Satralloy (2)
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COVER SHEET

LABORATORY RESPONSE TO RESULTS OF CONTRACT COMPLIANCE SCREENING (CCS)

US EPA RECORDS CENTER REGION 5
557139

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 6-15-92

Date Screening Results Received at Laboratory 6-6-92

EPA Contract No. 68-D0-0150

Case No. 19026

SDG No. MERA30

Sample Nos.*

*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

INORGANICS
LABORATORY RESPONSE TO RESULTS OF CCS

CRITERION	COMMENTS
E. FORM 4.	This SDG has been amended to reflect compliant
	ICS (A/AB) solution results. Please refer to
	the attached hardcopy and diskette corrections.

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.: MERA30

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	5356.00	107.1			P
Antimony				5000.0	5293.80	105.9			P
Arsenic				30.0	32.71	109.0	29.90	99.7	F
Barium				5000.0	5147.80	103.0			P
Beryllium				5000.0	5176.20	103.5			P
Cadmium				5000.0	5161.30	103.2			P
Calcium				50000.0	51420.00	102.8			P
Chromium				5000.0	5100.40	102.0			P
Cobalt				5000.0	5106.10	102.1			P
Copper				5000.0	5155.10	103.1			P
Iron				5000.0	5120.50	102.4			P
Lead				30.0	30.04	100.1	29.56	98.5	F
Magnesium				50000.0	51709.00	103.4			P
Manganese				5000.0	5114.40	102.3			P
Mercury									
Nickel				5000.0	5091.90	101.8			P
Potassium				50000.0	47662.00	95.3			P
Selenium				30.0	30.12	100.4	29.85	99.5	F
Silver				500.0	519.06	103.8			P
Sodium				50000.0	51740.00	103.5			P
Thallium				30.0	29.43	98.1	29.68	98.9	F
Vanadium				5000.0	5130.40	102.6			P
Zinc				5000.0	5147.50	103.0			P
Cyanide				100.0	100.04	100.0	100.52	100.5	AS

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

FORM II (PART 1) - IN

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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.: MERA30

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	29.69	99.0			F
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead				30.0	30.38	101.3	30.84	102.8	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium				30.0	29.65	98.8	31.68	105.6	F
Silver									
Sodium									
Thallium				30.0	29.37	97.9	29.95	99.8	F
Vanadium									
Zinc									
Cyanide				100.0	99.87	99.9	101.10	101.1	AS

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

FORM II (PART 1) - IN

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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.: MERA30

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	29.08	96.9	30.40	101.3	F
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium	50.3	50.60	100.6	30.0	30.97	103.2	29.87	99.6	F
Silver									
Sodium									
Thallium				30.0	28.21	94.0	29.88	99.6	F
Vanadium									
Zinc									
Cyanide				100.0	100.06	100.1			AS

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

FORM II (PART 1) - IN

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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.: MERA30

AA CRDL Standard Source: EPA-CI

ICP CRDL Standard Source: EPA-CI

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	89.39	74.5	103.20	86.0
Arsenic	10.0	10.98	109.8					
Barium								
Beryllium				10.0	9.74	97.4	10.11	101.1
Cadmium				10.0	11.04	110.4	10.16	101.6
Calcium								
Chromium				20.0	16.56	82.8	20.01	100.0
Cobalt				100.0	97.06	97.1	104.57	104.6
Copper				50.0	48.52	97.0	51.98	104.0
Iron								
Lead	3.0	2.50	83.3					
Magnesium								
Manganese				30.0	27.79	92.6	31.62	105.4
Mercury								
Nickel				80.0	81.15	101.4	84.06	105.1
Potassium								
Selenium	5.0	4.50	90.0					
Silver				20.0	17.14	85.7	21.56	107.8
Sodium								
Thallium	10.0	9.48	94.8					
Vanadium				100.0	93.81	93.8	100.84	100.8
Zinc				40.0	38.34	95.9	41.15	102.9

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BLANKS

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

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic			3.0	U	3.0	U					F
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			3.0	U	3.0	U	3.0	U			F
Silver											
Sodium											
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium											
Zinc											
Cyanide			10.0	U	10.0	U	10.0	U			AS

FORM III - IN

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BLANKS

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

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
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	3.0	U	3.0	U					F
Silver											
Sodium											
Thallium			2.0	U	2.0	U					F
Vanadium											
Zinc											
Cyanide			10.0	U							AS

FORM III - IN

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ICP INTERFERENCE CHECK SAMPLE

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: P1 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	502760	505000.0	101.0	511290	513000.0	102.6
Antimony	0	0	6	38.8		46	27.4	
Arsenic								
Barium	0	500	5	491.8	98.4	5	502.2	100.4
Beryllium	0	500	0	486.8	97.4	0	493.4	98.7
Cadmium	0	1000	-3	978.0	97.8	-1	1012.4	101.2
Calcium	500000	500000	489620	481320.0	96.3	483510	487330.0	97.5
Chromium	0	500	3	464.8	93.0	2	476.6	95.3
Cobalt	0	500	-6	454.0	90.8	-7	464.0	92.8
Copper	0	500	9	500.8	100.2	7	506.0	101.2
Iron	200000	200000	188280	185840.0	92.9	187440	188770.0	94.4
Lead								
Magnesium	500000	500000	497780	497400.0	99.5	502980	504590.0	100.9
Manganese	0	500	13	480.3	96.1	14	488.0	97.6
Mercury								
Nickel	0	1000	11	949.5	95.0	-2	962.3	96.2
Potassium	0	0	1927	-220.8		-762	361.2	
Selenium								
Silver	0	1000	-14	989.4	98.9	-14	1003.0	100.3
Sodium	0	0	48	41.1		40	-6.0	
Thallium								
Vanadium	0	500	-4	462.6	92.5	-9	474.2	94.8
Zinc	0	1000	-21	974.0	97.4	-22	992.0	99.2

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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.: MERA30

Instrument ID Number: P1 Method: P

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
CRI	1.00	201			X			X	X		X	X	X				X		X			X			X	X	
ICSA	1.00	207		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	213		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	221		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	229		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.: MERA30

Instrument ID Number: P1 Method: P

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	540		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	546		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	553		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	559		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	605		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	612		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
CCB	1.00	619		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
ZZZZZZ	1.00	626		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	632		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	638		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	645		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	651		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	657		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	704		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	710		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	716		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	723		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV	1.00	729		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
CCB	1.00	736		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
ZZZZZZ	1.00	746		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	752		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	759		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	805		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
ZZZZZZ	1.00	812		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CRI	1.00	818		_	X	_	_	X	X	_	X	X	X	_	_	_	X	_	X	_	_	X	_	_	X	X	_
ICSA	1.00	824		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
ICSAB	1.00	831		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
CCV	1.00	839		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
CCB	1.00	847		X	X	_	X	X	X	X	X	X	X	X	_	X	X	_	X	X	_	X	X	_	X	X	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
				_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

FORM XIV - IN

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INORGANIC CASE

19026 MERA 30

ICAP Runlog

Page 1 of 2
Date 5-21-92

Method (circle one): originals in MERA30

CLP 200.7
SW-846 6010

Operator [illegible]
Case Name: MERA30 SDC209 SDC283
File Name: 12520W

P192052233

#	Sample ID	Comments	Time	#	Sample ID	Comments	Time
	ICV			1	491250	DUP	
	ICB			2	491299	SPK	
1	ICSA			3	491248		
2	ICSAB			4	491262		
3	CRI			5	491263		
4				6	491260 P	Cr @1600	
5				7	CRI		
6				8	ICSA		
7				9	ICSAB		
8				10		5-21-92	
9					CCV		
10			5-21-92		CCB		
	CCV					5-21-92	END RUN HERE
	CCB			1	491694		
			5-21-92	2	491696	DUP	
1	491939	PBS		3	491695	SPK	
2	493391	PBS		4	491698		
3	492540	PBW		5	491703		
4	491251	ICSW		6	491704		
5	491697	ICSS		7	491705		
6	491697 1:5	↓		8	491706		
7	491766			9	491698 1:5	S	
8	491766 1:5	↓		10		5-21-92	
9	491260				CCV		
10	491260 1:5	S			CCB		
	CCV						
	CCB						Ammende JCD 6/12/92
	#Samples				Instrument Hrs		
	#Dilutions				QC Samples	5-21-92	

Reviewed By [illegible] Date 5/21/92

INORGANIC CASE

19026 MERA 30

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Analysis Report QC Standard Thu 05-21-92 02:34:51 AM page 1

Method: CLP1100 Sample Name: CCB Operator:
Run Time: 05/21/92 02:29:05
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	-1.5305	11.848	-14.092	-.19239	.40022	-.54274	-29.989
SDev	18.8244	9.628	11.782	.51639	.22879	.15918	3.170
%RSD	-1229.9	81.264	-83.611	-268.40	57.166	-29.328	-10.569
#1	.03137	16.550	-12.787	-.75292	.26921	-.56139	-32.382
#2	16.464	.77229	-3.0162	.26399	.66440	-.69177	-31.191
#3	-21.087	18.221	-26.472	-.08826	.26705	-.37506	-26.394

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	.10573	1.1697	-3.4657	-1.5907	-1.7922	-4.8226	-.00005
SDev	1.1924	1.3869	.0000	2.4103	3.5897	27.1627	.00018
%RSD	1127.8	118.57	-.00110	-151.53	-200.29	-563.24	-358.11
#1	-.41913	-.43175	-3.4657	-2.9823	1.5971	14.195	-.00013
#2	1.4705	1.9694	-3.4658	1.1925	-1.4205	7.2690	-.00017
#3	-.73422	1.9715	-3.4657	-2.9822	-5.5533	-35.931	.00015

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	-9.0755	-2087.1	3.9172	-1.7638	-17.986	-2.6364	.18922
SDev	2.0165	893.7	6.4475	.3046	58.524	.8882	.22155
%RSD	-22.219	-42.818	164.60	-17.272	-325.39	-33.690	117.09
#1	-10.749	-2307.8	3.1890	-1.9399	-66.804	-2.4898	-.02777
#2	-6.8368	-2849.7	-2.1353	-1.4120	46.891	-3.5888	.18035
#3	-9.6403	-1103.8	10.698	-1.9395	-34.044	-1.8306	.41506

Elem	Tl1908
Units	ug/Liter
Avge	-10.993
SDev	41.006
%RSD	-373.03
#1	-56.982
#2	21.761
#3	2.2432

End Run HERE
amended
JCD
6/12/92

INORGANIC CASE

19026 MERA 30

RECEIVED
JUN 18 1992
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/19/92

SUBJECT: Review of Region V CLP Data Received for Review on May 28, 1992

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

TO: Data User: PRC

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

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

EPA Data Set No. (2) No. of Samples 4 DU/Activity Numbers 1

CRL No.

SMO Traffic No. MELA30-33

CLP Laboratory: Compuchem Hrs. for Review 4 +0.5 hr

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(2) SDG: MERA30

The laboratory's portion of case 19026(2) contains 4 low level water sample 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 lab lists only the SDG for where the originals for the airbill, DC1, traffic report/chain of custody, and samples tags can be found. However, the reviewer located the the original information in case 19026(1) SDG MERA13. The CN raw data can be found in case 19026(1) SDG MERA13.

ICP ANALYSES: The duplicate audit of Fe(CRDL) is out of control. The preparation blank was found to contain Fe(15.11 ug/l). The sample results MERA31, 33 for Fe are estimated(J) due to contamination and poor precision. The remaining Fe data are estimated(J) due to poor precision.

The preparation blank was found to contain Na(354.570 ug/l) and Zn(3.703 ug/l). The Na result of MERA33 and the Zn results of MERA 30, 32, and 33 are estimated(J) due to contamination.

The lab did not flag the matrix spike recovery of Cr(151%) since the sample result was 4X greater than the amount of spike added. All Cr data are acceptable.

The duplicate audit of Al(34.2% RPD) was not flagged by the lab since the technical criteria(CRDL) for waters was not exceeded. All Al data are acceptable.

GFAA ANALYSES: The duplicate audit of As(49.8% RPD) was not flagged by the lab since the technical criteria(CRDL) was not exceeded by the lab. As data is not qualified based on the duplicate audit. The lab flagged "W" on MERA30-32 for As. MERA32 is estimated(J) and MERA30, 31 are estimated(UJ) due to interference for As.

The lab flagged "W" on MERA30-32 for Pb. The matrix spike recovery for Pb(46.1%) is out of control. The Pb result on MERA33 is estimated(UJ) due to a possible elevated detection limit. The remaining Pb results are estimated(UJ) due to interference and a possible elevated detection limit.

The matrix spike recovery of Se(51.5%) is out of control. The lab flagged "W" on MERA32 for Se. Sample result on MERA32 for Se is estimated(UJ) due to interference and a possible elevated detection limit. The remaining Se results are estimated(UJ) due to a possible elevated detection limit.

M. Fletcher

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

GFAA ANALYSES: The matrix spike recoevry of Tl(68.6%) is out of control. The lab flagged "W" on MERA30-32 for Tl. All "W" flagged data are estimated(UJ) due to interference and a possible elevated detection limit. The remaining Tl result is estimated(UJ) due to a possible elevated detection limit.

OTHER QUALIFIERS: All CN and Hg data are acceptable.

The field duplicate pair, MERA30/31 indicated poor precision for Fe(200% RPD). All Fe data remain qualified as previously stated.

The field blank, MERA33 contained Fe(41.80 ug/l) and Zn(8.5 ug/l). MERA31, 32 for Fe and MERA30, 32 for Zn are affected by contamination however the results remain qualified as previously stated.

M. Fletcher

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

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COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

SOW No.: 3/90

EPA Sample No.	Lab Sample ID
MERA30	491248
MERA31	491252
MERA32	491260
MERA32D	491250
MERA32S	491253
MERA33	491263

RECEIVED
MAY 28 1992
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: Rick Christenbury for Name: Rob Hamrick

Date: 5-26-92 Title: Manager Inorganic Div.

QC EXCEPTION SUMMARY REPORT

CASE # 190262
DATA S...
LAB S...
DATE 6/12/92

SITE Sitgallon
LAB Compatchem
REVIEWED BY M. Jeffers

MATRIX: Water
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	Init Calver	Contin Calver	Prep Blk AQ	Prep Blk SOL	ICS %R	ICS % AQ	ICS % SOL	Sol Dup RPD	Sol Spk %R	AQ Dup RPD	AQ Spk %R	Ser Dilu AQ	Ser Dilu SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
Aluminum																								
Antimony																								
Arsenic																								
Barium																								
Beryllium																								
Cadmium																								
Calcium																								
Chromium																								
Cobalt																								
Copper																								
Iron												94.3	~~46.7~~					200	41.80					
Lead					15.11								46.1											
Magnesium																								
Manganese																								
Mercury																								
Nickel																								
Potassium																								
Selenium													51.5											
Silver																								
Sodium					35.950																			
Thallium													66.0											
Tin																								
Vanadium																								
Zinc					37.53														8.5					
Cyanide																								

DCI copy. gives SDG not correct
however can be found in 190260(1) SDG mera 13
ITK/COC copy no indication
Strip lists 1750 OK
contains
MERA30 SDG
C Original 190260(1) SDG mera 13
~~pg 154-207 copies formerly data where are originals~~

ICP

Fe (94.3) dup out CERL

Fe PB 15,111 31 33

Na PB 35,570 33

Zn PB 3,703 30, 32 33

not flagged spike
Cr (151)

dup not flagged 20%
Al (34.2)
Fe

Zgas

As w flag 30 31 32 LIDL
dup not flagged (49.8)

Pb w flag LIDL 30 31 32
(46.1) spike

Y w flag LIDL 30 31 32
(68.6) spike

Se (51.5) spike w flag LIDL 30 32

dup not flagged
(As (49.8))

Other general chem

FB 30, 31 28, 10%
Fe (29, 10, 215) - FPD 200

FB 33

Fe (41.80) 31 32

~~Na (337)~~

Zn (8.5)
30, 32

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA30

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491248

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	84.00	U		P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium	27.50	B		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	249000.00			P
7440-47-3	Chromium	743.00			P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	215.00		*	P
7439-92-1	Lead	2.00	U	WN	F
7439-95-4	Magnesium	60700.00			P
7439-96-5	Manganese	8.60	B		P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	6240.00			P
7782-49-2	Selenium	15.00	U	N	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	29000.00			P
7440-28-0	Thallium	2.00	U	WN	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	3.30	B		P
	Cyanide	10.00	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA31

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491252

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	86.00	B		P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	3.00	U	W	F
7440-39-3	Barium	27.70	B		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	251000.00			P
7440-47-3	Chromium	751.00			P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	29.10	B	*	P
7439-92-1	Lead	2.00	U	WN	F
7439-95-4	Magnesium	62000.00			P
7439-96-5	Manganese	9.20	B		P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	6140.00			P
7782-49-2	Selenium	15.00	U	N	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	29800.00			P
7440-28-0	Thallium	2.00	U	WN	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	3.00	U		P
	Cyanide	10.30			AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA32

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491260

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	276.00			P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	8.70	B	W	F
7440-39-3	Barium	19.40	B		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	123000.00			P
7440-47-3	Chromium	819.00			P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	166.00		*	P
7439-92-1	Lead	2.00	U	WN	F
7439-95-4	Magnesium	9970.00			P
7439-96-5	Manganese	47.00			P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	15700.00			P
7782-49-2	Selenium	15.00	U	WN	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	23000.00			P
7440-28-0	Thallium	2.00	U	WN	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	4.30	B		P
	Cyanide	10.00	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MERA33

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix (soil/water): WATER Lab Sample ID: 491263

Level (low/med): LOW Date Received: 4/30/92

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	84.00	U		P
7440-36-0	Antimony	41.00	U		P
7440-38-2	Arsenic	3.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	2.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	843.00	U		P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	11.00	U		P
7440-50-8	Copper	19.00	U		P
7439-89-6	Iron	41.80	B	*	P
7439-92-1	Lead	2.00	U	N	F
7439-95-4	Magnesium	347.00	U		P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	.20	U		CV
7440-02-0	Nickel	29.00	U		P
7440-09-7	Potassium	4180.00	U		P
7782-49-2	Selenium	3.00	U	N	F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	337.00	B		P
7440-28-0	Thallium	2.00	U	N	F
7440-62-2	Vanadium	13.00	U		P
7440-66-6	Zinc	8.50	B		P
	Cyanide	10.00	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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3
BLANKS

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

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	84.0	U	84.0	U	84.0	U	84.0	U	84.000	U	P
Antimony	41.0	U	41.0	U	41.0	U	41.0	U	41.000	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	F
Barium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Calcium	843.0	U	843.0	U	843.0	U	843.0	U	843.000	U	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Cobalt	11.0	U	11.0	U	11.0	U	11.0	U	11.000	U	P
Copper	19.0	U	19.0	U	19.0	U	19.0	U	19.000	U	P
Iron	7.0	U	7.0	U	7.0	U	7.0	U	15.111	B	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Magnesium	347.0	U	347.0	U	347.0	U	347.0	U	347.000	U	P
Manganese	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Mercury	.2	U	.2	U	.2	U			.200	U	CV
Nickel	29.0	U	29.0	U	29.0	U	29.0	U	29.000	U	P
Potassium	4178.0	U	4178.0	U	4178.0	U	4178.0	U	4178.000	U	P
Selenium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	F
Silver	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	P
Sodium	309.0	U	309.0	U	309.0	U	309.0	U	354.570	B	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Vanadium	13.0	U	13.0	U	13.0	U	13.0	U	13.000	U	P
Zinc	3.0	U	3.0	U	3.0	U	3.0	U	3.703	B	P
Cyanide	10.0	U	10.0	U	10.0	U	10.0	U	10.000	U	AS

FORM III - IN

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3
BLANKS

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

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			84.0	U	84.0	U	84.0	U			P
Antimony			41.0	U	41.0	U	41.0	U			P
Arsenic			3.0	U	3.0	U					F
Barium			3.0	U	3.0	U	3.0	U			P
Beryllium			2.0	U	2.0	U	2.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			843.0	U	843.0	U	843.0	U			P
Chromium			10.0	U	10.0	U	10.0	U			P
Cobalt			11.0	U	11.0	U	11.0	U			P
Copper			19.0	U	19.0	U	19.0	U			P
Iron			7.0	U	7.0	U	7.0	U			P
Lead			2.0	U	2.0	U	2.0	U			F
Magnesium			347.0	U	347.0	U	347.0	U			P
Manganese			3.0	U	3.0	U	3.0	U			P
Mercury											
Nickel			29.0	U	29.0	U	29.0	U			P
Potassium			4178.0	U	4178.0	U	4178.0	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			309.0	U	309.0	U	309.0	U			P
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium			13.0	U	13.0	U	13.0	U			P
Zinc			3.0	U	3.0	U	3.0	U			P
Cyanide			10.0	U	10.0	U	10.0	U			AS

FORM III - IN

U.S. EPA - CLP

3
BLANKS

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

Lab code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			84.0	U	84.0	U					P
Antimony			41.0	U	41.0	U					P
Arsenic											
Barium			3.0	U	3.0	U					P
Beryllium			2.0	U	2.0	U					P
Cadmium			5.0	U	5.0	U					P
Calcium			843.0	U	843.0	U					P
Chromium			10.0	U	10.0	U					P
Cobalt			11.0	U	11.0	U					P
Copper			19.0	U	19.0	U					P
Iron			7.0	U	7.0	U					P
Lead			2.0	U	2.0	U					F
Magnesium			347.0	U	347.0	U					P
Manganese			3.0	U	3.0	U					P
Mercury											
Nickel			29.0	U	29.0	U					P
Potassium			4178.0	U	4178.0	U					P
Selenium	3.0	U	3.0	U	3.0	U					F
Silver			10.0	U	10.0	U					P
Sodium			309.0	U	309.0	U					P
Thallium			2.0	U	2.0	U					F
Vanadium			13.0	U	13.0	U					P
Zinc			3.0	U	3.0	U					P
Cyanide			10.0	U							AS

FORM III - IN

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.: MERA30

ICP ID Number: P1 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	502760	505000.0	101.0	527630	522040.0	104.4
Antimony	0	0	6	38.8		36	16.1	
Arsenic								
Barium	0	500	5	491.8	98.4	5	509.6	101.9
Beryllium	0	500	0	486.8	97.4	0	491.5	98.3
Cadmium	0	1000	-3	978.0	97.8	-4	1004.4	100.4
Calcium	500000	500000	489620	481320.0	96.3	503770	487030.0	97.4
Chromium	0	500	3	464.8	93.0	1	478.2	95.6
Cobalt	0	500	-6	454.0	90.8	-7	465.0	93.0
Copper	0	500	9	500.8	100.2	7	518.1	103.6
Iron	200000	200000	188280	185840.0	92.9	193570	188340.0	94.2
Lead								
Magnesium	500000	500000	497780	497400.0	99.5	522400	513850.0	102.8
Manganese	0	500	13	480.3	96.1	13	489.2	97.8
Mercury								
Nickel	0	1000	11	949.5	95.0	2	965.5	96.6
Potassium	0	0	1927	-220.8		-281	401.4	
Selenium								
Silver	0	1000	-14	989.4	98.9	-12	1019.2	101.9
Sodium	0	0	48	41.1		34	20.6	
Thallium								
Vanadium	0	500	-4	462.6	92.5	-13	477.6	95.5
Zinc	0	1000	-21	974.0	97.4	-22	999.8	100.0

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MERA32S

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix: WATER Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2256.5000		275.8200		2000.00	99.0		P
Antimony	75-125	547.4200		41.0000	U	500.00	109.5		P
Arsenic	75-125	51.3700		8.7100	B	40.00	106.6		F
Barium	75-125	2039.7999		19.4210	B	2000.00	101.0		P
Beryllium	75-125	53.5360		2.0000	U	50.00	107.1		P
Cadmium	75-125	57.5530		5.0000	U	50.00	115.1		P
Calcium									NR
Chromium		1120.8000		818.7200		200.00	151.0		P
Cobalt	75-125	504.5900		11.0000	U	500.00	100.9		P
Copper	75-125	252.9600		19.0000	U	250.00	101.2		P
Iron	75-125	1115.3000		165.9800		1000.00	94.9		P
Lead	75-125	9.2180		2.0000	U	20.00	46.1	N	F
Magnesium									NR
Manganese	75-125	553.5200		46.9590		500.00	101.3		P
Mercury	75-125	1.1740		.2000	U	1.00	117.4		CV
Nickel	75-125	510.2900		29.0000	U	500.00	102.1		P
Potassium									NR
Selenium	75-125	5.1470		15.0000	U	10.00	51.5	N	F
Silver	75-125	50.0350		10.0000	U	50.00	100.1		P
Sodium									NR
Thallium	75-125	34.2800		2.0000	U	50.00	68.6	N	F
Vanadium	75-125	513.6000		13.0000	U	500.00	102.7		P
Zinc	75-125	513.5700		4.3497	B	500.00	101.8		P
Cyanide	75-125	96.9104		10.0000	U	100.00	96.9		AS

Comments:
FORM 5A.01-PG 1 (SR)LAB ID:491260

ICP METALS (SSR)LAB ID:491249
AA METALS (SSR)LAB ID:491249
MERCURY (SSR)LAB ID:491249
CYANIDE (SSR)LAB ID:491253

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6
DUPLICATES

EPA SAMPLE NO.

MERA32D

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

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

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

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	%RPD	Q	M
Aluminum	200.0	275.8200		195.3200	B	34.2		P
Antimony		41.0000	U	41.0000	U			P
Arsenic		8.7100	B	5.2370	B	49.8		F
Barium		19.4210	B	18.6490	B	4.1		P
Beryllium		2.0000	U	2.0000	U			P
Cadmium		5.0000	U	5.0000	U			P
Calcium		122700.0000		121150.0000		1.3		P
Chromium		818.7200		805.3900		1.6		P
Cobalt		11.0000	U	11.0000	U			P
Copper		19.0000	U	19.0000	U			P
Iron	100.0	165.9800		59.6080	B	94.3	*	P
Lead		2.0000	U	2.0000	U			F
Magnesium	5000.0	9969.5996		9675.2998		3.0		P
Manganese	15.0	46.9590		45.9970		2.1		P
Mercury		.2000	U	.2000	U			CV
Nickel		29.0000	U	29.0000	U			P
Potassium	5000.0	15673.0000		15392.0000		1.8		P
Selenium		15.0000	U	3.0000	U			F
Silver		10.0000	U	10.0000	U			P
Sodium	5000.0	23010.0000		22246.0000		3.4		P
Thallium		2.0000	U	2.0000	U			F
Vanadium		13.0000	U	13.0000	U			P
Zinc		4.3497	B	4.7219	B	8.2		P
Cyanide		10.0000	U	10.0000	U			AS

FORM VI - IN

3/90

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

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

Lab Code: COMPU Case No.: 19026 SAS No : SDG No.: MERA30

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.: MERA30

ICP ID Number: P1 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	84.0	P
Antimony	206.80		60	41.0	P
Arsenic			10		NR
Barium	493.40		200	3.0	P
Beryllium	313.00		5	2.0	P
Cadmium	228.80		5	5.0	P
Calcium	315.80		5000	843.0	P
Chromium	267.70		10	10.0	P
Cobalt	228.60		50	11.0	P
Copper	324.70		25	19.0	P
Iron	259.90		100	7.0	P
Lead			3		NR
Magnesium	279.00		5000	347.0	P
Manganese	257.60		15	3.0	P
Mercury			0.2		NR
Nickel	231.60		40	29.0	P
Potassium	766.40		5000	4178.0	P
Selenium			5		NR
Silver	328.00		10	10.0	P
Sodium	588.90		5000	309.0	P
Thallium			10		NR
Vanadium	292.40		50	13.0	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.: MERA30

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.: MERA30

ICP ID Number: Date: 4/15/92

Flame AA ID Number:

Furnace AA ID Number: A2

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	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 4

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.: MERA30

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. _____ (2) CERCLIS No. OH

Case No. 19026 Site Name Location: Satralloy

Contractor or EPA Lab: Compuchem Data User: PRC

No. of Samples: 4 Date Samples or Data Received: 5-28-92

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: 4 No. of samples received: 4

Received by: A.D. Harris Date: 5-28-92

Received by LSSS: DMM Date: 5-28-92

Review started: 6/1/92 Reviewer Signature: M. Fletcher

Total time spent on review: 4 Date review completed: 6/10/92 +0.5 hr

Copied by: Dorothy Anderson Date: 6-22-92

Mailed to user by: Lynette Burnett Date: 7-13-92

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. MERA30 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	5	5	✓	✓
3.	Inorganic Analysis Data Sheet (Form I-IN)	6	9	✓	✓
4.	Initial & Continuing Calibration Verification (Form IIA-IN)	10	13	✓	✓
5.	CRDL Standards For AA and ICP (Form IIB-IN)	14	15	✓	✓
6.	Blanks (Form III-IN)	16	18	✓	✓
7.	ICP Interference Check Sample (Form IV-IN)	19	19	✓	✓
8.	Spike Sample Recovery (Form VA-IN)	20	20	✓	✓
9.	Post Digest Spike Sample Recovery (Form VB-IN)	21	21	✓	✓
10.	Duplicates (Form VI-IN)	22	22	✓	✓
11.	Laboratory Control Sample (Form VII-IN)	23	23	✓	✓
12.	Standard Addition Results (Form VIII-IN)	24	24	✓	✓
13.	ICP Serial Dilutions (Form IX-IN)	25	25	✓	✓
14.	Instrument Detection Limits (Form X-IN)	26	30	✓	✓
15.	ICP Interelement Correction Factors (Form XIA-IN)	31	31	✓	✓
16.	ICP Interelement Correction Factors (Form XIB-IN)	32	34	✓	✓
17.	ICP Linear Ranges (Form XII-IN)	~~35~~ 35	35	✓	✓
18.	Preparation Log (Form XIII-IN)	36	39	✓	✓
19.	Analysis Run Log (Form XIV-IN)	40	57	✓	✓
20.	ICP Raw Data	58	155	✓	✓
21.	Furnace AA Raw Data	156	207	✓	✓
22.	Mercury Raw Data	208	212	✓	✓

RCS-26-92

RECEIVED
MAY 26 1992

Form DC-2 3/90

US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
23. Cyanide Raw Data	213	228	✓	✓
24. Preparation Logs Raw Data	229	231	✓	✓
25. Percent Solids Determination Log	N/A	—	✓	✓
26. Traffic Report	232	232	✓	✓
27. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments ____)	16000	16000		✓
Chain-of-Custody Records	16001	16003	✓	✓
Sample Tags	16016	16035	✓	✓
Sample Log-In Sheet (Lab & DCI)	16004	16004	✓	✓
SDC Cover Sheet	16005	16006	✓	✓
28. Misc. Shipping/Receiving Records (list all individual records)				
Telephone Logs	16007	16011		✓
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	16012	16013	✓	✓
Description				
31. Other Records (describe or list)				
Telephone Communication Log				
Sample Records	16014	16025	✓	✓

32. Comments:

Completed by (CLP Lab):

Rick Christenberry (Signature)	Rick Christenberry / Technical Review (Print Name & Title)	5-26-92 (Date)
Michael Waterman	Michael Waterman / Deliverable Clerk	5-26-92

Audited by (EPA):

Myra Fletcher (Signature)	Myra Fletcher / Scientist (Print Name & Title)	6/16/92 (Date)

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 19026 SDG No. MGEA 38 SDG Nos. To Follow _____ _____ _____ SAS No. _____ Date Recvd 5/28/92

EPA Lab ID: Compuchem

Lab Location: Durham, NC

Region: V Audit No.: _____

Re-Submitted CSF? Yes___ No___

Box No(s): _____

COMMENTS:

1+2 Custody Seals were present at time of arrival

reviewer located ORIGINAL Airbill, ITR/COC, Sample tags, DC1, ~~all copies~~ MF 6/16/92

in case 19026(1) SDG 38 Mera 13

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	MF 6/16/92		
6. Present?	✓	✓	
7. Complete?	✓		
8. Accurate?	✓		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	MF 6/16/92 ✓	✓	
10. Dated?	—		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	✓		
12. Dated?	✓		
AIRBILLS/AIRBILL STICKER	MF 6/16/92		
13. Present?		✓	
14. Signed?	✓		
15. Dated?	✓		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?	✓		—
17. Present?	✓	✓	—
ALL DOCUMENTS	MF 6/22/92	—	
18. Activities identified?	✓	—	
19. Legible?	✓		
20. Original?		✓	
20a. If "NO," does the copy indicate where original documents are located?		✓	

Received by: Adrenus D Harris Adrenus D Harris / Data Coord Date 5/28/92

Audited by: M. Fletcher Myra Fletcher / Scientist Date 6/16/92

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

DC-2 ___

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.: MERA30

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	19333.00	96.7	5000.0	5176.70	103.5	5319.90	106.4	P
Antimony	5000.0	4910.40	98.2	5000.0	5130.50	102.6	5283.90	105.7	P
Arsenic	50.4	52.38	103.9	30.0	33.05	110.2	30.59	102.0	F
Barium	20000.0	19089.00	95.4	5000.0	4991.40	99.8	5125.20	102.5	P
Beryllium	500.0	494.20	98.8	5000.0	5056.40	101.1	5219.80	104.4	P
Cadmium	500.0	543.67	108.7	5000.0	5027.20	100.5	5110.40	102.2	P
Calcium	50000.0	49918.00	99.8	50000.0	50444.00	100.9	51704.00	103.4	P
Chromium	2000.0	1926.80	96.3	5000.0	4972.70	99.5	5120.90	102.4	P
Cobalt	5000.0	4809.10	96.2	5000.0	4983.20	99.7	5131.50	102.6	P
Copper	2500.0	2422.50	96.9	5000.0	5004.30	100.1	5130.80	102.6	P
Iron	10000.0	9617.10	96.2	5000.0	4993.20	99.9	5140.50	102.8	P
Lead	32.0	33.56	104.9	30.0	31.01	103.4	30.95	103.2	F
Magnesium	50000.0	49868.00	99.7	50000.0	50338.00	100.7	51656.00	103.3	P
Manganese	5000.0	4788.50	95.8	5000.0	4984.70	99.7	5129.80	102.6	P
Mercury	5.0	4.80	96.0	3.0	3.27	109.0	3.18	106.0	CV
Nickel	5000.0	4846.60	96.9	5000.0	4967.40	99.3	5154.60	103.1	P
Potassium	50000.0	49027.00	98.1	50000.0	49669.00	99.3	49508.00	99.0	P
Selenium	50.3	49.74	98.9	30.0	32.20	107.3	30.33	101.1	F
Silver	500.0	487.50	97.5	500.0	498.54	99.7	514.84	103.0	P
Sodium	50000.0	49804.00	99.6	50000.0	50227.00	100.5	51531.00	103.1	P
Thallium	20.0	20.19	101.0	30.0	31.40	104.7	30.54	101.8	F
Vanadium	5000.0	4788.50	95.8	5000.0	4989.90	99.8	5138.50	102.8	P
Zinc	5000.0	4843.90	96.9	5000.0	5012.40	100.2	5150.00	103.0	P
Cyanide	94.0	101.24	107.7	100.0	98.81	98.8	101.18	101.2	AS

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

FORM II (PART 1) - IN

3/90

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.: MERA30

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	5356.00	107.1	5351.00	107.0	P
Antimony				5000.0	5293.80	105.9	5288.70	105.8	P
Arsenic				30.0	32.71	109.0	29.90	99.7	F
Barium				5000.0	5147.80	103.0	5159.40	103.2	P
Beryllium				5000.0	5176.20	103.5	5111.70	102.2	P
Cadmium				5000.0	5161.30	103.2	5155.20	103.1	P
Calcium				50000.0	51420.00	102.8	50868.00	101.7	P
Chromium				5000.0	5100.40	102.0	5051.50	101.0	P
Cobalt				5000.0	5106.10	102.1	5061.50	101.2	P
Copper				5000.0	5155.10	103.1	5169.00	103.4	P
Iron				5000.0	5120.50	102.4	5071.20	101.4	P
Lead				30.0	30.04	100.1	29.56	98.5	F
Magnesium				50000.0	51709.00	103.4	51782.00	103.6	P
Manganese				5000.0	5114.40	102.3	5071.90	101.4	P
Mercury									
Nickel				5000.0	5091.90	101.8	5007.10	100.1	P
Potassium				50000.0	47662.00	95.3	50692.00	101.4	P
Selenium				30.0	30.12	100.4	29.85	99.5	F
Silver				500.0	519.06	103.8	516.75	103.4	P
Sodium				50000.0	51740.00	103.5	51827.00	103.7	P
Thallium				30.0	29.43	98.1	29.68	98.9	F
Vanadium				5000.0	5130.40	102.6	5103.70	102.1	P
Zinc				5000.0	5147.50	103.0	5122.10	102.4	P
Cyanide				100.0	100.04	100.0	100.52	100.5	AS

