Technical Review	5-22-92
(Signature)	(Print Name & Title)	(Date)
Michael Waterman	Michael WATERMAN / Deliverable Clerk	5-22-92

Audited by (EPA):

Myra Fletcher	Myra Fletcher / Scientist	6/2/92
(Signature)	(Print Name & Title)	(Date)

Satralloy (1)

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

****
****
****
**** SCREENING PACKAGE ****
**** SUMMARY INFORMATION ****
****

SDG: MERA13

ILM01.0 VER. 1.1

CASE: 19026

LAB: COMPU

CONTRACT: 68-D0-0150

REGION: 5

DRD: 05/23/92

FORMAT: A

SCREEN DATE: 06/26/92

MAIL DATE 1: 06/30/92

SCREENER: SS

****
****
****

INORGANIC CONTRACT COMPLIANCE SCREENING SUMMARY

DEFECT COUNT BY SAMPLE AND FORM

CASE: 19026 SAMPLES: 7 DATE MAILED: 06/30/92

LAB CODE: COMPU CONTRACT: 68-D0-0150 SAS NO: SCREENER: SS DATE SCREENED: 06/26/92

SDG NUMBER: MERA13 REGION: 5 DATE RECEIVED: 05/23/92

SAMPLE NO.	A COVER PAGE	B FORM 1	CA FORM 2A	CB FORM 2B	D FORM 3	E FORM 4	FA FORM 5A	FB FORM 5B	G FORM 6	H FORM 7	I FORM 8	J FORM 9	L FORM 10	M FORM 11	N FORM 12	R FORM 13	RA FORM 14	MANUAL DEFECT
MERA13-S																	4	
MERA13-1																	4	
MERA14-1																	4	
MERA14-8																	4	
MERA14-9																	4	
MERA15-1																	4	
MERA16-1																	4	
MERA17-1																	4	
MERA18-1																	4	
MERA19-1																	4	

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

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*****                                                   *****
*****                                                   *****
*****     NO DEFECTS FOUND FOR STRUCTURAL REPORT #1     *****
*****            RECORDS WITH INVALID FIELDS            *****
*****                                                   *****
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U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

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*****                                                   *****
*****                                                   *****
*****     NO DEFECTS FOUND FOR STRUCTURAL REPORT #2     *****
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U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

TECHNICAL DEFECT FREQUENCY REPORT

DEFECT CODE	NUMBER OF DEFECTS	PERCENT OF TOTAL DEFECTS	DEFECT MESSAGE
1723	4	100.00	TIME BETWEEN CCV AND LAST SAMPLE
	4	100.00	

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

TEXTUAL DEFECT REPORT

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******************************
*  CRITERION RA. FORM 14.    *
******************************
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Time between last sample and CCV exceeds least time between samples. (E11)

SUFFIX	ELEMENT	SAMPLE	METHOD	MATRIX	REPORTED VALUE	COMPARED VALUE
AH	AS		F		8	6 MIN
AK	PB		F		7	6 MIN
AE	SE		F		8	6 MIN
AN	TL		F		7	6 MIN

ERROR CODE : 1723

U.S. EPA - CLP

14

ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: P2 METHOD: P

START DATE: 05/07/92 END DATE: 05/07/92 AA

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																									
				ALK	SB	SS	AB	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	KS	SE	AG	NA	TL	VN	ZN	CN
S0	1.00	1105		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	1110		X					X		X		X						X			X				X	
S	1.00	1115			X																						
S	1.00	1120					X	X				X		X			X								X		
S	1.00	1124								X						X				X			X				
ICV	1.00	1126		X	X		X	X	X		X	X	X	X			X		X			X			X	X	
ICV	1.00	1131								X						X				X			X				
ICV	1.00	1136																									
ICB	1.00	1141		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSA	1.00	1146		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	1150		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	1155			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	1200		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1205		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	1210		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	1.00	1215		X	X		X	X	X		X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	5.00	1220								X																	
MERA14	1.00	1225		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14D	1.00	1230		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14S	1.00	1235			X		X	X	X		X	X	X				X		X			X			X	X	
MERA13	1.00	1240		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	1244		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1249		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA15	1.00	1254		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA16	1.00	1259		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA17	1.00	1304		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA18	1.00	1309		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA19	1.00	1314		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14A	1.00	1319			X																						
MERA14L	5.00	1324		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1329																									
ZZZZZZ	1.00	1334																									

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: P2 METHOD: P

START DATE: 05/07/92 END DATE: 05/07/92 AB

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																									
				ALL	SBS	ASA	BBE	CDA	CCA	CRO	COU	CEB	FEB	PMG	MGN	HGI	NIK	SEG	ANA	NAL	TVN	ZCN	CN
ZZZZZZ	1.00	1339																					
CCV	1.00	1344		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1348		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1353																					
ZZZZZZ	1.00	1358																					
ZZZZZZ	1.00	1403																					
ZZZZZZ	1.00	1408																					
ZZZZZZ	1.00	1413																					
ZZZZZZ	1.00	1418																					
ZZZZZZ	1.00	1423																					
ZZZZZZ	1.00	1428																					
ZZZZZZ	1.00	1433																					
ZZZZZZ	1.00	1438																					
CCV	1.00	1443		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1447		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1452																					
ZZZZZZ	1.00	1457																					
ZZZZZZ	1.00	1502																					
ZZZZZZ	1.00	1507																					
ZZZZZZ	1.00	1512																					
ZZZZZZ	1.00	1517																					
ZZZZZZ	1.00	1522																					
ZZZZZZ	1.00	1527																					
ZZZZZZ	1.00	1532																					
ZZZZZZ	1.00	1537																					
CCV	1.00	1542		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1546		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1551																					
CRI	1.00	1556			X			X	X		X	X	X			X		X			X	X	
ICSA	1.00	1601		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ICSAB	1.00	1606		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	

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: P2 METHOD: P

START DATE: 05/07/92 END DATE: 05/07/92 AC

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALB	SBS	ASA	BBE	BCD	CCA	CCR	CCO	CCU	CFE	PBB	MGN	MMN	HGG	NIN	KIK	SSE	AGG	NAA	TAL	VZN	CZN
CCB	1.00	1616		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X		X	X

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AD

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALB	SBS	ASA	BAE	BCD	CCA	CRO	COU	CEB	FPG	MMN	HGI	NIK	SE	AG	NA	TL	VN	ZN	CN
S0	1.00	2301															X						
S30	1.00	2306															X						
S5	1.00	2314															X						
S60	1.00	2319															X						
ICV	2.00	2337															X						
ICB	1.00	2342															X						
CRA	1.00	2347															X						
CCV	1.00	0004															X						
CCB	1.00	0009															X						
ZZZZZZ	1.00	0016																					
PBS	1.00	0023															X						
PBSA	1.00	0031	108.9														X						
LCSS	200.00	0035																					
LCSSA	200.00	0040																					
LCSS	10.00	0045															X						
LCSSA	10.00	0050	153.1														X						
MERA14	1.00	0102															X						
MERA14A	1.00	0107	125.2														X						
ZZZZZZ	1.00	0112																					
CCV	1.00	0120															X						
CCB	1.00	0125															X						
STB	1.00	0132															X						
CCV	1.00	0142															X						
CCB	1.00	0147															X						
MERA14D	1.00	0151															X						
MERA14DA	1.00	0156	114.6														X						
MERA14S	1.00	0201															X						
MERA14S	5.00	0207																					
MERA14	2.00	0212																					
MERA14A	2.00	0220																					
MERA14D	2.00	0227																					
MERA14DA	2.00	0232																					

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AE

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																										
				ALK	SB	SAS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	AL	TL	VN	ZN	CN			
CCV	1.00	0238																			X									
CCB	1.00	0243																			X									
MERA16	1.00	0248																			X									
MERA16A	1.00	0255	-9999.9																											
MERA16A	1.00	0301	100.0																		X									
MERA13	1.00	0306																			X									
MERA13A	1.00	0315	101.1																		X									
MERA15	1.00	0320																			X									
MERA15A	1.00	0325	107.1																		X									
CCV	1.00	0330																			X									
CCB	1.00	0335																			X									
MERA17	1.00	0340																			X									
MERA17A	1.00	0358	-9999.9																											
MERA17A	1.00	0403	60.0																		X									
MERA18	1.00	0408																			X									
MERA18A	1.00	0418	79.6																		X									
MERA19	1.00	0423																			X									
MERA19A	1.00	0428	71.8																		X									
CCV	1.00	0433																			X									
CCB	1.00	0438																			X									
MERA150	1.00	0446																												
MERA151	1.00	0451																												
MERA152	1.00	0453																												
MERA153	1.00	0456																												
MERA170	1.00	0500																												
MERA171	1.00	0503																												
MERA172	1.00	0506																												
MERA173	1.00	0509																												
MERA180	1.00	0513																												
MERA181	1.00	0517																												
MERA182	1.00	0521																												
MERA183	1.00	0525																												