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

FORM II (PART 1) - IN

3/90

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.: MERA30

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	5474.00	109.5	5184.50	103.7	P
Antimony				5000.0	5427.20	108.5	5145.90	102.9	P
Arsenic				30.0	29.69	99.0			F
Barium				5000.0	5293.50	105.9	5013.70	100.3	P
Beryllium				5000.0	5351.90	107.0	5016.20	100.3	P
Cadmium				5000.0	5292.00	105.8	5014.60	100.3	P
Calcium				50000.0	53201.00	106.4	49920.00	99.8	P
Chromium				5000.0	5263.10	105.3	4951.00	99.0	P
Cobalt				5000.0	5274.10	105.5	4962.30	99.2	P
Copper				5000.0	5297.20	105.9	5023.40	100.5	P
Iron				5000.0	5277.00	105.5	4960.80	99.2	P
Lead				30.0	30.38	101.3	30.84	102.8	F
Magnesium				50000.0	53415.00	106.8	50413.00	100.8	P
Manganese				5000.0	5284.40	105.7	4972.20	99.4	P
Mercury									
Nickel				5000.0	5301.70	106.0	4942.60	98.9	P
Potassium				50000.0	52218.00	104.4	51174.00	102.3	P
Selenium				30.0	29.65	98.8	31.68	105.6	F
Silver				500.0	525.66	105.1	498.72	99.7	P
Sodium				50000.0	53200.00	106.4	50365.00	100.7	P
Thallium				30.0	29.37	97.9	29.95	99.8	F
Vanadium				5000.0	5290.60	105.8	4991.50	99.8	P
Zinc				5000.0	5298.80	106.0	5001.50	100.0	P
Cyanide				100.0	99.87	99.9	101.10	101.1	AS

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

FORM II (PART 1) - IN

3/90

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.: MERA30

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	5292.20	105.8	5242.40	104.8	P
Antimony				5000.0	5250.40	105.0	5179.90	103.6	P
Arsenic									
Barium				5000.0	5078.60	101.6	5053.40	101.1	P
Beryllium				5000.0	5162.10	103.2	5085.60	101.7	P
Cadmium				5000.0	5086.40	101.7	5051.10	101.0	P
Calcium				50000.0	51350.00	102.7	50528.00	101.1	P
Chromium				5000.0	5078.90	101.6	5004.50	100.1	P
Cobalt				5000.0	5081.40	101.6	5009.40	100.2	P
Copper				5000.0	5113.50	102.3	5078.80	101.6	P
Iron				5000.0	5080.40	101.6	5014.70	100.3	P
Lead				30.0	29.08	96.9	30.40	101.3	F
Magnesium				50000.0	51430.00	102.9	50896.00	101.8	P
Manganese				5000.0	5084.90	101.7	5016.70	100.3	P
Mercury									
Nickel				5000.0	5063.30	101.3	5008.80	100.2	P
Potassium				50000.0	49629.00	99.3	49629.00	99.3	P
Selenium	50.3	50.60	100.6	30.0	30.97	103.2	29.87	99.6	F
Silver				500.0	514.29	102.9	498.57	99.7	P
Sodium				50000.0	51574.00	103.1	51044.00	102.1	P
Thallium				30.0	28.21	94.0	29.88	99.6	F
Vanadium				5000.0	5111.40	102.2	5045.20	100.9	P
Zinc				5000.0	5112.80	102.3	5045.50	100.9	P
Cyanide				100.0	100.06	100.1			AS

(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 AND ICP

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

AA CRDL Standard Source: EPA-CI

ICP CRDL Standard Source: EPA-CI

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	89.39	74.5	103.72	86.4
Arsenic	10.0	10.98	109.8					
Barium								
Beryllium				10.0	9.74	97.4	10.75	107.5
Cadmium				10.0	11.04	110.4	11.97	119.7
Calcium								
Chromium				20.0	16.56	82.8	22.01	110.0
Cobalt				100.0	97.06	97.1	110.32	110.3
Copper				50.0	48.52	97.0	50.25	100.5
Iron								
Lead	3.0	2.50	83.3					
Magnesium								
Manganese				30.0	27.79	92.6	32.20	107.3
Mercury								
Nickel				80.0	81.15	101.4	83.01	103.8
Potassium								
Selenium	5.0	4.50	90.0					
Silver				20.0	17.14	85.7	20.15	100.8
Sodium								
Thallium	10.0	9.48	94.8					
Vanadium				100.0	93.81	93.8	106.19	106.2
Zinc				40.0	38.34	95.9	42.79	107.0

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.: MERA30

AA CRDL Standard Source: EPA-CI

ICP CRDL Standard Source:

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								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium	5.0	3.02	60.4					
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM II (PART 2) - IN

3/90

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.: MERA30

Solid LCS Source:

Aqueous LCS Source: PE PURE

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	20000.0	19487.00	97.4						
Antimony	6000.0	5826.60	97.1						
Arsenic	32.0	31.84	99.5						
Barium	20000.0	18833.00	94.2						
Beryllium	500.0	466.01	93.2						
Cadmium	500.0	467.56	93.5						
Calcium	50000.0	46604.00	93.2						
Chromium	1000.0	909.32	90.9						
Cobalt	5000.0	4447.80	89.0						
Copper	2500.0	2401.70	96.1						
Iron	10000.0	9236.00	92.4						
Lead	32.0	32.98	103.1						
Magnesium	50000.0	48250.00	96.5						
Manganese	1500.0	1374.50	91.6						
Mercury									
Nickel	4000.0	3595.30	89.9						
Potassium	50000.0	48507.00	97.0						
Selenium	20.0	19.21	96.0						
Silver	1000.0	954.25	95.4						
Sodium	50000.0	48881.00	97.8						
Thallium	20.0	19.00	95.0						
Vanadium	5000.0	4627.10	92.5						
Zinc	2000.0	1858.90	92.9						
Cyanide									

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U.S. EPA - CLP

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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.: MERA30

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

FORM VIII - IN

U.S. EPA - CLP

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MERA^2L

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	275.82		420.00	U	100.0		P
Antimony	41.00	U	205.00	U			P
Arsenic							
Barium	19.42	B	21.76	B	12.0		P
Beryllium	2.00	U	10.00	U			P
Cadmium	5.00	U	25.00	U			P
Calcium	122700.00		132415.00		7.9		P
Chromium	818.72		903.20		10.3		P
Cobalt	11.00	U	55.00	U			P
Copper	19.00	U	95.00	U			P
Iron	165.98		183.15	B	10.3		P
Lead							
Magnesium	9969.60		10390.50	B	4.2		P
Manganese	46.96		50.79	B	8.2		P
Mercury							
Nickel	29.00	U	145.00	U			P
Potassium	15673.00		20890.00	U	100.0		P
Selenium							
Silver	10.00	U	50.00	U			P
Sodium	23010.00		24865.00	B	8.1		P
Thallium							
Vanadium	13.00	U	65.00	U			P
Zinc	4.35	B	15.00	U	100.0		P

FORM IX - IN

3/90

U.S. EPA - CLP

11A
ICP Interelement Correction Factors (Annually)

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: P1 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	.0000769	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	.0135579
Calcium	315.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	.0000769	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	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	0.0000000	0.0000000	0.0000000
Manganese	257.60	.0000135	0.0000000	-.0000440	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	.0000700	0.0000000	0.0000000
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	.0000500	0.0000000	0.0000000
Zinc	213.80	-.0000210	0.0000000	.0000830	.0000404	0.0000000

Comments:
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U.S. EPA - CLP

11B
ICP Interelement Correction Factors (Annually)

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: P1 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: BA	BE	CD	CO	CR
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	0.0000000	0.0000000	.0133500
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	.0039300	0.0000000	.0000524	0.0000000
Calcium	315.80	0.0000000	0.0000000	0.0000000	.0037534	-.0003550
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.60	.0006901	0.0000000	.0007651	0.0000000	.0003392
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	.0000320
Iron	259.90	0.0000000	0.0000000	0.0000000	0.0000000	.0002985
Lead						
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	-.0006920
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-.0002960	.0000567
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.00	0.0000000	-.0001050	0.0000000	.0000200	.0000296
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	.0001500
Zinc	213.80	0.0000000	0.0000000	0.0000000	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.: MERA30

ICP ID Number: P1 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: CU	MN	NI	PB	V
Aluminum	308.20	0.0000000	.0022874	0.0000000	0.0000000	.0012600
Antimony	206.80	-.0000970	0.0000000	-.0055700	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	-.0071000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	.0032700
Cadmium	228.80	0.0000000	0.0000000	-.0009150	0.0000000	.0001700
Calcium	315.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	0.0000000	0.0000000	.0002900
Cobalt	228.60	0.0000000	0.0000000	.0003772	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	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	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.00	0.0000000	0.0000000	0.0000000	.0000115	-.0005390
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	.0022900	0.0000000	.0036800	0.0000000	-.0003000

Comments:
FORM 11.01 - PAGE 3

U.S. EPA - CLP

11B
ICP Interelement Correction Factors (Annually)

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

ICP ID Number: P1 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: ZN				
Aluminum	308.20	0.0000000				
Antimony	206.80	-.0011430				
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.: MERA30

ICP ID Number: P1 Date: 4/15/92

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	7.00	520000.0	
Antimony	7.00	250000.0	
Arsenic			NR
Barium	7.00	150000.0	
Beryllium	7.00	150000.0	
Cadmium	7.00	250000.0	
Calcium	7.00	750000.0	
Chromium	7.00	250000.0	
Cobalt	7.00	150000.0	
Copper	7.00	150000.0	
Iron	7.00	550000.0	
Lead			NR
Magnesium	7.00	1500000.0	
Manganese	7.00	150000.0	
Mercury			NR
Nickel	7.00	150000.0	
Potassium	7.00	1300000.0	
Selenium			NR
Silver	7.00	40000.0	
Sodium	7.00	550000.0	
Thallium			NR
Vanadium	7.00	50000.0	
Zinc	7.00	250000.0	

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.: MERA30

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	5/08/92		100
MERA30	5/08/92		100
MERA31	5/08/92		100
MERA32	5/08/92		100
MERA32D	5/08/92		100
MERA32S	5/08/92		100
MERA33	5/08/92		100
PBW	5/08/92		100

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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.: MERA30

Method: F

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	5/08/92		100
MERA30	5/08/92		100
MERA31	5/08/92		100
MERA32	5/08/92		100
MERA32D	5/08/92		100
MERA32S	5/08/92		100
MERA33	5/08/92		100
PBW	5/08/92		100

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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.: MERA30

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MERA30	5/08/92		100
MERA31	5/08/92		100
MERA32	5/08/92		100
MERA32D	5/08/92		100
MERA32S	5/08/92		100
MERA33	5/08/92		100
PBW	5/08/92		100

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U.S. EPA - CLP

13
PREPARATION LOG

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

Lab Code: COMPU Case No.: 19026 SAS No: SDG No.: MERA30

Method: AS

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
MERA30	5/05/92		250
MERA31	5/05/92		250
MERA32	5/05/92		250
MERA32D	5/05/92		250
MERA32S	5/05/92		250
MERA33	5/05/92		250
PBW	5/05/92		250

FORM XIII - 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.: MERA30

Instrument ID Number: P1 Method: P

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	2232		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
S	1.00	2238		X					X		X		X						X			X				X	
S	1.00	2244			X																						
S	1.00	2250					X	X				X		X			X								X		
S	1.00	2257								X						X				X			X				
ICV	1.00	2258		X	X		X	X	X		X	X	X	X			X		X			X			X	X	
ICV	1.00	2304								X						X				X			X				
ICV	1.00	2311																									
ICB	1.00	2317		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSA	1.00	2323		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	2330		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CRI	1.00	2336			X			X	X		X	X	X				X		X			X			X	X	
CCV	1.00	2342		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	2350		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	2359																									
ZZZZZZ	1.00	5																									
PBW	1.00	12		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
LCSW	1.00	18		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	25																									
ZZZZZZ	1.00	31																									
ZZZZZZ	1.00	38																									
ZZZZZZ	1.00	44																									
MERA32	1.00	50		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA32L	5.00	58		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	104		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	112		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA32D	1.00	118		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA32S	1.00	128		X	X		X	X	X		X	X	X	X			X		X			X			X	X	
MERA30	1.00	134		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA31	1.00	141		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
MERA33	1.00	147		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	154																									

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 30

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.: MERA30

Instrument ID Number: P1 Method: P

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	201																									
ZZZZZZ	1.00	207																									
ZZZZZZ	1.00	213																									
CCV	1.00	221		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	229		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	236																									
ZZZZZZ	1.00	243																									
ZZZZZZ	1.00	249																									
ZZZZZZ	1.00	256																									
ZZZZZZ	1.00	303																									
ZZZZZZ	1.00	309																									
ZZZZZZ	1.00	316																									
ZZZZZZ	1.00	322																									
ZZZZZZ	1.00	331																									
CCV	1.00	337		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	345		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	354																									
ZZZZZZ	1.00	400																									
ZZZZZZ	1.00	406																									
ZZZZZZ	1.00	413																									
ZZZZZZ	1.00	419																									
ZZZZZZ	1.00	425																									
ZZZZZZ	1.00	432																									
ZZZZZZ	1.00	439																									
ZZZZZZ	1.00	445																									
ZZZZZZ	1.00	451																									
CCV	1.00	458		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	506		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	513																									
ZZZZZZ	1.00	519																									
ZZZZZZ	1.00	525																									
ZZZZZZ	1.00	533																									

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U.S. EPA - CLP

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Instrument ID Number: P1 Method: P

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	540																									
ZZZZZZ	1.00	546																									
ZZZZZZ	1.00	553																									
ZZZZZZ	1.00	559																									
ZZZZZZ	1.00	605																									
CCV	1.00	612		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	619		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	626																									
ZZZZZZ	1.00	632																									
ZZZZZZ	1.00	638																									
ZZZZZZ	1.00	645																									
ZZZZZZ	1.00	651																									
ZZZZZZ	1.00	657																									
ZZZZZZ	1.00	704																									
ZZZZZZ	1.00	710																									
ZZZZZZ	1.00	716																									
ZZZZZZ	1.00	723																									
CCV	1.00	729		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	736		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ZZZZZZ	1.00	746																									
ZZZZZZ	1.00	752																									
ZZZZZZ	1.00	759																									
ZZZZZZ	1.00	805																									
ZZZZZZ	1.00	812																									
CRI	1.00	818			X			X	X		X	X	X				X		X			X			X	X	
ICSA	1.00	824		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
ICSAB	1.00	831		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCV	1.00	839		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	
CCB	1.00	847		X	X		X	X	X	X	X	X	X	X		X	X		X	X		X	X		X	X	

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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.: MERA30

Instrument ID Number: A1 Method: F

Start Date: 5/11/92 End Date: 5/11/92

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	930													X												
S30	1.00	934													X												
S3	1.00	938													X												
S60	1.00	942													X												
ICV	1.00	947													X												
ICB	1.00	952													X												
CRA	1.00	956													X												
CCV	1.00	1000													X												
CCB	1.00	1004													X												
PBW	1.00	1008													X												
PBWA	1.00	1012	105.7												X												
LCSW	1.00	1017													X												
LCSWA	1.00	1021	101.4												X												
MERA32	1.00	1025													X												
MERA32A	1.00	1029	53.4												X												
MERA32D	1.00	1033													X												
MERA32DA	1.00	1038	47.7												X												
MERA32S	1.00	1042													X												
ZZZZZZ	1.00	1049																									
CCV	1.00	1054													X												
CCB	1.00	1058													X												
MERA30	1.00	1102													X												
MERA30A	1.00	1107	39.6												X												
MERA31	1.00	1111													X												
MERA31A	1.00	1115	43.0												X												
MERA33	1.00	1119													X												
MERA33A	1.00	1123	95.8												X												
ZZZZZZ	1.00	1127																									
ZZZZZZ	1.00	1132																									
CCV	1.00	1136													X												
CCB	1.00	1140													X												
ZZZZZZ	1.00	1146																									

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U.S. EPA - CLP

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ANALYSIS RUN LOG

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Instrument ID Number: A1 Method: F

Start Date: 5/11/92 End Date: 5/11/92

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	1151																									
ZZZZZZ	1.00	1155																									
ZZZZZZ	1.00	1159																									
ZZZZZZ	1.00	1206																									
ZZZZZZ	1.00	1210																									
ZZZZZZ	1.00	1309																									
ZZZZZZ	1.00	1313																									
ZZZZZZ	1.00	1318																									
ZZZZZZ	1.00	1324																									
CCV	1.00	1329													X												
CCB	1.00	1333													X												
ZZZZZZ	1.00	1337																									
ZZZZZZ	1.00	1341																									
ZZZZZZ	1.00	1345																									
ZZZZZZ	1.00	1350																									
ZZZZZZ	1.00	1354																									
ZZZZZZ	1.00	1358																									
ZZZZZZ	1.00	1402																									
ZZZZZZ	1.00	1406																									
ZZZZZZ	1.00	1411																									
CCV	1.00	1416													X												
CCB	1.00	1422													X												
ZZZZZZ	1.00	1426																									
ZZZZZZ	1.00	1430																									
ZZZZZZ	1.00	1435																									
ZZZZZZ	1.00	1439																									
ZZZZZZ	1.00	1443																									
ZZZZZZ	1.00	1447																									
ZZZZZZ	1.00	1451																									
ZZZZZZ	1.00	1455																									
ZZZZZZ	1.00	1502																									
CCV	1.00	1507													X												

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INORGANIC CASE

U.S. EPA - CLP

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Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Instrument ID Number: A1 Method: F

Start Date: 5/11/92 End Date: 5/11/92

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	1511													X												
ZZZZZZ	1.00	1515																									
ZZZZZZ	1.00	1519																									
ZZZZZZ	1.00	1523																									
ZZZZZZ	1.00	1528																									
ZZZZZZ	1.00	1532																									
ZZZZZZ	1.00	1536																									
ZZZZZZ	1.00	1540																									
ZZZZZZ	1.00	1544																									
ZZZZZZ	1.00	1550																									
CCV	1.00	1555													X												
CCB	1.00	1559													X												
ZZZZZZ	1.00	1604																									
ZZZZZZ	1.00	1608																									
ZZZZZZ	1.00	1612																									
ZZZZZZ	1.00	1617																									
ZZZZZZ	1.00	1621																									
ZZZZZZ	1.00	1625																									
ZZZZZZ	1.00	1632																									
ZZZZZZ	1.00	1637																									
ZZZZZZ	1.00	1641																									
ZZZZZZ	1.00	1647																									
CCV	1.00	1651													X												
CCB	1.00	1655													X												

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U.S. EPA - CLP

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Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

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Start Date: 5/11/92 End Date: 5/11/92

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				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	930		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
S30	1.00	934		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
S10	1.00	938		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
S60	1.00	942		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ICV	1.00	947		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ICB	1.00	952		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CRA	1.00	956		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCV	1.00	1000		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCB	1.00	1004		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
PBW	1.00	1008		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
PBWA	1.00	1012	96.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
LCSW	1.00	1017		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
LCSWA	1.00	1021	98.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA32	1.00	1025		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA32A	1.00	1029	68.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA32D	1.00	1033		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA32DA	1.00	1038	66.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA32S	1.00	1042		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ZZZZZZ	1.00	1049		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV	1.00	1054		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCB	1.00	1058		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA30	1.00	1102		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA30A	1.00	1107	62.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA31	1.00	1111		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA31A	1.00	1115	63.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA33	1.00	1119		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MERA33A	1.00	1123	89.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ZZZZZZ	1.00	1127		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00	1132		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV	1.00	1136		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
CCB	1.00	1140		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X	—	—	—
ZZZZZZ	1.00	1146		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 30

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.: MERA30

Instrument ID Number: A1 Method: F

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EPA Sample No.	D/F	Time	% R	Analytes																								
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ZZZZZZ	1.00	1151																									
ZZZZZZ	1.00	1155																									
ZZZZZZ	1.00	1159																									
ZZZZZZ	1.00	1206																									
ZZZZZZ	1.00	1210																									
ZZZZZZ	1.00	1309																									
ZZZZZZ	1.00	1313																									
ZZZZZZ	1.00	1318																									
ZZZZZZ	1.00	1324																									
CCV	1.00	1329																						X			
CCB	1.00	1333																						X			
ZZZZZZ	1.00	1337																									
ZZZZZZ	1.00	1341																									
ZZZZZZ	1.00	1345																									
ZZZZZZ	1.00	1350																									
ZZZZZZ	1.00	1354																									
ZZZZZZ	1.00	1358																									
ZZZZZZ	1.00	1402																									
ZZZZZZ	1.00	1406																									
ZZZZZZ	1.00	1411																									
CCV	1.00	1416																						X			
CCB	1.00	1422																						X			
ZZZZZZ	1.00	1426																									
ZZZZZZ	1.00	1430																									
ZZZZZZ	1.00	1435																									
ZZZZZZ	1.00	1439																									
ZZZZZZ	1.00	1443																									
ZZZZZZ	1.00	1447																									
ZZZZZZ	1.00	1451																									
ZZZZZZ	1.00	1455																									
ZZZZZZ	1.00	1502																									
CCV	1.00	1507																						X			

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Start Date: 5/11/92 End Date: 5/11/92

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	1511																						X			
ZZZZZZ	1.00	1515																									
ZZZZZZ	1.00	1519																									
ZZZZZZ	1.00	1523																									
ZZZZZZ	1.00	1528																									
ZZZZZZ	1.00	1532																									
ZZZZZZ	1.00	1536																									
ZZZZZZ	1.00	1540																									
ZZZZZZ	1.00	1544																									
ZZZZZZ	1.00	1550																									
CCV	1.00	1555																						X			
CCB	1.00	1559																						X			
ZZZZZZ	1.00	1604																									
ZZZZZZ	1.00	1608																									
ZZZZZZ	1.00	1612																									
ZZZZZZ	1.00	1617																									
ZZZZZZ	1.00	1621																									
ZZZZZZ	1.00	1625																									
ZZZZZZ	1.00	1632																									
ZZZZZZ	1.00	1637																									
ZZZZZZ	1.00	1641																									
ZZZZZZ	1.00	1647																									
CCV	1.00	1651																						X			
CCB	1.00	1655																						X			

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.: MERA30

Instrument ID Number: A6 Method: F

Start Date: 5/11/92 End Date: 5/11/92

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	943		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S30	1.00	948		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00	953		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S60	1.00	958		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV	2.00	1008		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB	1.00	1013		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00	1018		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1023		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1027		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
STB	1.00	1034		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV	1.00	1042		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1046		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBW	1.00	1051		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBWA	1.00	1056	98.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSW	1.00	1101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSWA	1.00	1106	92.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MERA32	1.00	1111		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA32A	1.00	1116	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA32D	1.00	1121		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MERA32DA	1.00	1126	52.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MERA32S	1.00	1131		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	1139		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1144		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB	1.00	1149		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MERA30	1.00	1201		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA30A	1.00	1206	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA31	1.00	1211		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA31A	1.00	1216	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERA33	1.00	1221		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
MERA33A	1.00	1226	103.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00	1231		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1236		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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.: MERA30

Instrument ID Number: A6 Method: F

Start Date: 5/11/92 End Date: 5/11/92

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	1241																									
ZZZZZZ	1.00	1245																									
CCV	1.00	1250																			X						
CCB	1.00	1255																			X						
ZZZZZZ	1.00	1342																									
ZZZZZZ	1.00	1347																									
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	1434																									
CCV	1.00	1439																			X						
CCB	1.00	1444																			X						
ZZZZZZ	1.00	1449																									
ZZZZZZ	1.00	1454																									
ZZZZZZ	1.00	1459																									
ZZZZZZ	1.00	1504																									
ZZZZZZ	1.00	1509																									
ZZZZZZ	1.00	1514																									
ZZZZZZ	1.00	1519																									
ZZZZZZ	1.00	1524																									
ZZZZZZ	1.00	1529																									
CCV	1.00	1535																			X						
CCB	1.00	1544																			X						

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 30

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.: MERA30

Instrument ID Number: A6 Method: F

Start Date: 5/11/92 End Date: 5/11/92

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	943				X																					
S30	1.00	948				X																					
S10	1.00	953				X																					
S60	1.00	958				X																					
ICV	2.00	1008				X																					
ICB	1.00	1013				X																					
CRA	1.00	1018				X																					
CCV	1.00	1023				X																					
CCB	1.00	1027				X																					
STB	1.00	1034				X																					
CCV	1.00	1042				X																					
CCB	1.00	1046				X																					
PBW	1.00	1051				X																					
PBWA	1.00	1056	107.5			X																					
LCSW	1.00	1101				X																					
LCSWA	1.00	1106	87.9			X																					
MERA32	1.00	1111				X																					
MERA32A	1.00	1116	122.9			X																					
MERA32D	1.00	1121				X																					
MERA32DA	1.00	1126	117.6			X																					
MERA32S	1.00	1131				X																					
ZZZZZZ	1.00	1139																									
CCV	1.00	1144				X																					
CCB	1.00	1149				X																					
MERA30	1.00	1201				X																					
MERA30A	1.00	1206	119.0			X																					
MERA31	1.00	1211				X																					
MERA31A	1.00	1216	122.0			X																					
MERA33	1.00	1221				X																					
MERA33A	1.00	1226	105.6			X																					
ZZZZZZ	1.00	1231																									
ZZZZZZ	1.00	1236																									

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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.: MERA30

Instrument ID Number: A6 Method: F

Start Date: 5/11/92 End Date: 5/11/92

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	1241																									
ZZZZZZ	1.00	1245																									
CCV	1.00	1250				X																					
CCB	1.00	1255				X																					
ZZZZZZ	1.00	1342																									
ZZZZZZ	1.00	1347																									
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	1434																									
CCV	1.00	1439				X																					
CCB	1.00	1444				X																					
ZZZZZZ	1.00	1449																									
ZZZZZZ	1.00	1454																									
ZZZZZZ	1.00	1459																									
ZZZZZZ	1.00	1504																									
ZZZZZZ	1.00	1509																									
ZZZZZZ	1.00	1514																									
ZZZZZZ	1.00	1519																									
ZZZZZZ	1.00	1524																									
ZZZZZZ	1.00	1529																									
CCV	1.00	1535																									
CCB	1.00	1544																									

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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.: MERA30

Instrument ID Number: A2 Method: F

Start Date: 5/12/92 End Date: 5/12/92

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	–	–	–	–	–	–
S30	1.00	1109		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
S5	1.00	1114		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
S60	1.00	1119		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
ICV	2.00	1125		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
ICB	1.00	1130		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CRA	1.00	1135		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCV	1.00	1140		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCB	1.00	1145		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
MERA32	5.00	1155		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
MERA32A	5.00	1200	123.2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
MERA30	5.00	1205		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
MERA30A	5.00	1209	101.6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
MERA31	5.00	1214		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
MERA31A	5.00	1219	92.2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
ZZZZZZ	1.00	1225		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1229		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV	1.00	1234		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCB	1.00	1239		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	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.: MERA30

Instrument ID Number: V2 Method: CV

Start Date: 5/11/92 End Date: 5/11/92

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	2046																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									
PBW	1.00																	X									
ZZZZZZ	1.00																										
MERA32	1.00																	X									
MERA32S	1.00																	X									
MERA32D	1.00																	X									
MERA30	1.00																	X									
MERA31	1.00																	X									
MERA33	1.00																	X									
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																	X									
CCB	1.00	2136																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.: MERA30

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		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
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			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CCV	1.00			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X
CCB	1.00			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	X
ZZZZZZ	1.00			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ZZZZZZ	1.00			—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 30

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.: MERA30

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																										
PBW	1.00																										X
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00																										X
MERA32	1.00																										X
MERA32D	1.00																										X
MERA32S	1.00																										X
MERA30	1.00																										X
MERA31	1.00																										X
MERA33	1.00																										X
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																										
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ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
ZZZZZZ	1.00																										
CCV	1.00																										X
CCB	1.00																										X
ZZZZZZ	1.00																										

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 30

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.: MERA30

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
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

FORM XIV - IN 3/90

INORGANIC CASE

19026 MERA 30

ICAP Runlog

Page 1 of 2

Method (circle one): Originals in MERA30

Date 5-21-92

CLP 200.7
SW-846 6010

Operator [illegible]
Case Name: MERA30 SD0209 SD0283
File Name: L2520W

P192052233

#	Sample ID	Comments	Time	#	Sample ID	Comments	Time
	ICV			1	491250	DUP	
	ICB			2	491249	SPK	
1	ICSA			3	491248		
2	ICSAB			4	491252		
3	CRI			5	491263		
4				6	491260 P	Cr @1600	
5				7	CRI		
6				8	ICSA		
7				9	ICSAB		
8				10		5-21-92	
9					CCV		
10		5-21-92			CCB		
	CCV					5-21-92	
	CCB			1	491694		
		5-21-92		2	491696	DUP	
1	491939	PBS		3	491695	SPK	
2	493391	PBS		4	491698		
3	492540	PBW		5	491703		
4	491251	LCSW		6	491704		
5	491697	LCSS		7	491705		
6	491697 1:5	↓		8	491706		
7	491766			9	491698 1:5	S	
8	491766 1:5	↓		10		5-21-92	
9	491260				CCV		
10	491260 1:5	S			CCB		
	CCV						
	CCB						
	#Samples				Instrument Hrs.		
	#Dilutions				QC Samples	5-21-92	

Reviewed By [illegible] Date 5/21/92

INORGANIC CASE

19026 MERA 30

COMPUCHEM LABS LOGBOOK 1H 2

ICAP Runlog

Page 2 of 2
Date 5-21-92

Method (circle one):

CLP 200.7
SW-846 6010

Operator
Case Name: SAME
File Name: ↓

#	Sample ID	Comments	Time	#	Sample ID	Comments	Time
	ICV			1	491773		
	ICB 5-21-92			2	491775		
1	491707			3	491776		
2	491708			4	491778		
3	491709			5	491779		
4	491710			6	491781		
5	491711			7	491782		
6	491712			8	491783		
7	491713			9	491784		
8	491714			10	491785		
9	491715				CCV		
10	491716				CCB		
	CCV				5-12-92		
	CCB			1	491786		
	5-21-92			2	491788		
1	ICSA			3	491789		
2	ICSAB			4	491790		
3	CRI			5	491763 P	Sb @ 120	
4	491763			6	CRI		
5	491765	DUP		7	ICSA		
6	491764	SPK		8	ICSAB		
7	491771			9			
8	491772			10	5-21-92		
9	491771 1:5	S			CCV		
10	5-21-92				CCB		
	CCV						
	CCB				5-21-92		

#Samples	37	Instrument Hrs.	10
#Dilutions	0	QC Samples	12

INORGANIC CASE

Reviewed By J. Medlin Date 5/21/92

19026 MERA 30

CHEMICHEM LABS LOGBOOK 1H 2

059

Standard Preparations for JA 61E/ATOMCOM 1100

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 LA Date 5-20-92

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 LA Date 5-20-92

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 LA Date 5-21-92

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 LA Date 5-20-92

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 LA Date 5-20-92

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 LA Date 5-20-92

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 CEM Date 5-13-92

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. 20
Place solution in an acid washed teflon bottle. Chemist [illegible] Date 5-15-92

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 [illegible] Date 5-20-92

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 [illegible] Date 5-16-92

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 [illegible] Date 5-16-92

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 5-16-92

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: CLP1100 Standard: BLANK

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.00300	-.00271	-.00100	.00002	.00062	.00029	.01586
SDev	.00145	.00113	.00189	.00008	.00008	.00029	.00014
%RSD	48.328	-41.775	-188.98	506.31	13.323	100.00	.90090
#1	.00429	-.00186	-.00029	.00006	.00057	.00029	.01600
#2	.00143	-.00229	-.00314	.00006	.00057	.00057	.01586
#3	.00329	-.00400	.00043	-.00008	.00071	.00000	.01571

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Avge	.00062	.00043	.00010	.00086	.00290	-.00235	.00000
SDev	.00054	.00062	.00017	.00029	.00172	.00303	.00000
%RSD	87.368	145.30	173.21	33.333	59.289	-129.20	.00000
#1	.00100	-.00029	.00029	.00086	.00471	.00111	.00000
#2	.00086	.00071	.00000	.00057	.00129	-.00360	.00000
#3	.00000	.00086	.00000	.00114	.00271	-.00456	.00000

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	.00128	.00633	-.03543	.00338	.05367	.00119	.00048
SDev	.00596	.00189	.00853	.00036	.00268	.00036	.00022
%RSD	466.47	29.782	-24.086	10.634	4.9966	30.199	45.826
#1	-.00444	.00429	-.04514	.00371	.05657	.00114	.00043
#2	.00082	.00800	-.03200	.00300	.05129	.00086	.00029
#3	.00745	.00671	-.02914	.00343	.05314	.00157	.00071

Elem	Tl1908
Avge	-.00419
SDev	.01145
%RSD	-273.27
#1	.00886
#2	-.01257
#3	-.00886

Method: CLP1100 Standard: XCL11

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.61205	.01348	.00876	.00000	.00062	1.9708	.01252
SDev	.00033	.00270	.00322	.00000	.00008	.0021	.00122
%RSD	.05390	20.039	36.688	.00000	13.323	.10905	9.7014
#1	.61186	.01043	.00643	.00000	.00071	1.9733	.01129
#2	.61243	.01443	.01243	.00000	.00057	1.9694	.01257
#3	.61186	.01557	.00743	.00000	.00057	1.9697	.01371

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Avge	4.5373	.01176	.27490	.00186	2.3960	-.00994	.00000
SDev	.0052	.00116	.00036	.00000	.0050	.00646	.00000
%RSD	.11549	9.8173	.13078	.00000	.20743	-64.927	.00000
#1	4.5391	.01043	.27486	.00186	2.3903	-.01197	.00000
#2	4.5414	.01243	.27529	.00186	2.3980	-.01514	.00000
#3	4.5314	.01243	.27457	.00186	2.3996	-.00272	.00000

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	5.7675	.00381	3.9583	.27367	.05262	-.00052	6.4573
SDev	.0237	.00729	.0191	.00071	.00214	.00198	.0041
%RSD	.41147	191.30	.48243	.25750	4.0664	-378.23	.06308
#1	5.7816	.00500	3.9486	.27286	.05086	.00000	6.4574
#2	5.7808	-.00400	3.9460	.27414	.05500	-.00271	6.4613
#3	5.7401	.01043	3.9803	.27400	.05200	.00114	6.4531

Elem	Tl1908
Avge	2.1186
SDev	.0518
%RSD	2.4456
#1	2.0734
#2	2.1751
#3	2.1071

Method: CLP1100 Standard: PLSB2

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.00286	1.7180	-.00152	-.00005	.00057	.00024	.01410
SDev	.00025	.0037	.00082	.00012	.00000	.00017	.00064
%RSD	8.6603	.21572	-54.127	-229.13	.00000	69.282	4.5702
#1	.00271	1.7221	-.00200	-.00008	.00057	.00014	.01471
#2	.00271	1.7169	-.00200	-.00016	.00057	.00014	.01343
#3	.00314	1.7150	-.00057	.00008	.00057	.00043	.01414

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Avge	.00024	.00038	.00000	.00119	-.00157	-.00663	.00000
SDev	.00079	.00084	.00000	.00030	.00080	.00090	.00000
%RSD	330.45	219.73	.00000	24.980	-50.616	-13.605	.00000
#1	.00029	.00071	.00000	.00086	-.00086	-.00686	.00000
#2	-.00057	-.00057	.00000	.00129	-.00243	-.00739	.00000
#3	.00100	.00100	.00000	.00143	-.00143	-.00563	.00000

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	.00229	.00824	-.03448	.00376	.05210	.00038	.00010
SDev	.00163	.00382	.00713	.00054	.00195	.00066	.00022
%RSD	71.286	46.412	-20.674	14.377	3.7332	173.21	229.13
#1	.00062	.00400	-.03171	.00400	.05057	.00114	.00029
#2	.00387	.00929	-.04257	.00314	.05143	.00000	-.00014
#3	.00237	.01143	-.02914	.00414	.05429	.00000	.00014

Elem	Tl1908
Avge	-.00333
SDev	.00539
%RSD	-161.80
#1	.00257
#2	-.00457
#3	-.00800

Method: CLP1100 Standard: XCL2

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.02281	.00938	1.4604	2.1492	3.6606	.04057	.02333
SDev	.00115	.00046	.0056	.0086	.0042	.00043	.00017
%RSD	5.0235	4.8953	.38255	.40241	.11426	1.0563	.70696
#1	.02271	.00957	1.4609	2.1569	3.6561	.04014	.02343
#2	.02400	.00971	1.4657	2.1508	3.6644	.04057	.02314
#3	.02171	.00886	1.4546	2.1399	3.6613	.04100	.02343

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Avge	-.01029	6.5417	.00029	4.7908	-.00810	-.00009	2.4845
SDev	.00114	.0109	.00000	.0094	.00374	.00237	.0046
%RSD	-11.111	.16733	.00000	.19602	-46.164	-2571.1	.18448
#1	-.01143	6.5294	.00029	4.7823	-.01157	-.00052	2.4801
#2	-.00914	6.5504	.00029	4.8009	-.00857	.00247	2.4893
#3	-.01029	6.5453	.00029	4.7891	-.00414	-.00222	2.4841

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	-.00312	.00681	-.15219	.00067	.05424	6.5037	-.00238
SDev	.00156	.00339	.01021	.00022	.00143	.0242	.00017
%RSD	-50.050	49.837	-6.7116	32.733	2.6383	.37271	-6.9282
#1	-.00339	.00514	-.14486	.00071	.05414	6.5200	-.00229
#2	-.00144	.01071	-.14786	.00086	.05286	6.5153	-.00229
#3	-.00453	.00457	-.16386	.00043	.05571	6.4759	-.00257

Elem	Tl1908
Avge	-.00595
SDev	.00708
%RSD	-118.95
#1	-.01157
#2	.00200
#3	-.00829

Method: CLP1100 Standard: XCL3A

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	Cd2288	Ca3158
Avge	.00390	.00200	-.00071	.00031	.00076	.00005	11.927
SDev	.00143	.00253	.00145	.00015	.00008	.00017	.070
%RSD	36.646	126.37	-202.98	48.058	10.825	346.41	.58839
#1	.00529	.00429	-.00043	.00043	.00071	.00014	11.952
#2	.00400	.00243	-.00229	.00035	.00071	.00014	11.981
#3	.00243	-.00071	.00057	.00014	.00086	-.00014	11.847

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Avge	.00062	.00095	.00010	.00281	.00290	7.1110	.00138
SDev	.00095	.00066	.00017	.00109	.00130	.0415	.00041
%RSD	153.65	69.282	173.21	38.835	44.625	.58373	29.863
#1	.00143	.00171	.00029	.00400	.00343	7.0789	.00186
#2	.00086	.00057	.00000	.00257	.00386	7.1579	.00114
#3	-.00043	.00057	.00000	.00186	.00143	7.0963	.00114

Elem	Ni2316	K_7664	Se1960	Ag3280	Na5889	V_2924	Zn2138
Avge	.00419	.24362	-.02629	.00443	7.4670	.00095	.00329
SDev	.00281	.00541	.01539	.00122	.0181	.00116	.00029
%RSD	66.988	2.2224	-58.544	27.561	.24197	121.24	8.6957
#1	.00339	.24086	-.02057	.00457	7.4561	.00229	.00357
#2	.00187	.24014	-.01457	.00557	7.4879	.00029	.00300
#3	.00731	.24986	-.04371	.00314	7.4570	.00029	.00329

Elem	Tl1908
Avge	.00129
SDev	.00336
%RSD	261.29
#1	-.00214
#2	.00457
#3	.00143

Method: CLP1100 Sample Name: ICV ICV19 Operator:
Run Time: 05/20/92 22:58:31
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	19333.	4910.4	19145.	19089.	494.20	543.67	-10.970
SDev	231.	49.8	220.	218.	5.16	9.93	2.891
%RSD	1.1960	1.0144	1.1498	1.1401	1.0447	1.8263	-26.358
#1	19086.	4853.0	18894.	18851.	488.39	533.28	-13.553
#2	19369.	4942.2	19234.	19135.	495.96	544.68	-7.8463
#3	19544.	4936.1	19306.	19279.	498.25	Q553.06	-11.510

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1926.8	4809.1	2422.5	9617.1	4823.1	33.384	4788.5
SDev	22.0	52.5	30.5	106.6	51.0	30.658	53.2
%RSD	1.1423	1.0921	1.2574	1.1088	1.0565	91.834	1.1105
#1	1901.7	4749.3	2387.8	9497.7	4764.3	-1.4575	4728.7
#2	1935.7	4829.9	2434.6	9650.7	4850.8	56.233	4806.3
#3	1942.9	4848.0	2445.0	9702.9	4854.2	45.377	4830.4

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	4846.6	80.273	19261.	487.50	12.847	4788.5	4843.9
SDev	64.7	1686.1	306.	6.33	33.947	51.4	51.4
%RSD	1.3353	2100.4	1.5868	1.2978	264.24	1.0742	1.0607
#1	4774.6	1786.1	18953.	480.43	-18.628	4730.1	4786.7
#2	4899.9	40.136	19265.	489.45	8.3504	4808.5	4858.7
#3	4865.4	-1585.4	19564.	492.63	48.818	4827.0	4886.2

Elem	Tl1908
Units	ug/Liter
Avge	19267.
SDev	272.
%RSD	1.4111
#1	18978.
#2	19305.
#3	19518.