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AF

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALB	SBS	ASA	BBE	CDA	CCA	CRO	COU	CEB	FBG	PMN	MGN	HGI	NIK	SEG	ANA	TLV	VZN	ZCN	CN				
CCV	1.00	0533																X									
CCB	1.00	0538																X									

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AG

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALUMINUM	BARIUM	ARSENIC	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
S0	1.00	2301			X																					
S30	1.00	2306			X																					
S10	1.00	2314			X																					
S60	1.00	2319			X																					
ICV	2.00	2337			X																					
ICB	1.00	2342			X																					
CRA	1.00	2347			X																					
CCV	1.00	0004			X																					
CCB	1.00	0009			X																					
ZZZZZZ	1.00	0016																								
PBS	1.00	0023			X																					
PBSA	1.00	0031	102.2		X																					
LCSS	200.00	0035			X																					
LCSSA	200.00	0040	130.2		X																					
LCSS	10.00	0045																								
LCSSA	10.00	0050																								
MERA14	1.00	0102																								
MERA14A	1.00	0107	-9999.9																							
ZZZZZZ	1.00	0112																								
CCV	1.00	0120			X																					
CCB	1.00	0125			X																					
STB	1.00	0132			X																					
CCV	1.00	0142			X																					
CCB	1.00	0147			X																					
MERA14D	1.00	0151																								
MERA14DA	1.00	0156	-9999.9																							
MERA14S	1.00	0201																								
MERA14S	5.00	0207			X																					
MERA14	2.00	0212			X																					
MERA14A	2.00	0220	98.4		X																					
MERA14D	2.00	0227			X																					
MERA14DA	2.00	0232	104.1		X																					

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AH

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																					
				ALKALINITY	SULFATE	ALUMINUM	BORON	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
CCV	1.00	0238			X																						
CCB	1.00	0243			X																						
MERA16	1.00	0248			X																						
MERA16A	1.00	0255	86.1		X																						
MERA16A	1.00	0301	-9999.9																								
MERA13	1.00	0306			X																						
MERA13A	1.00	0315	107.8		X																						
MERA15	1.00	0320																									
MERA15A	1.00	0325	118.5																								
CCV	1.00	0330			X																						
CCB	1.00	0335			X																						
MERA17	1.00	0340																									
MERA17A	1.00	0358	74.5																								
MERA17A	1.00	0403	-9999.9																								
MERA18	1.00	0408																									
MERA18A	1.00	0418	127.8																								
MERA19	1.00	0423			X																						
MERA19A	1.00	0428	87.8		X																						
CCV	1.00	0433			X																						
CCB	1.00	0438			X																						
MERA150	1.00	0446			X																						
MERA151	1.00	0451			X																						
MERA152	1.00	0453			X																						
MERA153	1.00	0456			X																						
MERA170	1.00	0500			X																						
MERA171	1.00	0503			X																						
MERA172	1.00	0506			X																						
MERA173	1.00	0509			X																						
MERA180	1.00	0513			X																						
MERA181	1.00	0517			X																						
MERA182	1.00	0521			X																						
MERA183	1.00	0525			X																						

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AI

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																										
				ALUMINUM	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
CCV	1.00	0533			X																			
CCB	1.00	0538			X																			

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AJ

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALUMINUM	BARIUM	ARSENIC	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
S0	1.00	2319												X											
S30	1.00	2323												X											
S3	1.00	2327																							
S3	1.00	2332												X											
S60	1.00	2336												X											
ICV	1.00	2344												X											
ICB	1.00	2348												X											
CRA	1.00	2352												X											
CCV	1.00	2356												X											
CCB	1.00	0000												X											
PBS	1.00	0004												X											
PBSA	1.00	0008	99.6											X											
LCSS	50.00	0013												X											
LCSSA	50.00	0017	91.4											X											
LCSS	10.00	0021																							
LCSSA	10.00	0025																							
ZZZZZZ	1.00	0031																							
ZZZZZZ	1.00	0035																							
CCV	1.00	0040												X											
CCB	1.00	0044												X											
MERA14	1.00	0048																							
MERA14A	1.00	0052	-9999.9																						
MERA14D	1.00	0056																							
MERA14DA	1.00	0101	-9999.9																						
MERA14D	5.00	0105												X											
MERA14DA	5.00	0109	96.7											X											
MERA14S	1.00	0113																							
MERA14S	5.00	0117												X											
CCV	1.00	0122												X											
CCB	1.00	0126												X											
MERA13	1.00	0130												X											
MERA13A	1.00	0137	-9999.9																						

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AK

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																					
				ALB	SBS	ASA	BAE	BCD	CCA	CCR	CCO	CCU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	VN	ZN	CN
MERA13A	1.00	0142	100.2											X											
MERA15	1.00	0146												X											
MERA15A	1.00	0150	99.4											X											
MERA16	1.00	0154												X											
MERA16A	1.00	0159	98.0											X											
MERA17	1.00	0206																							
MERA17A	1.00	0210	-9999.9																						
CCV	1.00	0217												X											
CCB	1.00	0221												X											
MERA17	5.00	0226												X											
MERA17A	5.00	0234	95.6											X											
MERA18	1.00	0239												X											
MERA18A	1.00	0243	99.2											X											
MERA19	1.00	0247																							
MERA19A	1.00	0251	-9999.9																						
MERA19	5.00	0258												X											
MERA19A	5.00	0302	93.2											X											
CCV	1.00	0307												X											
CCB	1.00	0311												X											
ZZZZZZ	1.00	0316																							
ZZZZZZ	1.00	0320																							
ZZZZZZ	1.00	0324																							
ZZZZZZ	1.00	0328																							
ZZZZZZ	1.00	0332																							
ZZZZZZ	1.00	0336																							
ZZZZZZ	1.00	0353																							
ZZZZZZ	1.00	0358																							
CCV	1.00	0402												X											
CCB	1.00	0407												X											
ZZZZZZ	1.00	0411																							
ZZZZZZ	1.00	0415																							
ZZZZZZ	1.00	0419																							

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AL

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALB	SBS	ASA	BEB	CDA	CAR	CRO	CUE	FEB	PBG	MGN	MNG	HGI	NIK	SEG	AGA	NAL	TLV	VZN	ZCN				
ZZZZZZ	1.00	0428																									
ZZZZZZ	1.00	0432																									
ZZZZZZ	1.00	0450																									
ZZZZZZ	1.00	0454																									
ZZZZZZ	1.00	0502																									
ZZZZZZ	1.00	0507																									
ZZZZZZ	1.00	0513																									
CCV	1.00	0518											X														
CCB	1.00	0522											X														
ZZZZZZ	1.00	0527																									
CCV	1.00	0531											X														
CCB	1.00	0536											X														

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AM

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																				
				ALB	SBS	ASA	BBE	CCD	CCA	CCR	CCO	CCU	FEE	PBB	MGN	MNG	HGI	NIK	SEE	AGA	NAL	TLL	VZN	CCN
S0	1.00	2319																				X		
S30	1.00	2323																				X		
S10	1.00	2327																						
S10	1.00	2332																				X		
S60	1.00	2336																				X		
ICV	1.00	2344																				X		
ICB	1.00	2348																				X		
CRA	1.00	2352																				X		
CCV	1.00	2356																				X		
CCB	1.00	0000																				X		
PBS	1.00	0004																				X		
PBSA	1.00	0008	91.7																			X		
LCSS	50.00	0013																						
LCSSA	50.00	0017																						
LCSS	10.00	0021																				X		
LCSSA	10.00	0025	88.0																			X		
ZZZZZZ	1.00	0031																						
ZZZZZZ	1.00	0035																						
CCV	1.00	0040																				X		
CCB	1.00	0044																				X		
MERA14	1.00	0048																				X		
MERA14A	1.00	0052	86.7																			X		
MERA14D	1.00	0056																				X		
MERA14DA	1.00	0101	83.6																			X		
MERA14D	5.00	0105																						
MERA14DA	5.00	0109																						
MERA14S	1.00	0113																				X		
MERA14S	5.00	0117																						
CCV	1.00	0122																				X		
CCB	1.00	0126																				X		
MERA13	1.00	0130																				X		
MERA13A	1.00	0137	-9999.9																					

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AN

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALUMINUM	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
MERA13A	1.00	0142	81.9																		X				
MERA15	1.00	0146																			X				
MERA15A	1.00	0150	84.1																		X				
MERA16	1.00	0154																			X				
MERA16A	1.00	0159	81.5																		X				
MERA17	1.00	0206																			X				
MERA17A	1.00	0210	79.4																		X				
CCV	1.00	0217																			X				
CCB	1.00	0221																			X				
MERA17	5.00	0226																							
MERA17A	5.00	0234																							
MERA18	1.00	0239																			X				
MERA18A	1.00	0243	81.4																		X				
MERA19	1.00	0247																			X				
MERA19A	1.00	0251	87.6																		X				
MERA19	5.00	0258																							
MERA19A	5.00	0302																							
CCV	1.00	0307																			X				
CCB	1.00	0311																			X				
ZZZZZZ	1.00	0316																							
ZZZZZZ	1.00	0320																							
ZZZZZZ	1.00	0324																							
ZZZZZZ	1.00	0328																							
ZZZZZZ	1.00	0332																							
ZZZZZZ	1.00	0336																							
ZZZZZZ	1.00	0353																							
ZZZZZZ	1.00	0358																							
CCV	1.00	0402																			X				
CCB	1.00	0407																			X				
ZZZZZZ	1.00	0411																							
ZZZZZZ	1.00	0415																							
ZZZZZZ	1.00	0419																							

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AO

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALB	SBS	ASA	BEB	CDC	CAR	CRO	CUC	FEE	PBP	MGM	MNM	HGH	NIN	KK	SES	AGA	NAN	TLT	VV	ZN	CN	CN		
ZZZZZZ	1.00	0428																										
ZZZZZZ	1.00	0432																										
ZZZZZZ	1.00	0450																										
ZZZZZZ	1.00	0454																										
ZZZZZZ	1.00	0502																										
ZZZZZZ	1.00	0507																										
ZZZZZZ	1.00	0513																										
CCV	1.00	0518																				X						
CCB	1.00	0522																				X						
ZZZZZZ	1.00	0527																										
CCV	1.00	0531																				X						
CCB	1.00	0536																				X						

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AP

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALUMINUM	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
S0	1.00	2330											X												
S30	1.00	2334											X												
S3	1.00	2338											X												
S60	1.00	2343											X												
ICV	1.00	2356											X												
ICB	1.00	0000											X												
CRA	1.00	0004											X												
CCV	1.00	0009											X												
CCB	1.00	0013											X												
MERA14	5.00	0018											X												
MERA14A	5.00	0022	108.6										X												
ZZZZZZ	1.00	0026																							
ZZZZZZ	1.00	0030																							
ZZZZZZ	1.00	0035																							
ZZZZZZ	1.00	0039																							
ZZZZZZ	1.00	0043																							
ZZZZZZ	1.00	0047																							
ZZZZZZ	1.00	0101																							
ZZZZZZ	1.00	0106																							
CCV	1.00	0110											X												
CCB	1.00	0114											X												
ZZZZZZ	1.00	0118																							
ZZZZZZ	1.00	0122																							
ZZZZZZ	1.00	0132																							
ZZZZZZ	1.00	0140																							
ZZZZZZ	1.00	0144																							
ZZZZZZ	1.00	0149																							
ZZZZZZ	1.00	0154																							
ZZZZZZ	1.00	0158																							
ZZZZZZ	1.00	0202																							
ZZZZZZ	1.00	0206																							
CCV	1.00	0210											X												

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AQ

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALB	SBS	ABS	BAE	BED	CDA	CAR	CRO	COU	CUE	FEB	PBG	MNG	MNG	HGI	NIK	SEG	ANA	NAL	TLV	ZIN	CN			
CCB	1.00	0214													X													
ZZZZZZ	1.00	0219																										
ZZZZZZ	1.00	0223																										
ZZZZZZ	1.00	0227																										
ZZZZZZ	1.00	0231																										
ZZZZZZ	1.00	0235																										
ZZZZZZ	1.00	0239																										
ZZZZZZ	1.00	0243																										
ZZZZZZ	1.00	0247																										
CCV	1.00	0252													X													
CCB	1.00	0256													X													
ZZZZZZ	1.00	0300																										
ZZZZZZ	1.00	0304																										
ZZZZZZ	1.00	0308																										
ZZZZZZ	1.00	0312																										
ZZZZZZ	1.00	0317																										
ZZZZZZ	1.00	0321																										
ZZZZZZ	1.00	0325																										
ZZZZZZ	1.00	0329																										
CCV	1.00	0334													X													
CCB	1.00	0338													X													
ZZZZZZ	1.00	0342																										
ZZZZZZ	1.00	0346																										
ZZZZZZ	1.00	0350																										
ZZZZZZ	1.00	0354																										
ZZZZZZ	1.00	0404																										
ZZZZZZ	1.00	0408																										
ZZZZZZ	1.00	0412																										
ZZZZZZ	1.00	0416																										
CCV	1.00	0421													X													
CCB	1.00	0425													X													
ZZZZZZ	1.00	0429																										

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AR

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALL	SBS	ASA	BEB	CDA	CAR	CRO	CUE	FEB	PBG	MGN	MGI	HGI	NIK	SEG	ANA	TLI	VIN	ZNN	CN
ZZZZZZ	1.00	0433																					
ZZZZZZ	1.00	0437																					
ZZZZZZ	1.00	0442																					
ZZZZZZ	1.00	0446																					
ZZZZZZ	1.00	0450																					
ZZZZZZ	1.00	0454																					
ZZZZZZ	1.00	0458																					
ZZZZZZ	1.00	0503																					
CCV	1.00	0510											X										
CCB	1.00	0514											X										
ZZZZZZ	1.00	0519																					
ZZZZZZ	1.00	0523																					
ZZZZZZ	1.00	0533																					
ZZZZZZ	1.00	0537																					
ZZZZZZ	1.00	0545																					
ZZZZZZ	1.00	0552																					
CCV	1.00	0556											X										
CCB	1.00	0600											X										

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AS

EPA SAMPLE NO.	D / F	TIME	% R	ALUMINUM	SULFUR	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
S0	1.00	2330																						X			
S30	1.00	2334																						X			
S10	1.00	2338																						X			
S60	1.00	2343																						X			
ICV	1.00	2356																						X			
ICB	1.00	0000																						X			
CRA	1.00	0004																						X			
CCV	1.00	0009																						X			
CCB	1.00	0013																						X			
MERA14	5.00	0018																									
MERA14A	5.00	0022																									
ZZZZZZ	1.00	0026																									
ZZZZZZ	1.00	0030																									
ZZZZZZ	1.00	0035																									
ZZZZZZ	1.00	0039																									
ZZZZZZ	1.00	0043																									
ZZZZZZ	1.00	0047																									
ZZZZZZ	1.00	0101																									
ZZZZZZ	1.00	0106																									
CCV	1.00	0110																						X			
CCB	1.00	0114																						X			
ZZZZZZ	1.00	0118																									
ZZZZZZ	1.00	0122																									
ZZZZZZ	1.00	0132																									
ZZZZZZ	1.00	0140																									
ZZZZZZ	1.00	0144																									
ZZZZZZ	1.00	0149																									
ZZZZZZ	1.00	0154																									
ZZZZZZ	1.00	0158																									
ZZZZZZ	1.00	0202																									
ZZZZZZ	1.00	0206																									
CCV	1.00	0210																						X			

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AT

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALB	SBS	ASA	BAE	BCD	CAR	CRO	CCU	FEB	PBG	MGN	MGI	NIK	SEG	AAL	NTV	ZN	CN							
CCB	1.00	0214																	X									
ZZZZZZ	1.00	0219																										
ZZZZZZ	1.00	0223																										
ZZZZZZ	1.00	0227																										
ZZZZZZ	1.00	0231																										
ZZZZZZ	1.00	0235																										
ZZZZZZ	1.00	0239																										
ZZZZZZ	1.00	0243																										
ZZZZZZ	1.00	0247																										
CCV	1.00	0252																	X									
CCB	1.00	0256																	X									
ZZZZZZ	1.00	0300																										
ZZZZZZ	1.00	0304																										
ZZZZZZ	1.00	0308																										
ZZZZZZ	1.00	0312																										
ZZZZZZ	1.00	0317																										
ZZZZZZ	1.00	0321																										
ZZZZZZ	1.00	0325																										
ZZZZZZ	1.00	0329																										
CCV	1.00	0334																	X									
CCB	1.00	0338																	X									
ZZZZZZ	1.00	0342																										
ZZZZZZ	1.00	0346																										
ZZZZZZ	1.00	0350																										
ZZZZZZ	1.00	0354																										
ZZZZZZ	1.00	0404																										
ZZZZZZ	1.00	0408																										
ZZZZZZ	1.00	0412																										
ZZZZZZ	1.00	0416																										
CCV	1.00	0421																	X									
CCB	1.00	0425																	X									
ZZZZZZ	1.00	0429																										