Method: CLP1100 Sample Name: ICV PEICV2 Operator:
Run Time: 05/20/92 23:04:54
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	1995.9	618.71	102.58	1956.4	49.836	50.809	49918.
SDev	9.7	12.33	5.34	28.7	.888	1.264	586.
%RSD	.48611	1.9930	5.2041	1.4694	1.7814	2.4878	1.1738
#1	1985.0	604.54	97.455	1925.1	48.811	50.147	49255.
#2	2003.7	627.02	102.19	1981.5	50.352	52.266	50367.
#3	1998.9	624.57	108.11	1962.8	50.346	50.012	50132.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	96.950	485.38	246.06	995.82	43.449	49868.	147.78
SDev	2.024	4.61	.00	13.64	10.470	615.	2.07
%RSD	2.0874	.95067	.00002	1.3698	24.097	1.2341	1.4030
#1	95.482	480.09	246.06	980.31	43.262	49194.	146.06
#2	99.259	487.47	246.06	1006.0	33.074	50401.	150.08
#3	96.109	488.58	246.06	1001.2	54.011	50008.	147.21

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	386.19	49027.	54.251	97.300	49804.	487.32	196.42
SDev	11.13	3163.	10.181	1.858	534.	5.15	2.89
%RSD	2.8827	6.4518	18.766	1.9096	1.0718	1.0565	1.4722
#1	373.34	46157.	46.582	95.536	49271.	481.46	193.08
#2	392.69	48505.	65.802	99.240	50339.	489.37	198.08
#3	392.56	52418.	50.369	97.126	49803.	491.12	198.09

Elem	Tl1908
Units	ug/Liter
Avge	73.495
SDev	51.554
%RSD	70.145
#1	113.69
#2	91.432
#3	15.369

Method: CLP1100 Sample Name: ICV SPEXASSE Operator:
Run Time: 05/20/92 23:11:15
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	.82523	16.884	5046.7	-.00128	.01125	20.181	-11.593
SDev	4.8938	12.354	65.5	.16968	.22652	2.049	2.495
%RSD	593.03	73.166	1.2972	-13275.	2012.7	10.152	-21.523
#1	-4.6598	3.2733	5098.3	-.09294	-.12239	22.136	-14.390
#2	2.3908	27.387	5068.7	.19452	.27280	20.357	-9.5940
#3	4.7447	19.993	4973.1	-.10541	-.11664	18.050	-10.796

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	-1.9933	-.37760	-3.4657	1.4918	5047.7	-35.044	.00005
SDev	2.7986	.50356	5.1985	1.5778	86.4	12.204	.00013
%RSD	-140.40	-133.36	-150.00	105.76	1.7119	-34.824	236.96
#1	1.1553	-.67096	1.7328	2.6839	5137.8	-21.831	.00018
#2	-4.1975	-.66569	-3.4656	2.0890	5039.7	-37.409	.00006
#3	-2.9378	.20385	-8.6642	-.29737	4965.5	-45.892	-.00008

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	-4.1011	-481.64	5174.7	1.8788	-13.489	-3.4418	-.05088
SDev	8.6480	1513.92	95.2	1.1008	17.272	.8875	.20627
%RSD	-210.87	-314.33	1.8406	58.589	-128.04	-25.786	-405.38
#1	-5.8009	40.136	5257.9	2.2306	6.4234	-2.4903	.16557
#2	-11.773	-2187.4	5195.3	.64514	-24.409	-3.5880	-.24518
#3	5.2706	702.39	5070.8	2.7607	-22.482	-4.2472	-.07304

Elem	Tl1908
Units	ug/Liter
Avge	5047.3
SDev	50.1
%RSD	.99275
#1	5070.0
#2	5082.1
#3	4989.9

Method: CLP1100 Sample Name: S0 Operator:
Run Time: 05/20/92 23:17:35
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	3.1667	17.426	.34530	-.07446	-.12024	-.97301	1.1949
SDev	9.7713	5.071	4.0509	.33544	.00249	2.31716	6.3474
%RSD	308.57	29.098	1173.2	-450.52	-2.0700	-238.14	531.20
#1	.04521	23.266	-.94772	-.39599	-.11880	-3.6070	-1.2081
#2	14.117	14.141	4.8849	-.10074	-.11880	-.06305	8.3929
#3	-4.6626	14.872	-2.9013	.27335	-.12311	.75106	-3.6001

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	-1.0487	1.0954	-6.9314	-.39735	-21.738	-30.439	.19159
SDev	.3147	.9527	6.0028	2.27799	14.885	30.894	.33181
%RSD	-30.008	86.971	-86.603	-573.30	-68.477	-101.49	173.18
#1	-1.3635	2.1887	-13.863	2.0881	-5.5908	5.0950	.00009
#2	-1.0486	.65535	-3.4657	-.89443	Q-34.913	-50.932	.57473
#3	-.73409	.44233	-3.4657	-2.3858	-24.709	-45.481	-.00004

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	-3.8638	-1364.6	4.1676	-.53018	-13.489	-3.1489	-.04371
SDev	9.4006	1070.8	29.085	1.61514	2.944	.7611	.58631
%RSD	-243.30	-78.467	697.89	-304.64	-21.822	-24.171	-1341.3
#1	.75922	-1585.4	-15.720	-.88330	-10.920	-3.5884	-.71439
#2	2.3301	-2307.8	37.549	1.2323	-16.701	-3.5883	.37166
#3	-14.681	-200.68	-9.3260	-1.9396	-12.847	-2.2701	.21160

Elem	Tl1908
Units	ug/Liter
Avge	-21.762
SDev	42.610
%RSD	-195.80
#1	16.372
#2	-13.905
#3	-67.755

Method: CLP1100 Sample Name: ICSA Operator:
Run Time: 05/20/92 23:23:55
Comment: ICSA 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	502760.	6.2726	6.2024	4.9299	.14503	-3.4537	489620.
SDev	5815.	2.4583	24.419	.2195	.22797	3.9554	10646.
%RSD	1.1566	39.191	393.70	4.4526	157.19	-114.53	2.1743
#1	496080.	9.0658	-3.0488	4.8129	-.11813	.77138	477520.
#2	506680.	4.4386	-12.239	4.7937	.28230	-7.0685	493780.
#3	505530.	5.3133	33.895	5.1832	.27092	-4.0641	497550.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	3.1502	-5.7421	8.6642	188280.	13.831	497780.	12.805
SDev	2.4464	.6835	3.0013	3498.	13.051	6127.	1.118
%RSD	77.658	-11.904	34.641	1.8577	94.366	1.2308	8.7345
#1	1.1557	-6.5261	6.9314	184260.	9.0296	490710.	14.060
#2	5.8799	-5.4286	12.130	189920.	3.8597	501120.	12.441
#3	2.4150	-5.2715	6.9314	190650.	28.602	501510.	11.913

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	10.895	1926.6	-1133.8	-14.416	47.533	-4.4344	-20.863
SDev	7.241	757.6	29.2	2.522	47.373	1.8259	1.486
%RSD	66.458	39.322	-2.5716	-17.498	99.662	-41.175	-7.1246
#1	4.6881	2628.9	-1105.4	-16.425	31.475	-3.7938	-19.245
#2	9.1478	2026.9	-1132.3	-15.237	10.277	-6.4942	-22.167
#3	18.850	1123.8	-1163.6	-11.585	100.85	-3.0151	-21.178

Elem	Tl1908
Units	ug/Liter
Avge	18.352
SDev	74.011
%RSD	403.27
#1	-48.609
#2	5.8468
#3	97.819

Analysis Report QC Standard Wed 05-20-92 11:36:02 PM page 1

Method: CLP1100 Sample Name: ICSAB Operator:
Run Time: 05/20/92 23:30:17
Comment: ICSAB 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	505000.	38.812	40.256	491.84	486.81	978.05	481320.
SDev	748.	31.985	38.243	1.24	5.16	2.86	4249.
%RSD	.14816	82.409	94.999	.25197	1.0591	.29197	.88283
#1	505520.	55.526	69.237	492.21	491.37	977.87	484890.
#2	505340.	58.978	54.621	492.86	487.85	980.99	482460.
#3	504140.	1.9332	-3.0894	490.46	481.21	975.29	476620.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	464.75	453.97	500.78	185840.	972.05	497400.	480.30
SDev	3.47	2.96	.00	1334.	26.08	1963.	1.57
%RSD	.74604	.65200	.00002	.71759	2.6826	.39468	.32678
#1	467.06	456.36	500.78	186970.	986.05	499270.	481.50
#2	466.43	454.88	500.78	186190.	988.13	497580.	480.89
#3	460.76	450.66	500.78	184370.	941.96	495360.	478.53

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	949.54	-220.75	-1102.6	989.43	41.110	462.57	973.99
SDev	9.37	834.94	26.2	4.04	6.948	4.60	7.05
%RSD	.98690	-378.23	-2.3780	.40881	16.901	.99364	.72414
#1	939.40	702.39	-1090.6	991.47	48.818	465.73	979.28
#2	951.34	-923.14	-1132.6	992.05	35.329	464.67	976.70
#3	957.89	-441.50	-1084.5	984.77	39.183	457.29	965.98

Elem	Tl1908
Units	ug/Liter
Avge	-39.906
SDev	62.412
%RSD	-156.40
#1	5.4079
#2	-14.032
#3	-111.09

Method: CLP1100 Sample Name: CRI Operator:
Run Time: 05/20/92 23:36:38
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	119.94	Q89.386	Q41.681	.24922	9.7442	11.039	100.39
SDev	240.39	18.545	10.171	.54449	.0079	2.620	220.22
%RSD	200.42	20.748	24.402	218.48	.08128	23.731	219.36
#1	397.52	Q93.240	Q32.152	.87769	9.7481	Q14.062	354.67
#2	-19.990	105.70	52.391	-.08062	9.7495	9.4459	-27.949
#3	-17.699	Q69.216	Q40.501	-.04941	9.7351	9.6080	-25.553

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	16.557	97.065	48.519	49.206	Q30.461	34.467	27.790
SDev	1.373	2.740	.000	86.012	15.685	297.09	.332
%RSD	8.2928	2.8231	.00009	174.80	51.493	861.97	1.1964
#1	Q15.928	93.924	48.519	148.52	Q28.103	374.55	28.174
#2	18.132	98.308	48.519	-.00541	Q16.088	-174.57	27.598
#3	Q15.612	98.964	48.520	-.89940	47.191	-96.579	27.598

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	81.146	421.43	117.85	17.142	-32.117	93.809	38.342
SDev	3.268	817.40	3.16	3.695	32.929	2.422	.782
%RSD	4.0269	193.96	2.6810	21.554	-102.53	2.5819	2.0383
#1	77.513	1364.6	115.92	21.364	-1.2847	92.633	37.597
#2	82.078	-20.068	116.15	Q15.558	-66.804	92.201	38.274
#3	83.845	-80.273	121.50	Q14.503	-28.263	96.595	39.156

Elem	Tl1908
Units	ug/Liter
Avge	162.11
SDev	53.77
%RSD	33.169
#1	Q186.43
#2	Q100.48
#3	Q199.42

Method: CLP1100 Sample Name: CCV Operator:
Run Time: 05/20/92 23:42:59
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	5176.7	5130.5	5108.2	4991.4	5056.4	5027.2	50444.
SDev	76.7	69.7	75.6	90.4	99.4	67.3	906.
%RSD	1.4821	1.3582	1.4802	1.8115	1.9660	1.3385	1.7955
#1	5242.0	5187.3	5158.6	5070.2	5138.3	5083.5	51204.
#2	5195.9	5151.5	5144.7	5011.4	5085.2	5045.4	50685.
#3	5092.2	5052.8	5021.3	4892.7	4945.8	4952.7	49442.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	4972.7	4983.2	5004.3	4993.2	4991.2	50338.	4984.7
SDev	87.3	88.0	84.0	86.3	98.6	725.	87.2
%RSD	1.7565	1.7661	1.6793	1.7283	1.9765	1.4407	1.7496
#1	5048.3	5057.0	5080.6	5061.8	5078.9	50926.	5059.8
#2	4992.6	5006.9	5018.2	5021.6	5010.1	50561.	5005.2
#3	4877.1	4885.8	4914.2	4896.3	4884.4	49527.	4889.1

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	4967.4	49669.	4929.5	498.54	50227.	4989.9	5012.4
SDev	123.1	2321.	93.1	3.42	812.	92.4	82.0
%RSD	2.4784	4.6731	1.8880	.68528	1.6169	1.8526	1.6362
#1	5101.2	52238.	4998.6	497.17	50946.	5070.4	5077.5
#2	4942.3	49047.	4966.3	502.43	50391.	5010.4	5039.5
#3	4858.8	47722.	4823.7	496.02	49346.	4888.9	4920.3

Elem	Tl1908
Units	ug/Liter
Avge	5024.5
SDev	147.6
%RSD	2.9372
#1	4985.7
#2	5187.6
#3	4900.2

Method: CLP1100 Sample Name: CCB Operator:
Run Time: 05/20/92 23:50:28
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	-16.400	5.5352	-10.403	-.08618	.13556	-1.5494	-22.389
SDev	20.449	3.4547	7.149	.29141	.22340	1.1188	.690
%RSD	-124.69	62.414	-68.721	-338.15	164.80	-72.209	-3.0840
#1	-39.855	8.3636	-18.480	.20856	.26633	-1.1917	-22.793
#2	-2.3142	1.6847	-4.8906	-.09294	-.12239	-.65320	-22.783
#3	-7.0303	6.5572	-7.8373	-.37415	.26274	-2.8033	-21.592

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	-.10452	.14715	-3.4657	-1.4912	-20.715	-72.777	.00016
SDev	1.25941	1.4569	.0000	.8951	1.248	21.670	.00031
%RSD	-1205.0	990.09	-.00116	-60.026	-6.0264	-29.776	198.07
#1	-1.3641	1.0911	-3.4657	-.59609	-21.089	-47.777	.00051
#2	-.10424	-1.5308	-3.4657	-1.4912	-21.733	-86.179	-.00003
#3	1.1547	.88113	-3.4658	-2.3863	-19.322	-84.375	-.00001

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	-.13034	1123.8	-9.7929	-.88174	-13.489	-1.5379	-.06351
SDev	10.8127	1257.1	23.4492	1.90699	62.572	.9906	.26158
%RSD	-8295.6	111.86	-239.45	-216.28	-463.86	-64.416	-411.85
#1	7.8722	-321.09	-18.608	-1.4106	58.453	-1.6109	-.31713
#2	4.1680	1725.9	-27.557	-2.4685	-55.242	-2.4899	-.07878
#3	-12.431	1966.7	16.786	1.2339	-43.679	-.51270	.20537

Elem	Tl1908
Units	ug/Liter
Avge	-13.462
SDev	23.072
%RSD	-171.38
#1	-38.822
#2	6.2867
#3	-7.8511

Method: CLP1100 Sample Name: PBS U 491939 #23 Operator:
Run Time: 05/20/92 23:59:03
Comment: SDG:SD0209 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	20.347	16.003	-18.509	.23275	.39639	-1.4471	7.1947
SDev	17.598	22.053	23.195	.33463	.22713	1.3967	18.108
%RSD	86.491	137.80	-125.32	143.78	57.300	-96.517	251.69
#1	2.3687	4.0508	7.8951	-.08826	.65865	-3.0204	-9.5922
#2	21.133	2.5067	L-35.599	.20699	.26705	-.96777	4.7922
#3	37.539	41.451	L-27.822	.57951	.26346	-.35321	26.384

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	.84013	.51236	-1.7329	13.520	-8.3988	43.609	.00032
SDev	1.9664	1.0293	3.0014	.688	13.9121	112.44	.00021
%RSD	234.05	200.91	-173.20	5.0913	-165.64	257.84	66.380
#1	1.4700	-.64908	-3.4658	13.122	2.1950	-60.931	.00055
#2	-1.3640	1.3118	-3.4657	13.123	-24.154	29.194	.00029
#3	2.4144	.87432	1.7328	14.315	-3.2375	162.56	.00012

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	-7.3132	963.28	-1.7663	2.4659	147.74	-1.4655	4.5535
SDev	7.1995	877.28	17.0273	6.3965	17.27	.6340	.1470
%RSD	-98.446	91.073	-964.02	259.40	11.691	-43.261	3.2291
#1	-15.203	581.98	-16.315	-2.4694	127.83	-1.8318	4.6645
#2	-1.0992	341.16	-5.9448	.17467	156.73	-1.8313	4.6093
#3	-5.6375	1966.7	16.961	9.6925	158.66	-.73343	4.3867

Elem	Tl1908
Units	ug/Liter
Avge	28.920
SDev	35.146
%RSD	121.53
#1	-11.242
#2	54.050
#3	43.953

Method: CLP1100 Sample Name: PBS U 493391 #24 Operator:
Run Time: 05/21/92 00:05:25
Comment: SDG:SD0283 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	36.779	19.694	-8.4057	.20127	-.12191	.84192	15.594
SDev	4.889	7.670	12.5343	.57794	.00539	1.8850	4.164
%RSD	13.293	38.944	-149.12	287.14	-4.4236	223.89	26.699
#1	42.264	17.454	-2.1871	.55924	-.11880	2.9326	10.787
#2	32.881	13.394	-22.833	-.46546	-.11880	.32093	17.995
#3	35.192	28.235	-.19664	.51005	-.12814	-.72777	18.002

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	-2.0985	-.80337	-5.1985	10.439	-15.404	-46.725	.76658
SDev	2.5455	2.76315	3.0014	1.862	12.273	78.267	.33192
%RSD	-121.30	-343.95	-57.735	17.837	-79.676	-167.51	43.299
#1	.84075	2.1798	-3.4657	11.930	-5.0497	39.647	.57492
#2	-3.5677	-1.3149	-8.6642	8.3520	L-28.961	-112.94	1.1498
#3	-3.5686	-3.2750	-3.4656	11.036	-12.201	-66.878	.57497

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	2.9317	-1184.0	11.437	3.1706	201.05	-2.6367	2.3020
SDev	9.5743	1248.9	10.811	1.3312	15.30	1.6492	.3490
%RSD	326.58	-105.48	94.520	41.985	7.6076	-62.548	15.162
#1	5.2058	-2307.8	16.577	3.3460	212.62	-3.5893	2.5826
#2	11.164	-1404.8	-.98417	1.7605	206.83	-3.5884	1.9112
#3	-7.5749	160.55	18.720	4.4055	183.71	-.73237	2.4122

Elem	Tl1908
Units	ug/Liter
Avge	-31.868
SDev	22.267
%RSD	-69.871
#1	-40.851
#2	-48.241
#3	-6.5136

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Method: CLP1100 Sample Name: PBW U 492540 #22 Operator:
Run Time: 05/21/92 00:12:05
Comment: SDG:MERA30 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	43.807	.57400	7.3176	.67014	.26705	-2.0306	-1.1981
SDev	19.536	7.9761	17.843	.80710	.00575	1.3217	13.1851
%RSD	44.596	1389.6	243.83	120.44	2.1525	-65.085	-1100.5
#1	37.575	9.1549	20.517	.55924	.27280	-2.4471	-1.1935
#2	28.148	-6.6139	-12.982	-.07578	.26130	-.55093	-14.385
#3	65.699	-.81899	14.418	1.5269	.26705	-3.0939	11.985

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	-.94414	-.43719	1.7329	15.111	-2.4538	-30.316	.00007
SDev	1.58542	2.48260	5.1985	1.797	8.9651	71.124	.00019
%RSD	-167.92	-567.86	299.99	11.895	-365.36	-234.61	253.78
#1	.52586	-1.5316	1.7328	14.912	6.3208	-6.3798	.00015
#2	-2.6241	-2.1846	-3.4656	13.422	-11.598	-110.32	.00021
#3	-.73421	2.4046	6.9315	17.000	-2.0843	25.752	-.00014

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	.83883	2909.9	-3.7756	-2.1170	354.57	-1.8315	3.7027
SDev	3.5126	911.7	33.6343	4.2731	25.15	1.7579	.4661
%RSD	418.76	31.332	-890.83	-201.85	7.0930	-95.983	12.587
#1	4.8004	2508.5	.15841	-1.4130	362.92	-3.5894	3.2414
#2	-1.8957	3953.4	-39.204	-6.6983	326.31	-.07351	4.1734
#3	-.38828	2267.7	27.719	1.7604	374.49	-1.8316	3.6934

Elem	Tl1908
Units	ug/Liter
Avge	-19.764
SDev	29.698
%RSD	-150.26
#1	4.2432
#2	-10.562
#3	-52.973

Method: CLP1100 Sample Name: LCSW U 491251 #25 Operator:
Run Time: 05/21/92 00:18:58
Comment: SDG:MERA30 1:1 =PELCS
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	19487.	5826.6	930.37	18833.	466.01	467.56	466040.
SDev	87.	5.5	7.97	68.	1.69	7.86	928.
%RSD	.44556	.09520	.85694	.36338	.36337	1.6803	.19913
#1	19400.	5832.0	936.79	18754.	467.18	458.56	467030.
#2	19489.	5821.0	921.45	18866.	466.78	471.03	465880.
#3	19573.	5826.8	932.88	18878.	464.07	473.08	465200.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	909.32	4447.8	2401.7	9236.0	441.30	482500.	1374.5
SDev	.96	10.6	13.1	8.5	9.37	622.	1.2
%RSD	.10594	.23943	.54473	.09165	2.1228	.12901	.08697
#1	909.53	4458.7	2387.8	9243.6	436.59	481780.	1373.2
#2	908.27	4447.3	2413.8	9237.6	452.08	482860.	1374.9
#3	910.16	4437.4	2403.4	9226.9	435.21	482850.	1375.5

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	3595.3	485070.	423.44	954.25	488810.	4627.1	1858.9
SDev	29.9	546.	9.75	2.94	2033.	5.0	1.7
%RSD	.83301	.11263	2.3037	.30846	.41595	.10705	.09293
#1	3629.0	484450.	427.80	951.07	486500.	4627.4	1856.9
#2	3571.7	485290.	430.26	954.78	490340.	4631.8	1859.9
#3	3585.1	485470.	412.27	956.89	489580.	4621.9	1859.9

Elem	Tl1908
Units	ug/Liter
Avge	880.68
SDev	22.60
%RSD	2.5666
#1	906.44
#2	871.48
#3	864.13

Method: CLP1100 Sample Name: LCSS U 491697 #26 Operator:
Run Time: 05/21/92 00:25:20
Comment: SDG:SD0209 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	1503.3	1152.2	4955.5	29.857	95.910	236.82	897210.
SDev	11.0	21.8	35.2	.196	.662	.24	10383.
%RSD	.73379	1.8943	.71121	.65514	.69050	.10234	1.1572
#1	1494.8	1127.8	4917.6	29.938	95.145	236.63	885710.
#2	1515.7	1169.9	4961.6	29.999	96.292	236.74	900060.
#3	1499.3	1159.0	4987.3	29.634	96.293	237.10	905880.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	490.82	733.48	33865.	108450.	1053.3	572130.	1026.3
SDev	5.28	6.61	131.	1075.	20.9	3276.	9.4
%RSD	1.0758	.90173	.38743	.99143	1.9887	.57257	.91717
#1	484.73	725.85	33714.	107230.	1033.4	568360.	1015.5
#2	494.18	737.53	33954.	108830.	1051.2	573750.	1030.5
#3	493.55	737.07	33928.	109270.	1075.2	574280.	1032.8

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	298.20	2849.7	-393.61	93.724	425.23	328.82	865.54
SDev	18.47	1445.3	44.32	3.633	7.79	4.89	8.36
%RSD	6.1943	50.719	-11.261	3.8762	1.8315	1.4882	.96601
#1	313.29	1424.8	-412.65	89.576	416.88	323.17	856.22
#2	303.71	2809.6	-342.95	96.342	432.30	331.66	868.04
#3	277.60	4314.7	-425.24	95.253	426.52	331.64	872.37

Elem	Tl1908
Units	ug/Liter
Avge	148.74
SDev	14.96
%RSD	10.058
#1	144.72
#2	165.30
#3	136.20

Method: CLP1100 Sample Name: LCSS U 491697 #27 Operator:
Run Time: 05/21/92 00:31:42
Comment: SDG:SD0209 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	336.38	276.42	1072.5	6.1399	21.179	46.496	193920.
SDev	4.03	15.43	20.4	.1796	.009	3.691	859.
%RSD	1.1986	5.5824	1.9020	2.9250	.04235	7.9390	.44278
#1	334.03	262.05	1094.2	5.9946	21.179	42.344	194660.
#2	334.07	274.49	1069.6	6.3407	21.188	47.741	192980.
#3	341.03	292.73	1053.7	6.0844	21.170	49.405	194130.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	105.68	161.27	7066.6	23717.	227.57	119190.	221.63
SDev	1.09	2.60	28.9	98.	10.39	636.	.34
%RSD	1.0316	1.6120	.40959	.41478	4.5677	.53396	.15169
#1	106.31	H163.09	7092.6	23790.	223.77	119850.	221.83
#2	104.42	158.29	7035.4	23605.	219.60	118580.	221.24
#3	106.31	H162.43	7071.8	23756.	239.32	119140.	221.83

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	63.651	L-100.34	-66.207	20.931	334.02	69.763	189.23
SDev	4.307	243.31	18.510	2.140	14.55	2.743	1.11
%RSD	6.7666	-242.49	-27.957	10.222	4.3557	3.9322	.58793
#1	68.570	L-321.09	-80.114	18.635	318.60	69.686	190.31
#2	60.555	160.55	-45.198	21.290	347.51	67.059	188.08
#3	61.828	L-140.48	-73.309	22.868	335.95	72.544	189.30

Elem	Tl1908
Units	ug/Liter
Avge	46.294
SDev	43.805
%RSD	94.622
#1	1.7305
#2	47.854
#3	89.298

Method: CLP1100 Sample Name: LCSS U 491766 #28 Operator:
Run Time: 05/21/92 00:38:08
Comment: SDG:SD0283 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	1740.9	1166.9	5139.1	29.849	97.209	238.42	912660.
SDev	20.0	10.5	29.5	.366	.819	1.64	4903.
%RSD	1.1499	.90114	.57490	1.2249	.84214	.68852	.53717
#1	1719.8	1178.6	5171.1	30.271	97.869	238.92	916500.
#2	1759.7	1158.2	5133.4	29.642	97.463	236.59	914340.
#3	1743.3	1163.9	5112.8	29.633	96.293	239.75	907140.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	495.44	727.63	34567.	111630.	1085.6	580530.	1035.8
SDev	3.20	4.71	164.	552.	6.1	2691.	5.9
%RSD	.64515	.64773	.47391	.49461	.56542	.46347	.56571
#1	498.90	729.43	34728.	112100.	1081.3	583150.	1041.0
#2	494.81	731.18	34572.	111770.	1083.0	580670.	1037.0
#3	492.60	722.29	34401.	111020.	1092.6	577770.	1029.4

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	284.10	1043.5	-379.20	93.854	404.68	330.93	882.53
SDev	26.36	638.1	54.68	1.596	19.68	2.27	2.51
%RSD	9.2789	61.147	-14.420	1.7007	4.8640	.68580	.28390
#1	255.25	461.57	-378.07	93.467	382.19	328.42	884.05
#2	306.92	943.21	-325.09	95.608	418.81	332.83	883.90
#3	290.13	1725.9	-434.44	92.487	413.03	331.55	879.64

Elem	Tl1908
Units	ug/Liter
Avge	147.97
SDev	26.66
%RSD	18.014
#1	178.73
#2	131.57
#3	133.62

Method: CLP1100 Sample Name: LCSS U 491766 #29 Operator:
Run Time: 05/21/92 00:44:30
Comment: SDG:SD0283 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	379.33	283.02	1105.3	6.6735	21.693	51.611	199450.
SDev	5.90	.51	10.5	1.4719	.226	1.242	1333.
%RSD	1.5545	.17918	.95262	22.056	1.0407	2.4074	.66826
#1	378.58	282.71	1093.9	5.9326	21.568	51.035	198720.
#2	373.85	282.75	1114.6	5.7192	21.953	50.762	200990.
#3	385.57	283.61	1107.6	8.3686	21.557	53.037	198640.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	108.62	H163.08	7231.2	24728.	246.57	121590.	227.81
SDev	1.27	1.45	55.6	155.	2.41	755.	2.33
%RSD	1.1713	.88978	.76870	.62839	.97840	.62120	1.0229
#1	107.88	161.48	7243.3	24685.	243.99	121730.	226.47
#2	107.88	H163.43	7279.7	24900.	246.97	122260.	230.50
#3	110.09	H164.32	7170.6	24598.	248.76	120770.	226.46

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	H73.481	H1505.1	-64.443	15.574	220.32	72.349	193.68
SDev	9.060	512.0	56.322	2.211	83.80	1.545	.77
%RSD	12.329	34.020	-87.398	14.199	38.034	2.1349	.39629
#1	63.960	H2026.9	-76.812	L14.871	154.80	70.740	193.17
#2	H74.490	H1003.4	-113.55	L13.799	191.42	72.487	194.57
#3	H81.995	H1485.0	-2.9645	18.051	314.75	73.820	193.32

Elem	Tl1908
Units	ug/Liter
Avge	13.900
SDev	25.247
%RSD	181.63
#1	-6.6636
#2	42.078
#3	6.2856

Method: CLP1100 Sample Name: XXX U 491260 #30 Operator:
Run Time: 05/21/92 00:50:56
Comment: SDG:MERA30 1:1 MERA32
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	275.82	26.965	-.60153	19.421	-.01777	-.71863	122700.
SDev	17.25	2.566	8.94750	.312	.21718	2.40989	1140.
%RSD	6.2554	9.5145	-1487.5	1.6085	-1222.1	-335.34	.92912
#1	295.32	26.286	.55901	19.125	.23300	-2.1829	124000.
#2	269.60	24.808	-10.073	19.748	-.14136	-2.0358	121860.
#3	262.54	29.802	7.7091	19.391	-.14495	2.0628	122250.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	818.72	-.73975	-1.7591	165.98	-3.8251	9969.6	46.959
SDev	9.11	1.70549	3.0011	1.21	11.1020	49.6	1.659
%RSD	1.1122	-230.55	-170.61	.72757	-290.24	.49716	3.5339
#1	829.00	.13174	1.7063	164.68	8.5179	10023.	48.875
#2	815.46	.35390	-3.4918	167.07	-12.995	9925.8	46.001
#3	811.68	-2.7049	-3.4917	166.18	-6.9978	9959.7	46.001

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	-1.8201	15673.	20.698	2.6109	23010.	5.4348	4.3497
SDev	3.7307	1900.	22.697	3.8263	167.	2.7808	.4536
%RSD	-204.97	12.125	109.66	146.55	.72606	51.166	10.429
#1	-.03175	17499.	31.772	7.0186	23164.	8.5824	4.8538
#2	.67976	15814.	35.731	.14233	22832.	3.3114	3.9744
#3	-6.1083	13707.	-5.4106	.67185	23034.	4.4105	4.2209

Elem	Tl1908
Units	ug/Liter
Avge	-7.1104
SDev	14.0202
%RSD	-197.18
#1	-22.359
#2	5.2228
#3	-4.1948

Method: CLP1100 Sample Name: XXX S 491260 #31 Operator:
Run Time: 05/21/92 00:58:26
Comment: SDG:MERA30 1:5 MERA32L
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	70.338	5.6569	-16.978	4.3512	.39001	-1.6960	26483.
SDev	15.340	2.3615	12.362	.2243	.21281	.9351	517.
%RSD	21.809	41.745	-72.809	5.1550	54.565	-55.137	1.9540
#1	84.355	4.3752	L-31.244	4.2861	.63575	-1.0131	25896.
#2	53.950	8.3820	-10.281	4.1667	.26715	-2.7617	26677.
#3	72.709	4.2133	-9.4107	4.6009	.26715	-1.3130	26875.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	180.64	1.9712	3.4599	36.630	-2.8633	2078.1	10.158
SDev	4.77	.6631	6.0027	1.660	3.0028	32.2	1.660
%RSD	2.6384	33.640	173.49	4.5330	-104.87	1.5493	16.339
#1	176.86	2.1144	6.9258	35.140	.31005	2094.1	9.1998
#2	179.07	1.2482	-3.4714	38.420	-3.2398	2041.0	9.2004
#3	186.00	2.5510	6.9255	36.331	-5.6600	2099.1	12.075

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	7.7122	3190.8	-30.262	-1.9464	4973.0	.48372	2.1782
SDev	10.258	697.8	25.468	.9146	79.1	4.0597	.4648
%RSD	133.01	21.868	-84.161	-46.991	1.5903	839.26	21.338
#1	16.847	3532.0	-54.720	-2.4724	4887.6	5.1714	2.4346
#2	-3.3850	2388.1	-3.8913	-2.4765	5043.7	-1.8597	1.6417
#3	9.6746	3652.4	-32.173	-.89027	4987.8	-1.8606	2.4583

Elem	Tl1908
Units	ug/Liter
Avge	-5.9191
SDev	51.3601
%RSD	-867.70
#1	-32.840
#2	53.305
#3	-38.222

Method: CLP1100 Sample Name: CCV Operator:
Run Time: 05/21/92 01:04:48
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	5319.9	5283.9	5269.9	5125.2	5219.8	5110.4	51704.
SDev	56.7	79.1	81.1	65.9	65.6	47.2	570.
%RSD	1.0653	1.4966	1.5393	1.2867	1.2570	.92371	1.1032
#1	5262.5	5198.6	5219.3	5073.8	5203.2	5069.4	51457.
#2	5375.9	5354.8	5363.5	5199.6	5292.1	5162.0	52356.
#3	5321.4	5298.2	5227.0	5102.4	5164.0	5099.9	51299.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	5120.9	5131.5	5130.8	5140.5	5135.4	51656.	5129.8
SDev	55.9	57.8	65.0	54.0	50.2	597.	59.6
%RSD	1.0916	1.1265	1.2668	1.0507	.97656	1.1556	1.1627
#1	5096.2	5103.7	5085.8	5107.1	5131.6	51171.	5100.6
#2	5185.0	5197.9	5205.3	5202.9	5187.4	52323.	5198.4
#3	5081.7	5092.8	5101.4	5111.6	5087.3	51475.	5090.3

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	5154.6	49508.	5072.4	514.84	51531.	5138.5	5150.0
SDev	52.9	1389.	72.9	5.58	667.	68.3	53.2
%RSD	1.0259	2.8057	1.4381	1.0845	1.2950	1.3294	1.0329
#1	5146.3	51094.	5000.2	509.36	51069.	5106.6	5118.5
#2	5211.2	48505.	5146.0	520.52	52296.	5216.9	5211.4
#3	5106.4	48926.	5071.0	514.63	51229.	5091.9	5120.1

Elem	Tl1908
Units	ug/Liter
Avge	5316.6
SDev	34.6
%RSD	.65023
#1	5288.6
#2	5355.3
#3	5306.1

Method: CLP1100 Sample Name: CCB Operator:
Run Time: 05/21/92 01:12:17
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	-28.898	1.3317	-4.0721	-.53240	.39950	-1.8863	-19.194
SDev	9.765	4.7805	6.3966	.38465	.22443	.4288	4.323
%RSD	-33.791	358.98	-157.08	-72.248	56.179	-22.734	-22.521
#1	-25.762	-4.1881	-10.655	-.75759	.27136	-2.0381	-22.790
#2	-21.087	4.0469	2.1206	-.08826	.65865	-2.2187	-14.398
#3	-39.846	4.1363	-3.6821	-.75136	.26849	-1.4023	-20.394

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	-.10426	.95277	1.7329	-2.3859	-4.5470	-47.174	.00029
SDev	1.25937	.66773	5.1986	1.1926	19.1408	24.121	.00013
%RSD	-1207.9	70.083	300.00	-49.985	-420.96	-51.132	45.483
#1	-1.3636	.22513	6.9315	-3.5785	-23.491	-56.506	.00019
#2	1.1551	1.5374	-3.4658	-1.1933	14.785	-19.781	.00023
#3	-.10431	1.0958	1.7329	-2.3859	-4.9354	-65.236	.00043

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	-9.6711	-260.89	17.263	-1.4111	-12.205	-2.4166	.10658
SDev	6.4456	694.31	14.883	1.3989	32.835	.6710	.72067
%RSD	-66.648	-266.14	86.213	-99.140	-269.04	-27.765	676.17
#1	-9.9277	-1043.5	31.441	-1.9399	-43.679	-3.1487	-.72013
#2	-15.985	280.96	18.587	.17518	21.840	-1.8310	.43761
#3	-3.1010	-20.068	1.7625	-2.4685	-14.774	-2.2702	.60227

Elem	Tl1908
Units	ug/Liter
Avge	-5.1622
SDev	21.5736
%RSD	-417.92
#1	15.708
#2	-3.8181
#3	-27.376

Method: CLP1100 Sample Name: DUP U 491250 #34 Operator:
Run Time: 05/21/92 01:18:38
Comment: SDG:MERA30 1:1 MERA32D
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	195.32	26.077	5.1735	18.649	.24973	-.55100	121150.
SDev	16.93	15.426	2.6875	.391	.00913	1.14287	788.
%RSD	8.6697	59.157	51.947	2.0984	3.6546	-207.42	.65011
#1	203.90	24.298	2.1513	18.440	.24446	.70481	120270.
#2	175.81	42.316	7.2948	18.406	.26027	-.82769	121790.
#3	206.24	11.617	6.0743	19.100	.24447	-1.5301	121390.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	805.39	.14544	-3.4915	59.608	-16.282	9675.3	45.997
SDev	7.12	1.4328	.0002	1.128	10.531	57.4	.000
%RSD	.88387	985.14	-.00652	1.8919	-64.678	.59371	.00046
#1	797.20	1.6741	-3.4912	58.815	-5.1326	9612.0	45.997
#2	808.85	-.07100	-3.4916	59.110	-17.653	9689.7	45.997
#3	810.11	-1.1668	-3.4916	60.899	-26.060	9724.2	45.997

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	3.9207	15392.	12.429	-.73095	22246.	3.4647	4.7219
SDev	8.2523	2410.	20.941	.30373	163.	2.7911	.1042
%RSD	210.48	15.660	168.49	-41.554	.73231	80.556	2.2061
#1	12.658	17740.	-8.6861	-.90619	22086.	5.0772	4.8414
#2	-3.7405	12924.	12.781	-.38022	22412.	.24189	4.6740
#3	2.8443	15513.	33.191	-.90642	22240.	5.0751	4.6503

Elem	Tl1908
Units	ug/Liter
Avge	18.654
SDev	34.470
%RSD	184.79
#1	51.190
#2	22.240
#3	-17.469

Method: CLP1100 Sample Name: SPK U 491249 #35 Operator:
Run Time: 05/21/92 01:28:28
Comment: SDG:MERA30 1:1 MERA32S
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	2256.5	547.42	2051.7	2039.8	53.536	57.553	135620.
SDev	35.9	15.50	27.4	35.9	1.225	.637	2876.
%RSD	1.5912	2.8314	1.3367	1.7584	2.2889	1.1075	2.1205
#1	2232.4	534.40	2060.4	2021.6	52.646	56.938	133620.
#2	2239.4	543.29	2021.0	2016.7	53.027	58.211	134320.
#3	2297.8	564.57	2073.7	2081.1	54.933	57.510	138920.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1120.8	504.59	252.96	1115.3	494.29	10861.	553.52
SDev	21.0	11.75	3.00	27.0	29.30	232.	10.62
%RSD	1.8740	2.3289	1.1864	2.4235	5.9273	2.1321	1.9191
#1	1133.4	496.22	251.23	1131.2	462.82	10690.	547.38
#2	1096.5	499.51	251.23	1084.1	499.28	10769.	547.38
#3	1132.4	518.02	256.43	1130.6	520.77	11125.	565.78

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	510.29	18302.	2058.4	50.035	24895.	513.60	513.57
SDev	21.92	1820.	35.8	1.836	422.	10.22	10.10
%RSD	4.2963	9.9467	1.7393	3.6696	1.6969	1.9892	1.9666
#1	490.30	19005.	2045.6	47.915	24697.	506.12	506.90
#2	506.83	16235.	2030.8	51.093	24607.	509.43	508.62
#3	533.74	19667.	2098.8	51.097	25380.	525.24	525.19

Elem	Tl1908
Units	ug/Liter
Avge	2026.4
SDev	83.8
%RSD	4.1363
#1	2081.3
#2	2067.9
#3	1929.9

Method: CLP1100 Sample Name: XXX U 491248 #36 Operator:
Run Time: 05/21/92 01:34:52
Comment: SDG:MERA30 1:1 MERA30
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	49.228	35.141	7.0348	27.505	.25859	-1.3094	249410.
SDev	13.062	16.689	16.229	.646	.00540	2.2532	3579.
%RSD	26.534	47.491	230.70	2.3487	2.0864	-172.08	1.4349
#1	63.312	37.226	16.814	27.279	.26171	1.2143	253500.
#2	37.512	50.690	15.990	28.234	.26170	-3.1192	247920.
#3	46.860	17.508	-11.699	27.003	.25236	-2.0233	246820.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	743.04	-.57563	-1.7566	215.31	-13.574	60684.	8.6333
SDev	8.63	.69857	3.0016	3.73	15.633	402.	.5750
%RSD	1.1614	-121.36	-170.87	1.7308	-115.17	.66248	6.6601
#1	752.80	-.07121	-3.4898	219.58	.95913	61140.	9.2082
#2	739.89	-.28270	-3.4894	212.73	-11.569	60531.	8.6333
#3	736.42	-1.3730	1.7093	213.62	L-30.114	60381.	8.0582

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	-6.2559	6241.2	2.4945	-.21272	29040.	.75660	3.3455
SDev	1.9032	1795.1	14.163	3.09777	213.	1.6500	.3472
%RSD	-30.423	28.762	567.77	-1456.3	.73367	218.07	10.379
#1	-5.8759	4615.7	10.885	-1.4478	29286.	-.19713	3.2551
#2	-4.5713	5940.2	10.456	3.3121	28902.	-.19486	3.0524
#3	-8.3204	8167.8	-13.857	-2.5025	28933.	2.6618	3.7290

Elem	Tl1908
Units	ug/Liter
Avge	-28.894
SDev	13.621
%RSD	-47.140
#1	-36.082
#2	-13.185
#3	-37.416

Method: CLP1100 Sample Name: XXX U 491252 #37 Operator:
Run Time: 05/21/92 01:41:16
Comment: SDG:MERA30 1:1 MERA31
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	85.950	27.279	-16.521	27.663	.12181	-1.2342	251410.
SDev	17.903	8.676	3.577	.850	.22298	1.2708	2663.
%RSD	20.829	31.804	-21.653	3.0726	183.07	-102.96	1.0594
#1	82.038	33.036	-16.841	28.620	.25162	.23224	254450.
#2	70.327	31.501	-12.795	26.995	-.13567	-2.0128	249520.
#3	105.49	17.301	-19.928	27.374	.24946	-1.9219	250250.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	751.12	.52978	-.02404	29.103	-.24289	61993.	9.1995
SDev	9.43	3.6368	6.00287	2.028	4.17198	663.	.0003
%RSD	1.2558	686.48	-24975.	6.9670	-1717.6	1.0691	.00314
#1	761.62	1.6841	-3.4901	31.387	-3.2374	62707.	9.1997
#2	743.35	-3.5441	-3.4895	28.410	-2.0137	61871.	9.1997
#3	748.39	3.4493	6.9075	27.514	4.5224	61399.	9.1992

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	-9.3856	6140.9	-.53034	-1.0803	29791.	2.6688	1.2397
SDev	13.4533	1842.2	30.0717	1.6999	442.	1.0062	.3618
%RSD	-143.34	30.000	-5670.3	-157.34	1.4838	37.702	29.187
#1	5.9840	7204.5	30.016	.15310	30247.	2.8868	1.3846
#2	-15.115	7204.5	-30.103	-3.0194	29762.	1.5715	.82791
#3	-19.026	4013.6	-1.5043	-.37477	29365.	3.5481	1.5067

Elem	Tl1908
Units	ug/Liter
Avge	-29.436
SDev	35.356
%RSD	-120.11
#1	2.6375
#2	-67.347
#3	-23.599

Method: CLP1100 Sample Name: XXX U 491263 #38 Operator:
Run Time: 05/21/92 01:47:39
Comment: SDG:MERA30 1:1 MERA33
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	43.018	24.360	-7.1463	.69640	.26562	-1.5916	19.995
SDev	9.478	11.026	7.1617	.69641	.00249	1.5176	1.834
%RSD	22.032	45.264	-100.21	100.00	.93678	-95.348	9.1723
#1	32.861	31.503	-1.1641	-.08827	.26706	-2.8886	21.597
#2	44.566	29.915	-5.1928	1.2410	.26275	.07735	20.393
#3	51.626	11.661	-15.082	.93644	.26706	-1.9636	17.994

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1.0500	-1.1694	1.7328	41.754	-8.6332	-51.272	.95953
SDev	.9618	.6977	5.1985	1.491	20.0323	71.704	1.6598
%RSD	91.596	-59.664	300.00	3.5717	-232.04	-139.85	172.98
#1	.84024	-1.9654	-3.4657	40.263	L-28.950	-80.481	.00133
#2	2.0994	-.66376	6.9314	41.754	11.102	30.427	2.8760
#3	.21046	-.87907	1.7329	43.246	-8.0511	-103.76	.00121

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	2.4946	2307.8	3.4199	.87771	337.23	-1.3937	8.5177
SDev	8.4647	692.6	6.2884	.30546	13.94	.7609	.0875
%RSD	339.32	30.009	183.87	34.802	4.1338	-54.598	1.0278
#1	-7.1705	2990.2	6.8631	.70158	330.16	-1.8330	8.4177
#2	8.5887	1605.5	7.2348	1.2304	328.24	-.51505	8.5545
#3	6.0655	2327.9	-3.8381	.70113	353.29	-1.8331	8.5808

Elem	Tl1908
Units	ug/Liter
Avge	-25.420
SDev	19.194
%RSD	-75.508
#1	-6.5744
#2	-24.740
#3	-44.944

Method: CLP1100 Sample Name: XXX P 491260 #86 Operator:
Run Time: 05/21/92 01:54:28
Comment: SDG:MERA30 1:1 MERA32A
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	235.18	22.037	8.0961	19.094	.37767	.36501	119060.
SDev	64.72	6.985	13.249	.665	.22570	.70171	381.
%RSD	27.519	31.699	163.65	3.4810	59.763	192.24	.32005
#1	260.22	29.875	-6.1613	18.426	.25096	.06796	118640.
#2	283.64	16.468	10.419	19.102	.24379	-.13932	119180.
#3	161.68	19.768	20.030	19.755	.63825	1.1664	119370.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	2305.5	2.8370	-1.8066	163.55	-11.461	9672.4	46.001
SDev	9.2	.3281	3.0013	4.34	4.167	52.3	.001
%RSD	.39749	11.564	-166.13	2.6564	-36.361	.54091	.00225
#1	2295.1	2.4806	-3.5392	160.07	-12.288	9612.2	46.001
#2	2312.5	2.9040	-3.5397	162.15	-6.9425	9698.8	46.000
#3	2309.0	3.1264	1.6590	168.42	-15.153	9706.3	46.002

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	-6.2739	13927.	11.726	L-11.181	22298.	4.2598	5.4158
SDev	9.8756	572.	20.774	24.123	156.	1.1044	.2879
%RSD	-157.41	4.1085	177.17	-215.75	.70001	25.926	5.3154
#1	-15.228	13947.	24.209	3.2714	22142.	3.0898	5.6040
#2	4.3186	14489.	-12.256	2.2144	22298.	5.2841	5.0844
#3	-7.9127	13345.	23.223	L-39.029	22454.	4.4055	5.5590

Elem	Tl1908
Units	ug/Liter
Avge	3.3545
SDev	58.586
%RSD	1746.5
#1	-56.536
#2	6.0555
#3	60.544

Method: CLP1100 Sample Name: CRI Operator:
Run Time: 05/21/92 02:01:12
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	15.076	103.20	Q34.677	.25284	10.113	10.168	-14.378
SDev	8.120	3.82	5.073	.59386	.391	1.514	.681
%RSD	53.861	3.7026	14.630	234.88	3.8616	14.893	-4.7367
#1	24.453	107.36	Q33.299	.93857	10.503	11.883	-13.592
#2	10.386	102.38	Q30.435	-.08925	10.113	9.0161	-14.776
#3	10.390	99.856	Q40.296	-.09081	9.7222	9.6037	-14.767

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	20.019	104.57	51.985	2.0817	47.558	51.874	31.623
SDev	2.459	3.45	3.001	.7886	1.251	52.710	.575
%RSD	12.285	3.3018	5.7737	37.880	2.6301	101.61	1.8179
#1	22.853	108.35	48.519	2.6774	47.142	104.75	32.198
#2	18.444	103.77	53.718	1.1875	46.569	-.67007	31.623
#3	18.759	101.59	53.718	2.3804	48.965	51.546	31.048

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	84.055	-521.77	141.08	21.555	-3.2117	100.84	41.146
SDev	8.296	2049.02	33.88	1.700	21.1973	.34	.777
%RSD	9.8694	-392.70	24.015	7.8856	-660.00	.33246	1.8892
#1	93.165	-2127.2	Q151.22	23.494	-3.2117	101.21	42.008
#2	82.067	1786.1	Q168.73	20.321	17.986	100.77	40.929
#3	76.935	-1224.2	103.29	20.850	-24.409	100.55	40.500

Elem	Tl1908
Units	ug/Liter
Avge	155.45
SDev	37.03
%RSD	23.822
#1	117.98
#2	Q192.03
#3	156.35

Method: CLP1100 Sample Name: ICSA Operator:
Run Time: 05/21/92 02:07:33
Comment: ICSA 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	511290.	46.134	11.653	5.0938	.02969	-1.1234	483510.
SDev	3671.	38.669	16.263	.5596	.22242	2.1881	4196.
%RSD	.71800	83.819	139.55	10.986	749.17	-194.78	.86779
#1	508050.	5.5539	-7.1104	4.7795	-.10272	-1.3558	480190.
#2	510550.	50.292	20.390	4.7620	-.09469	1.1716	482110.
#3	515280.	82.555	21.680	5.7399	.28648	-3.1861	488230.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1.8920	-7.1314	6.9314	187440.	-1.8695	502980.	13.802
SDev	2.2782	2.0835	.0001	1511.	20.2434	4232.	.682
%RSD	120.41	-29.216	.00105	.80636	-1082.8	.84142	4.9398
#1	-.73228	-9.5119	6.9315	186220.	-3.5638	499130.	13.409
#2	3.3620	-5.6391	6.9313	186960.	-21.213	502280.	13.408
#3	3.0462	-6.2434	6.9313	189130.	19.168	507510.	14.590

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	-1.5888	-762.59	-1098.2	-13.831	40.468	-9.0793	-21.741
SDev	5.9251	887.55	47.6	1.103	28.080	1.6693	.440
%RSD	-372.94	-116.39	-4.3333	-7.9743	69.389	-18.385	-2.0227
#1	-6.4424	-80.273	-1153.1	-12.864	17.986	-8.5055	-22.128
#2	-3.3379	-441.50	-1071.7	-15.032	31.475	-10.960	-21.831
#3	5.0141	-1766.0	-1069.7	-13.596	71.942	-7.7726	-21.263

Elem	Tl1908
Units	ug/Liter
Avge	59.807
SDev	74.076
%RSD	123.86
#1	-20.586
#2	74.707
#3	125.30

Method: CLP1100 Sample Name: ICSAB Operator:
Run Time: 05/21/92 02:13:54
Comment: ICSAB 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	513000.	27.452	31.511	502.21	493.43	1012.4	487330.
SDev	5199.	13.799	56.018	5.73	8.14	11.8	6977.
%RSD	1.0134	50.265	177.77	1.1406	1.6498	1.1685	1.4316
#1	507000.	39.106	64.447	495.61	484.30	998.99	479570.
#2	516270.	12.215	63.255	505.84	496.03	1017.1	489370.
#3	515720.	31.034	-33.170	505.19	499.95	1021.2	493070.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	476.61	464.05	505.98	188770.	983.45	504590.	487.99
SDev	6.03	5.51	5.20	2683.	23.41	5688.	6.91
%RSD	1.2644	1.1875	1.0274	1.4211	2.3804	1.1273	1.4161
#1	470.21	457.96	500.78	185730.	957.32	498020.	480.27
#2	477.45	465.49	511.18	189780.	990.51	507760.	490.10
#3	482.17	468.69	505.98	190810.	1002.5	507990.	493.60

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	962.30	361.23	-1129.4	1003.0	-6.4235	474.21	992.26
SDev	12.43	2244.9	70.9	9.0	34.9708	3.35	11.94
%RSD	1.2920	621.45	-6.2740	.90073	-544.42	.70701	1.2035
#1	963.09	-622.12	-1047.7	992.62	33.402	470.41	978.71
#2	974.31	2930.0	-1174.5	1007.1	-32.117	475.48	996.81
#3	949.49	-1224.2	-1165.9	1009.2	-20.555	476.74	1001.3

Elem	Tl1908
Units	ug/Liter
Avge	-3.8528
SDev	42.3424
%RSD	-1099.0
#1	-48.551
#2	1.3372
#3	35.655

Method: CLP1100 Sample Name: CCV Operator:
Run Time: 05/21/92 02:21:35
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	5356.0	5293.8	5287.2	5147.8	5176.2	5161.3	51420.
SDev	29.6	26.5	36.4	9.4	49.4	25.1	501.
%RSD	.55274	.50007	.68896	.18312	.95431	.48683	.97344
#1	5348.6	5312.5	5302.1	5155.6	5219.0	5177.6	51741.
#2	5388.7	5305.4	5313.8	5150.5	5187.4	5173.9	51675.
#3	5330.9	5263.5	5245.7	5137.3	5122.2	5132.3	50843.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	5100.4	5106.1	5155.1	5120.5	5116.0	51709.	5114.4
SDev	41.5	47.5	10.8	39.3	53.8	293.	38.5
%RSD	.81301	.93008	.20990	.76777	1.0525	.56649	.75324
#1	5131.8	5137.9	5158.6	5148.6	5136.5	51914.	5140.3
#2	5116.0	5128.8	5163.8	5137.3	5156.7	51840.	5132.8
#3	5053.4	5051.5	5143.0	5075.5	5055.0	51374.	5070.2

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	5091.9	47662.	5110.0	519.06	51740.	5130.4	5147.5
SDev	30.7	1565.	28.1	1.34	4.	38.3	32.5
%RSD	.60308	3.2842	.54938	.25880	.00860	.74699	.63218
#1	5089.1	47662.	5102.5	518.90	51738.	5160.0	5169.9
#2	5123.9	49227.	5141.0	520.48	51745.	5144.0	5162.4
#3	5062.6	46097.	5086.4	517.80	51738.	5087.1	5110.2

Elem	Tl1908
Units	ug/Liter
Avge	5290.4
SDev	16.7
%RSD	.31512
#1	5309.5
#2	5278.5
#3	5283.2

Method: CLP1100 Sample Name: CCB Operator:
Run Time: 05/21/92 02:29:05
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	-1.5305	11.848	-14.092	-.19239	.40022	-.54274	-29.989
SDev	18.8244	9.628	11.782	.51639	.22879	.15918	3.170
%RSD	-1229.9	81.264	-83.611	-268.40	57.166	-29.328	-10.569
#1	.03137	16.550	-12.787	-.75292	.26921	-.56139	-32.382
#2	16.464	.77229	-3.0162	.26399	.66440	-.69177	-31.191
#3	-21.087	18.221	-26.472	-.08826	.26705	-.37506	-26.394

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	.10573	1.1697	-3.4657	-1.5907	-1.7922	-4.8226	-.00005
SDev	1.1924	1.3869	.0000	2.4103	3.5897	27.1627	.00018
%RSD	1127.8	118.57	-.00110	-151.53	-200.29	-563.24	-358.11
#1	-.41913	-.43175	-3.4657	-2.9823	1.5971	14.195	-.00013
#2	1.4705	1.9694	-3.4658	1.1925	-1.4205	7.2690	-.00017
#3	-.73422	1.9715	-3.4657	-2.9822	-5.5533	-35.931	.00015

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	-9.0755	-2087.1	3.9172	-1.7638	-17.986	-2.6364	.18922
SDev	2.0165	893.7	6.4475	.3046	58.524	.8882	.22155
%RSD	-22.219	-42.818	164.60	-17.272	-325.39	-33.690	117.09
#1	-10.749	-2307.8	3.1890	-1.9399	-66.804	-2.4898	-.02777
#2	-6.8368	-2849.7	-2.1353	-1.4120	46.891	-3.5888	.18035
#3	-9.6403	-1103.8	10.698	-1.9395	-34.044	-1.8306	.41506

Elem	Tl1908
Units	ug/Liter
Avge	-10.993
SDev	41.006
%RSD	-373.03
#1	-56.982
#2	21.761
#3	2.2432

Method: CLP1100 Sample Name: XXX U 491694 #39 Operator:
Run Time: 05/21/92 02:36:42
Comment: SDG:SD0209 1:1 SD0209
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	1137.6	7.3786	4.6370	1.0126	.25596	-.31187	279.46
SDev	35.0	6.0242	11.094	.4845	.00530	2.89443	7.30
%RSD	3.0809	81.644	239.24	47.845	2.0693	-928.09	2.6109
#1	1097.7	2.3288	9.1331	.90406	.24997	-1.5935	275.86
#2	1163.4	14.047	-7.9990	.59164	.25788	3.0021	287.86
#3	1151.7	5.7604	12.777	1.5422	.26003	-2.3443	274.66

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	.10451	-.65851	-3.4657	1011.9	-15.695	-23.211	1.9457
SDev	.96241	.33998	.0000	8.0	7.112	19.426	1.6601
%RSD	920.91	-51.628	-.00089	.79248	-45.317	-83.692	85.321
#1	-.73573	-.28712	-3.4657	1006.9	-11.244	-32.898	2.9043
#2	-.10525	-.95436	-3.4657	1021.2	-11.943	-.84666	2.9040
#3	1.1545	-.73405	-3.4658	1007.8	-23.898	-35.889	.02879

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	-6.9158	401.36	2.4913	.45898	182.43	1.5606	21.638
SDev	12.7812	3101.0	19.263	2.2014	53.00	1.6198	.462
%RSD	-184.81	772.61	773.21	479.62	29.051	103.79	2.1364
#1	-21.279	3953.4	10.546	1.1653	129.75	3.3918	21.543
#2	-2.6713	-1766.0	16.420	2.2205	181.78	.97425	22.140
#3	3.2032	-983.34	-19.492	-2.0089	235.74	.31561	21.230

Elem	Tl1908
Units	ug/Liter
Avge	-5.5149
SDev	34.7547
%RSD	-630.20
#1	-45.222
#2	19.381
#3	9.2964

Method: CLP1100 Sample Name: DUP U 491696 #40 Operator:
Run Time: 05/21/92 02:43:04
Comment: SDG:SD0209 1:1 SD0209D
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	1100.0	12.355	-6.3377	1.7014	.12282	-1.6077	370.22
SDev	21.5	9.626	13.7529	.3883	.23024	1.2782	3.67
%RSD	1.9526	77.914	-217.00	22.821	187.47	-79.509	.99003
#1	1076.6	3.1694	-2.5677	1.2531	.25718	-1.4287	369.42
#2	1118.8	22.368	-21.582	1.9318	-.14304	-.42831	374.21
#3	1104.7	11.527	5.1371	1.9194	.25431	-2.9659	367.02

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1.8887	-.59673	-.00006	1135.3	1.2887	-37.077	2.7183
SDev	1.8181	.45384	6.00274	11.7	19.792	25.239	1.3280
%RSD	96.264	-76.054	-9912e3	1.0316	1535.8	-68.071	48.855
#1	.83937	-.73635	-3.4657	1122.9	24.049	-12.322	1.1848
#2	.83860	-.96437	-3.4657	1136.9	-8.3046	-36.135	3.4847
#3	3.9880	-.08949	6.9313	1146.2	-11.879	-62.773	3.4853

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	-2.9386	622.12	1.2792	1.1555	237.02	2.3597	26.576
SDev	10.5040	1333.1	16.740	.9165	25.66	1.3422	.179
%RSD	-357.45	214.29	1308.6	79.319	10.827	56.881	.67508
#1	-15.046	40.136	11.404	1.6843	208.76	1.1887	26.405
#2	3.7379	-321.09	10.477	1.6851	243.45	3.8245	26.560
#3	2.4926	2147.3	-18.043	.09718	258.86	2.0659	26.763

Elem	Tl1908
Units	ug/Liter
Avge	1.4276
SDev	15.864
%RSD	1111.2
#1	17.821
#2	.30966
#3	-13.847

Method: CLP1100 Sample Name: SPK U 491695 #41 Operator:
Run Time: 05/21/92 02:49:26
Comment: SDG:SD0209 1:1 SD0209S
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	937.12	501.74	2012.7	1983.9	50.725	53.495	224.10
SDev	15.94	5.96	14.2	15.6	.376	2.760	5.39
%RSD	1.7011	1.1886	.70744	.78394	.74085	5.1600	2.4038
#1	942.66	507.05	1996.9	1973.3	50.349	54.916	218.92
#2	949.56	502.89	2016.5	2001.8	51.100	50.314	229.67
#3	919.15	495.29	2024.6	1976.6	50.727	55.255	223.71

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	203.91	496.00	254.72	884.84	493.45	-.05011	494.69
SDev	4.48	6.31	3.00	7.89	23.05	45.5332	4.32
%RSD	2.1961	1.2715	1.1782	.89172	4.6711	-90860.	.87239
#1	198.76	491.13	251.26	881.85	478.08	-32.924	492.19
#2	206.95	503.12	256.46	893.78	519.95	51.922	499.67
#3	206.01	493.75	256.46	878.87	482.31	-19.148	492.19

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	494.47	-2167.4	1992.8	41.079	308.97	494.85	504.70
SDev	11.89	1898.4	70.8	5.595	34.74	4.85	4.42
%RSD	2.4046	-87.592	3.5514	13.621	11.244	.97961	.875
#1	492.10	-2067.0	1918.8	45.307	337.87	490.24	501.30
#2	507.36	-4114.0	2059.9	43.196	270.43	499.90	509.69
#3	483.94	-321.09	1999.6	34.734	318.60	494.41	503.10

Elem	Tl1908
Units	ug/Liter
Avge	2133.3
SDev	94.5
%RSD	4.4287
#1	2093.1
#2	2065.5
#3	2241.2

Method: CLP1100 Sample Name: XXX U 491698 #42 Operator:
Run Time: 05/21/92 02:56:55
Comment: SDG:SD0209 1:1 SD0210
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	12951.	17.866	6.5947	99.814	1.6644	-.80348	4979.4
SDev	129.	4.426	22.509	.713	.0094	1.61857	46.4
%RSD	.99367	24.772	341.32	.71430	.56429	-201.44	.93108
#1	12832.	14.597	29.042	99.258	1.6727	-1.1079	4947.4
#2	12933.	22.902	6.7173	99.567	1.6663	-2.2482	4958.2
#3	13088.	16.099	-15.975	100.62	1.6542	.94567	5032.6

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	75.140	21.858	10.395	49781.	17.171	1054.1	1908.0
SDev	1.966	.961	6.003	572.	3.493	28.0	22.3
%RSD	2.6160	4.3987	57.748	1.1490	20.341	2.6597	1.1671
#1	73.566	20.802	6.9291	49323.	13.144	1080.2	1889.6
#2	74.510	22.090	6.9290	49599.	18.989	1057.6	1901.7
#3	77.343	22.682	17.326	50422.	19.379	1024.5	1932.8

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	28.854	361.23	L-238.43	-4.1655	325.67	49.863	104.60
SDev	5.687	1913.7	13.02	2.4206	13.67	2.872	1.32
%RSD	19.709	529.76	-5.4611	-58.111	4.1980	5.7601	1.2588
#1	28.301	1725.9	L-235.00	-1.6671	337.87	47.323	103.45
#2	34.796	-1826.2	L-227.47	-4.3293	328.24	49.286	104.30
#3	23.464	1184.0	L-252.82	-6.5001	310.89	52.980	106.03

Elem	Tl1908
Units	ug/Liter
Avge	11.243
SDev	20.892
%RSD	185.83
#1	35.356
#2	-1.4518
#3	-.17550

Method: CLP1100 Sample Name: XXX U 491703 #46 Operator:
Run Time: 05/21/92 03:03:35
Comment: SDG:SD0209 1:1 SD0211
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	8390.3	30.154	31.629	43.376	1.7489	-.43211	1766.7
SDev	30.2	19.501	16.225	.158	.2224	2.38563	2.4
%RSD	.36038	64.671	51.298	.36499	12.718	-552.09	.13527
#1	8365.2	16.920	49.532	43.282	1.6162	-2.8479	1764.3
#2	8381.7	20.994	17.897	43.559	1.6248	1.9222	1766.7
#3	8423.9	52.549	27.457	43.287	2.0057	-.37063	1769.0

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	98.437	17.843	8.6611	68338.	21.999	409.62	1310.7
SDev	3.506	3.024	3.0015	136.	22.611	150.99	2.3
%RSD	3.5620	16.948	34.655	.19843	102.79	36.861	.17769
#1	95.288	15.891	12.127	68194.	16.461	340.05	1308.6
#2	97.808	16.313	6.9283	68358.	2.6708	305.96	1310.4
#3	102.22	21.327	6.9282	68463.	46.865	582.86	1313.2

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	16.819	883.00	L-340.14	-1.5800	283.92	63.945	86.864
SDev	6.607	2530.7	32.46	2.1326	23.12	1.743	.323
%RSD	39.281	286.61	-9.5435	-134.97	8.1448	2.7262	.37180
#1	16.127	1003.4	L-377.54	-1.9218	260.79	64.612	86.503
#2	10.585	3351.4	L-323.60	-3.5210	283.92	61.967	86.967
#3	23.744	-1705.8	L-319.29	.70284	307.04	65.256	87.123

Elem	Tl1908
Units	ug/Liter
Avge	-22.906
SDev	41.167
%RSD	-179.72
#1	15.724
#2	-18.233
#3	-66.210

Method: CLP1100 Sample Name: XXX U 491704 #47 Operator:
Run Time: 05/21/92 03:09:56
Comment: SDG:SD0209 1:1 SD0212
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	16007.	3.7205	27.262	157.23	3.1102	-.57018	3335.4
SDev	100.	9.1178	34.896	2.01	.5882	1.33994	20.8
%RSD	.62512	245.07	128.00	1.2795	18.913	-235.00	.62368
#1	15898.	-3.4654	-12.498	155.06	3.2381	.20365	3311.4
#2	16027.	13.977	52.806	157.60	2.4686	-2.1174	3348.6
#3	16095.	.64952	41.478	159.04	3.6240	.20322	3346.2

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	52.888	29.213	51.984	43525.	32.726	1423.0	901.13
SDev	2.049	3.289	3.001	260.	5.844	101.5	4.33
%RSD	3.8733	11.258	5.7737	.59694	17.857	7.1326	.47999
#1	50.894	26.907	53.717	43250.	26.710	1433.6	896.91
#2	52.784	27.753	48.518	43561.	33.088	1316.5	900.94
#3	54.987	32.979	53.717	43766.	38.381	1518.7	905.55

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	68.399	260.89	L-150.26	7.1989	414.95	46.810	168.28
SDev	5.818	2957.0	38.88	1.0520	56.15	3.045	.98
%RSD	8.5060	1133.4	-25.878	14.614	13.531	6.5043	.58280
#1	61.681	2087.1	L-193.81	7.2189	353.29	47.630	167.21
#2	71.787	-3150.7	L-119.01	6.1371	463.13	43.440	168.50
#3	71.729	1846.3	L-137.97	8.2409	428.44	49.361	169.13

Elem	Tl1908
Units	ug/Liter
Avge	-7.4286
SDev	55.7782
%RSD	-750.86
#1	-20.177
#2	-55.729
#3	53.620