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AU

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																									
				ALUMINUM	BARIUM	ARSENIC	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
ZZZZZZ	1.00	0433																							
ZZZZZZ	1.00	0437																							
ZZZZZZ	1.00	0442																							
ZZZZZZ	1.00	0446																							
ZZZZZZ	1.00	0450																							
ZZZZZZ	1.00	0454																							
ZZZZZZ	1.00	0458																							
ZZZZZZ	1.00	0503																							
CCV	1.00	0510																					X		
CCB	1.00	0514																					X		
ZZZZZZ	1.00	0519																							
ZZZZZZ	1.00	0523																							
ZZZZZZ	1.00	0533																							
ZZZZZZ	1.00	0537																							
ZZZZZZ	1.00	0545																							
ZZZZZZ	1.00	0552																							
CCV	1.00	0556																					X		
CCB	1.00	0600																					X		

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: V2 METHOD: CV

START DATE: 05/06/92 END DATE: 05/06/92 AV

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALUMINUM	SBALTS	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
S0	1.00	1819																X									
S0.5	1.00																	X									
S1	1.00																	X									
S3	1.00																	X									
S5	1.00																	X									
S10	1.00																	X									
ICV	2.00																	X									
ICB	1.00																	X									
CCV	1.00																	X									
CCB	1.00																	X									
PBS	1.00																	X									
LCSS	5.00																	X									
MERA14	1.00																	X									
MERA14S	1.00																	X									
MERA14D	1.00																	X									
MERA13	1.00																	X									
MERA15	1.00																	X									
MERA16	1.00																	X									
MERA17	1.00																	X									
MERA18	1.00																	X									
CCV	1.00																	X									
CCB	1.00																	X									
MERA19	1.00																	X									
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																	X									
CCB	1.00	1924																X									

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: C1 METHOD: AS

START DATE: 05/06/92 END DATE: 05/06/92 AW

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALUMINUM	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
S300	1.00	1249																						X
S300	1.00																							X
S200	1.00																							X
S100	1.00																							X
S50	1.00																							X
S10	1.00																							X
S0	1.00																							X
S300	1.00																							X
S0	1.00																							X
S0	1.00																							X
S100	1.00																							X
S100	1.00																							X
S100	1.00																							X
ICV	1.00																							X
ICB	1.00																							X
ZZZZZZ	1.00																							
ZZZZZZ	1.00																							
ZZZZZZ	1.00																							
ZZZZZZ	1.00																							
ZZZZZZ	1.00																							
PBS	1.00																							X
LCSS	1.00																							X
MERA14	1.00																							X
MERA14D	1.00																							X
ZZZZZZ	1.00																							
CCV	1.00																							X
CCB	1.00																							X
MERA14S	1.00																							X
MERA13	1.00																							X
MERA15	1.00																							X
MERA16	1.00																							X
MERA17	1.00																							X

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: C1 METHOD: AS

START DATE: 05/06/92 END DATE: 05/06/92 AX

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALB	SBS	ASA	BBE	CDA	CAR	CCO	CUE	FEB	PBG	MGN	MNG	HGI	NIK	SE	AGA	NAL	TL	VN	ZN	CN							
MERA18	1.00																														X
MERA19	1.00																														X
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
CCV	1.00																														X
CCB	1.00																														X
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
CCV	1.00																														X
CCB	1.00																														X
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
ZZZZZZ	1.00																														
CCV	1.00																														X
CCB	1.00																														X
ZZZZZZ	1.00																														

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: C1 METHOD: AS

START DATE: 05/06/92 END DATE: 05/06/92 AY

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALL	BS	ASA	BE	BD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	AL	TL	V	ZN	CN
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
CCV	1.00																									X
CCB	1.00																									X
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
CCV	1.00																									X
CCB	1.00	1417																								X

FORM XIV - IN

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*********************************************************
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*********************************************************
******                                           *******
******                                           *******
******    NO DEFECTS FOUND FOR MANUAL REPORT     *******
******                                           *******
******                                           *******
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U.S.E.P.A. - C.L.P.

S A M P L E M A N A G E M E N T O F F I C E

INORGANICS
RESOLUTION OF CONTRACT COMPLIANCE SCREENING (CCS) RESULTS

LABORATORY CODE : COMPU CASE : 19026 SDG_NO.: MERA13

RECONCILED BY : RECONCILIATION DATE :

CRITERION	COMMENTS

P.O. BOX 818, ALEXANDRIA, VIRGINIA 22313. PHONE : (703) 684-5678/FTS-8-557-2490

Satralloy (1)

COVER SHEET

LABORATORY RESPONSE TO RESULTS OF CONTRACT COMPLIANCE SCREENING (CCS)

RECEIVED
JUL 1 1992
U.S. EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

Response To: (Check one) ____ Organics CCS
✓ Inorganics CCS

Response materials should be sent to the attention of the CCS Coordinator.

Laboratory Name: Compu

Response Date: 7/10/92

Date Screening Results Received at Laboratory: 7/3/92

EPA Contract No.: 68-D0-0150

Case No.: 19026

SDG No.: ~~COMPU~~ MERAB

Sample Nos.*: MERA13, MERA14, MERA15, MERA16, MERA17, MERA18, MERA19

*Only list sample numbers that require reconciliation.

This form is used to identify materials sent in response to results of Contract Compliance Screening (CCS). A separate form must accompany the response for each Case.

Please indicate (on the attached continuation form) which fractions and/or which criteria correspond with your resubmission. Response materials sent to CCS should also be copied to the Region and to EMSL/LV, each with this blue Cover Sheet.

12/12/89

cc: Region 5
EMSL/LV

INORGANICS
LABORATORY RESPONSE TO RESULTS OF CCS

CRITERION	COMMENTS
RA 1723	The time delay on pages AH & AE are due to the instrument being adjusted to run MSA's.
	There is no obvious explanation for the time delays at AK & AN.

Sotralloy (1)

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

****
****
****
**** SCREENING PACKAGE ****
**** SUMMARY INFORMATION ****

SDG:	MERA13 RESUBMITTED
ILM01.0	VER. 1.1
CASE:	19026
LAB:	COMPU
CONTRACT:	68-D0-0150
REGION:	5
DRD:	07/11/92
FORMAT:	A
SCREEN DATE:	06/26/92
MAIL DATE 1:	06/30/92
MAIL DATE 2:	07/24/92
SCREENER:	SS

****
****
****

INORGANIC CONTRACT COMPLIANCE SCREENING SUMMARY

DEFECT COUNT BY SAMPLE AND FORM
RESUBMITTED

CASE: 19026 SAMPLES: 7 QC DONE BY: JP DATE MAILED: 07/24/92

LAB CODE: COMPU CONTRACT: 68-D0-0150 SAS NO: SCREENER: SS DATE SCREENED: 06/26/92

SDG NUMBER: MERA13 REGION: 5 DATE RECEIVED: 07/11/92

SAMPLE NO.	A COVER PAGE	B FORM 1	CA FORM 2A	CB FORM 2B	D FORM 3	E FORM 4	FA FORM 5A	FB FORM 5B	G FORM 6	H FORM 7	I FORM 8	J FORM 9	L FORM 10	M FORM 11	N FORM 12	R FORM 13	RA FORM 14	MANUAL DEFECT
MERA13-S																		
MERA13-1																		
MERA14-1																		
MERA14-8																		
MERA14-9																		
MERA15-1																		
MERA16-1																		
MERA17-1																	4	
MERA18-1																	4	
MERA19-1																		

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

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*************************************************************
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*****                                                   *****
*****                                                   *****
*****     NO DEFECTS FOUND FOR STRUCTURAL REPORT #1     *****
*****            RECORDS WITH INVALID FIELDS            *****
*****                                                   *****
*************************************************************
*************************************************************
*************************************************************
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U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