Method: CLP1100 Sample Name: XXX U 491705 #48 Operator:
Run Time: 05/21/92 03:16:19
Comment: SDG:SD0209 1:1 SD0213
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	9497.7	12.404	5.0146	125.16	1.7425	-.76808	37706.
SDev	33.3	12.076	16.209	.03	.0033	1.04295	57.
%RSD	.35028	97.355	323.22	.02630	.19031	-135.79	.15171
#1	9461.8	-.05598	-1.0045	125.20	1.7463	-1.4086	37655.
#2	9527.4	13.213	-7.3231	125.14	1.7406	-1.3311	37695.
#3	9504.0	24.055	23.372	125.14	1.7406	.43538	37768.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	32.636	18.386	48.519	29468.	91.314	4187.6	1024.8
SDev	1.136	1.654	.000	23.	3.353	43.9	.9
%RSD	3.4797	8.9957	.00007	.07821	3.6715	1.0476	.08568
#1	33.896	18.168	48.519	29448.	94.348	4158.6	1024.0
#2	31.691	20.138	48.519	29462.	91.880	4166.1	1025.8
#3	32.321	16.852	48.519	29493.	87.715	4238.1	1024.6

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	39.828	2548.7	L-143.78	-3.2847	435.51	25.985	669.49
SDev	5.533	3041.6	24.47	.3059	31.39	1.014	2.72
%RSD	13.893	119.34	-17.016	-9.3119	7.2075	3.9026	.40597
#1	42.034	5880.0	L-127.29	-2.9315	399.54	24.814	666.51
#2	33.532	1846.3	L-132.16	-3.4603	457.35	26.571	670.10
#3	43.918	-80.273	L-171.89	-3.4623	449.64	26.570	671.84

Elem	Tl1908
Units	ug/Liter
Avge	-23.323
SDev	30.631
%RSD	-131.33
#1	-47.302
#2	-33.851
#3	11.184

Method: CLP1100 Sample Name: XXX U 491706 #49 Operator:
Run Time: 05/21/92 03:22:40
Comment: SDG:SD0209 1:1 SD0214
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	57430.	1.3488	41.028	149.54	3.9560	-.22965	4337.3
SDev	170.	3.3548	19.771	1.31	.0058	2.75951	2.8
%RSD	.29653	248.72	48.190	.87472	.14671	-1201.6	.06384
#1	57342.	-2.2390	61.924	149.49	3.9565	.69859	4335.7
#2	57626.	4.4077	38.546	150.87	3.9616	-3.3336	4340.5
#3	57321.	1.8778	22.615	148.25	3.9500	1.9461	4335.7

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	120.48	33.620	103.97	77591.	213.24	2391.2	712.14
SDev	1.92	.361	6.00	259.	15.24	38.0	3.78
%RSD	1.5895	1.0724	5.7737	.33346	7.1447	1.5885	.53074
#1	121.74	33.836	110.90	77590.	196.20	2348.2	712.72
#2	118.28	33.821	100.50	77851.	217.95	2405.2	715.60
#3	121.42	33.204	100.50	77333.	225.56	2420.3	708.11

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	124.56	4033.7	L-353.54	-4.5200	376.41	67.580	412.42
SDev	5.25	2379.7	7.13	2.1558	8.83	1.775	.57
%RSD	4.2121	58.995	-2.0156	-47.694	2.3460	2.6264	.13741
#1	129.31	6361.6	L-358.92	-4.1673	374.49	67.433	411.87
#2	125.45	4134.1	L-345.46	-6.8303	386.05	65.883	413.00
#3	118.93	1605.5	L-356.24	-2.5623	368.71	69.424	412.39

Elem	Tl1908
Units	ug/Liter
Avge	-5.1994
SDev	38.8635
%RSD	-747.46
#1	-18.449
#2	-35.706
#3	38.556

Method: CLP1100 Sample Name: XXX S 491698 #43 Operator:
Run Time: 05/21/92 03:31:19
Comment: SDG:SD0209 1:5 SD0210L
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	2823.8	24.173	-1.0447	21.901	.74857	-.70672	1093.0
SDev	22.1	11.074	1.4226	.950	.21617	.70698	9.1
%RSD	.78357	45.809	-136.17	4.3386	28.878	-100.04	.83043
#1	2848.8	31.391	.08064	22.464	.99814	-.71843	1103.4
#2	2806.6	29.706	-.57110	20.804	.62736	.00604	1089.0
#3	2816.0	11.424	-2.6437	22.435	.62020	-1.4078	1086.6

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	19.415	8.6162	-.00062	10797.	7.4527	257.07	412.88
SDev	1.966	2.7237	6.00278	79.	24.221	133.28	1.45
%RSD	10.126	31.611	-966260.	.73003	325.00	51.844	.35042
#1	20.044	10.505	6.9308	10835.	26.959	387.01	414.41
#2	17.212	5.4940	-3.4663	10706.	15.058	263.52	412.68
#3	20.990	9.8499	-3.4664	10849.	-19.659	120.69	411.54

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	9.4163	321.09	-24.177	4.5368	312.82	10.589	23.752
SDev	6.3448	697.79	25.307	2.7157	23.44	3.234	.733
%RSD	67.380	217.32	-104.67	59.859	7.4942	30.537	3.0874
#1	15.124	1123.8	-48.935	6.8270	301.26	14.102	24.599
#2	2.5847	-20.068	-25.242	5.2466	297.40	7.7377	23.346
#3	10.540	-140.48	1.6455	1.5367	339.80	9.9271	23.312

Elem	Tl1908
Units	ug/Liter
Avge	2.4709
SDev	44.754
%RSD	1811.3
#1	14.073
#2	-46.942
#3	40.282

Method: CLP1100 Sample Name: CCV Operator:
Run Time: 05/21/92 03:37:41
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	5351.0	5288.7	5282.5	5159.4	5111.7	5155.2	50868.
SDev	78.6	89.0	129.3	60.7	96.5	74.0	978.
%RSD	1.4682	1.6829	2.4482	1.1761	1.8873	1.4356	1.9227
#1	5427.7	5385.5	5427.3	5223.3	5221.6	5236.7	51989.
#2	5270.7	5210.3	5178.5	5102.6	5041.3	5092.1	50190.
#3	5354.6	5270.2	5241.7	5152.3	5072.1	5136.9	50426.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	5051.5	5061.5	5169.0	5071.2	5053.2	51782.	5071.9
SDev	91.0	95.9	68.2	91.3	103.9	741.	83.7
%RSD	1.8022	1.8949	1.3189	1.7995	2.0553	1.4311	1.6505
#1	5155.0	5169.9	5241.7	5175.1	5170.5	52628.	5167.3
#2	4984.1	4987.8	5106.6	5004.3	4973.1	51251.	5010.9
#3	5015.3	5026.8	5158.6	5034.1	5016.0	51466.	5037.4

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	5007.1	50692.	5070.5	516.75	51827.	5103.7	5122.1
SDev	109.4	844.	141.5	10.44	597.	90.1	84.7
%RSD	2.1858	1.6641	2.7906	2.0210	1.1513	1.7658	1.6539
#1	5121.8	51515.	5197.2	526.32	52501.	5205.9	5217.9
#2	4903.8	50732.	4917.8	505.61	51364.	5035.7	5057.0
#3	4995.6	49829.	5096.6	518.32	51618.	5069.5	5091.5

Elem	Tl1908
Units	ug/Liter
Avge	5312.4
SDev	37.8
%RSD	.71210
#1	5329.0
#2	5269.1
#3	5339.1

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Method: CLP1100 Sample Name: CCB Operator:
Run Time: 05/21/92 03:45:10
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	7.0368	17.365	7.5188	.34157	.39160	-3.0096	9.1922
SDev	6.1913	9.955	6.9405	1.0715	.21759	1.3441	3.6542
%RSD	87.985	57.330	92.310	313.71	55.565	-44.661	39.753
#1	9.3445	23.063	13.716	1.5613	.64285	-1.6538	13.178
#2	.02306	5.8696	.01931	-.08826	.26705	-4.3417	8.3975
#3	11.743	23.161	8.8211	-.44831	.26490	-3.0332	6.0008

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1.2596	.95206	-1.7329	3.9762	-1.2001	40.358	.00008
SDev	4.5877	3.1613	3.0013	3.1883	14.3378	110.35	.00006
%RSD	364.23	332.04	-173.19	80.183	-1194.7	273.42	73.679
#1	6.5069	4.5939	1.7326	5.6647	15.352	163.14	.00012
#2	-1.9938	-.65375	-3.4657	.29884	-9.7752	-50.523	.00001
#3	-.73441	-1.0840	-3.4657	5.9651	-9.1772	8.4560	.00010

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	-9.6255	883.00	2.5449	4.0535	31.475	-.00039	.77947
SDev	13.1788	217.07	22.673	3.0069	20.844	2.62039	.46964
%RSD	-136.92	24.583	890.90	74.179	66.224	-675730.	60.252
#1	-17.464	1063.6	-21.408	4.9359	54.599	3.0014	1.3155
#2	5.5897	642.18	5.3699	.70422	25.694	-1.8306	.58234
#3	-17.002	943.21	23.673	6.5205	14.132	-1.1720	.44051

Elem	Tl1908
Units	ug/Liter
Avge	-1.8029
SDev	1.7880
%RSD	-99.178
#1	-3.8316
#2	-1.1208
#3	-.45623

Method: CLP1100 Sample Name: XXX U 491707 #50 Operator:
Run Time: 05/21/92 03:54:05
Comment: SDG:SD0209 1:1 SD0215
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	23578.	12.242	19.540	223.64	2.8528	.01759	10360.
SDev	104.	5.324	14.146	1.55	.0065	2.4010	41.
%RSD	.44311	43.485	72.396	.69378	.22810	13650.	.39769
#1	23471.	15.350	34.944	221.95	2.8465	-2.6035	10312.
#2	23584.	15.282	16.547	223.98	2.8523	.54568	10383.
#3	23680.	6.0954	7.1302	224.99	2.8595	2.1106	10384.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	49.215	36.116	53.717	39399.	104.62	2830.1	3233.5
SDev	2.546	1.720	5.199	173.	9.65	50.2	14.6
%RSD	5.1724	4.7626	9.6779	.44035	9.2259	1.7728	.45156
#1	46.485	34.167	58.916	39208.	111.13	2861.1	3217.2
#2	51.524	37.421	48.518	39441.	109.20	2856.9	3237.9
#3	49.635	36.761	53.717	39547.	93.532	2772.2	3245.4

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	67.705	3231.0	L-186.81	-3.2651	406.60	45.699	285.35
SDev	6.815	1202.6	32.27	2.4935	37.78	1.990	2.13
%RSD	10.066	37.220	-17.276	-76.369	9.2912	4.3545	.74634
#1	70.263	4555.5	L-212.90	-5.1895	441.93	47.613	282.89
#2	72.872	2207.5	L-150.72	-.44810	366.78	45.843	286.67
#3	59.981	2930.0	L-196.83	-4.1578	411.10	43.641	286.48

Elem	Tl1908
Units	ug/Liter
Avge	3.3691
SDev	28.598
%RSD	848.85
#1	-6.8904
#2	-18.684
#3	35.682

Method: CLP1100 Sample Name: XXX U 491708 #51 Operator:
Run Time: 05/21/92 04:00:27
Comment: SDG:SD0209 1:1 SD0216
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	16730.	15.346	31.808	110.52	4.3375	.34475	12504.
SDev	112.	7.168	18.798	.69	.0026	.75407	119.
%RSD	.66842	46.711	59.098	.62319	.05997	218.73	.95454
#1	16631.	12.048	10.111	109.98	4.3376	.63044	12400.
#2	16708.	10.420	42.127	110.28	4.3348	-.51042	12476.
#3	16851.	23.569	43.188	111.30	4.3400	.91423	12634.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	75.868	46.123	79.709	110890.	69.178	2740.8	2338.0
SDev	1.454	1.981	5.199	807.	5.264	35.8	16.7
%RSD	1.9170	4.2947	6.5219	.72764	7.6099	1.3058	.71518
#1	74.189	45.599	79.709	110180.	67.157	2718.3	2323.4
#2	76.708	44.456	74.510	110730.	65.223	2721.9	2334.4
#3	76.708	48.313	84.908	111770.	75.153	2782.0	2356.3

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	90.903	1585.4	L-547.41	-8.7856	583.25	70.682	258.96
SDev	9.625	2924.9	39.44	.7804	42.32	.796	2.30
%RSD	10.588	184.49	-7.2040	-8.8827	7.2562	1.1256	.88674
#1	81.596	1063.6	L-561.67	-9.6168	534.43	70.645	256.97
#2	100.82	4736.1	L-577.73	-8.0687	605.73	71.495	258.43
#3	90.295	-1043.5	L-502.83	-8.6712	609.58	69.906	261.47

Elem	Tl1908
Units	ug/Liter
Avge	-25.560
SDev	56.395
%RSD	-220.64
#1	34.500
#2	-33.794
#3	-77.385

Method: CLP1100 Sample Name: XXX U 491709 #52 Operator:
Run Time: 05/21/92 04:06:48
Comment: SDG:SD0209 1:1 SD0217
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	77704.	22.748	20.607	448.23	6.4125	-2.6953	11710.
SDev	106.	13.512	19.142	.55	.2169	2.1348	104.
%RSD	.13639	59.395	92.892	.12318	3.3824	-79.206	.89111
#1	77774.	37.407	20.169	448.56	6.5483	-.99613	11814.
#2	77755.	10.793	39.964	448.54	6.5267	-1.9981	11711.
#3	77582.	20.045	1.6873	447.59	6.1623	L-5.0915	11605.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	74.701	77.704	17.326	82092.	65.861	5146.8	1774.4
SDev	1.487	1.992	5.199	522.	7.637	43.7	12.7
%RSD	1.9904	2.5633	30.004	.63541	11.596	.84857	.71506
#1	74.177	79.412	12.128	82591.	73.715	5196.2	1786.7
#2	76.379	75.516	22.525	82135.	65.408	5131.0	1775.2
#3	73.547	78.185	17.326	81550.	58.461	5113.3	1761.4

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	51.660	4254.5	L-338.65	-.75337	642.99	114.75	380.35
SDev	4.861	1707.1	22.65	3.15492	60.40	4.39	1.85
%RSD	9.4103	40.125	-6.6870	-418.77	9.3933	3.8296	.48697
#1	55.461	2327.9	L-364.19	2.3833	588.39	113.11	382.23
#2	46.182	5579.0	L-321.02	-3.9262	707.86	119.72	380.28
#3	53.335	4856.5	L-330.73	-.71717	632.71	111.40	378.53

Elem	Tl1908
Units	ug/Liter
Avge	-2.9628
SDev	80.8614
%RSD	-2729.2
#1	77.820
#2	-2.8055
#3	-83.903

Method: CLP1100 Sample Name: XXX U 491710 #53 Operator:
Run Time: 05/21/92 04:13:10
Comment: SDG:SD0209 1:1 SD0218
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	75157.	1.2732	24.126	377.11	4.5672	.15655	9956.5
SDev	811.	10.120	9.897	3.20	.2293	2.4348	127.6
%RSD	1.0789	794.92	41.021	.84958	5.0216	1555.3	1.2818
#1	74231.	-6.0917	12.733	373.58	4.4399	-2.3504	9809.4
#2	75742.	-2.9022	29.046	379.84	4.4297	2.5122	10037.
#3	75498.	12.813	30.598	377.90	4.8319	.30791	10023.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	118.77	132.31	46.783	139710.	95.879	5079.9	897.67
SDev	2.10	1.07	3.001	1723.	4.965	107.3	9.55
%RSD	1.7656	.80491	6.4155	1.2334	5.1780	2.1126	1.0642
#1	118.25	132.69	43.318	137760.	101.61	4963.2	887.05
#2	116.99	131.11	48.516	141040.	92.831	5174.3	905.58
#3	121.08	133.14	48.516	140320.	93.198	5102.3	900.37

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	57.789	4475.2	L-643.64	L-10.229	553.06	160.12	719.67
SDev	7.786	2314.0	62.03	4.561	49.52	1.85	8.34
%RSD	13.473	51.708	-9.6380	-44.591	8.9537	1.1530	1.1587
#1	50.904	2388.1	L-714.68	-8.3307	582.61	159.12	710.28
#2	66.239	4073.9	L-600.19	L-15.432	580.68	162.25	726.21
#3	56.224	6963.7	L-616.05	-6.9232	495.89	158.99	722.52

Elem	Tl1908
Units	ug/Liter
Avge	18.607
SDev	14.928
%RSD	80.226
#1	4.1249
#2	33.944
#3	17.753

Method: CLP1100 Sample Name: XXX U 491711 #54 Operator:
Run Time: 05/21/92 04:19:32
Comment: SDG:SD0209 1:1 SD0245
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	22648.	14.756	27.767	235.45	2.8277	-.32685	11258.
SDev	76.	8.532	16.367	.74	.0067	2.10648	29.
%RSD	.33728	57.823	58.945	.31273	.23534	-644.47	.26147
#1	22575.	12.586	12.085	234.60	2.8239	.61898	11242.
#2	22727.	7.5186	44.743	235.83	2.8354	-2.7405	11292.
#3	22643.	24.164	26.473	235.92	2.8239	1.1409	11241.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	142.84	36.724	86.638	49875.	324.23	2921.8	2313.0
SDev	2.18	.337	3.001	118.	6.53	34.9	6.6
%RSD	1.5269	.91752	3.4644	.23638	2.0139	1.1956	.28721
#1	144.10	36.798	84.905	49804.	327.11	2936.6	2309.2
#2	140.32	36.356	90.104	50011.	316.75	2881.9	2320.7
#3	144.10	37.018	84.905	49809.	328.82	2946.9	2309.2

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	78.377	1926.6	L-196.93	-3.2946	486.90	53.363	354.45
SDev	11.083	1946.5	15.03	2.7428	34.97	2.035	.41
%RSD	14.140	101.04	-7.6313	-83.249	7.1824	3.8137	.11550
#1	88.326	3050.4	L-183.48	-6.4617	449.64	54.538	354.20
#2	66.432	-321.09	L-213.15	-1.7190	519.01	51.013	354.92
#3	80.372	3050.4	L-194.16	-1.7032	492.03	54.538	354.23

Elem	Tl1908
Units	ug/Liter
Avge	10.826
SDev	45.187
%RSD	417.38
#1	-26.985
#2	60.870
#3	-1.4057

Method: CLP1100 Sample Name: XXX U 491712 #55 Operator:
Run Time: 05/21/92 04:25:53
Comment: SDG:SD0209 1:1 SD0246
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	41721.	8.5224	42.486	399.84	4.0421	.96467	10539.
SDev	234.	19.205	15.067	3.09	.2279	2.5568	70.
%RSD	.56106	225.35	35.463	.77237	5.6389	265.04	.66336
#1	41549.	28.265	27.092	397.74	3.9108	-.99419	10473.
#2	41626.	7.3980	57.203	398.40	4.3053	.03120	10531.
#3	41987.	-10.096	43.162	403.39	3.9102	3.8570	10612.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	678.67	32.865	131.68	64675.	268.33	4098.5	2034.6
SDev	4.23	.463	5.20	469.	10.47	24.8	15.5
%RSD	.62306	1.4094	3.9481	.72566	3.9003	.60517	.76247
#1	675.63	32.531	136.87	64312.	278.93	4113.2	2021.0
#2	676.89	33.394	131.68	64508.	268.07	4069.9	2031.3
#3	683.50	32.671	126.48	65205.	258.00	4112.4	2051.5

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	134.96	3251.1	L-317.95	-5.0357	552.42	81.178	664.42
SDev	8.24	821.8	32.60	2.0270	26.59	.570	4.64
%RSD	6.1029	25.279	-10.253	-40.254	4.8126	.70218	.69788
#1	140.26	4194.3	L-292.30	-2.7189	542.14	81.416	660.41
#2	125.47	2869.8	L-354.63	-5.9055	532.50	80.527	663.35
#3	139.14	2689.1	L-306.91	-6.4826	582.61	81.590	669.50

Elem	Tl1908
Units	ug/Liter
Avge	5.7218
SDev	43.394
%RSD	758.40
#1	19.790
#2	40.336
#3	-42.961

Method: CLP1100 Sample Name: XXX U 491713 #58 Operator:
Run Time: 05/21/92 04:32:43
Comment: SDG:SD0209 1:1 SD0247
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	41347.	20.771	38.234	403.51	4.1708	.07569	11158.
SDev	99.	8.185	17.712	1.50	.2267	1.5822	38.
%RSD	.24032	39.404	46.324	.37241	5.4363	2090.4	.33836
#1	41313.	30.023	39.398	403.39	4.2999	.28521	11200.
#2	41268.	14.473	19.970	402.07	3.9090	-1.6008	11147.
#3	41458.	17.818	55.335	405.07	4.3035	1.5427	11127.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	326.83	51.914	157.68	80803.	393.70	4124.0	2491.4
SDev	2.93	1.518	5.20	227.	11.11	80.8	5.6
%RSD	.89518	2.9231	3.2969	.28081	2.8228	1.9599	.22295
#1	330.19	53.429	162.88	81065.	381.38	4031.9	2497.8
#2	325.47	50.394	157.68	80677.	402.97	4183.0	2487.4
#3	324.84	51.919	152.48	80667.	396.74	4157.1	2489.1

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	157.60	3030.3	L-369.77	-5.2745	567.19	81.743	738.16
SDev	14.74	3074.8	47.14	.7930	24.07	.573	1.37
%RSD	9.3536	101.47	-12.748	-15.034	4.2435	.70151	.18524
#1	140.68	6542.2	L-414.48	-4.4113	559.48	82.168	739.08
#2	164.46	1725.9	L-320.53	-5.9706	594.17	81.969	738.81
#3	167.66	822.80	L-374.29	-5.4415	547.92	81.091	736.59

Elem	Tl1908
Units	ug/Liter
Avge	-11.127
SDev	59.193
%RSD	-532.00
#1	55.254
#2	-30.209
#3	-58.424

Method: CLP1100 Sample Name: XXX U 491714 #59 Operator:
Run Time: 05/21/92 04:39:04
Comment: SDG:SD0209 1:1 SD0248
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	11811.	6.3441	-2.6566	250.72	2.9293	-1.3865	3010.4
SDev	69.	7.1632	9.7561	1.66	.2253	1.8619	16.6
%RSD	.58166	112.91	-367.23	.66356	7.6920	-134.29	.55224
#1	11783.	4.9763	-9.3989	250.50	2.7978	-3.4671	3020.0
#2	11760.	14.093	8.5303	249.18	2.8006	-.81562	2991.2
#3	11889.	-.03669	-7.1014	252.48	3.1895	.12314	3019.9

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	80.174	37.612	17.326	57524.	24.386	1074.4	1007.8
SDev	1.135	1.512	.000	418.	3.854	46.3	7.8
%RSD	1.4163	4.0187	.00021	.72678	15.803	4.3057	.77632
#1	79.229	36.449	17.326	57514.	20.235	1095.9	1006.8
#2	81.434	39.321	17.326	57110.	25.073	1106.1	1000.5
#3	79.859	37.067	17.326	57946.	27.850	1021.3	1016.0

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	54.794	2047.0	L-246.79	2.1726	346.87	62.218	161.61
SDev	2.263	801.7	16.32	7.2440	30.73	.490	1.30
%RSD	4.1307	39.167	-6.6109	333.42	8.8599	.78718	.80174
#1	55.266	2568.7	L-242.23	-1.1753	355.22	62.512	161.61
#2	52.332	2448.3	L-233.24	10.485	372.56	61.653	160.32
#3	56.785	1123.8	L-264.90	-2.7919	312.82	62.490	162.91

Elem	Tl1908
Units	ug/Liter
Avge	-13.565
SDev	32.502
%RSD	-239.61
#1	-22.528
#2	-40.644
#3	22.478

Method: CLP1100 Sample Name: XXX U 491715 #60 Operator:
Run Time: 05/21/92 04:45:26
Comment: SDG:SD0209 1:1 SD0249
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	35716.	13.284	40.734	359.19	3.9371	-.48007	15148.
SDev	110.	11.571	18.877	1.52	.0022	1.69356	75.
%RSD	.30866	87.104	46.342	.42317	.05627	-352.77	.49598
#1	35712.	26.523	33.853	360.06	3.9393	-1.8430	15201.
#2	35827.	8.2235	26.263	360.07	3.9371	-1.0131	15181.
#3	35607.	5.1056	62.086	357.43	3.9348	1.4159	15062.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	98.855	62.257	76.243	72987.	200.27	3875.2	4330.5
SDev	2.384	2.069	3.001	396.	7.99	2.5	22.6
%RSD	2.4119	3.3227	3.9367	.54188	3.9892	.06498	.52293
#1	97.175	64.643	79.708	73271.	207.25	3872.3	4346.6
#2	101,58	61.152	74.510	73154.	191.56	3876.1	4340.3
#3	97.805	60.975	74.510	72535.	201.99	3877.1	4304.6

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	113.01	5839.9	L-339.56	-4.0181	441.29	73.379	423.97
SDev	11.97	941.1	7.49	1.8300	34.54	.678	1.06
%RSD	10.589	16.115	-2.2063	-45.545	7.8279	.92330	.24999
#1	104.73	4976.9	L-335.87	-2.2759	401.46	72.706	424.78
#2	107.58	6843.3	L-348.18	-3.8535	459.28	73.371	424.35
#3	126.73	5699.4	L-334.63	-5.9248	463.13	74.061	422.77

Elem	Tl1908
Units	ug/Liter
Avge	18.080
SDev	39.629
%RSD	219.18
#1	62.920
#2	-12.245
#3	3.5648

Method: CLP1100 Sample Name: XXX U 491716 #61 Operator:
Run Time: 05/21/92 04:51:47
Comment: SDG:SD0209 1:1 SD0250
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	27150.	12.966	33.012	295.45	3.5927	1.0650	10051.
SDev	89.	9.096	26.584	.69	.0039	2.5572	30.
%RSD	.32954	70.153	80.527	.23356	.10946	240.10	.29572
#1	27066.	18.153	23.681	294.68	3.5973	1.1739	10024.
#2	27141.	18.282	12.352	295.65	3.5908	-1.5448	10046.
#3	27244.	2.4631	63.003	296.02	3.5901	3.5661	10083.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	98.019	51.700	53.715	60254.	144.79	2665.7	3684.0
SDev	2.857	1.631	5.198	145.	14.40	85.3	8.1
%RSD	2.9147	3.1544	9.6778	.24013	9.9431	3.2000	.21883
#1	95.920	49.972	48.517	60095.	128.77	2584.1	3675.7
#2	96.864	51.915	53.715	60289.	148.99	2658.7	3684.3
#3	101.27	53.213	58.914	60377.	156.63	2754.3	3691.8

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	99.292	3271.1	L-301.44	.39136	435.51	58.930	316.45
SDev	17.128	1515.1	46.58	2.1296	20.24	1.203	1.22
%RSD	17.250	46.318	-15.453	544.16	4.6478	2.0409	.38460
#1	79.621	4675.9	L-316.82	-.83174	414.95	57.546	315.07
#2	107.36	3471.8	L-338.39	-.84461	455.42	59.514	316.94
#3	110.90	1665.7	L-249.12	2.8504	436.15	59.729	317.35

Elem	Tl1908
Units	ug/Liter
Avge	13.815
SDev	28.600
%RSD	207.03
#1	-19.133
#2	28.331
#3	32.246

Method: CLP1100 Sample Name: CCV Operator:
Run Time: 05/21/92 04:58:50
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	5474.0	5427.2	5382.6	5293.5	5351.9	5292.0	53201.
SDev	18.2	72.5	51.6	46.9	97.3	39.9	829.
%RSD	.33207	1.3352	.95858	.88622	1.8178	.75404	1.5580
#1	5471.8	5382.3	5330.2	5254.5	5266.2	5259.7	52444.
#2	5457.1	5388.5	5384.2	5280.5	5331.8	5279.7	53072.
#3	5493.2	5510.8	5433.3	5345.6	5457.6	5336.6	54087.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	5263.1	5274.1	5297.2	5277.0	5278.9	53415.	5284.4
SDev	79.1	69.7	48.3	79.0	71.6	449.	75.2
%RSD	1.5030	1.3222	.91181	1.4972	1.3561	.83974	1.4238
#1	5193.8	5210.7	5257.3	5209.4	5216.0	53014.	5216.2
#2	5246.3	5262.9	5283.3	5257.7	5263.9	53331.	5272.0
#3	5349.3	5348.8	5350.9	5363.9	5356.8	53899.	5365.1

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	5301.7	52218.	5196.9	525.66	53200.	5290.6	5298.8
SDev	87.1	368.	43.6	7.54	467.	67.8	56.3
%RSD	1.6431	.70447	.83857	1.4342	.87785	1.2817	1.0625
#1	5233.6	51816.	5191.5	518.94	52788.	5233.6	5251.5
#2	5271.6	52298.	5156.2	524.24	53104.	5272.7	5283.8
#3	5399.8	52539.	5242.9	533.81	53707.	5365.6	5361.0

Elem	Tl1908
Units	ug/Liter
Avge	5274.1
SDev	91.4
%RSD	1.7328
#1	5372.8
#2	5257.1
#3	5192.4

Method: CLP1100 Sample Name: CCB Operator:
Run Time: 05/21/92 05:06:19
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	-4.6722	16.877	-.94138	-.20775	.26609	-2.8852	-15.593
SDev	8.4728	14.868	3.98485	.20605	.00652	1.2053	9.056
%RSD	-181.34	88.099	-423.30	-99.180	2.4494	-41.773	-58.079
#1	2.3936	22.406	-.95501	-.10229	.27352	-3.6164	-5.9955
#2	-14.066	28.188	3.0503	-.44519	.26346	-1.4941	-16.796
#3	-2.3447	.03608	-4.9194	-.07578	.26130	-3.5452	-23.988

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	.31534	.29389	-3.4657	-3.0820	-23.720	-178.46	.19158
SDev	2.5641	.98357	.0001	.9109	12.633	64.88	.33203
%RSD	813.12	334.68	-.00237	-29.556	-53.260	-36.355	173.31
#1	-2.6230	-.64863	-3.4656	-3.2799	-10.371	-109.05	-.00018
#2	1.4697	1.3139	-3.4658	-3.8776	-25.299	-237.58	.57498
#3	2.0993	.21636	-3.4658	-2.0884	Q-35.489	-188.76	-.00006

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	.01746	-642.18	13.560	1.7622	-26.336	-1.5378	-.28198
SDev	10.382	1696.80	13.749	2.4231	6.675	1.9932	.61751
%RSD	59464.	-264.22	101.39	137.50	-25.347	-129.61	-218.99
#1	-8.1544	-80.273	28.941	1.2322	-30.190	-3.8077	.41247
#2	-3.4922	702.39	2.4621	4.4064	-18.628	-.73238	-.48913
#3	11.699	-2548.7	9.2785	-.35203	-30.190	-.07345	-.76928

Elem	Tl1908
Units	ug/Liter
Avge	-24.451
SDev	14.284
%RSD	-58.420
#1	-28.710
#2	-8.5212
#3	-36.120

Method: CLP1100 Sample Name: CRI Operator:
Run Time: 05/21/92 05:13:03
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	-10.747	114.47	Q41.058	.11427	10.891	9.3457	-23.976
SDev	7.022	7.04	10.816	.78211	.004	1.9349	1.823
%RSD	-65.339	6.1534	26.343	684.43	.04011	20.704	-7.6038
#1	-3.7208	121.41	47.244	.95416	10.888	9.5154	-21.984
#2	-17.765	107.32	47.362	-.01822	10.896	Q7.3316	-25.562
#3	-10.756	114.67	Q28.569	-.59313	10.888	11.190	-24.381

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	22.433	105.38	50.252	-1.0009	47.999	-9.2061	32.006
SDev	3.690	3.31	7.941	4.0592	10.889	173.490	.332
%RSD	16.449	3.1388	15.802	-405.58	22.686	-1884.5	1.0369
#1	Q26.631	107.70	58.916	3.5710	59.744	185.49	31.623
#2	19.704	101.59	48.519	-2.3919	Q38.238	-147.40	32.198
#3	20.963	106.84	43.321	-4.1817	46.017	-65.712	32.198

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	75.721	-501.71	123.76	21.027	-39.183	102.53	41.628
SDev	14.964	3123.69	4.92	2.137	65.670	1.34	.078
%RSD	19.763	-622.61	3.9753	10.162	-167.60	1.3030	.18644
#1	89.246	461.57	118.32	23.495	23.767	103.40	41.551
#2	78.271	2026.9	125.06	19.793	-34.044	100.99	41.628
#3	Q59.645	-3993.6	127.90	19.794	-107.27	103.19	41.706

Elem	Tl1908
Units	ug/Liter
Avge	166.00
SDev	41.87
%RSD	25.225
#1	Q214.22
#2	144.92
#3	138.86

Method: CLP1100 Sample Name: ICSA Operator:
Run Time: 05/21/92 05:19:25
Comment: ICSA 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	529040.	43.877	63.699	5.0954	.30065	-2.0763	507970.
SDev	2933.	13.166	11.780	.3838	.00805	2.1731	1611.
%RSD	.55436	30.006	18.494	7.5330	2.6766	-104.67	.31711
#1	525770.	41.375	55.523	5.4993	.29316	-4.3868	507240.
#2	531430.	32.142	58.372	4.7354	.30916	-.07332	509820.
#3	529930.	58.114	77.202	5.0514	.29962	-1.7687	506850.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	-.83714	-9.5474	3.4657	195220.	1.1189	522470.	12.372
SDev	3.30797	1.7683	6.0029	672.	7.8939	2681.	.029
%RSD	-395.15	-18.522	173.21	.34444	705.53	.51317	.23132
#1	-.73472	-10.170	6.9315	194840.	9.9633	519470.	12.400
#2	2.4184	-10.920	-3.4658	196000.	-5.2126	524650.	12.374
#3	-4.1951	-7.5520	6.9316	194820.	-1.3942	523280.	12.342

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	-7.4602	-521.77	-1118.3	-14.377	72.585	-12.104	-22.698
SDev	8.0825	944.91	37.0	3.077	17.379	2.461	.861
%RSD	-108.34	-181.10	-3.3050	-21.406	23.943	-20.330	-3.7926
#1	-14.771	-1585.4	-1097.9	-16.112	89.286	-9.8153	-21.705
#2	-8.8293	-200.68	-1160.9	-16.195	73.869	-14.707	-23.226
#3	1.2194	220.75	-1096.0	-10.824	54.599	-11.791	-23.164

Elem	Tl1908
Units	ug/Liter
Avge	23.347
SDev	56.477
%RSD	241.90
#1	-41.133
#2	64.035
#3	47.139

Method: CLP1100 Sample Name: ICSAB Operator:
Run Time: 05/21/92 05:25:46
Comment: ICSAB 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	513610.	18.913	53.673	501.90	481.83	994.55	478170.
SDev	1047.	22.534	28.676	.47	1.20	6.80	727.
%RSD	.20383	119.15	53.427	.09283	.24929	.68397	.15202
#1	513910.	23.983	78.808	501.51	483.15	988.63	478850.
#2	514460.	38.481	59.774	502.41	480.79	1002.0	477400.
#3	512440.	-5.7240	22.438	501.76	481.57	993.04	478240.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	466.32	455.23	505.98	185250.	944.08	503560.	482.46
SDev	2.93	2.77	.00	177.	7.21	641.	1.72
%RSD	.62752	.60802	.00002	.09534	.76335	.12721	.35561
#1	469.58	457.35	505.98	185370.	942.49	503840.	484.19
#2	463.91	452.10	505.98	185050.	951.95	504020.	482.44
#3	465.48	456.25	505.98	185330.	937.80	502830.	480.76

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	948.16	-140.48	-1069.7	1004.1	6.4234	466.99	981.60
SDev	25.54	1478.39	39.3	2.0	34.093	1.90	.86
%RSD	2.6940	-1052.4	-3.6701	.20062	530.75	.40619	.08756
#1	923.87	-501.71	-1089.4	1002.7	.64234	464.93	980.79
#2	974.79	-1404.8	-1024.5	1006.4	-24.409	467.37	981.52
#3	945.82	1485.0	-1095.1	1003.2	43.037	468.67	982.50

Elem	Tl1908
Units	ug/Liter
Avge	51.804
SDev	33.351
%RSD	64.379
#1	87.313
#2	46.959
#3	21.141

Method: CLP1100 Sample Name: XXX U 491763 #62 Operator:
Run Time: 05/21/92 05:33:59
Comment: SDG:SD0283 1:1 SD0283
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	44231.	9.5820	32.400	314.57	3.6667	1.0778	8177.7
SDev	314.	3.0992	16.520	1.93	.2196	.8995	27.0
%RSD	.71035	32.344	50.988	.61366	5.9900	83.454	.33014
#1	43878.	6.0311	26.923	312.65	3.9203	1.8817	8147.3
#2	44481.	10.973	50.963	316.51	3.5424	.10634	8198.9
#3	44333.	11.742	19.314	314.54	3.5374	1.2453	8186.9