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*************************************************************
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*************************************************************
*****                                                   *****
*****                                                   *****
*****     NO DEFECTS FOUND FOR STRUCTURAL REPORT #2     *****
*****                                                   *****
*****                                                   *****
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U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

TECHNICAL DEFECT FREQUENCY REPORT

DEFECT CODE	NUMBER OF DEFECTS	PERCENT OF TOTAL DEFECTS	DEFECT MESSAGE
1723	4	100.00	TIME BETWEEN CCV AND LAST SAMPLE
	==========	==========	
	4	100.00	

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SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

TEXTUAL DEFECT REPORT

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*******************************
*  CRITERION RA. FORM 14.     *
*******************************
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Time between last sample and CCV exceeds least time between samples. (E11)

SUFFIX	ELEMENT	SAMPLE	METHOD	MATRIX	REPORTED VALUE	COMPARED VALUE
AH	AS		F		8	6 MIN
AK	PB		F		7	6 MIN
AE	SE		F		8	6 MIN
AN	TL		F		7	6 MIN

ERROR CODE : 1723

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: P2 METHOD: P

START DATE: 05/07/92 END DATE: 05/07/92 AA

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALB	SB	ASS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	KI	SE	AG	NA	TL	VN	ZN	CN
SO	1.00	1105		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	1110		X					X		X		X						X			X				X	
S	1.00	1115			X																						
S	1.00	1120					X	X				X		X			X								X		
S	1.00	1124								X						X				X			X				
ICV	1.00	1126		X	X		X	X	X		X	X	X	X			X		X			X			X	X	
ICV	1.00	1131								X						X				X			X				
ICV	1.00	1136																									
ICB	1.00	1141		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSA	1.00	1146		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	1150		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	1155			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	1200		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1205		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
PBS	1.00	1210		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	1.00	1215		X	X		X	X	X		X	X	X	X		X	X		X	X		X	X		X	X	
LCSS	5.00	1220								X																	
MERA14	1.00	1225		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14D	1.00	1230		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14S	1.00	1235			X		X	X	X		X	X	X				X		X			X			X	X	
MERA13	1.00	1240		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	1244		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	1249		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA15	1.00	1254		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA16	1.00	1259		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA17	1.00	1304		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA18	1.00	1309		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA19	1.00	1314		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA14A	1.00	1319			X																						
MERA14L	5.00	1324		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1329																									
ZZZZZZ	1.00	1334																									

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: P2 METHOD: P

START DATE: 05/07/92 END DATE: 05/07/92 AB

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																									
				ALL	SBS	ASA	BBE	CDA	CAR	CRO	CUE	FEB	PBG	MN	MG	HNI	NK	SEG	ANA	TL	VN	ZN	CN
ZZZZZZ	1.00	1339																					
CCV	1.00	1344		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1348		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1353																					
ZZZZZZ	1.00	1358																					
ZZZZZZ	1.00	1403																					
ZZZZZZ	1.00	1408																					
ZZZZZZ	1.00	1413																					
ZZZZZZ	1.00	1418																					
ZZZZZZ	1.00	1423																					
ZZZZZZ	1.00	1428																					
ZZZZZZ	1.00	1433																					
ZZZZZZ	1.00	1438																					
CCV	1.00	1443		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1447		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1452																					
ZZZZZZ	1.00	1457																					
ZZZZZZ	1.00	1502																					
ZZZZZZ	1.00	1507																					
ZZZZZZ	1.00	1512																					
ZZZZZZ	1.00	1517																					
ZZZZZZ	1.00	1522																					
ZZZZZZ	1.00	1527																					
ZZZZZZ	1.00	1532																					
ZZZZZZ	1.00	1537																					
CCV	1.00	1542		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
CCB	1.00	1546		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	1551																					
CRI	1.00	1556			X			X	X		X	X	X			X		X			X	X	
ICSA	1.00	1601		X	X		X	X	X	X	X	X	X		X	X		X	X		X	X	
ICSAB	1.00	1606		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	

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: P2 METHOD: P

START DATE: 05/07/92 END DATE: 05/07/92 AC

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																									
				ALK	SB	SAS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	AN	TL	VN	ZN	CN
CCB	1.00	1616		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AD

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALB	SBS	ABA	BBE	CBD	CCA	CCR	CCO	CCU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	VN	ZN	CN
S0	1.00	2301																		X						
S30	1.00	2306																		X						
S5	1.00	2314																		X						
S60	1.00	2319																		X						
ICV	2.00	2337																		X						
ICB	1.00	2342																		X						
CRA	1.00	2347																		X						
CCV	1.00	0004																		X						
CCB	1.00	0009																		X						
ZZZZZZ	1.00	0016																								
PBS	1.00	0023																		X						
PBSA	1.00	0031	108.9																	X						
LCSS	200.00	0035																								
LCSSA	200.00	0040																								
LCSS	10.00	0045																		X						
LCSSA	10.00	0050	153.1																	X						
MERA14	1.00	0102																		X						
MERA14A	1.00	0107	125.2																	X						
ZZZZZZ	1.00	0112																								
CCV	1.00	0120																		X						
CCB	1.00	0125																		X						
STB	1.00	0132																		X						
CCV	1.00	0142																		X						
CCB	1.00	0147																		X						
MERA14D	1.00	0151																		X						
MERA14DA	1.00	0156	114.6																	X						
MERA14S	1.00	0201																		X						
MERA14S	5.00	0207																								
MERA14	2.00	0212																								
MERA14A	2.00	0220																								
MERA14D	2.00	0227																								
MERA14DA	2.00	0232																								

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AE

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALL	SBS	ASA	BAE	BCD	CCA	CRO	CUE	FEB	PBG	MNG	HGI	NIK	SE	AGA	NAL	TL	VN	ZN	CN
CCV	1.00	0238															X						
CCB	1.00	0243															X						
MERA16	1.00	0248															X						
MERA16A	1.00	0255	-9999.9																				
MERA16A	1.00	0301	100.0														X						
MERA13	1.00	0306															X						
MERA13A	1.00	0315	101.1														X						
MERA15	1.00	0320															X						
MERA15A	1.00	0325	107.1														X						
CCV	1.00	0330															X						
CCB	1.00	0335															X						
MERA17	1.00	0340															X						
MERA17A	1.00	0358	-9999.9																				
MERA17A	1.00	0403	60.0														X						
MERA18	1.00	0408															X						
MERA18A	1.00	0418	79.6														X						
MERA19	1.00	0423															X						
MERA19A	1.00	0428	71.8														X						
CCV	1.00	0433															X						
CCB	1.00	0438															X						
MERA150	1.00	0446																					
MERA151	1.00	0451																					
MERA152	1.00	0453																					
MERA153	1.00	0456																					
MERA170	1.00	0500																					
MERA171	1.00	0503																					
MERA172	1.00	0506																					
MERA173	1.00	0509																					
MERA180	1.00	0513																					
MERA181	1.00	0517																					
MERA182	1.00	0521																					
MERA183	1.00	0525																					

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AF

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																						
				ALB	SBS	ABA	BBE	CBD	CCA	CCR	CCO	CCU	FE	PB	MG	MN	HG	NI	KE	SE	AG	NA	TL	VN	ZN	CN
CCV	1.00	0533																		X						
CCB	1.00	0538																		X						

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AG

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																						
				ALB	SBS	ABA	BBE	CDA	CAR	CRO	CUE	FEB	PBG	MGN	MNG	HNI	KI	SEG	ANA	TLI	VN	ZN	CN
S0	1.00	2301			X																		
S30	1.00	2306			X																		
S10	1.00	2314			X																		
S60	1.00	2319			X																		
ICV	2.00	2337			X																		
ICB	1.00	2342			X																		
CRA	1.00	2347			X																		
CCV	1.00	0004			X																		
CCB	1.00	0009			X																		
ZZZZZZ	1.00	0016																					
PBS	1.00	0023			X																		
PBSA	1.00	0031	102.2		X																		
LCSS	200.00	0035			X																		
LCSSA	200.00	0040	130.2		X																		
LCSS	10.00	0045																					
LCSSA	10.00	0050																					
MERA14	1.00	0102																					
MERA14A	1.00	0107	-9999.9																				
ZZZZZZ	1.00	0112																					
CCV	1.00	0120			X																		
CCB	1.00	0125			X																		
STB	1.00	0132			X																		
CCV	1.00	0142			X																		
CCB	1.00	0147			X																		
MERA14D	1.00	0151																					
MERA14DA	1.00	0156	-9999.9																				
MERA14S	1.00	0201																					
MERA14S	5.00	0207			X																		
MERA14	2.00	0212			X																		
MERA14A	2.00	0220	98.4		X																		
MERA14D	2.00	0227			X																		
MERA14DA	2.00	0232	104.1		X																		

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AH

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																						
				ALKALINITY	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
CCV	1.00	0238			X																				
CCB	1.00	0243			X																				
MERA16	1.00	0248			X																				
MERA16A	1.00	0255	86.1		X																				
MERA16A	1.00	0301	-9999.9																						
MERA13	1.00	0306			X																				
MERA13A	1.00	0315	107.8		X																				
MERA15	1.00	0320																							
MERA15A	1.00	0325	118.5																						
CCV	1.00	0330			X																				
CCB	1.00	0335			X																				
MERA17	1.00	0340																							
MERA17A	1.00	0358	74.5																						
MERA17A	1.00	0403	-9999.9																						
MERA18	1.00	0408																							
MERA18A	1.00	0418	127.8																						
MERA19	1.00	0423			X																				
MERA19A	1.00	0428	87.8		X																				
CCV	1.00	0433			X																				
CCB	1.00	0438			X																				
MERA150	1.00	0446			X																				
MERA151	1.00	0451			X																				
MERA152	1.00	0453			X																				
MERA153	1.00	0456			X																				
MERA170	1.00	0500			X																				
MERA171	1.00	0503			X																				
MERA172	1.00	0506			X																				
MERA173	1.00	0509			X																				
MERA180	1.00	0513			X																				
MERA181	1.00	0517			X																				
MERA182	1.00	0521			X																				
MERA183	1.00	0525			X																				

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A6 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AI

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																						
				ALB	SB	ASA	BAE	BED	CDA	CAR	COO	CUE	FEB	PBG	MNG	MGN	HGI	NI	KE	SEG	ANA	TAL	VN	ZN	CN	
CCV	1.00	0533				X																				
CCB	1.00	0538				X																				

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AJ

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALB	SBS	ABA	BAE	BCD	CAA	CAR	CCO	CUU	FEE	PBB	MGN	MGN	HGI	NIK	SEE	AGA	NAL	TLL	VIN	ZIN	CCN
S0	1.00	2319												X											
S30	1.00	2323												X											
S3	1.00	2327																							
S3	1.00	2332												X											
S60	1.00	2336												X											
ICV	1.00	2344												X											
ICB	1.00	2348												X											
CRA	1.00	2352												X											
CCV	1.00	2356												X											
CCB	1.00	0000												X											
PBS	1.00	0004												X											
PBSA	1.00	0008	99.6											X											
LCSS	50.00	0013												X											
LCSSA	50.00	0017	91.4											X											
LCSS	10.00	0021																							
LCSSA	10.00	0025																							
ZZZZZZ	1.00	0031																							
ZZZZZZ	1.00	0035																							
CCV	1.00	0040												X											
CCB	1.00	0044												X											
MERA14	1.00	0048																							
MERA14A	1.00	0052	-9999.9																						
MERA14D	1.00	0056																							
MERA14DA	1.00	0101	-9999.9																						
MERA14D	5.00	0105												X											
MERA14DA	5.00	0109	96.7											X											
MERA14S	1.00	0113																							
MERA14S	5.00	0117												X											
CCV	1.00	0122												X											
CCB	1.00	0126												X											
MERA13	1.00	0130												X											
MERA13A	1.00	0137	-9999.9																						

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AK

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALB	SBS	ABA	BBE	CBD	CCA	CCR	CCO	CCU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	VN	ZN	CN
MERA13A	1.00	0142	100.2											X												
MERA15	1.00	0146												X												
MERA15A	1.00	0150	99.4											X												
MERA16	1.00	0154												X												
MERA16A	1.00	0159	98.0											X												
MERA17	1.00	0206																								
MERA17A	1.00	0210	-9999.9																							
CCV	1.00	0217												X												
CCB	1.00	0221												X												
MERA17	5.00	0226												X												
MERA17A	5.00	0234	95.6											X												
MERA18	1.00	0239												X												
MERA18A	1.00	0243	99.2											X												
MERA19	1.00	0247																								
MERA19A	1.00	0251	-9999.9																							
MERA19	5.00	0258												X												
MERA19A	5.00	0302	93.2											X												
CCV	1.00	0307												X												
CCB	1.00	0311												X												
ZZZZZZ	1.00	0316																								
ZZZZZZ	1.00	0320																								
ZZZZZZ	1.00	0324																								
ZZZZZZ	1.00	0328																								
ZZZZZZ	1.00	0332																								
ZZZZZZ	1.00	0336																								
ZZZZZZ	1.00	0353																								
ZZZZZZ	1.00	0358																								
CCV	1.00	0402												X												
CCB	1.00	0407												X												
ZZZZZZ	1.00	0411																								
ZZZZZZ	1.00	0415																								
ZZZZZZ	1.00	0419																								

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AL

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALK	BS	ABS	BAE	BED	CDA	CAR	CRO	CUE	FEB	PBG	MGN	MGI	HGI	NIK	SEG	ANA	TLI	VIN	ZIN	CN							
ZZZZZZ	1.00	0428																													
ZZZZZZ	1.00	0432																													
ZZZZZZ	1.00	0450																													
ZZZZZZ	1.00	0454																													
ZZZZZZ	1.00	0502																													
ZZZZZZ	1.00	0507																													
ZZZZZZ	1.00	0513																													
CCV	1.00	0518												X																	
CCB	1.00	0522												X																	
ZZZZZZ	1.00	0527																													
CCV	1.00	0531												X																	
CCB	1.00	0536												X																	

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AM

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																						
				ALB	SBS	ABA	BBE	CBD	CAA	CAR	CCO	CCU	FEE	PBB	MBG	MBN	HBG	NBI	KBI	SBE	AGA	NAA	TAL	VAN	ZAN	CAN
S0	1.00	2319																					X			
S30	1.00	2323																					X			
S10	1.00	2327																								
S10	1.00	2332																					X			
S60	1.00	2336																					X			
ICV	1.00	2344																					X			
ICB	1.00	2348																					X			
CRA	1.00	2352																					X			
CCV	1.00	2356																					X			
CCB	1.00	0000																					X			
PBS	1.00	0004																					X			
PBSA	1.00	0008	91.7																				X			
LCSS	50.00	0013																								
LCSSA	50.00	0017																								
LCSS	10.00	0021																					X			
LCSSA	10.00	0025	88.0																				X			
ZZZZZZ	1.00	0031																								
ZZZZZZ	1.00	0035																								
CCV	1.00	0040																					X			
CCB	1.00	0044																					X			
MERA14	1.00	0048																					X			
MERA14A	1.00	0052	86.7																				X			
MERA14D	1.00	0056																					X			
MERA14DA	1.00	0101	83.6																				X			
MERA14D	5.00	0105																								
MERA14DA	5.00	0109																								
MERA14S	1.00	0113																					X			
MERA14S	5.00	0117																								
CCV	1.00	0122																					X			
CCB	1.00	0126																					X			
MERA13	1.00	0130																					X			
MERA13A	1.00	0137	-9999.9																							

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AN

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																										
				ALL	SBS	ASA	BAE	BDA	CAR	CCO	CUE	FEB	PBG	MNG	MGN	HGI	NIK	SEG	AGA	NAL	TLN	VZN	ZNN	CN						
MERA13A	1.00	0142	81.9																	X										
MERA15	1.00	0146																		X										
MERA15A	1.00	0150	84.1																	X										
MERA16	1.00	0154																		X										
MERA16A	1.00	0159	81.5																	X										
MERA17	1.00	0206																		X										
MERA17A	1.00	0210	79.4																	X										
CCV	1.00	0217																		X										
CCB	1.00	0221																		X										
MERA17	5.00	0226																												
MERA17A	5.00	0234																												
MERA18	1.00	0239																		X										
MERA18A	1.00	0243	81.4																	X										
MERA19	1.00	0247																		X										
MERA19A	1.00	0251	87.6																	X										
MERA19	5.00	0258																												
MERA19A	5.00	0302																												
CCV	1.00	0307																		X										
CCB	1.00	0311																		X										
ZZZZZZ	1.00	0316																												
ZZZZZZ	1.00	0320																												
ZZZZZZ	1.00	0324																												
ZZZZZZ	1.00	0328																												
ZZZZZZ	1.00	0332																												
ZZZZZZ	1.00	0336																												
ZZZZZZ	1.00	0353																												
ZZZZZZ	1.00	0358																												
CCV	1.00	0402																		X										
CCB	1.00	0407																		X										
ZZZZZZ	1.00	0411																												
ZZZZZZ	1.00	0415																												
ZZZZZZ	1.00	0419																												