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	171.28	50.137	121.29	58273.	139.11	3879.5	1834.2
SDev	1.01	2.623	.00	285.	16.25	73.4	8.8
%RSD	.59068	5.2308	.00003	.48982	11.679	1.8911	.47928
#1	172.43	53.143	121.29	57986.	149.94	3944.3	1824.6
#2	170.86	48.947	121.29	58557.	120.43	3799.9	1841.9
#3	170.54	48.320	121.29	58275.	146.96	3894.3	1836.1

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	107.61	4334.7	L-265.43	-1.9302	671.89	76.228	453.10
SDev	10.13	1335.9	21.61	3.8427	12.54	2.125	1.43
%RSD	9.4116	30.817	-8.1410	-199.08	1.8661	2.7879	.31459
#1	115.14	5759.6	L-259.85	2.4972	684.74	78.513	451.46
#2	111.59	4134.1	L-289.28	-3.8897	671.25	74.310	453.89
#3	96.094	3110.6	L-247.16	-4.3982	659.69	75.862	453.96

Elem	Tl1908
Units	ug/Liter
Avge	19.690
SDev	23.091
%RSD	117.27
#1	36.957
#2	28.651
#3	-6.5380

Method: CLP1100 Sample Name: DUP U 491765 #63 Operator:
Run Time: 05/21/92 05:40:21
Comment: SDG:SD0283 1:1 SD0283D
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	45752.	7.2056	38.765	321.87	3.4063	-.46023	8432.0
SDev	202.	8.7287	7.343	1.15	.2239	1.50886	27.3
%RSD	.44177	121.14	18.942	.35666	6.5724	-327.85	.32430
#1	45522.	5.8690	46.073	320.55	3.1479	-.55853	8400.5
#2	45902.	16.526	38.835	322.54	3.5324	-1.9175	8447.2
#3	45832.	-.77779	31.388	322.53	3.5388	1.0954	8448.4

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	186.50	46.861	126.49	58142.	155.00	3937.0	2023.7
SDev	2.21	3.826	.00	305.	12.82	29.5	11.6
%RSD	1.1858	8.1637	.00005	.52481	8.2721	.74807	.57183
#1	184.40	42.445	126.49	57798.	154.71	3917.0	2010.8
#2	188.81	49.177	126.49	58380.	167.96	3923.1	2033.3
#3	186.29	48.961	126.49	58249.	142.33	3970.8	2027.0

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	102.85	3652.4	L-278.95	-3.3319	472.76	76.013	502.63
SDev	7.89	1778.8	17.74	1.9251	31.01	1.199	2.80
%RSD	7.6747	48.703	-6.3610	-57.779	6.5598	1.5767	.55785
#1	102.19	3110.6	L-280.77	-1.1930	440.01	75.225	499.40
#2	95.311	5639.2	L-260.37	-3.8767	501.67	77.392	504.28
#3	111.06	2207.5	L-295.72	-4.9258	476.62	75.421	504.23

Elem	Tl1908
Units	ug/Liter
Avge	-23.313
SDev	61.340
%RSD	-263.12
#1	-75.470
#2	-38.736
#3	44.267

Method: CLP1100 Sample Name: SPK U 491764 #64 Operator:
Run Time: 05/21/92 05:46:43
Comment: SDG:SD0283 1:1 SD0283S
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	62685.	262.60	2129.1	2446.6	59.213	57.067	7704.5
SDev	69.	15.87	28.1	2.7	.455	1.238	17.7
%RSD	.11040	6.0441	1.3216	.11213	.76824	2.1692	.22942
#1	62616.	277.63	2114.0	2449.7	59.738	56.317	7724.4
#2	62684.	264.16	2111.6	2445.7	58.948	58.496	7698.1
#3	62755.	246.01	2161.5	2444.4	58.953	56.389	7690.9

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	377.17	584.17	362.16	67943.	660.46	5122.8	2291.3
SDev	1.01	1.63	3.00	127.	4.30	72.0	4.3
%RSD	.26833	.27845	.82876	.18670	.65165	1.4061	.18862
#1	376.01	585.83	360.42	68078.	661.33	5136.2	2295.7
#2	377.59	584.11	365.62	67923.	664.27	5045.0	2291.1
#3	377.90	582.58	360.42	67827.	655.79	5187.2	2287.0

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	645.86	5819.8	1759.5	40.319	532.50	613.70	934.05
SDev	15.92	394.8	21.4	2.388	38.68	1.13	.54
%RSD	2.4656	6.7836	1.2184	5.9225	7.2647	.18413	.05786
#1	660.76	5458.6	1741.5	40.133	572.97	612.74	934.66
#2	629.08	6241.2	1753.8	38.029	528.65	614.95	933.89
#3	647.75	5759.6	1783.2	42.794	495.89	613.41	933.61

Elem	Tl1908
Units	ug/Liter
Avge	2045.5
SDev	21.0
%RSD	1.0266
#1	2063.0
#2	2022.2
#3	2051.3

Method: CLP1100 Sample Name: XXX U 491771 #65 Operator:
Run Time: 05/21/92 05:53:05
Comment: SDG:SD0283 1:1 SD0284
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	54736.	34.800	29.236	340.06	3.2527	4.7265	60419.
SDev	25.	8.106	37.558	.33	.2247	1.7680	310.
%RSD	.04625	23.292	128.46	.09634	6.9070	37.406	.51279
#1	54707.	38.693	-13.998	339.75	3.5122	6.7677	60713.
#2	54747.	40.224	47.909	340.04	3.1227	3.7316	60447.
#3	54754.	25.482	53.798	340.40	3.1234	3.6800	60096.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	119.95	41.097	187.14	62199.	425.89	18204.	1172.8
SDev	1.27	1.060	3.00	215.	5.23	70.	4.1
%RSD	1.0609	2.5786	1.6038	.34531	1.2281	.38632	.34862
#1	121.10	42.314	188.88	62408.	429.50	18243.	1177.2
#2	120.16	40.594	188.88	62209.	428.28	18247.	1172.0
#3	118.59	40.382	183.68	61979.	419.89	18123.	1169.2

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	89.335	4675.9	L-277.00	4.1421	639.13	83.070	1199.8
SDev	17.070	535.1	30.28	2.4950	19.30	.447	4.6
%RSD	19.108	11.444	-10.931	60.236	3.0201	.53811	.38574
#1	97.712	5097.3	L-285.06	3.2463	640.42	83.572	1203.1
#2	69.695	4856.5	L-243.51	6.9613	619.22	82.923	1201.7
#3	100.60	4073.9	L-302.43	2.2186	657.76	82.715	1194.5

Elem	Tl1908
Units	ug/Liter
Avge	-14.027
SDev	22.680
%RSD	-161.69
#1	-22.939
#2	11.755
#3	-30.897

Method: CLP1100 Sample Name: XXX U 491772 #66 Operator:
Run Time: 05/21/92 05:59:27
Comment: SDG:SD0283 1:1 SD0285
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	48999.	10.378	22.542	318.25	3.1360	1.7021	10084.
SDev	110.	18.625	9.372	.34	.3970	.5366	74.
%RSD	.22529	179.47	41.576	.10616	12.658	31.527	.73420
#1	48871.	-10.589	21.695	317.92	3.5336	1.9649	10002.
#2	49059.	25.009	13.622	318.24	2.7397	2.0567	10107.
#3	49066.	16.714	32.309	318.60	3.1349	1.0848	10144.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	239.71	45.485	117.83	61543.	219.04	4799.3	1190.5
SDev	1.73	1.475	6.00	303.	7.91	36.8	6.6
%RSD	.72349	3.2433	5.0946	.49240	3.6104	.76750	.55798
#1	241.39	44.996	110.90	61205.	227.18	4756.8	1183.0
#2	237.93	44.317	121.29	61635.	211.39	4821.1	1192.8
#3	239.82	47.143	121.29	61789.	218.54	4820.0	1195.7

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	114.06	5900.1	L-298.54	-5.3332	503.60	78.837	684.72
SDev	11.24	331.6	48.35	2.5882	10.73	1.666	3.86
%RSD	9.8524	5.6200	-16.195	-48.531	2.1305	2.1129	.56405
#1	126.21	5579.0	L-288.02	-8.3069	505.52	77.023	680.27
#2	104.04	5880.0	L-256.33	-4.1050	513.23	80.298	686.75
#3	111.95	6241.2	L-351.29	-3.5878	492.03	79.191	687.15

Elem	Tl1908
Units	ug/Liter
Avge	36.026
SDev	13.519
%RSD	37.525
#1	50.974
#2	24.656
#3	32.448

Method: CLP1100 Sample Name: XXX S 491771 #67 Operator:
Run Time: 05/21/92 06:05:49
Comment: SDG:SD0283 1:5 SD0284L
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	11411.	15.653	1.0639	70.223	.59710	.71932	12737.
SDev	49.	9.546	21.291	.369	.00580	.93120	85.
%RSD	.43218	60.987	2001.3	.52603	.97106	129.46	.66478
#1	11462.	24.736	-21.925	70.005	.59616	1.7510	12819.
#2	11408.	5.7023	5.0103	70.015	.59184	-.05888	12742.
#3	11364.	16.522	20.106	70.650	.60332	.46582	12650.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	24.662	7.9611	36.389	13129.	81.673	3768.7	248.23
SDev	1.192	.8786	3.001	83.	3.827	36.9	1.00
%RSD	4.8341	11.037	8.2481	.63200	4.6858	.97911	.40226
#1	26.026	8.7571	32.923	13210.	85.393	3737.7	248.81
#2	23.821	8.1078	38.122	13133.	81.880	3809.5	248.81
#3	24.137	7.0183	38.122	13044.	77.747	3758.9	247.08

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	16.492	2026.9	-52.687	2.6134	541.50	16.990	255.77
SDev	4.657	1229.4	26.464	1.2254	27.68	1.773	1.37
%RSD	28.237	60.655	-50.229	46.891	5.1119	10.437	.53505
#1	11.909	2990.2	-45.162	1.9028	520.94	17.278	256.09
#2	16.349	2448.3	L-82.098	1.9090	530.58	18.601	256.96
#3	21.219	642.18	-30.800	4.0284	572.97	15.090	254.28

Elem	Tl1908
Units	ug/Liter
Avge	-28.161
SDev	42.154
%RSD	-149.69
#1	-76.318
#2	-10.217
#3	2.0526

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Method: CLP1100 Sample Name: CCVA Operator:
Run Time: 05/21/92 06:12:11
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	5184.5	5145.9	5119.3	5013.7	5016.2	5014.6	49920.
SDev	15.3	15.6	30.9	11.8	49.1	24.4	423.
%RSD	.29607	.30322	.60347	.23571	.97891	.48615	.84722
#1	5198.9	5133.2	5096.7	5007.2	4983.1	5004.4	49630.
#2	5168.3	5141.2	5106.7	5006.5	4992.9	4997.0	49726.
#3	5186.4	5163.3	5154.5	5027.3	5072.6	5042.4	50406.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	4951.0	4962.3	5023.4	4960.8	4973.2	50413.	4972.2
SDev	38.9	38.0	13.8	37.4	40.8	113.	33.0
%RSD	.78610	.76496	.27378	.75404	.81967	.22380	.66292
#1	4919.6	4929.4	5018.2	4930.9	4956.2	50341.	4946.0
#2	4938.8	4953.6	5013.0	4948.8	4943.7	50355.	4961.5
#3	4994.5	5003.8	5039.0	5002.8	5019.7	50543.	5009.2

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	4942.6	51174.	4981.4	498.72	50365.	4991.5	5001.5
SDev	37.5	1196.	52.7	2.42	133.	27.0	26.8
%RSD	.75848	2.3362	1.0580	.48542	.26371	.54113	.53545
#1	4919.0	49829.	4971.4	501.35	50254.	4975.9	4984.8
#2	4923.0	52117.	4934.4	496.59	50329.	4975.9	4987.2
#3	4985.9	51575.	5038.4	498.21	50512.	5022.7	5032.4

Elem	Tl1908
Units	ug/Liter
Avge	5087.8
SDev	115.4
%RSD	2.2688
#1	5220.7
#2	5030.8
#3	5012.0

Method: CLP1100 Sample Name: CCBA Operator:
Run Time: 05/21/92 06:19:41
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	-1.5573	19.878	-12.144	-.07890	.39327	.39929	-12.798
SDev	9.4748	4.602	19.395	.00540	.22485	.57111	4.541
%RSD	-608.42	23.150	-159.71	-6.8501	57.175	143.03	-35.484
#1	9.3833	19.086	-19.775	-.07578	.26130	.99304	-9.5996
#2	-7.0358	15.724	9.9056	-.07578	.65290	-.14612	-17.995
#3	-7.0192	24.824	-26.563	-.08514	.26562	.35095	-10.798

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1.1547	1.1672	-.00004	-.00034	-8.7677	6.6268	.00002
SDev	1.4432	.1231	3.00135	1.29990	11.3720	19.447	.00007
%RSD	124.98	10.548	-8139e3	-377120.	-129.70	293.46	339.78
#1	1.4695	1.3093	1.7328	1.4908	2.1788	28.459	-.00006
#2	-.41983	1.0970	-3.4657	-.89461	-7.9597	.25925	.00006
#3	2.4146	1.0953	1.7328	-.59721	-20.522	-8.8379	.00007

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	-5.7678	-341.16	-11.924	.52857	12.205	-.51282	.09496
SDev	6.6240	1167.93	24.918	1.6153	38.492	.76122	.15700
%RSD	-114.85	-342.34	-208.97	305.59	315.39	-148.44	165.33
#1	1.8607	-923.14	9.3147	2.2911	37.256	-.07353	-.08610
#2	-10.064	-1103.8	-5.7332	-.88109	31.475	-.07313	.19325
#3	-9.0996	1003.4	-39.355	.17571	-32.117	-1.3918	.17774

Elem	Tl1908
Units	ug/Liter
Avge	-28.721
SDev	12.982
%RSD	-45.201
#1	-38.145
#2	-34.104
#3	-13.913

Method: CLP1100 Sample Name: XXX U 491773 #70 Operator:
Run Time: 05/21/92 06:26:02
Comment: SDG:SD0283 1:1 SD0286
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	62404.	-1.3985	41.915	383.97	4.2369	.23495	10286.
SDev	109.	17.0676	14.442	.49	.0037	.19706	52.
%RSD	.17478	-1220.4	34.455	.12653	.08669	83.873	.50428
#1	62280.	13.090	35.767	383.43	4.2364	.32816	10238.
#2	62449.	-20.213	58.414	384.10	4.2336	.00858	10280.
#3	62484.	2.9274	31.564	384.38	4.2408	.36810	10341.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	265.00	46.266	116.09	75292.	312.96	6050.5	2420.0
SDev	1.67	.030	.00	411.	10.58	76.9	11.9
%RSD	.62886	.06387	.00005	.54589	3.3806	1.2702	.49011
#1	263.74	46.286	116.09	74988.	321.90	6063.4	2411.0
#2	264.37	46.280	116.09	75129.	315.70	6120.0	2415.6
#3	266.89	46.232	116.09	75760.	301.28	5967.9	2433.4

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	125.95	5940.2	L-354.74	-2.9364	819.63	101.43	744.91
SDev	9.73	694.3	15.70	1.0849	12.64	1.12	3.16
%RSD	7.7241	11.688	-4.4262	-36.946	1.5417	1.1074	.42477
#1	136.75	5880.0	L-338.26	-1.8576	817.70	101.60	742.74
#2	123.19	6662.7	L-356.45	-2.9244	808.07	102.47	743.45
#3	117.89	5277.9	L-369.52	-4.0272	833.12	100.24	748.54

Elem	Tl1908
Units	ug/Liter
Avge	9.2523
SDev	39.264
%RSD	424.37
#1	9.5479
#2	48.367
#3	-30.158

Method: CLP1100 Sample Name: XXX U 491775 #71 Operator:
Run Time: 05/21/92 06:32:24
Comment: SDG:SD0283 1:1 SD0287
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	88746.	13.494	53.366	603.61	5.5671	3.0326	13712.
SDev	465.	8.275	.348	3.88	.4486	1.2454	134.
%RSD	.52401	61.326	.65135	.64258	8.0580	41.068	.97444
#1	89133.	7.0446	52.966	607.04	6.0850	2.3177	13829.
#2	88875.	22.825	53.584	604.39	5.3075	4.4708	13740.
#3	88230.	10.613	53.550	599.40	5.3087	2.3094	13566.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	457.39	80.104	188.87	107660.	548.31	7663.9	3921.1
SDev	4.54	1.042	5.20	1112.	6.57	9.6	39.3
%RSD	.99283	1.3005	2.7525	1.0333	1.1973	.12589	1.0025
#1	461.17	80.165	194.07	108690.	554.76	7658.7	3958.2
#2	458.65	81.114	183.67	107810.	548.54	7675.1	3925.4
#3	452.35	79.033	188.87	106480.	541.63	7658.1	3879.9

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	200.51	9913.7	L-535.05	-4.6650	696.30	133.77	1123.5
SDev	8.40	1461.1	36.04	5.1138	34.85	1.11	7.5
%RSD	4.1909	14.738	-6.7350	-109.62	5.0046	.83142	.67146
#1	207.30	11118.	L-570.16	-7.3804	663.54	135.03	1129.5
#2	191.11	10335.	L-536.83	-7.8483	692.45	133.32	1125.9
#3	203.11	8288.2	L-498.16	1.2337	732.91	132.95	1115.0

Elem	Tl1908
Units	ug/Liter
Avge	10.643
SDev	27.078
%RSD	254.43
#1	37.618
#2	10.847
#3	-16.537

Method: CLP1100 Sample Name: XXX U 491776 #72 Operator:
Run Time: 05/21/92 06:38:46
Comment: SDG:SD0283 1:1 SD0288
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	48262.	15.740	48.350	292.81	2.7678	.60373	36160.
SDev	23.	4.620	21.261	1.32	.0033	2.0179	148.
%RSD	.04789	29.350	43.973	.44945	.11827	334.25	.40933
#1	48236.	16.586	47.519	292.81	2.7647	2.3056	36104.
#2	48269.	10.755	70.014	291.49	2.7676	-1.6256	36049.
#3	48281.	19.877	27.517	294.12	2.7712	1.1312	36328.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	101.06	37.672	142.09	57095.	349.45	11876.	999.23
SDev	1.31	.335	9.00	236.	5.09	15.	2.19
%RSD	1.2975	.88863	6.3369	.41273	1.4555	.12769	.21886
#1	100.64	37.315	136.89	56975.	344.11	11862.	998.27
#2	100.01	37.979	136.89	56943.	354.24	11874.	997.69
#3	102.53	37.720	152.49	57366.	350.00	11892.	1001.7

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	84.278	6562.3	L-278.94	.44086	591.60	71.684	936.79
SDev	4.134	1376.0	27.32	.52983	37.03	1.001	4.21
%RSD	4.9055	20.968	-9.7957	120.18	6.2600	1.3965	.44945
#1	84.991	7264.7	L-310.49	-.07889	551.77	72.642	934.80
#2	79.834	7445.3	L-262.53	.98023	598.02	71.765	933.93
#3	88.010	4976.9	L-263.82	.42124	625.00	70.645	941.62

Elem	Tl1908
Units	ug/Liter
Avge	-29.937
SDev	32.756
%RSD	-109.42
#1	-64.270
#2	-26.514
#3	.97407

Method: CLP1100 Sample Name: XXX U 491778 #73 Operator:
Run Time: 05/21/92 06:45:08
Comment: SDG:SD0283 1:1 SD0307
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	34241.	23.840	11.079	325.46	2.5646	4.0285	40952.
SDev	261.	13.891	20.274	2.73	.2297	1.0140	201.
%RSD	.76144	58.267	183.00	.83966	8.9577	25.170	.49148
#1	33941.	32.679	32.567	322.40	2.4258	4.6942	40719.
#2	34364.	31.011	8.3803	326.33	2.4381	2.8615	41061.
#3	34418.	7.8291	-7.7109	327.65	2.8298	4.5298	41074.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	152.39	29.388	162.88	58997.	379.83	8917.7	2411.6
SDev	2.10	.861	.00	333.	5.11	43.2	15.5
%RSD	1.3760	2.9313	.00004	.56406	1.3465	.48449	.64078
#1	151.34	28.622	162.88	58614.	383.63	8867.9	2394.0
#2	154.81	30.320	162.88	59166.	381.86	8944.3	2418.1
#3	151.03	29.222	162.88	59212.	374.02	8941.0	2422.7

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	103.95	3411.6	L-276.30	-.40857	892.21	54.004	1147.7
SDev	8.57	514.4	26.62	1.87788	41.17	2.173	4.3
%RSD	8.2488	15.078	-9.6331	-459.62	4.6138	4.0240	.37637
#1	94.231	3953.4	L-268.27	1.3821	875.51	56.514	1142.7
#2	107.19	2930.0	L-254.62	-.24493	939.11	52.751	1150.4
#3	110.44	3351.4	L-306.01	-2.3629	862.02	52.749	1150.0

Elem	Tl1908
Units	ug/Liter
Avge	28.107
SDev	48.188
%RSD	171.44
#1	18.619
#2	80.333
#3	-14.631

Method: CLP1100 Sample Name: XXX U 491779 #74 Operator:
Run Time: 05/21/92 06:51:30
Comment: SDG:SD0283 1:1 SD0308
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	24502.	19.562	14.489	412.34	2.8353	5.8990	29406.
SDev	155.	11.056	22.173	2.99	.0061	1.4686	134.
%RSD	.63346	56.517	153.03	.72468	.21411	24.896	.45474
#1	24336.	31.763	-9.7890	409.46	2.8422	5.2629	29280.
#2	24528.	16.712	19.588	412.12	2.8329	4.8557	29391.
#3	24643.	10.209	33.668	415.42	2.8308	7.5784	29546.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	208.44	30.469	246.06	56274.	491.53	8809.1	1646.0
SDev	2.10	1.155	.00	257.	4.52	60.3	7.5
%RSD	1.0058	3.7910	.00003	.45584	.92012	.68441	.45467
#1	207.39	31.803	246.06	56019.	496.73	8767.4	1638.5
#2	210.86	29.817	246.06	56269.	489.31	8781.6	1646.0
#3	207.08	29.787	246.06	56532.	488.54	8878.2	1653.4

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	88.497	2729.3	L-284.67	1.8926	1013.0	51.056	1576.3
SDev	9.036	1480.0	22.06	1.6215	8.7	1.857	8.5
%RSD	10.210	54.228	-7.7496	85.679	.85781	3.6362	.53668
#1	88.726	1786.1	L-306.54	1.5567	1012.3	48.945	1567.4
#2	79.349	4435.1	L-262.42	3.6558	1004.6	51.788	1577.2
#3	97.416	1966.7	L-285.06	.46528	1022.0	52.435	1584.3

Elem	Tl1908
Units	ug/Liter
Avge	-10.295
SDev	76.343
%RSD	-741.59
#1	70.226
#2	-81.630
#3	-19.479

Method: CLP1100 Sample Name: XXX U 491781 #75 Operator:
Run Time: 05/21/92 06:57:52
Comment: SDG:SD0283 1:1 SD0309
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	38276.	24.935	36.743	624.32	3.9293	2.6819	103010.
SDev	77.	10.546	21.130	2.58	.0032	2.8093	108.
%RSD	.20010	42.296	57.507	.41388	.08208	104.75	.10528
#1	38285.	12.994	20.564	626.43	3.9263	5.5571	103110.
#2	38196.	32.975	29.017	621.44	3.9291	2.5450	102890.
#3	38348.	28.835	60.649	625.09	3.9327	-.05642	103020.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	85.838	71.767	105.70	76911.	397.39	16993.	2491.3
SDev	2.065	.780	5.20	196.	7.04	25.	6.1
%RSD	2.4052	1.0862	4.9181	.25462	1.7728	.14655	.24347
#1	88.042	70.947	110.90	77105.	402.36	16995.	2497.1
#2	85.523	71.858	105.70	76713.	389.33	16967.	2485.0
#3	83.949	72.498	100.50	76915.	400.49	17017.	2491.9

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	80.293	4836.4	L-390.28	-5.1748	1061.8	75.748	1201.0
SDev	.231	1389.1	19.01	2.3170	24.4	.986	2.1
%RSD	.28711	28.721	-4.8696	-44.774	2.2981	1.3020	.17726
#1	80.501	6421.8	L-385.87	-7.8318	1035.5	76.690	1202.5
#2	80.045	3833.0	L-373.87	-3.5745	1083.6	75.832	1198.6
#3	80.332	4254.5	L-411.11	-4.1181	1066.3	74.723	1201.9

Elem	Tl1908
Units	ug/Liter
Avge	-66.866
SDev	20.814
%RSD	-31.128
#1	-64.292
#2	-47.459
#3	-88.847

Method: CLP1100 Sample Name: XXX U 491782 #76 Operator:
Run Time: 05/21/92 07:04:14
Comment: SDG:SD0283 1:1 SD0310
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	36425.	67.361	46.222	1258.1	3.5209	13.708	121010.
SDev	509.	16.376	7.601	19.6	.0041	1.020	2137.
%RSD	1.3970	24.311	16.446	1.5542	.11630	7.4378	1.7657
#1	37004.	80.188	48.582	1280.1	3.5195	14.637	123400.
#2	36225.	72.979	52.363	1251.4	3.5178	13.871	120340.
#3	36047.	48.915	37.720	1242.8	3.5256	12.617	119290.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	279.91	63.030	384.69	74677.	1258.6	13073.	1613.3
SDev	5.10	.409	6.00	1319.	20.0	173.	27.5
%RSD	1.8220	.64875	1.5604	1.7656	1.5908	1.3224	1.7076
#1	285.79	63.264	391.62	76161.	1279.6	13270.	1644.4
#2	277.29	62.557	381.22	74231.	1256.7	13005.	1603.5
#3	276.66	63.267	381.22	73640.	1239.6	12945.	1592.0

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	132.51	2448.3	L-360.73	12.770	1092.0	80.884	2387.4
SDev	5.30	796.4	21.94	.775	27.3	1.252	33.7
%RSD	3.9978	32.530	-6.0829	6.0726	2.4978	1.5482	1.4132
#1	126.92	2749.3	L-337.44	12.843	1106.8	81.322	2425.4
#2	137.46	3050.4	L-363.73	13.507	1060.5	81.859	2376.1
#3	133.15	1545.3	L-381.01	11.961	1108.7	79.472	2360.8

Elem	Tl1908
Units	ug/Liter
Avge	-18.639
SDev	53.749
%RSD	-288.37
#1	43.167
#2	-54.438
#3	-44.646

Method: CLP1100 Sample Name: XXX U 491783 #77 Operator:
Run Time: 05/21/92 07:10:36
Comment: SDG:SD0283 1:1 SD0311
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	29759.	16.547	19.165	671.37	3.3756	9.9570	142150.
SDev	248.	14.273	28.549	4.62	.2312	1.3511	1220.
%RSD	.83446	86.259	148.96	.68796	6.8505	13.570	.85805
#1	29473.	3.8419	-11.288	666.09	3.5064	11.091	140750.
#2	29919.	13.808	23.461	674.65	3.5117	8.4619	142980.
#3	29886.	31.991	45.322	673.36	3.1086	10.319	142720.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	127.82	61.799	301.51	85351.	1440.4	31989.	2274.1
SDev	1.62	1.797	3.00	657.	3.1	215.	17.2
%RSD	1.2646	2.9073	.99545	.76975	.21438	.67228	.75808
#1	127.40	60.696	298.05	84595.	1437.8	31741.	2254.3
#2	129.61	63.872	303.25	85778.	1439.5	32111.	2286.0
#3	126.46	60.829	303.25	85681.	1443.8	32116.	2281.9

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	117.55	2649.0	L-446.27	-5.0685	951.95	85.427	1986.3
SDev	11.86	1515.1	25.46	3.1474	13.53	1.763	14.4
%RSD	10.089	57.196	-5.7049	-62.097	1.4218	2.0636	.72365
#1	114.05	4254.5	L-444.77	-8.3643	966.08	85.318	1969.8
#2	130.76	1244.2	L-472.45	-4.7469	939.11	83.720	1995.9
#3	107.83	2448.3	L-421.59	-2.0943	950.67	87.241	1993.3

Elem	Tl1908
Units	ug/Liter
Avge	-31.896
SDev	25.534
%RSD	-80.055
#1	-55.269
#2	-35.775
#3	-4.6442

Method: CLP1100 Sample Name: XXX U 491784 #78 Operator:
Run Time: 05/21/92 07:16:58
Comment: SDG:SD0283 1:1 SD0312
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	58612.	29.644	39.900	728.21	4.4547	4.3637	18797.
SDev	309.	10.889	4.054	3.18	.2301	1.0978	48.
%RSD	.52645	36.732	10.161	.43645	5.1649	25.157	.25700
#1	58298.	24.632	39.798	725.34	4.1890	3.1475	18742.
#2	58622.	42.137	35.898	727.67	4.5864	4.6625	18829.
#3	58915.	22.164	44.004	731.63	4.5886	5.2812	18821.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	547.25	52.382	221.79	96535.	584.55	7403.3	3027.2
SDev	2.38	.251	3.00	325.	6.85	31.2	10.4
%RSD	.43573	.47885	1.3532	.33713	1.1719	.42168	.34274
#1	546.20	52.636	220.06	96184.	583.38	7393.4	3015.7
#2	545.57	52.377	220.06	96593.	591.91	7378.2	3030.1
#3	549.98	52.134	225.25	96827.	578.36	7438.3	3035.8

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	126.46	3391.5	L-453.49	-3.8991	1014.3	114.68	1143.1
SDev	10.87	1927.8	45.92	1.0429	10.2	1.27	3.3
%RSD	8.5967	56.842	-10.125	-26.747	1.0053	1.1036	.28651
#1	114.18	5277.9	L-443.22	-4.9313	1025.8	116.09	1139.8
#2	130.32	1424.8	L-503.68	-2.8459	1006.6	114.32	1143.2
#3	134.88	3471.8	L-413.59	-3.9201	1010.4	113.64	1146.3

Elem	Tl1908
Units	ug/Liter
Avge	-16.385
SDev	20.077
%RSD	-122.53
#1	6.6162
#2	-30.393
#3	-25.378

Method: CLP1100 Sample Name: XXX U 491785 #79 Operator:
Run Time: 05/21/92 07:23:20
Comment: SDG:SD0283 1:1 SD0313
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	47456.	19.082	42.056	394.35	3.3605	11.068	25442.
SDev	343.	3.440	17.263	2.76	.2282	.615	326.
%RSD	.72188	18.028	41.047	.69976	6.7899	5.5582	1.2811
#1	47060.	22.765	57.958	391.26	3.4978	10.855	25076.
#2	47646.	18.528	44.513	396.56	3.0971	11.761	25552.
#3	47660.	15.952	23.696	395.24	3.4866	10.587	25699.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	127.61	46.871	175.01	81268.	654.95	10866.	3393.1
SDev	1.49	.860	3.00	1055.	16.31	84.	43.9
%RSD	1.1658	1.8358	1.7149	1.2983	2.4908	.77198	1.2951
#1	126.46	46.818	173.28	80076.	636.14	10770.	3343.4
#2	127.08	46.038	173.28	81646.	663.47	10906.	3409.0
#3	129.29	47.757	178.48	82082.	665.24	10923.	3426.9

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	87.511	5538.8	L-401.98	-.01203	969.30	90.025	3115.5
SDev	4.464	1718.0	37.17	.37712	60.24	1.816	31.7
%RSD	5.1008	31.018	-9.2458	-3134.1	6.2152	2.0169	1.0171
#1	91.082	3592.2	L-394.07	.42307	914.05	87.961	3079.5
#2	88.944	6181.0	L-369.40	-.21447	960.30	90.738	3128.1
#3	82.507	6843.3	L-442.46	-.24470	1033.5	91.375	3139.0

Elem	Tl1908
Units	ug/Liter
Avge	-9.1676
SDev	32.3372
%RSD	-352.74
#1	-46.431
#2	11.526
#3	7.4026

Method: CLP1100 Sample Name: CCVA Operator:
Run Time: 05/21/92 07:29:42
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	5292.2	5250.4	5277.2	5078.6	5162.1	5086.4	51350.
SDev	51.1	60.9	76.4	58.1	102.5	42.2	894.
%RSD	.96477	1.1603	1.4470	1.1446	1.9854	.83053	1.7412
#1	5350.3	5320.7	5364.7	5141.8	5273.3	5133.1	52318.
#2	5272.2	5218.7	5243.0	5066.7	5141.7	5075.1	51175.
#3	5254.2	5211.9	5223.9	5027.4	5071.4	5050.9	50555.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	5078.9	5081.4	5113.5	5080.4	5087.6	51430.	5084.9
SDev	85.7	79.6	55.6	80.8	101.5	688.	78.7
%RSD	1.6881	1.5662	1.0870	1.5902	1.9960	1.3386	1.5487
#1	5172.0	5168.7	5174.1	5170.0	5199.9	52208.	5170.2
#2	5061.2	5062.5	5101.4	5057.9	5060.4	51183.	5069.6
#3	5003.3	5013.0	5065.0	5013.2	5002.4	50899.	5015.0

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	5063.3	49629.	5079.7	514.29	51574.	5111.4	5112.8
SDev	111.1	1570.	64.6	2.75	536.	85.8	72.8
%RSD	2.1950	3.1642	1.2722	.53499	1.0386	1.6784	1.4246
#1	5161.1	50973.	5152.8	517.34	52177.	5206.1	5193.2
#2	5086.5	47903.	5056.1	511.99	51391.	5089.1	5094.2
#3	4942.5	50010.	5030.2	513.55	51154.	5039.0	5051.2

Elem	Tl1908
Units	ug/Liter
Avge	5327.9
SDev	17.5
%RSD	.32893
#1	5310.8
#2	5345.8
#3	5327.0

Method: CLP1100 Sample Name: Blank CCB Operator:
Run Time: 05/21/92 07:36:04
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	-7.0570	2.2280	-4.2522	.03459	.25580	-.17757	-15.593
SDev	14.0804	12.714	17.8369	.80816	.00181	.86868	4.318
%RSD	-199.52	570.64	-419.47	2336.2	.70770	-489.19	-27.693
#1	7.0238	16.608	-21.753	.88724	.25772	-.41597	-12.007
#2	-7.0580	-7.5201	-4.9063	-.06330	.25556	.78541	-20.387
#3	-21.137	-2.4043	13.903	-.72016	.25412	-.90216	-14.386

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	2.4137	.50565	3.4656	6.9584	-6.1736	-15.996	.00040
SDev	3.8180	3.2182	6.0027	2.4824	9.3362	94.739	.00009
%RSD	158.18	636.45	173.21	35.674	-151.23	-592.25	22.517
#1	6.5075	4.1434	6.9312	8.9454	-1.4152	83.301	.00030
#2	1.7839	-.65567	6.9314	7.7539	-16.930	-105.40	.00044
#3	-1.0503	-1.9707	-3.4657	4.1758	-.17537	-25.890	.00047

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	8.2131	2026.9	-10.301	1.0579	-33.402	1.6105	.62994
SDev	11.161	911.1	29.746	4.4966	41.524	.5536	.16658
%RSD	135.90	44.949	-288.78	425.05	-124.32	34.375	26.443
#1	16.186	1003.4	22.982	5.4635	-18.628	1.0239	.51442
#2	-4.5426	2327.9	-19.591	-3.5245	-80.293	1.6838	.82089
#3	12.996	2749.3	-34.293	1.2347	-1.2847	2.1238	.55451

Elem	Tl1908
Units	ug/Liter
Avge	32.068
SDev	11.588
%RSD	36.136
#1	23.759
#2	45.306
#3	27.139

Method: CLP1100 Sample Name: XXX U 491786 #82 Operator:
Run Time: 05/21/92 07:46:15
Comment: SDG:SD0283 1:1 SD0314
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	24431.	25.679	26.987	265.46	2.7013	10.567	28013.
SDev	33.	1.319	6.084	.53	.2197	1.176	66.
%RSD	.13323	5.1377	22.545	.19888	8.1348	11.125	.23580
#1	24467.	24.589	20.869	265.89	2.4476	9.2106	28077.
#2	24404.	25.302	33.038	265.63	2.8212	11.191	28017.
#3	24423.	27.146	27.055	264.87	2.8349	11.298	27945.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	111.46	31.955	178.48	55658.	826.55	10146.	1495.5
SDev	2.05	1.207	.00	141.	6.92	40.	5.0
%RSD	1.8384	3.7780	.00003	.25389	.83765	.39838	.33629
#1	113.56	33.033	178.48	55810.	825.89	10159.	1501.1
#2	111.35	32.182	178.48	55633.	833.78	10178.	1494.1
#3	109.46	30.651	178.48	55530.	819.98	10100.	1491.3