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/07/92 END DATE: 05/08/92 AO

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALB	SBS	ABA	BBE	CDD	CAA	CRR	COO	CUU	FEE	PBB	MGG	MNN	HGG	NIN	KI	SE	AGG	NAA	TLL	VN	ZN	CN
ZZZZZZ	1.00	0428																										
ZZZZZZ	1.00	0432																										
ZZZZZZ	1.00	0450																										
ZZZZZZ	1.00	0454																										
ZZZZZZ	1.00	0502																										
ZZZZZZ	1.00	0507																										
ZZZZZZ	1.00	0513																										
CCV	1.00	0518																					X					
CCB	1.00	0522																					X					
ZZZZZZ	1.00	0527																										
CCV	1.00	0531																					X					
CCB	1.00	0536																					X					

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AP

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																								
				ALUMINUM	SBS	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
S0	1.00	2330												X													
S30	1.00	2334												X													
S3	1.00	2338												X													
S60	1.00	2343												X													
ICV	1.00	2356												X													
ICB	1.00	0000												X													
CRA	1.00	0004												X													
CCV	1.00	0009												X													
CCB	1.00	0013												X													
MERA14	5.00	0018												X													
MERA14A	5.00	0022	108.6											X													
ZZZZZZ	1.00	0026																									
ZZZZZZ	1.00	0030																									
ZZZZZZ	1.00	0035																									
ZZZZZZ	1.00	0039																									
ZZZZZZ	1.00	0043																									
ZZZZZZ	1.00	0047																									
ZZZZZZ	1.00	0101																									
ZZZZZZ	1.00	0106																									
CCV	1.00	0110												X													
CCB	1.00	0114												X													
ZZZZZZ	1.00	0118																									
ZZZZZZ	1.00	0122																									
ZZZZZZ	1.00	0132																									
ZZZZZZ	1.00	0140																									
ZZZZZZ	1.00	0144																									
ZZZZZZ	1.00	0149																									
ZZZZZZ	1.00	0154																									
ZZZZZZ	1.00	0158																									
ZZZZZZ	1.00	0202																									
ZZZZZZ	1.00	0206																									
CCV	1.00	0210												X													

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AQ

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																										
				ALUMINUM	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
CCB	1.00	0214												X										
ZZZZZZ	1.00	0219																						
ZZZZZZ	1.00	0223																						
ZZZZZZ	1.00	0227																						
ZZZZZZ	1.00	0231																						
ZZZZZZ	1.00	0235																						
ZZZZZZ	1.00	0239																						
ZZZZZZ	1.00	0243																						
ZZZZZZ	1.00	0247																						
CCV	1.00	0252												X										
CCB	1.00	0256												X										
ZZZZZZ	1.00	0300																						
ZZZZZZ	1.00	0304																						
ZZZZZZ	1.00	0308																						
ZZZZZZ	1.00	0312																						
ZZZZZZ	1.00	0317																						
ZZZZZZ	1.00	0321																						
ZZZZZZ	1.00	0325																						
ZZZZZZ	1.00	0329																						
CCV	1.00	0334												X										
CCB	1.00	0338												X										
ZZZZZZ	1.00	0342																						
ZZZZZZ	1.00	0346																						
ZZZZZZ	1.00	0350																						
ZZZZZZ	1.00	0354																						
ZZZZZZ	1.00	0404																						
ZZZZZZ	1.00	0408																						
ZZZZZZ	1.00	0412																						
ZZZZZZ	1.00	0416																						
CCV	1.00	0421												X										
CCB	1.00	0425												X										
ZZZZZZ	1.00	0429																						

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AR

EPA SAMPLE NO.	D / F	TIME	% R	ALUMINUM	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
ZZZZZZ	1.00	0433																						
ZZZZZZ	1.00	0437																						
ZZZZZZ	1.00	0442																						
ZZZZZZ	1.00	0446																						
ZZZZZZ	1.00	0450																						
ZZZZZZ	1.00	0454																						
ZZZZZZ	1.00	0458																						
ZZZZZZ	1.00	0503																						
CCV	1.00	0510															X							
CCB	1.00	0514															X							
ZZZZZZ	1.00	0519																						
ZZZZZZ	1.00	0523																						
ZZZZZZ	1.00	0533																						
ZZZZZZ	1.00	0537																						
ZZZZZZ	1.00	0545																						
ZZZZZZ	1.00	0552																						
CCV	1.00	0556															X							
CCB	1.00	0600															X							

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AS

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALB	SBS	ABA	BBE	CBD	CCA	CCR	CCO	CCU	FEE	PBB	MGG	MNN	HGG	NNI	KK	SE	AG	NA	TL	VN	ZN	CN
S0	1.00	2330																					X			
S30	1.00	2334																					X			
S10	1.00	2338																					X			
S60	1.00	2343																					X			
ICV	1.00	2356																					X			
ICB	1.00	0000																					X			
CRA	1.00	0004																					X			
CCV	1.00	0009																					X			
CCB	1.00	0013																					X			
MERA14	5.00	0018																								
MERA14A	5.00	0022																								
ZZZZZZ	1.00	0026																								
ZZZZZZ	1.00	0030																								
ZZZZZZ	1.00	0035																								
ZZZZZZ	1.00	0039																								
ZZZZZZ	1.00	0043																								
ZZZZZZ	1.00	0047																								
ZZZZZZ	1.00	0101																								
ZZZZZZ	1.00	0106																								
CCV	1.00	0110																					X			
CCB	1.00	0114																					X			
ZZZZZZ	1.00	0118																								
ZZZZZZ	1.00	0122																								
ZZZZZZ	1.00	0132																								
ZZZZZZ	1.00	0140																								
ZZZZZZ	1.00	0144																								
ZZZZZZ	1.00	0149																								
ZZZZZZ	1.00	0154																								
ZZZZZZ	1.00	0158																								
ZZZZZZ	1.00	0202																								
ZZZZZZ	1.00	0206																								
CCV	1.00	0210																					X			

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AT

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALB	SBS	ABA	BBE	CBD	CCA	CCR	CCO	CCU	FEE	PBB	MGN	MMG	HNG	NNI	KSE	SGA	NAA	TLL	VIN	ZNN	CCN
CCB	1.00	0214																				X			
ZZZZZZ	1.00	0219																							
ZZZZZZ	1.00	0223																							
ZZZZZZ	1.00	0227																							
ZZZZZZ	1.00	0231																							
ZZZZZZ	1.00	0235																							
ZZZZZZ	1.00	0239																							
ZZZZZZ	1.00	0243																							
ZZZZZZ	1.00	0247																							
CCV	1.00	0252																				X			
CCB	1.00	0256																				X			
ZZZZZZ	1.00	0300																							
ZZZZZZ	1.00	0304																							
ZZZZZZ	1.00	0308																							
ZZZZZZ	1.00	0312																							
ZZZZZZ	1.00	0317																							
ZZZZZZ	1.00	0321																							
ZZZZZZ	1.00	0325																							
ZZZZZZ	1.00	0329																							
CCV	1.00	0334																				X			
CCB	1.00	0338																				X			
ZZZZZZ	1.00	0342																							
ZZZZZZ	1.00	0346																							
ZZZZZZ	1.00	0350																							
ZZZZZZ	1.00	0354																							
ZZZZZZ	1.00	0404																							
ZZZZZZ	1.00	0408																							
ZZZZZZ	1.00	0412																							
ZZZZZZ	1.00	0416																							
CCV	1.00	0421																				X			
CCB	1.00	0425																				X			
ZZZZZZ	1.00	0429																							

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: A1 METHOD: F

START DATE: 05/20/92 END DATE: 05/21/92 AU

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																							
				ALUMINUM	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	MAGNESIUM	MANGANESE	NICKEL	POTASSIUM	SELENIUM	SODIUM	THALLIUM	VANADIUM	ZINC	CYANIDE
ZZZZZZ	1.00	0433																					
ZZZZZZ	1.00	0437																					
ZZZZZZ	1.00	0442																					
ZZZZZZ	1.00	0446																					
ZZZZZZ	1.00	0450																					
ZZZZZZ	1.00	0454																					
ZZZZZZ	1.00	0458																					
ZZZZZZ	1.00	0503																					
CCV	1.00	0510																		X			
CCB	1.00	0514																		X			
ZZZZZZ	1.00	0519																					
ZZZZZZ	1.00	0523																					
ZZZZZZ	1.00	0533																					
ZZZZZZ	1.00	0537																					
ZZZZZZ	1.00	0545																					
ZZZZZZ	1.00	0552																					
CCV	1.00	0556																		X			
CCB	1.00	0600																		X			