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	97.301	1444.9	L-263.22	4.0503	903.13	52.127	3538.1
SDev	16.197	2218.9	24.40	.6136	17.91	2.870	5.5
%RSD	16.647	153.56	-9.2694	15.149	1.9826	5.5061	.15446
#1	106.45	-260.89	L-246.85	3.6858	883.22	49.849	3543.2
#2	78.599	3953.4	L-251.56	4.7587	917.91	55.350	3538.7
#3	106.85	642.18	L-291.27	3.7064	908.27	51.181	3532.3

Elem	Tl1908
Units	ug/Liter
Avge	-15.939
SDev	67.736
%RSD	-424.98
#1	-91.363
#2	3.8413
#3	39.706

Method: CLP1100 Sample Name: XXX U 491788 #83 Operator:
Run Time: 05/21/92 07:52:37
Comment: SDG:SD0283 1:1 SD0315
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	65292.	15.298	49.374	788.72	4.8053	.09094	11747.
SDev	564.	7.536	17.621	6.81	.2237	1.6462	158.
%RSD	.86357	49.262	35.689	.86338	4.6552	1810.2	1.3441
#1	64647.	22.534	57.161	780.92	4.5471	-1.4725	11573.
#2	65536.	7.4942	29.201	793.46	4.9398	1.8091	11786.
#3	65693.	15.866	61.761	791.79	4.9291	-.06383	11881.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	128.75	65.752	107.43	118430.	300.94	7791.4	9530.9
SDev	.73	.430	3.00	1520.	5.62	102.6	116.1
%RSD	.56498	.65430	2.7938	1.2832	1.8671	1.3163	1.2178
#1	129.59	65.603	105.70	116710.	300.32	7719.0	9400.9
#2	128.33	65.416	105.70	118970.	295.65	7746.5	9567.7
#3	128.33	66.237	110.90	119600.	306.84	7908.8	9624.1

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	87.430	7605.9	L-552.11	-5.0570	883.22	127.20	1114.4
SDev	13.777	774.1	9.11	3.1577	45.89	1.80	13.2
%RSD	15.757	10.178	-1.6502	-62.442	5.1953	1.4121	1.1815
#1	76.077	7927.0	L-555.90	-5.2899	865.88	126.33	1100.1
#2	83.457	6722.9	L-558.72	-8.0918	848.54	126.00	1117.0
#3	102.76	8167.8	L-541.72	-1.7893	935.25	129.27	1126.0

Elem	Tl1908
Units	ug/Liter
Avge	-23.924
SDev	61.019
%RSD	-255.05
#1	-48.867
#2	-68.521
#3	45.615

Method: CLP1100 Sample Name: XXX U 491789 #84 Operator:
Run Time: 05/21/92 07:59:00
Comment: SDG:SD0283 1:1 SD0316
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	26897.	13.049	52.581	304.97	5.7167	-1.1794	20739.
SDev	132.	6.690	3.659	1.62	.2241	1.6281	274.
%RSD	.49049	51.265	6.9581	.52966	3.9195	-138.04	1.3226
#1	27036.	13.508	51.626	306.79	5.8422	-2.1196	21019.
#2	26881.	6.1418	56.622	304.43	5.8498	.70053	20725.
#3	26773.	19.497	49.494	303.70	5.4580	-2.1192	20471.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	132.54	36.923	38.119	143440.	84.037	2523.4	4265.1
SDev	4.78	2.116	5.199	1584.	20.201	115.1	46.7
%RSD	3.6054	5.7322	13.638	1.1040	24.038	4.5603	1.0940
#1	136.85	39.270	32.920	145020.	102.93	2635.8	4312.5
#2	133.38	36.337	43.317	143440.	86.443	2528.4	4263.5
#3	127.40	35.161	38.119	141860.	62.740	2405.8	4219.2

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	60.875	923.14	L-672.40	-7.1784	610.87	88.014	282.58
SDev	17.110	391.72	38.99	4.1380	69.60	1.327	2.49
%RSD	28.106	42.433	-5.7985	-57.646	11.393	1.5074	.88001
#1	75.668	943.21	L-674.65	-9.9326	677.03	89.545	285.15
#2	64.821	521.77	L-710.21	-2.4199	617.29	87.208	282.40
#3	42.138	1304.4	L-632.33	-9.1826	538.28	87.288	280.19

Elem	Tl1908
Units	ug/Liter
Avge	21.633
SDev	23.463
%RSD	108.46
#1	37.682
#2	-5.2945
#3	32.512

Method: CLP1100 Sample Name: XXX U 491790 #85 Operator:
Run Time: 05/21/92 08:05:23
Comment: SDG:SD0283 1:1 SD0317
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	22617.	19.304	44.640	250.77	2.7352	1.8386	4844.3
SDev	219.	8.523	9.810	2.09	.2312	3.3452	83.4
%RSD	.96679	44.150	21.975	.83522	8.4537	181.94	1.7217
#1	22368.	17.159	34.650	248.39	2.4683	5.3539	4748.4
#2	22776.	12.059	45.012	252.31	2.8744	-1.3056	4885.1
#3	22708.	28.694	54.259	251.61	2.8629	1.4675	4899.5

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	216.53	20.525	369.09	32792.	276.67	1510.1	604.66
SDev	2.50	.806	3.00	523.	4.57	25.2	9.39
%RSD	1.1545	3.9252	.81316	1.5954	1.6522	1.6676	1.5522
#1	213.69	19.989	365.63	32191.	272.44	1519.9	593.90
#2	218.42	20.135	370.82	33141.	276.04	1481.5	611.19
#3	217.47	21.451	370.82	33045.	281.52	1528.8	608.88

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	52.887	2909.9	L-161.79	-1.0489	704.01	41.756	513.02
SDev	1.395	1251.8	15.01	1.4156	17.13	2.344	6.57
%RSD	2.6376	43.019	-9.2749	-134.97	2.4329	5.6144	1.2805
#1	51.739	3833.0	L-164.03	-.47694	684.74	43.545	505.43
#2	52.482	3411.6	L-175.54	-2.6610	709.79	39.102	516.70
#3	54.439	1485.0	L-145.79	-.00869	717.50	42.622	516.92

Elem	Tl1908
Units	ug/Liter
Avge	-4.4120
SDev	18.4868
%RSD	-419.01
#1	-12.109
#2	-17.807
#3	16.680

Method: CLP1100 Sample Name: XXX P 491763 #88 Operator:
Run Time: 05/21/92 08:12:02
Comment: SDG:SD0283 1:1 SD0283A
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	44911.	143.49	48.364	319.19	3.6661	-1.3100	8296.5
SDev	269.	17.18	14.957	1.36	.2234	.6472	45.1
%RSD	.59936	11.976	30.925	.42513	6.0937	-49.406	.54410
#1	44875.	151.28	49.540	319.18	3.9241	-2.0364	8300.9
#2	44662.	123.79	62.697	317.84	3.5382	-.79479	8249.3
#3	45196.	155.40	32.854	320.56	3.5361	-1.0987	8339.3

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	170.96	50.585	126.49	59046.	139.40	3894.1	1859.5
SDev	2.93	2.103	.00	332.	7.34	37.8	10.7
%RSD	1.7112	4.1572	.00007	.56163	5.2646	.96942	.57434
#1	174.32	52.834	126.49	59088.	136.64	3853.5	1858.5
#2	169.60	50.255	126.49	58695.	147.72	3928.1	1849.3
#3	168.97	48.667	126.49	59354.	133.84	3900.9	1870.6

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	109.38	4796.3	L-311.23	-1.9843	645.55	76.409	461.49
SDev	16.70	1202.6	38.62	2.6255	7.30	.880	1.84
%RSD	15.265	25.073	-12.410	-132.32	1.1301	1.1515	.39932
#1	125.90	6120.8	L-282.29	-.22429	642.34	77.359	461.36
#2	92.508	3772.8	L-355.08	-.72643	640.42	75.621	459.72
#3	109.75	4495.3	L-296.31	-5.0021	653.91	76.248	463.40

Elem	Tl1908
Units	ug/Liter
Avge	3.4100
SDev	50.413
%RSD	1478.4
#1	7.5788
#2	-48.958
#3	51.609

Method: CLP1100 Sample Name: CRI Operator:
Run Time: 05/21/92 08:18:23
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	-6.1028	103.72	43.619	1.2402	10.748	11.973	-21.596
SDev	6.2053	13.30	8.174	.5176	.228	1.640	5.000
%RSD	-101.68	12.819	18.741	41.735	2.1171	13.694	-23.155
#1	-1.4181	118.90	50.160	1.3423	10.485	10.914	-15.991
#2	-13.140	Q94.123	Q34.455	.67920	10.878	11.143	-23.197
#3	-3.7498	98.147	46.242	1.6992	10.880	Q13.862	-25.599

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	22.012	110.32	50.252	4.1689	45.800	-14.985	32.198
SDev	.792	1.79	3.001	2.3672	10.085	20.694	.000
%RSD	3.5998	1.6201	5.9727	56.784	22.021	-138.10	.00029
#1	22.851	108.36	48.519	3.2739	Q41.215	6.6689	32.198
#2	21.277	110.76	53.718	2.3796	57.363	-34.563	32.198
#3	21.907	111.85	48.519	6.8531	Q38.822	-17.063	32.198

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	83.007	822.80	122.38	20.148	-4.4964	106.19	42.789
SDev	11.698	842.87	7.79	1.526	31.3303	.55	.617
%RSD	14.092	102.44	6.3683	7.5742	-696.78	.52073	1.4419
#1	76.956	220.75	130.83	19.267	-10.920	106.70	43.186
#2	Q96.491	461.57	120.81	19.266	-32.117	106.26	43.104
#3	75.575	1786.1	115.49	21.910	29.548	105.60	42.079

Elem	Tl1908
Units	ug/Liter
Avge	Q180.57
SDev	55.60
%RSD	30.789
#1	117.30
#2	Q221.63
#3	Q202.77

Method: CLP1100 Sample Name: ICSA Operator:
Run Time: 05/21/92 08:24:44
Comment: ICSA 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	527630.	35.728	73.886	4.9672	.30373	-4.1372	503770.
SDev	2672.	13.756	21.097	.1861	.39511	3.5960	5775.
%RSD	.50644	38.501	28.553	3.7468	130.09	-86.920	1.1464
#1	530440.	34.801	88.890	5.1049	.69855	-.46572	510360.
#2	525120.	49.923	49.763	5.0412	.30431	-4.2931	501350.
#3	527340.	22.459	83.005	4.7555	-.09167	-7.6527	499600.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	1.2633	-7.3101	6.9314	193570.	-5.7045	522400.	13.085
SDev	1.1922	.2785	5.1985	1886.	24.0492	3220.	1.798
%RSD	94.365	-3.8095	75.000	.97458	-421.58	.61637	13.738
#1	2.1033	-7.6307	12.130	195730.	16.400	526060.	11.801
#2	-.10113	-7.1715	1.7329	192720.	-2.1991	520000.	12.315
#3	1.7878	-7.1280	6.9314	192250.	-31.314	521160.	15.139

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	2.0081	-280.96	-1217.6	-12.147	34.044	-13.047	-22.112
SDev	14.426	1904.16	41.5	1.225	37.581	1.086	.730
%RSD	718.38	-677.74	-3.4075	-10.089	110.39	-8.3273	-3.3024
#1	16.495	1846.3	-1248.5	-13.532	33.402	-14.034	-22.742
#2	1.8843	-1826.2	-1233.9	-11.206	71.942	-13.225	-22.282
#3	-12.355	-862.93	-1170.5	-11.701	-3.2117	-11.883	-21.312

Elem	Tl1908
Units	ug/Liter
Avge	-54.107
SDev	48.490
%RSD	-89.620
#1	-103.24
#2	-6.2864
#3	-52.793

Method: CLP1100 Sample Name: ICSAB Operator:
Run Time: 05/21/92 08:31:05
Comment: ICSAB 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	522040.	16.145	72.893	509.65	491.46	1004.4	487030.
SDev	9590.	1.066	1.657	11.42	11.78	27.5	10328.
%RSD	1.8369	6.6026	2.2732	2.2406	2.3965	2.7354	2.1206
#1	517530.	14.915	70.987	504.42	485.87	993.09	482220.
#2	515540.	16.718	73.991	501.78	483.52	984.39	479980.
#3	533050.	16.802	73.701	522.75	504.99	1035.7	498880.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	478.18	464.95	518.11	188340.	987.59	513850.	489.19
SDev	10.04	11.27	7.94	3959.	21.53	9802.	11.26
%RSD	2.0997	2.4241	1.5326	2.1020	2.1805	1.9075	2.3013
#1	471.47	459.66	511.18	186380.	973.02	509620.	484.18
#2	473.35	457.30	516.38	185740.	977.42	506860.	481.31
#3	489.72	477.90	526.77	192900.	1012.3	525050.	502.08

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	965.49	401.36	-1173.9	1019.2	20.555	477.60	999.79
SDev	12.02	3340.7	62.6	10.2	28.080	11.53	18.63
%RSD	1.2447	832.33	-5.3353	1.0039	136.61	2.4152	1.8632
#1	951.75	-2307.8	-1111.4	1015.8	29.548	471.03	991.56
#2	974.01	-622.12	-1173.8	1011.1	43.037	470.85	986.69
#3	970.72	4134.1	-1236.6	1030.7	-10.920	490.92	1021.1

Elem	Tl1908
Units	ug/Liter
Avge	-22.537
SDev	51.238
%RSD	-227.35
#1	19.397
#2	-7.3579
#3	-79.650

Method: CLP1100 Sample Name: CCVB Operator:
Run Time: 05/21/92 08:39:39
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	5242.4	5179.9	5227.5	5053.4	5085.6	5051.1	50528.
SDev	13.9	23.7	41.8	18.5	22.4	17.9	229.
%RSD	.26532	.45671	.80016	.36564	.43968	.35357	.45413
#1	5242.7	5158.6	5183.7	5035.6	5067.1	5030.5	50312.
#2	5256.1	5205.4	5267.0	5072.5	5110.5	5060.3	50769.
#3	5228.3	5175.8	5231.9	5052.2	5079.2	5062.4	50503.

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	5004.5	5009.4	5078.8	5014.7	5004.9	50896.	5016.7
SDev	25.2	19.2	13.1	20.5	37.6	169.	19.6
%RSD	.50409	.38359	.25757	.40867	.75109	.33177	.39020
#1	4978.4	4991.6	5065.0	4996.8	4977.8	50744.	4997.7
#2	5028.8	5029.7	5091.0	5037.1	5047.8	51078.	5036.8
#3	5006.1	5006.8	5080.6	5010.2	4989.2	50867.	5015.5

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	5008.8	49629.	5026.3	498.57	51044.	5045.2	5045.5
SDev	13.6	543.	43.0	4.05	207.	21.2	18.7
%RSD	.27129	1.0940	.85499	.81215	.40596	.42045	.37153
#1	4994.6	50191.	4976.8	495.04	50965.	5024.5	5029.2
#2	5010.0	49107.	5053.4	502.99	51279.	5066.9	5066.0
#3	5021.7	49589.	5048.8	497.69	50888.	5044.3	5041.5

Elem	Tl1908
Units	ug/Liter
Avge	5306.1
SDev	66.4
%RSD	1.2523
#1	5344.5
#2	5344.5
#3	5229.4

Method: CLP1100 Sample Name: CCBB Operator:
Run Time: 05/21/92 08:47:09
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	-12.492	6.6014	-3.5256	.15801	.39615	-2.1317	-14.793
SDev	19.667	5.8658	34.7819	.41847	.22734	.9377	11.075
%RSD	-157.43	88.857	-986.56	264.84	57.389	-43.991	-74.865
#1	-35.161	12.475	Q35.720	-.08826	.26705	-2.6537	-27.582
#2	-2.3391	6.5853	Q-30.540	-.07890	.26274	-1.0491	-8.3891
#3	.02308	.74367	-15.757	.64119	.65865	-2.6922	-8.4092

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg3832	Mn2576
Units	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter	ug/Liter
Avge	.63019	.29436	-1.7329	6.6606	-4.5689	-49.319	.00046
SDev	2.8574	3.1839	3.0013	1.6430	16.9099	21.885	.00021
%RSD	453.43	1081.6	-173.20	24.667	-370.11	-44.374	45.868
#1	.21046	-1.0929	-3.4657	5.0701	-7.3369	-66.424	.00070
#2	-1.9942	-1.9605	-3.4657	8.3515	-19.924	-56.875	.00040
#3	3.6743	3.9365	1.7327	6.5603	13.554	-24.657	.00029

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	-5.7115	-80.273	23.201	1.2326	-48.818	-1.3919	.47088
SDev	9.7920	2137.90	17.649	1.3988	36.883	.7614	.54767
%RSD	-171.44	-2663.3	76.070	113.48	-75.552	-54.699	116.31
#1	4.5398	1184.0	36.898	2.8188	-14.774	-1.8312	.14058
#2	-14.968	1123.8	29.422	.17575	-88.001	-.51277	1.1031
#3	-6.7060	-2548.7	3.2841	.70329	-43.679	-1.8318	.16899

Elem	Tl1908
Units	ug/Liter
Avge	-13.253
SDev	2.932
%RSD	-22.120
#1	-11.906
#2	-16.616
#3	-11.237

COMPUCHEM LABORATORIES, INC.

ORIGINAL DATA IS IN MERA30

A6920511094 3

ATOMIC ABSORPTION RAW DATA PACKAGE

Analyst James Medlin Date 5/11/92 SDG MERA30

SDO 267

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 5/11/92

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 0.149

Channel B 0.154

Correlation Coeff.

Channel A 0.9981

Channel B 0.9994

Furnace AAS Runlog

Ale

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: 5/11/92

Operator: James Medlin
Case Name MERAJO ; SD0267
Filename ~~JEMOS~~ JEMOS1K

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV	ICV-2(1290)		1	491248		
	ICB			2	491248	A	
1	CRA			3	491251 52	JEM 5/11/92	
2	CCV			4	491252	A	
3	CCB			5	491263		
4	A/C			6	491263	A	
5				7	492947	PBS	
6				8	492947	PBS A	
7				9	123123		
8				10	123123		
9					CCV		
10	JEM 5/11/92				CCB		
	CCV			1	491743	LCSS 1:200	
	CCB			2	491743	LCSS 1:200	A
1	492540	PBW		3	491743	LCSS 1:10	
2	492540	PBW A		4	491743	LCSS 1:10	A
3	491251	LCSW 2:25		5	491740		①
4	491251	LCSW 2:25	A	6	491740	A	
5	491260			7	491742	D(491740)	
6	491260	A		8	491742	Dup. A	
7	491250	D(491260)		9	491741	SS(491740)	
8	491250	Dup. A		10	123123		
9	491249	SS(491260)			CCV		
10	123123				CCB		
	CCV						
	CCB						

① OMIT; carryover from LCSS.

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours	JEM 5/11/92		JEM 5/11/92

INORGANIC CASE
Reviewed By: [signature] Date 5/11-92

19026 MERA SD

Furnace AAS Runlog

A6

Elements	Methode 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: 5/11/92

Operator: J. Medlin
Case Name MERA30;SD0267
Filename JEM051IC

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV JEM 5/11/92			1			
	ICB			2			
1	491748			3			
2	491748	A		4			
3	491749			5			
4	491749	A		6			
5	491750			7			
6	491750	A		8			
7	491751			9			
8	491751	A		10			
9	123123				CCV		
10	—	—			CCB		
	CCV	As failed		1			
	CCB			2			
1				3			
2				4			
3				5			
4				6			
5				7			
6				8			
7				9			
8				10			
9					CCV		
10		JEM 5/11/92			CCB		
	CCV						
	CCB					JEM 5/11/92	

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours	JEM 5/11/92		JEM 5/11/92

Reviewed By: [signature] Date: 5-11-92

INORGANIC CASE

19026 MERA 30

\AADATA\JEM0511C.LOG.1

Analysis Report Blank Sample Mon 05-11-92 09:43:55 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 09:39:04
Comment:
Mode: Abs/Ei Corr. Factor: 1

Elem	Se	As
Avge	.009	.008
SDev	.000	.007
%RSD	5.273	88.63
#1	.009	.013
#2	.009	.003

Standardization Rpt. Mon 05-11-92 09:48:52 AM page 1

Method: CLPSEAS Standard: S30

Elem	Se	As
Avge	.149	.154
SDev	.002	.003
%RSD	1.332	1.851
#1	.150	.152
#2	.148	.156

Standardization Rpt. Mon 05-11-92 09:53:47 AM page 1

Method: CLPSEAS Standard: CRA

Elem	Se	As
Avge	.028	.054
SDev	.002	.004
%RSD	7.172	8.135
#1	.029	.057
#2	.026	.051

Standardization Rpt. Mon 05-11-92 09:58:44 AM page 1

Method: CLPSEAS Standard: S60

Elem	Se	As
Avge	.270	.293
SDev	.003	.000
%RSD	1.103	.1693
#1	.272	.293
#2	.268	.293

Analysis Report QC Standard Mon 05-11-92 10:08:19 AM page 1

Method: CLPSEAS Sample Name: ICV Operator:
Run Time: 05/11/92 10:03:28
Comment: ICV SE=50.3 AS=50.4
Mode: Conc Corr. Factor: 1

df 1:2

Elem	Se	As
Units	ppb	ppb
Avge	24.87	26.19
SDev	.60	.66
%RSD	2.417	2.529
#1	25.30	26.66
#2	24.44	25.72
Quality Standard	98.9% OK	103.9%OK
Range	25.15	25.20
	10.5%	10.5%

\AADATA\JEM0511C.LOG.2

Analysis Report QC Standard Mon 05-11-92 10:13:16 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 10:08:26
Comment: ICB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.3080	.6667
SDev	.4435	1.097
%RSD	144.0	164.6
#1	.6216	1.442
#2	-.0055	-.1090
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report QC Standard Mon 05-11-92 10:18:09 AM page 1

Method: CLPSEAS Sample Name: CRA Operator:
Run Time: 05/11/92 10:13:20
Comment: CRA SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	4.501	10.98
SDev	.085	.89
%RSD	1.880	8.124
#1	4.561	11.61
#2	4.441	10.35
Quality	90.0% OK	109.8%OK
Standard	5.000	10.00
Range	20.0%	20.0%

Analysis Report QC Standard Mon 05-11-92 10:23:04 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/11/92 10:18:14
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	32.20	33.05
SDev	.39	.23
%RSD	1.213	.7046
#1	32.47	Q33.22
#2	31.92	32.89
Quality	107.3%OK	110.2%OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\JEM0511C.LOG.3

Analysis Report QC Standard Mon 05-11-92 10:27:57 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 10:23:08
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.2108	.7504
SDev	.3451	.8359
%RSD	163.8	111.4
#1	.0333	1.341
#2	-.4548	.1594
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Standardization Rpt. Mon 05-11-92 10:34:42 AM page 1

Method: CLPSEAS Standard: S30

Elem	Se	As
Avge	.163	.171
SDev	.000	.005
%RSD	.1987	3.191
#1	.163	.167
#2	.163	.175

Analysis Report QC Standard Mon 05-11-92 10:42:00 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/11/92 10:37:09
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	30.33	30.59
SDev	.99	.99
%RSD	3.273	3.243
#1	31.03	31.29
#2	29.62	29.89
Quality	101.1%OK	102.0%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 10:46:57 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 10:42:07
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.0025	.6123
SDev	.5044	.1213
%RSD	19940.	19.81
#1	.3542	.6981
#2	-.3592	.5265
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report Mon 05-11-92 10:51:50 AM page 1

Method: CLPSEAS Sample Name: PBW U1 492540 #10 Operator:
Run Time: 05/11/92 10:47:01
Comment: SDG:MERA30 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.6982	-.3072
SDev	.1216	.2457
%RSD	17.42	79.98
#1	-.6122	-.1335
#2	-.7842	-.4810
Limit	LC Pass	LC Pass
Upper	5.000	10.00
Lower	-5.000	-10.00

Analysis Report Mon 05-11-92 10:56:43 AM page 1

Method: CLPSEAS Sample Name: PBW A1 492540 #11 Operator:
Run Time: 05/11/92 10:51:54
Comment: SDG:MERA30 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.883	21.50
SDev	.643	.47
%RSD	6.506	2.171
#1	10.34	21.83
#2	9.429	21.17

SE- 98.8%
AS- 107.5%

Analysis Report Mon 05-11-92 11:01:39 AM page 1

Method: CLPSEAS Sample Name: LCSW U1 491251 #12 Operator:
Run Time: 05/11/92 10:56:49
Comment: SDG:MERA30 1:1 SE=LCSF AS=LCSF
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	19.21	31.84
SDev	.14	.86
%RSD	.7471	2.699
#1	19.31	31.23
#2	19.11	32.44
Limit	LC Pass	LC Pass
Upper	24.08	38.53
Lower	15.90	25.44

Analysis Report Mon 05-11-92 11:06:34 AM page 1

Method: CLPSEAS Sample Name: LCSW A1 491251 #13 Operator:
Run Time: 05/11/92 11:01:45
Comment: SDG:MERA30 1:1 SE=LCSF AS=LCSF
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	28.45	49.42
SDev	.72	.10
%RSD	2.548	.2058
#1	28.96	49.35
#2	27.94	49.49

SE- 92.4%
AS- 87.9%

\AADATA\JEM0511C.LOG.5

Analysis Report Mon 05-11-92 11:11:32 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491260 #14 Operator:
Run Time: 05/11/92 11:06:41
Comment: SDG:MERA30 1:1 SE/AS MERA32
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	3.594	8.710
SDev	2.907	1.305
%RSD	80.87	14.98
#1	5.650	9.632
#2	1.539	7.787

Analysis Report Mon 05-11-92 11:16:28 AM page 1

Method: CLPSEAS Sample Name: XXX A1 491260 #15 Operator:
Run Time: 05/11/92 11:11:35
Comment: SDG:MERA30 1:1 SE/AS MERA32A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	5.319	33.29
SDev	.067	.12
%RSD	1.255	.3692
#1	5.272	33.38
#2	5.366	33.21

SE - ~~0.0~~ 17.2% < 40% dilute & rerun JCD 5/25/92

AS- 122.9% "W"

Analysis Report Mon 05-11-92 11:21:22 AM page 1

Method: CLPSEAS Sample Name: DUP U1 491250 #16 Operator:
Run Time: 05/11/92 11:16:33
Comment: SDG:MERA30 1:1 SE/AS MERA32D
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.8512	5.237
SDev	.0215	1.185
%RSD	2.529	22.62
#1	.8360	6.074
#2	.8664	4.399

Analysis Report Mon 05-11-92 11:26:15 AM page 1

Method: CLPSEAS Sample Name: DUP A1 491250 #17 Operator:
Run Time: 05/11/92 11:21:26
Comment: SDG:MERA30 1:1 SE/AS MERA32DA
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	5.264	28.76
SDev	.048	.68
%RSD	.9143	2.360
#1	5.230	29.24
#2	5.298	28.28

SE- 52.6% "W"

AS - 117.6% "W" ~~MSA required~~ JCD 5/26/92

\AADATA\JEM0511C.LOG.6

Analysis Report Mon 05-11-92 11:31:10 AM page 1

Method: CLPSEAS Sample Name: SPK U1 491249 #18 Operator:
Run Time: 05/11/92 11:26:21
Comment: SDG:MERA30 1:1 SE/AS MERA32S
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	5.147	51.37
SDev	.422	1.59
%RSD	8.199	3.096
#1	5.445	52.49
#2	4.848	50.25

Analysis Report Mon 05-11-92 11:39:25 AM page 1

Method: CLPSEAS Sample Name: XXX U1 123123 Operator: JEM
Run Time: 05/11/92 11:34:39
Comment: SDG:INSERT 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	29.53	32.94
SDev	1.57	.98
%RSD	5.302	2.970
#1	30.64	33.63
#2	28.42	32.25

Analysis Report QC Standard Mon 05-11-92 11:44:34 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/11/92 11:39:44
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	30.12	32.71
SDev	.21	1.44
%RSD	.6846	4.400
#1	30.26	Q33.72
#2	29.97	31.69
Quality	100.4%OK	109.0%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 11:49:27 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 11:44:38
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.3797	.9867
SDev	.3367	.9503
%RSD	88.66	96.30
#1	.6178	1.659
#2	.1417	.3148
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

\AADATA\JEM0511C.LOG.7

Analysis Report Mon 05-11-92 12:01:37 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491248 #21 Operator:
Run Time: 05/11/92 11:56:48
Comment: SDG:MERA30 1:1 SE/AS MERA30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.5622	2.171
SDev	.4302	.768
%RSD	76.52	35.37
#1	.8664	2.715
#2	.2580	1.628

Analysis Report Mon 05-11-92 12:06:34 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491248 #22 Operator:
Run Time: 05/11/92 12:01:42
Comment: SDG:MERA30 1:1 SE/AS MERA30A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.874	23.80
SDev	.119	1.27
%RSD	6.377	5.349
#1	1.958	24.70
#2	1.789	22.90

SE - <40% recovery

AS - 119.0% "W"

Analysis Report Mon 05-11-92 12:11:27 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491252 #23 Operator:
Run Time: 05/11/92 12:06:38
Comment: SDG:MERA30 1:1 SE/AS MERA31
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.0025	1.284
SDev	.2611	.608
%RSD	10320.	47.34
#1	.1872	1.714
#2	-.1821	.8545

Analysis Report Mon 05-11-92 12:16:25 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491252 #24 Operator:
Run Time: 05/11/92 12:11:33
Comment: SDG:MERA30 1:1 SE/AS MERA31A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.507	24.40
SDev	.826	.38
%RSD	54.85	1.550
#1	.9224	24.13
#2	2.091	24.66

SE < 40% recovery

AS - 122.0% "W"

Analysis Report Mon 05-11-92 12:21:20 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491263 #25 Operator:
Run Time: 05/11/92 12:16:30
Comment: SDG:MERA30 1:1 SE/AS MERA33
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.846	.6787
SDev	.774	.9348
%RSD	41.93	137.7
#1	2.394	1.340
#2	1.299	.0176

Analysis Report Mon 05-11-92 12:26:14 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491263 #26 Operator:
Run Time: 05/11/92 12:21:23
Comment: SDG:MERA30 1:1 SE/AS MERA33A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	10.31	21.12
SDev	1.24	.13
%RSD	11.99	.6064
#1	11.19	21.03
#2	9.439	21.22

SE- 103.1%

AS- 105.6%

Analysis Report Mon 05-11-92 12:31:08 PM page 1

Method: CLPSEAS Sample Name: PBS U1 492947 #27 Operator:
Run Time: 05/11/92 12:26:18
Comment: SDG:SD0267 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.2277	.0504
SDev	.1216	.1389
%RSD	53.43	275.8
#1	-.3137	.1486
#2	-.1417	-.0478
Limit	LC Pass	LC Pass
Upper	5.000	10.00
Lower	-5.000	-10.00

Analysis Report Mon 05-11-92 12:36:03 PM page 1

Method: CLPSEAS Sample Name: PBS A1 492947 #28 Operator:
Run Time: 05/11/92 12:31:14
Comment: SDG:SD0267 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	10.10	23.09
SDev	1.07	.86
%RSD	10.63	3.715
#1	10.85	23.70
#2	9.337	22.48

SE- 101.0

AS- 115.4%

\AADATA\JEM0511C.LOG.9

Analysis Report Mon 05-11-92 12:41:00 PM page 1

Method: CLPSEAS Sample Name: XXX U1 123123 #29 Operator:
Run Time: 05/11/92 12:36:10
Comment: SDG:INSERT 1:1 SE/AS TESTSS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.5768	.1108
SDev	.1789	.0249
%RSD	31.01	22.50
#1	-.4503	.1284
#2	-.7032	.0932

Analysis Report Mon 05-11-92 12:45:52 PM page 1

Method: CLPSEAS Sample Name: XXX A1 123123 #30 Operator:
Run Time: 05/11/92 12:41:03
Comment: SDG:INSERT 1:1 SE/AS TESTSSA
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.658	21.81
SDev	.011	.82
%RSD	.1185	3.751
#1	9.666	21.23
#2	9.650	22.39

Analysis Report QC Standard Mon 05-11-92 12:50:46 PM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/11/92 12:45:56
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	29.85	29.90
SDev	.21	.81
%RSD	.7193	2.713
#1	30.00	30.48
#2	29.69	29.33
Quality	99.5% OK	99.7% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 12:55:39 PM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 12:50:50
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.1290	.6854
SDev	.0894	.1320
%RSD	69.32	19.26
#1	-.1923	.5921
#2	-.0658	.7788
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

\AADATA\JEM0511C.LOG.10

Analysis Report Mon 05-11-92 01:42:22 PM page 1

Method: CLPSEAS Sample Name: LCSS U1 491743 #33 Operator:
Run Time: 05/11/92 13:37:32
Comment: SDG:SD0267 1:200 AS=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.2201	20.18
SDev	.0036	.44
%RSD	1.625	2.204
#1	.2175	19.86
#2	.2226	20.49
Limit	NOCHECK	LC Pass
Upper		29.98
Lower		15.88

Analysis Report Mon 05-11-92 01:47:18 PM page 1

Method: CLPSEAS Sample Name: LCSS A1 491743 #34 Operator:
Run Time: 05/11/92 13:42:26
Comment: SDG:SD0267 1:200 AS=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	11.42	44.40
SDev	.53	.73
%RSD	4.676	1.644
#1	11.80	44.92
#2	11.05	43.89

AS - 121.1%

Analysis Report Mon 05-11-92 01:58:35 PM page 1

Method: CLPSEAS Sample Name: LCSS U1 491743 #35 Operator:
Run Time: 05/11/92 13:53:47
Comment: SDG:SD0267 1:10 SE=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	16.17	R194.3
SDev	1.09	.2
%RSD	6.745	.0861
#1	16.94	R194.1
#2	15.40	R194.4
Limit	LC Pass	NOCHECK
Upper	29.70	
Lower	9.550	

Analysis Report Mon 05-11-92 02:03:31 PM page 1

Method: CLPSEAS Sample Name: LCSS A1 491743 #36 Operator:
Run Time: 05/11/92 13:58:42
Comment: SDG:SD0267 1:10 SE=LCS287
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	26.31	R199.0
SDev	.96	5.3
%RSD	3.631	2.649
#1	26.99	R202.7
#2	25.64	R195.3

SE - 101.4%

\AADATA\JEM0511C.LOG.11

Analysis Report Mon 05-11-92 02:08:27 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491740 #37 Operator:
Run Time: 05/11/92 14:03:38
Comment: SDG:SD0267 1:1 SE/AS SD0267
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.6666	36.19
SDev	.5921	5.68
%RSD	88.82	15.70
#1	1.085	40.21
#2	.2479	32.17

Analysis Report Mon 05-11-92 02:13:23 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491740 #38 Operator:
Run Time: 05/11/92 14:08:30
Comment: SDG:SD0267 1:1 SE/AS SD0267A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.564	52.68
SDev	.328	1.92
%RSD	3.434	3.653
#1	9.796	54.04
#2	9.332	51.32

SE - 95.6%

AS - 82.4% "MSA req"

Analysis Report Mon 05-11-92 02:18:16 PM page 1

Method: CLPSEAS Sample Name: DUP U1 491742 #39 Operator:
Run Time: 05/11/92 14:13:26
Comment: SDG:SD0267 1:1 SE/AS SD0267D
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.4987	17.24
SDev	.2402	1.62
%RSD	48.16	9.393
#1	.3289	18.39
#2	.6685	16.10

Analysis Report Mon 05-11-92 02:23:12 PM page 1

Method: CLPSEAS Sample Name: DUP A1 491742 #40 Operator:
Run Time: 05/11/92 14:18:21
Comment: SDG:SD0267 1:1 SE/AS SD0267DA
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.497	37.62
SDev	.508	.29
%RSD	5.346	.7782
#1	9.855	37.41
#2	9.138	37.82

SE - 95.0%

AS - 101.9%

\AADATA\JEM0511C.LOG.12

Analysis Report Mon 05-11-92 02:28:07 PM page 1

Method: CLPSEAS Sample Name: SPK U1 491741 #41 Operator:
Run Time: 05/11/92 14:23:16
Comment: SDG:SD0267 1:1 SE/AS SD0267S
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	7.355	57.51
SDev	.996	1.52
%RSD	13.54	2.639
#1	6.651	56.44
#2	8.060	58.59

Analysis Report Mon 05-11-92 02:34:31 PM page 1

Method: CLPSEAS Sample Name: XXX U1 123123 Operator: JEM
Run Time: 05/11/92 14:29:46
Comment: SDG:INSERT 1:1 SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	30.74	32.75
SDev	.92	2.13
%RSD	2.991	6.505
#1	31.39	34.26
#2	30.09	31.25

Analysis Report QC Standard Mon 05-11-92 02:39:56 PM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/11/92 14:35:06
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	29.65	29.69
SDev	1.11	1.54
%RSD	3.735	5.202
#1	30.43	30.79
#2	28.86	28.60
Quality	98.8% OK	99.0% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 02:44:51 PM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 14:40:02
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.1923	1.647
SDev	.3578	1.035
%RSD	186.1	62.85
#1	.4452	2.379
#2	-.0607	.9151
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

INORGANIC CASE

END AS RUN

19026 MERA 30

\AADATA\JEM0511C.LOG.13

Analysis Report Mon 05-11-92 02:49:47 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491748 #44 Operator:
Run Time: 05/11/92 14:44:55
Comment: SDG:SD0267 1:1 SE/AS SD0268
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.9199	26.50
SDev	.1690	.64
%RSD	18.37	2.431
#1	1.039	26.95
#2	.8004	26.04

Analysis Report Mon 05-11-92 02:54:46 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491748 #45 Operator:
Run Time: 05/11/92 14:49:54
Comment: SDG:SD0267 1:1 SE/AS SD0268A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.653	48.45
SDev	.592	.60
%RSD	6.136	1.236
#1	10.07	48.87
#2	9.234	48.03

SE - 96.5%

~~AS - 109.8%~~ 5/26/92

Analysis Report Mon 05-11-92 02:59:39 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491749 #46 Operator:
Run Time: 05/11/92 14:54:50
Comment: SDG:SD0267 1:1 SE/AS SD0289
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.4356	20.69
SDev	.4657	.23
%RSD	106.9	1.124
#1	.7649	20.52
#2	.1062	20.85

Analysis Report Mon 05-11-92 03:04:35 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491749 #47 Operator:
Run Time: 05/11/92 14:59:46
Comment: SDG:SD0267 1:1 SE/AS SD0289A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.385	42.32
SDev	.008	1.66
%RSD	.0813	3.919
#1	9.380	43.50
#2	9.391	41.15

SE - 93.8%

~~AS - 108.2%~~ JCD 5/26/92

\AADATA\JEM0511C.LOG.14

Analysis Report Mon 05-11-92 03:09:30 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491750 #48 Operator:
Run Time: 05/11/92 15:04:41
Comment: SDG:SD0267 1:1 SE/AS SD0270
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	1.572	17.72
SDev	.422	.94
%RSD	26.87	5.291
#1	1.871	18.39
#2	1.274	17.06

Analysis Report Mon 05-11-92 03:14:24 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491750 #49 Operator:
Run Time: 05/11/92 15:09:34
Comment: SDG:SD0267 1:1 SE/AS SD0270A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	8.761	39.65
SDev	.357	.20
%RSD	4.073	.5112
#1	8.509	39.50
#2	9.014	39.79

SE- 87.6%

~~AS- 109.6%~~ JCD 5/26/92

Analysis Report Mon 05-11-92 03:19:21 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491751 #50 Operator:
Run Time: 05/11/92 15:14:27
Comment: SDG:SD0267 1:1 SE/AS SD0271
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	2.437	18.95
SDev	.178	.89
%RSD	7.300	4.690
#1	2.312	19.58
#2	2.563	18.32

Analysis Report Mon 05-11-92 03:24:14 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491751 #51 Operator:
Run Time: 05/11/92 15:19:24
Comment: SDG:SD0267 1:1 SE/AS SD0271A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	12.08	40.44
SDev	.04	1.45
%RSD	.2898	3.584
#1	12.10	41.46
#2	12.05	39.41

SE- 120.8% "W"

~~AS- 107.4%~~ JCD 5/26/92

\AADATA\JEM0511C.LOG.15

Analysis Report Mon 05-11-92 03:29:11 PM page 1

Method: CLPSEAS Sample Name: XXX U1 123123 #52 Operator:
Run Time: 05/11/92 15:24:19
Comment: SDG:INSERT 1:1 SE/AS TESTSS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	30.96	26.71
SDev	.19	.43
%RSD	.6126	1.594
#1	31.10	26.41
#2	30.83	27.01

Analysis Report QC Standard Mon 05-11-92 03:35:54 PM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/11/92 15:31:04
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	31.68	Q25.72
SDev	.55	1.68
%RSD	1.721	6.531
#1	32.06	26.91
#2	31.29	Q24.54
Quality	105.6%OK	85.7% LO
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 03:44:00 PM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/11/92 15:39:10
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.0126	1.164
SDev	.4114	1.123
%RSD	3253.	96.44
#1	.3036	1.958
#2	-.2783	.3702
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

*** END OF \AADATA\JEM0511C.LOG ***

ORIGINAL DATA IS IN MERA30

A292051211 05

COMPUCHEM LABORATORIES, INC.