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: V2 METHOD: CV

START DATE: 05/06/92 END DATE: 05/06/92 AV

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																						
				ALB	SBS	ASA	BBE	CDA	CAR	CRO	CUE	FEB	PBG	MGN	MMG	HNI	KS	SEG	ANA	TLI	VZN	ZCN				
S0	1.00	1819													X											
S0.5	1.00														X											
S1	1.00														X											
S3	1.00														X											
S5	1.00														X											
S10	1.00														X											
ICV	2.00														X											
ICB	1.00														X											
CCV	1.00														X											
CCB	1.00														X											
PBS	1.00														X											
LCSS	5.00														X											
MERA14	1.00														X											
MERA14S	1.00														X											
MERA14D	1.00														X											
MERA13	1.00														X											
MERA15	1.00														X											
MERA16	1.00														X											
MERA17	1.00														X											
MERA18	1.00														X											
CCV	1.00														X											
CCB	1.00														X											
MERA19	1.00														X											
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
CCV	1.00														X											
CCB	1.00	1924													X											

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: C1 METHOD: AS

START DATE: 05/06/92 END DATE: 05/06/92 AW

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALL	BS	AS	BE	BD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	AL	TL	V	ZN	CN
S300	1.00	1249																								X
S300	1.00																									X
S200	1.00																									X
S100	1.00																									X
S50	1.00																									X
S10	1.00																									X
S0	1.00																									X
S300	1.00																									X
S0	1.00																									X
S0	1.00																									X
S100	1.00																									X
S100	1.00																									X
S100	1.00																									X
ICV	1.00																									X
ICB	1.00																									X
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
PBS	1.00																									X
LCSS	1.00																									X
MERA14	1.00																									X
MERA14D	1.00																									X
ZZZZZZ	1.00																									
CCV	1.00																									X
CCB	1.00																									X
MERA14S	1.00																									X
MERA13	1.00																									X
MERA15	1.00																									X
MERA16	1.00																									X
MERA17	1.00																									X

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ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: C1 METHOD: AS

START DATE: 05/06/92 END DATE: 05/06/92 AX

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALB	SBS	ABA	BBE	CDD	CAA	CAR	CCO	CUU	FEE	PBB	MGG	MNN	HGG	NII	KII	SEE	AGG	NAA	TLL	VII	ZNN	CNN
MERA18	1.00																									X
MERA19	1.00																									X
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
CCV	1.00																									X
CCB	1.00																									X
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
ZZZZZZ	1.00																									
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ZZZZZZ	1.00																									
CCV	1.00																									X
CCB	1.00																									X
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ZZZZZZ	1.00																									
CCV	1.00																									X
CCB	1.00																									X
ZZZZZZ	1.00																									

FORM XIV - IN

3/90

U.S. EPA - CLP

14

ANALYSIS RUN LOG

LAB NAME: COMPUCHEM LABORATORIES CONTRACT: 68-D0-0150

LAB CODE: COMPU CASE NO.: 19026 SAS NO.: SDG NO.: MERA13

INSTRUMENT ID NUMBER: C1 METHOD: AS

START DATE: 05/06/92 END DATE: 05/06/92 AY

EPA SAMPLE NO.	D / F	TIME	% R	ANALYTES																											
				ALK	BS	ASB	BSA	BEC	CDA	CAR	CRO	CUE	FEB	PBG	MNG	MGI	NK	SEG	ANA	TLV	ZN	CN
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
CCV	1.00																					X
CCB	1.00																					X
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
ZZZZZZ	1.00																					
CCV	1.00																					X
CCB	1.00	1417																				X

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******                                           *******
******                                           *******
******    NO DEFECTS FOUND FOR MANUAL REPORT     *******
******                                           *******
******                                           *******
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U.S.E.P.A. - C.L.P.

S A M P L E M A N A G E M E N T O F F I C E

INORGANICS
RESOLUTION OF CONTRACT COMPLIANCE SCREENING (CCS) RESULTS

LABORATORY CODE : COMPU CASE : 19026 SDG_NO.: MERA13

RECONCILED BY : JY RECONCILIATION DATE : 11892

CRITERION	COMMENTS
RA	CODE 1723 THANK YOU FOR YOUR RESPONSE. ACTION HAS BEEN CHANGED TO NONCOMPLIANT. ARSENIC, THE TIME BETWEEN MERA 18 (3) AND THE CCV (8) MINUTES EXCEEDS THE TIME BETWEEN MERA 15 (1) AND (2) OF 2 MINUTES, USE A 2X FACTOR FOR THE TIME BECAUSE OF SINGLE INJECTION MSA. THALLIUM, THE TIME BETWEEN MERA15A AND MERA 16 IS (4) MUNUTES. THE TIME BETWEEN MERA17A AND THE CCV AT 0217 IS 7 MINUTES. THE LEAST TIME HAS BEEN EXCEEDED. SELENIUM, THE AFFECTED SAMPLES WERE NOT X'ED. THE DEFECT DOEA NOT APPLY. LEAD, THE AFFECTED SAMPLE WAS NOT X'ED. THE DEFECT DOES NOT APPLY.

P.O. BOX 818, ALEXANDRIA, VIRGINIA 22313. PHONE : (703) 684-5678/FTS-8-557-2490

Satralloy (2)

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

****
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**** ****
**** SCREENING PACKAGE ****
**** SUMMARY INFORMATION ****
**** ****
**** SDG: MERA30 ****
**** RESUBMITTED ****
**** ****
**** ILM01.0 VER. 1.1 ****
**** ****
**** CASE: 19026 ****
**** ****
**** LAB: COMPU ****
**** ****
**** CONTRACT: 68-D0-0150 ****
**** ****
**** REGION: 5 ****
**** ****
**** DRD: 06/16/92 ****
**** ****
**** FORMAT: A ****
**** ****
**** SCREEN DATE: 05/29/92 ****
**** ****
**** MAIL DATE 1: 06/04/92 ****
**** ****
**** MAIL DATE 2: 06/19/92 ****
**** SCREENER: EQ ****
**** ****
****
****
****

INORGANIC CONTRACT COMPLIANCE SCREENING SUMMARY

DEFECT COUNT BY SAMPLE AND FORM
RESUBMITTED

CASE: 19026 SAMPLES: 4 QC DONE BY: JP DATE MAILED: 06/19/92

LAB CODE: COMPU CONTRACT: 68-D0-0150 SAS NO: SCREENER: EQ DATE SCREENED: 05/29/92

SDG NUMBER: MERA30 REGION: 5 DATE RECEIVED: 06/16/92

SAMPLE NO.	A COVER PAGE	B FORM 1	CA FORM 2A	CB FORM 2B	D FORM 3	E FORM 4	FA FORM 5A	FB FORM 5B	G FORM 6	H FORM 7	I FORM 8	J FORM 9	L FORM 10	M FORM 11	N FORM 12	R FORM 13	RA FORM 14	MANUAL DEFECT
MERA30-W																		
MERA30-1																		
MERA31-1																		
MERA32-1																		
MERA32-8																		
MERA32-9																		
MERA33-1																		

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

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*****                                                   *****
*****                                                   *****
*****     NO DEFECTS FOUND FOR STRUCTURAL REPORT #1     *****
*****           RECORDS WITH INVALID FIELDS             *****
*****                                                   *****
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U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

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*****                                                   *****
*****                                                   *****
*****     NO DEFECTS FOUND FOR STRUCTURAL REPORT #2     *****
*****                                                   *****
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U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

TEXTUAL DEFECT REPORT

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*****                                                 *****
*****                                                 *****
*****    NO DEFECT FOUND FOR TEXTUAL DEFECT REPORT    *****
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*******                                               *******
*******                                               *******
*******    NO DEFECTS FOUND FOR MANUAL REPORT         *******
*******                                               *******
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U.S.E.P.A. - C.L.P.

S A M P L E M A N A G E M E N T O F F I C E

INORGANICS
RESOLUTION OF CONTRACT COMPLIANCE SCREENING (CCS) RESULTS

LABORATORY CODE : COMPU CASE : 19026 SDG_NO.: MERA30

RECONCILED BY : RECONCILIATION DATE :

CRITERION	COMMENTS

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