ATOMIC ABSORPTION RAW DATA PACKAGE

Analyst Eric S. Vidacovich Date 05/12/92 SDG MERA30

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

Se Only AV 5/12/92

AA Spectrophotometer Instrument ID A2

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 05/12/92

Preparer Eric S. Vidacovich

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 0.121

Channel B 0.154

Correlation Coeff.

Channel A 0.997965

Channel B 0.998098

INORGANIC CASE

19026 MERA 30

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 1 Date: 05/12/92

Operator: ERIC S. VIDAKOVICH

Case Name MERA30

Filename EV0512A

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1			
	ICB			2			
1	CRA			3			
2				4			
3				5			
4				6			
5				7			
6				8			
7				9			
8				10			
9					CCV		
10					CCB		
	CCV			1			
	CCB			2			
1	491260	5X		3			
2	491260	5XA		4			
3	491248	5X		5			
4	491248	5XA		6			
5	491252	5X		7			
6	491252	5XA		8			
7	123123			9			
8	123123			10			
9					CCV		
10					CCB		
	CCV						
	CCB						

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours			

Reviewed By: [illegible] Date: 5/29/92

INORGANIC CASE

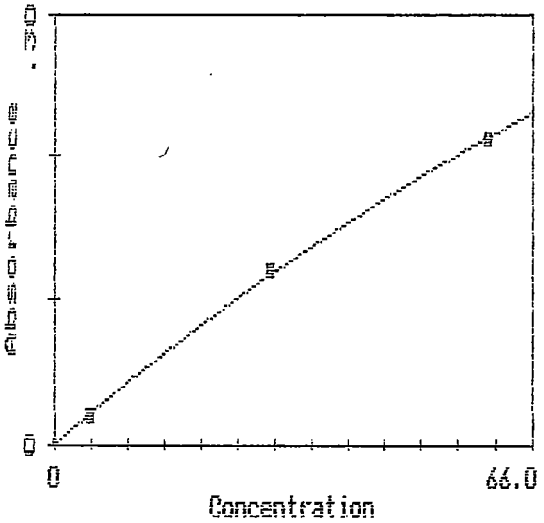
COMPUCHEM LABS 9026 MERA 30 8

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

Correlation Coefficient: .997965

Coefficients
a1 = .004302
a2 = -.000012 Abs : .020436
a3 = 0 Conc : 4.81752

Fit Quadratic



Date: 12 May 92 11:14
Slope corr.: 1

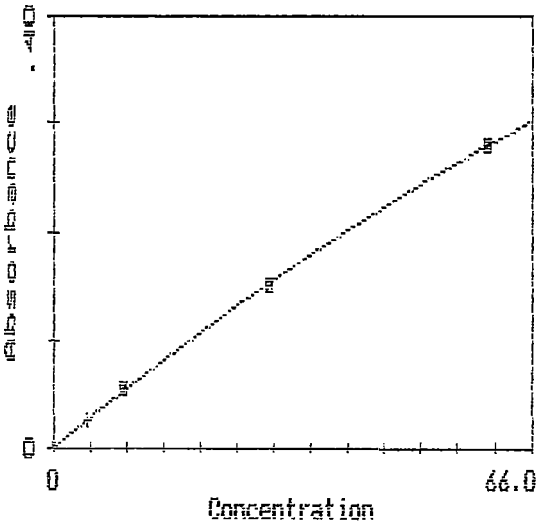
Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.120015	.019597	.212074
Known conc.:	0	30	5	60
Calc. conc.:	0.0000	30.0279	4.61725	59.5266
Residual:	0.0000	.027897	-.382751	-.473385

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

Correlation Coefficient: .998098

Coefficients
a1 = .00565
a2 = -.000016 Abs : .026836
a3 = 0 Conc : 4.81752

Fit Quadratic



Date: 12 May 92 11:14
Slope corr.: 1

Standard:	S0	S30	CRA	S60
Absorbance:	0.0000	.153664	.055466	.208168
Known conc.:	0	30	10	60
Calc. conc.:	0.0000	29.781	10.1153	60.1099
Residual:	0.0000	-.218973	.115329	.109886

\AADATA\EV0512A.LOG.1

Analysis Report Blank Sample Tue 05-12-92 11:05:03 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/12/92 11:00:15
Comment:
Mode: Abs/Ei Corr. Factor: 1

Se Only
EW 5/12/92

Elem	Se	As
Avge	.009	.010
SDev	.012	.008
%RSD	141.9	75.03
#1	.017	.016
#2	-.000	.005

Standardization Rpt. Tue 05-12-92 11:09:55 AM page 1

Method: CLPSEAS Standard: S30

Elem	Se	As
Avge	.121	.154
SDev	.001	.002
%RSD	.6784	1.151
#1	.120	.152
#2	.121	.155

Standardization Rpt. Tue 05-12-92 11:14:48 AM page 1

Method: CLPSEAS Standard: CRA

Elem	Se	As
Avge	.020	.055
SDev	.015	.012
%RSD	76.93	21.19
#1	.030	.064
#2	.009	.047

Standardization Rpt. Tue 05-12-92 11:19:40 AM page 1

Method: CLPSEAS Standard: S60

Elem	Se	As
Avge	.212	.280
SDev	.004	.010
%RSD	1.851	3.487
#1	.215	.287
#2	.209	.273

Analysis Report QC Standard Tue 05-12-92 11:25:39 AM page 1

Method: CLPSEAS Sample Name: ICV Operator:
Run Time: 05/12/92 11:20:52
Comment: ICV SE=50.3 AS=50.4
Mode: Conc Corr. Factor: 1

df 1:2

Elem	Se	As
Units	ppb	ppb
Avge	25.30	24.61
SDev	1.20	.10
%RSD	4.734	.3986
#1	26.14	24.68
#2	24.45	24.54
Quality	100.6%OK	97.7% OK
Standard	25.15	25.20
Range	10.5%	10.5%

\AADATA\EV0512A.LOG.2

Analysis Report QC Standard Tue 05-12-92 11:30:30 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/12/92 11:25:43
Comment: ICB SE/AS
Mode: Conc Corr. Factor: 1

Se Only
EV
5/12/92

Elem	Se	As
Units	ppb	ppb
Avge	-1.363	-.7893
SDev	.462	1.2921
%RSD	33.88	163.7
#1	-1.037	.1243
#2	-1.690	-1.703
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report QC Standard Tue 05-12-92 11:35:21 AM page 1

Method: CLPSEAS Sample Name: CRA Operator:
Run Time: 05/12/92 11:30:34
Comment: CRA SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	Q3.015	8.673
SDev	.393	.177
%RSD	13.03	2.040
#1	Q3.293	8.548
#2	Q2.737	8.799
Quality	60.3% LO	86.7% OK
Standard	5.000	10.00
Range	20.0%	20.0%

Analysis Report QC Standard Tue 05-12-92 11:40:10 AM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/12/92 11:35:24
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	30.97	30.70
SDev	.21	.61
%RSD	.6903	1.984
#1	31.12	31.13
#2	30.82	30.27
Quality	103.2%OK	102.3%OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\EV0512A.LOG.3

Analysis Report QC Standard Tue 05-12-92 11:45:00 AM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/12/92 11:40:14
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Se only

Elem	Se	As
Units	ppb	ppb
Avge	-.8162	.1054
SDev	2.1895	2.122
%RSD	268.3	2013.
#1	.7320	1.606
#2	-2.364	-1.395
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

ELV 5/12/92

Analysis Report Tue 05-12-92 11:55:18 AM page 1

Method: CLPSEAS Sample Name: XXX U1 491260 #10 Operator:
Run Time: 05/12/92 11:50:30
Comment: SDG:MERA30 1:5 SE MERA32
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.9032	.8658
SDev	.4335	.6622
%RSD	47.99	76.21
#1	1.210	1.317
#2	.5967	.3946

Analysis Report Tue 05-12-92 12:00:09 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491260 #11 Operator:
Run Time: 05/12/92 11:55:22
Comment: SDG:MERA30 1:5 SE MERA32A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	12.32	22.58
SDev	.04	.31
%RSD	.3066	1.363
#1	12.29	22.79
#2	12.34	22.36

SE - 123.2% "W"

Analysis Report Tue 05-12-92 12:05:00 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491248 #12 Operator:
Run Time: 05/12/92 12:00:13
Comment: SDG:MERA30 1:5 SE MERA30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	.4248	.4989
SDev	1.565	1.080
%RSD	368.3	216.5
#1	1.531	1.263
#2	-.6816	-.2649

\AADATA\EV0512A.LOG.4

Analysis Report Tue 05-12-92 12:09:51 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491248 #13 Operator:
Run Time: 05/12/92 12:05:04
Comment: SDG:MERA30 1:5 SE MERA30A
Mode: Conc Corr. Factor: 1

Se only
EW
5/12/92

Elem	Se	As
Units	ppb	ppb
Avge	10.16	18.91
SDev	.45	1.06
%RSD	4.453	5.625
#1	10.48	18.16
#2	9.845	19.67

SE - 101.6%

Analysis Report Tue 05-12-92 12:14:40 PM page 1

Method: CLPSEAS Sample Name: XXX U1 491252 #14 Operator:
Run Time: 05/12/92 12:09:54
Comment: SDG:MERA30 1:5 SE MERA31
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-2.247	-1.803
SDev	.909	.004
%RSD	40.44	.2120
#1	-1.605	-1.800
#2	-2.890	-1.806

Analysis Report Tue 05-12-92 12:19:30 PM page 1

Method: CLPSEAS Sample Name: XXX A1 491252 #15 Operator:
Run Time: 05/12/92 12:14:44
Comment: SDG:MERA30 1:5 SE MERA31A
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	9.218	18.40
SDev	.101	.78
%RSD	1.092	4.253
#1	9.147	17.85
#2	9.289	18.95

SE - 92.2% 'lv

Analysis Report Tue 05-12-92 12:25:06 PM page 1

Method: CLPSEAS Sample Name: XXX U1 123123 #18 Operator:
Run Time: 05/12/92 12:20:20
Comment: SDG:INSERT 1:1 SE/AS TESTSS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-2.655	-1.760
SDev	.382	.463
%RSD	14.37	26.29
#1	-2.386	-1.433
#2	-2.925	-2.087

\AADATA\EV0512A.LOG.5

Analysis Report Tue 05-12-92 12:29:57 PM page 1

Method: CLPSEAS Sample Name: XXX A1 123123 #19 Operator:
Run Time: 05/12/92 12:25:10
Comment: SDG:INSERT 1:1 SE/AS TESTSSA
Mode: Conc Corr. Factor: 1

Se only
EJV 5/12/92

Elem	Se	As
Units	ppb	ppb
Avge	7.620	17.83
SDev	.010	.15
%RSD	.1375	.8599
#1	7.627	17.73
#2	7.612	17.94

Analysis Report QC Standard Tue 05-12-92 12:34:48 PM page 1

Method: CLPSEAS Sample Name: S30 Operator:
Run Time: 05/12/92 12:30:01
Comment: CCV SE=30 AS=30
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	29.87	28.99
SDev	1.21	2.32
%RSD	4.057	8.002
#1	30.72	30.63
#2	29.01	27.35
Quality	99.6% OK	96.6% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Tue 05-12-92 12:39:39 PM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/12/92 12:34:52
Comment: CCB SE/AS
Mode: Conc Corr. Factor: 1

Elem	Se	As
Units	ppb	ppb
Avge	-.7739	-.6074
SDev	1.0844	2.2603
%RSD	140.1	372.1
#1	-.0071	.9908
#2	-1.541	-2.206
Quality	OK	OK
Standard	.0000	.0000
Range	5.000	10.00

Analysis Report Blank Sample Tue 05-12-92 12:49:53 PM page 1

Method: CLPSEAS Sample Name: S0 Operator:
Run Time: 05/12/92 12:45:10
Comment:
Mode: Abs/Ei Corr. Factor: 1

EJV 5/12/92

Elem	Se	As
Avge	-.012	-.013
SDev	.003	.002
%RSD	25.04	14.27
#1	-.010	-.012
#2	-.014	-.015

DATA NOT USED
EJV 5/12/92

INORGANIC CASE

19026 MERA 30

COMPUCHEM LABORATORIES, INC.

ORIGINAL DATA IS IN MERA30

A19205110930

ATOMIC ABSORPTION RAW DATA PACKAGE

Analyst James Medlin Date 5/11/92 SDG MERA30 SD0267

	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 5/11/92

Preparer RCW

Concentration Units ug/L

Matrix Modifier(s)

Standard Concentrations

Pb	Tl
0	0
30	30
3	10
60	60

Performance Check – 30 ug/L STANDARD ABSORBANCES

Channel A 0. 224

Channel B 0. 131

Correlation Coeff.

Channel A 0. 9974

Channel B 0. 9978

Furnace AAS Runlog

A1

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: 5/11/92

Operator: James Medlin

Case Name MERA30

Filename JEM0511B

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV	ICV-1		1	491248		
	ICB			2	491248	A	
1	CRA			3	491252		
2				4	491252	A	
3				5	491263		
4				6	491263	A	
5				7	492947	PBS	
6				8	492947	PBS A	
7				9			
8				10	JEM 5/6/92		
9					CCV		
10					CCB		
	CCV			1	491743	LCSS 1:50	
	CCB			2	491743	LCSS 1:50	A
1	492540	PBW		3	491743	LCSS 1:10	
2	492540	PBW A		4	491743	LCSS 1:10	A
3	491251	LCSW 2:25		5	491740		
4	491251	LCSW 2:25	A	6	491740	A	
5	491260			7	491742	D(491740)	
6	491260	A		8	491742	Dup. A	
7	491250	D(491260)		9	491741	SS(491740)	
8	491250	Dup. A		10	123123		
9	491249	SS(491260)			CCV		
10	123123				CCB		
	CCV						
	CCB						

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours	JEM 5/11/92		JEM 5/11/92

Reviewed By: [signature] Date: 5-11-92

INORGANIC CASE

19026 MERA 30

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COMPUCHEM LABS LOGBOOK IN 9

1177

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: 5/11/92

Operator: J. Medlin

Case Name MERA30; SD02167

Filename JEM051IC

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV JEM 5/11/92			1	491757		
	ICB			2	491757	A	
1	491748			3	491757		
2	491748	A		4	491757	A	
3	491749			5	491758		
4	491749	A		6	491758	A	
5	491750			7	491759		
6	491750	A		8	491759	A	
7	491751			9	123123		
8	491751	A		10	—	—	
9	123123				CCV		
10	—	—			CCB		
	CCV			1	491760		
	CCB			2	491760	A	
1	491752			3	491761		
2	491752	A		4	491761	A	
3	491753			5	491762		
4	491753	A		6	491762	A	
5	491754			7	491248	1:5	
6	491754	A		8	491248	1:5 A (Pb RSD>20)	
7	491755			9	491248	1:5 A	
8	491755	A		10	123123		
9	123123				CCV		
10	—	—			CCB		
	CCV						
	CCB						

# Injects		#Pst. Dig. Spk.	
# Samples		Calib. QC	
# Dilutions		QC Samples	
Inst. Hours	JEM 5/11/92		JEM 5/11/92

Reviewed By: R C Wagner Date: 5-11-92

INORGANIC CASE

COMPUTER LOG BOOK IN 9

19026 MERA 30

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\AADATA\JEM0511B.LOG.1

Analysis Report Blank Sample Mon 05-11-92 09:30:10 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 09:26:04
Comment:
Mode: Abs/Ei Corr. Factor: 1

Elem	Pb	Tl
Avge	.011	-.000
SDev	.005	.003
%RSD	47.27	848.5
#1	.015	.002
#2	.008	-.002

Standardization Rpt. Mon 05-11-92 09:34:18 AM page 1

Method: PRODPBTL Standard: S30

Elem	Pb	Tl
Avge	.224	.131
SDev	.002	.003
%RSD	1.061	1.955
#1	.225	.133
#2	.222	.129

Standardization Rpt. Mon 05-11-92 09:38:28 AM page 1

Method: PRODPBTL Standard: CRA

Elem	Pb	Tl
Avge	.023	.044
SDev	.004	.003
%RSD	15.61	6.664
#1	.026	.046
#2	.021	.042

Standardization Rpt. Mon 05-11-92 09:42:38 AM page 1

Method: PRODPBTL Standard: S60

Elem	Pb	Tl
Avge	.388	.231
SDev	.003	.002
%RSD	.7560	1.065
#1	.390	.233
#2	.386	.229

Analysis Report QC Standard Mon 05-11-92 09:47:58 AM page 1

Method: PRODPBTL Sample Name: ICV Operator:
Run Time: 05/11/92 09:43:51
Comment: ICV PB=32.0 TL=20.0
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	33.56	20.19
SDev	.14	.86
%RSD	.4091	4.257
#1	33.66	20.80
#2	33.46	19.58
Quality	104.9%OK	100.9%OK
Standard	32.00	20.00
Range	10.5%	10.5%

\AADATA\JEM0511B.LOG.2

Analysis Report QC Standard Mon 05-11-92 09:52:08 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 09:48:03
Comment: ICB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.0093	-.0974
SDev	.0393	.1837
%RSD	424.3	188.6
#1	-.0185	.0325
#2	.0371	-.2273
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report QC Standard Mon 05-11-92 09:56:17 AM page 1

Method: PRODPBTL Sample Name: CRA Operator:
Run Time: 05/11/92 09:52:11
Comment: CRA PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	2.501	9.482
SDev	.061	.078
%RSD	2.454	.8194
#1	2.457	9.427
#2	2.544	9.537
Quality	83.4% OK	94.8% OK
Standard	3.000	10.00
Range	20.0%	20.0%

Analysis Report QC Standard Mon 05-11-92 10:00:27 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 09:56:22
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	31.01	31.40
SDev	.23	1.00
%RSD	.7579	3.176
#1	30.84	32.11
#2	31.17	30.70
Quality	103.4%OK	104.7%OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\JEM0511B.LOG.3

Analysis Report QC Standard Mon 05-11-92 10:04:35 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 10:00:31
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.3745	-.0195
SDev	.4615	.0918
%RSD	123.2	471.4
#1	-.0482	-.0844
#2	-.7009	.0455
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Mon 05-11-92 10:08:45 AM page 1

Method: PRODPBTL Sample Name: PBW U1 492540 #10 Operator:
Run Time: 05/11/92 10:04:40
Comment: SDG:MERA30 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.6663	-.1072
SDev	.1605	.1332
%RSD	24.09	124.3
#1	.5528	-.0130
#2	.7798	-.2013
Limit	LC Pass	LC Pass
Upper	3.000	10.00
Lower	-3.000	-10.00

Analysis Report Mon 05-11-92 10:12:55 AM page 1

Method: PRODPBTL Sample Name: PBW A1 492540 #11 Operator:
Run Time: 05/11/92 10:08:51
Comment: SDG:MERA30 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	21.14	19.25
SDev	.09	.34
%RSD	.4218	1.775
#1	21.08	19.49
#2	21.20	19.01

Pb- 105.7%

Tl- 96.2%

INORGANIC CASE

19026 MERA 30

\AADATA\JEM0511B.LOG.4

Analysis Report Mon 05-11-92 10:17:04 AM page 1

Method: PRODPBTL Sample Name: LCSW U1 491251 #12 Operator:
Run Time: 05/11/92 10:12:59
Comment: SDG:MERA30 1:1 PB=LCSF TL=LCSF
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.98	19.00
SDev	.08	.02
%RSD	.2486	.0816
#1	33.04	19.01
#2	32.93	18.99
Limit	LC Pass	LC Pass
Upper	38.53	24.08
Lower	25.44	15.90

Analysis Report Mon 05-11-92 10:21:18 AM page 1

Method: PRODPBTL Sample Name: LCSW A1 491251 #13 Operator:
Run Time: 05/11/92 10:17:12
Comment: SDG:MERA30 1:1 PB=LCSF TL=LCSF
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	53.26	38.61
SDev	.05	.18
%RSD	.0947	.4777
#1	53.30	38.74
#2	53.22	38.48

Pb- 101.4%
Tl- 98.0%

Analysis Report Mon 05-11-92 10:25:30 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491260 #14 Operator:
Run Time: 05/11/92 10:21:24
Comment: SDG:MERA30 1:1 PB/TL MERA32
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	.0111	.0227
SDev	.0472	.3077
%RSD	424.3	1354.
#1	.0445	.2403
#2	-.0223	-.1948

Analysis Report Mon 05-11-92 10:29:41 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491260 #15 Operator:
Run Time: 05/11/92 10:25:36
Comment: SDG:MERA30 1:1 PB/TL MERA32A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	10.69	13.60
SDev	.09	.34
%RSD	.7955	2.495
#1	10.75	13.84
#2	10.63	13.36

Pb- 53.4% "W"
Tl- 68.0% "W"

\AADATA\JEM0511B.LOG.5

Analysis Report Mon 05-11-92 10:33:49 AM page 1

Method: PRODPBTL Sample Name: DUP U1 491250 #16 Operator:
Run Time: 05/11/92 10:29:45
Comment: SDG:MERA30 1:1 PB/TL MERA32D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.7676	-.4611
SDev	.1678	.1745
%RSD	21.86	37.85
#1	-.6490	-.5845
#2	-.8863	-.3377

Analysis Report Mon 05-11-92 10:38:01 AM page 1

Method: PRODPBTL Sample Name: DUP A1 491250 #17 Operator:
Run Time: 05/11/92 10:33:52
Comment: SDG:MERA30 1:1 PB/TL MERA32DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	9.535	13.34
SDev	.272	.60
%RSD	2.856	4.517
#1	9.728	13.77
#2	9.342	12.91

Pb - 47.7% "W"
Tl - 66.7% "W"

Analysis Report Mon 05-11-92 10:42:16 AM page 1

Method: PRODPBTL Sample Name: SPK U1 491249 #18 Operator:
Run Time: 05/11/92 10:38:07
Comment: SDG:MERA30 1:1 PB/TL MERA32S
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	9.218	34.28
SDev	.059	.62
%RSD	.6389	1.813
#1	9.176	34.72
#2	9.259	33.84

Analysis Report Mon 05-11-92 10:49:45 AM page 1

Method: PRODPBTL Sample Name: XXX U1 123123 Operator: JEM
Run Time: 05/11/92 10:45:44
Comment: SDG:INSERT 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.25	30.08
SDev	.41	.41
%RSD	1.366	1.354
#1	30.54	30.37
#2	29.95	29.79

\AADATA\JEM0511B.LOG.6

Analysis Report QC Standard Mon 05-11-92 10:54:30 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 10:50:25
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.95	30.54
SDev	.87	.92
%RSD	2.796	3.007
#1	31.56	31.19
#2	30.34	29.89
Quality	103.2%OK	101.8%OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 10:58:38 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 10:54:33
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.3467	-.5585
SDev	.1075	.2480
%RSD	31.01	44.40
#1	-.2707	-.3832
#2	-.4228	-.7339
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Mon 05-11-92 11:02:50 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491248 #21 Operator:
Run Time: 05/11/92 10:58:44
Comment: SDG:MERA30 1:1 PB/TL MERA30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-1.480	-.6137
SDev	.052	.3720
%RSD	3.544	60.61
#1	-1.517	-.3507
#2	-1.443	-.8767

Analysis Report Mon 05-11-92 11:07:00 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491248 #22 Operator:
Run Time: 05/11/92 11:02:54
Comment: SDG:MERA30 1:1 PB/TL MERA30A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	7.919	12.56
SDev	.161	.54
%RSD	2.032	4.338
#1	8.033	12.18
#2	7.805	12.95

Pb- 39.6% "W"

Tl- 62.8% "W"

INORGANIC CASE

19026 MERA 30

\AADATA\JEM0511B.LOG.7

Analysis Report Mon 05-11-92 11:11:12 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491252 #23 Operator:
Run Time: 05/11/92 11:07:06
Comment: SDG:MERA30 1:1 PB/TL MERA31
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.9605	-.3897
SDev	.1364	.1378
%RSD	14.20	35.36
#1	-1.057	-.2922
#2	-.8640	-.4871

Analysis Report Mon 05-11-92 11:15:22 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491252 #24 Operator:
Run Time: 05/11/92 11:11:15
Comment: SDG:MERA30 1:1 PB/TL MERA31A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	8.591	12.59
SDev	.111	.00
%RSD	1.296	.0394
#1	8.670	12.59
#2	8.513	12.58

Pb - 43.0% "W"
Tl - 63.0% "W"

Analysis Report Mon 05-11-92 11:19:34 AM page 1

Method: PRODPBTL Sample Name: XXX U1 491263 #25 Operator:
Run Time: 05/11/92 11:15:27
Comment: SDG:MERA30 1:1 PB/TL MERA33
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.1502	-.3052
SDev	.2491	.0367
%RSD	165.9	12.04
#1	.0260	-.3312
#2	-.3263	-.2793

Analysis Report Mon 05-11-92 11:23:43 AM page 1

Method: PRODPBTL Sample Name: XXX A1 491263 #26 Operator:
Run Time: 05/11/92 11:19:37
Comment: SDG:MERA30 1:1 PB/TL MERA33A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	19.15	17.89
SDev	1.08	.30
%RSD	5.632	1.692
#1	18.38	18.11
#2	19.91	17.68

Pb - 95.8%
Tl - 89.4%

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Analysis Report Mon 05-11-92 11:27:53 AM page 1

Method: PRODPBTL Sample Name: PBS U1 492947 #27 Operator:
Run Time: 05/11/92 11:23:48
Comment: SDG:SD0267 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.3541	-.5975
SDev	.0498	.3306
%RSD	14.07	55.34
#1	-.3189	-.3637
#2	-.3894	-.8313
Limit	LC Pass	LC Pass
Upper	3.000	10.00
Lower	-3.000	-10.00

Analysis Report Mon 05-11-92 11:32:01 AM page 1

Method: PRODPBTL Sample Name: PBS A1 492947 #28 Operator:
Run Time: 05/11/92 11:27:56
Comment: SDG:SD0267 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	21.29	19.39
SDev	.60	.14
%RSD	2.809	.7220
#1	21.71	19.49
#2	20.86	19.29

Pb - 106.4%
Tl - 97.0%

Analysis Report QC Standard Mon 05-11-92 11:36:26 AM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 11:32:21
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.04	29.43
SDev	.95	.91
%RSD	3.178	3.076
#1	30.72	30.07
#2	29.37	28.79
Quality	100.1%OK	98.1% OK
Standard	30.00	30.00
Range	10.5%	10.5%

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Analysis Report QC Standard Mon 05-11-92 11:40:36 AM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 11:36:31
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.8029	-.6170
SDev	.4012	.0459
%RSD	49.97	7.443
#1	-.5192	-.5845
#2	-1.087	-.6494
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Mon 05-11-92 11:46:59 AM page 1

Method: PRODPBTL Sample Name: LCSS U1 491743 #33 Operator:
Run Time: 05/11/92 11:42:52
Comment: SDG:SD0267 1:50 PB=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	21.97	2.911
SDev	.42	.149
%RSD	1.920	5.130
#1	22.27	3.017
#2	21.67	2.806
Limit	LC Pass	NOCHECK
Upper	28.50	
Lower	18.80	

Analysis Report Mon 05-11-92 11:51:08 AM page 1

Method: PRODPBTL Sample Name: LCSS A1 491743 #34 Operator:
Run Time: 05/11/92 11:47:04
Comment: SDG:SD0267 1:50 PB=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	44.83	22.19
SDev	.86	.52
%RSD	1.917	2.332
#1	45.44	22.56
#2	44.22	21.83

Pb - 114.3%

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Analysis Report Mon 05-11-92 11:55:16 AM page 1

Method: PRODPBTL Sample Name: LCSS U1 491743 #35 Operator:
Run Time: 05/11/92 11:51:12
Comment: SDG:SD0267 1:10 TL=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R118.8	19.38
SDev	.9	.49
%RSD	.7584	2.539
#1	R119.4	19.73
#2	R118.1	19.03
Limit	NOCHECK	LC Pass
Upper		26.70
Lower		12.30

Analysis Report Mon 05-11-92 11:59:27 AM page 1

Method: PRODPBTL Sample Name: LCSS A1 491743 #36 Operator:
Run Time: 05/11/92 11:55:20
Comment: SDG:SD0267 1:10 TL=LCS287
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R129.0	38.08
SDev	3.7	.78
%RSD	2.840	2.038
#1	R131.5	38.62
#2	R126.4	37.53

Tl - 93.5%

Analysis Report Mon 05-11-92 12:06:19 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491740 #37 Operator:
Run Time: 05/11/92 12:02:15
Comment: SDG:SD0267 1:1 PB/TL SD0267
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R145.5	-1.335
SDev	1.1	.354
%RSD	.7841	26.49
#1	R144.7	-1.085
#2	R146.3	-1.585

Analysis Report Mon 05-11-92 12:10:28 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491740 #38 Operator:
Run Time: 05/11/92 12:06:23
Comment: SDG:SD0267 1:1 PB/TL SD0267A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R162.0	19.39
SDev	1.6	.60
%RSD	.9697	3.099
#1	R163.1	19.81
#2	R160.9	18.96

97.0%

Tl - ~~96~~ JCO 5/26/92

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Analysis Report Mon 05-11-92 01:09:40 PM page 1

Method: PRODPBTL Sample Name: DUP U1 491742 #39 Operator:
Run Time: 05/11/92 13:05:32
Comment: SDG:SD0267 1:1 PB/TL SD0267D
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R156.4	-1.276
SDev	.8	.087
%RSD	.4862	6.837
#1	R157.0	-1.214
#2	R155.9	-1.338

Analysis Report Mon 05-11-92 01:13:49 PM page 1

Method: PRODPBTL Sample Name: DUP A1 491742 #40 Operator:
Run Time: 05/11/92 13:09:44
Comment: SDG:SD0267 1:1 PB/TL SD0267DA
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R166.6	19.38
SDev	.7	.12
%RSD	.3995	.6154
#1	R167.1	19.46
#2	R166.1	19.29

Tl - 96.9%

Analysis Report Mon 05-11-92 01:18:00 PM page 1

Method: PRODPBTL Sample Name: SPK U1 491741 #41 Operator:
Run Time: 05/11/92 13:13:55
Comment: SDG:SD0267 1:1 PB/TL SD0267S
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R161.7	48.03
SDev	1.4	.15
%RSD	.8849	.3201
#1	R160.6	48.14
#2	R162.7	47.92

Analysis Report Mon 05-11-92 01:24:48 PM page 1

Method: PRODPBTL Sample Name: XXX U1 123123 Operator: JEM
Run Time: 05/11/92 13:20:47
Comment: SDG:INSERT 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.55	30.16
SDev	.86	.26
%RSD	2.811	.8514
#1	31.16	30.34
#2	29.94	29.98

\AADATA\JEM0511B.LOG.12

Analysis Report QC Standard Mon 05-11-92 01:29:24 PM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 13:25:19
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.56	29.68
SDev	.74	.34
%RSD	2.510	1.144
#1	30.08	29.92
#2	29.03	29.44
Quality	98.5% OK	98.9% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 01:33:32 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 13:29:29
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-1.018	-.5260
SDev	.239	.1194
%RSD	23.44	22.70
#1	-.8492	-.4416
#2	-1.187	-.6105
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Mon 05-11-92 01:37:42 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491748 #44 Operator:
Run Time: 05/11/92 13:33:37
Comment: SDG:SD0267 1:1 PB/TL SD0268
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R235.1	-1.309
SDev	2.2	.280
%RSD	.9223	21.41
#1	R233.6	-1.507
#2	R236.6	-1.111

Analysis Report Mon 05-11-92 01:41:49 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491748 #45 Operator:
Run Time: 05/11/92 13:37:45
Comment: SDG:SD0267 1:1 PB/TL SD0268A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R243.6	18.23
SDev	.6	.74
%RSD	.2472	4.033
#1	R244.0	18.75
#2	R243.1	17.71

Tl-91.2%

INORGANIC CASE

19026 MERA 30

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Analysis Report Mon 05-11-92 01:45:56 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491749 #46 Operator:
Run Time: 05/11/92 13:41:54
Comment: SDG:SD0267 1:1 PB/TL SD0289
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R117.3	-1.062
SDev	4.3	.216
%RSD	3.643	20.33
#1	R120.3	-1.214
#2	R114.3	-.9092

Analysis Report Mon 05-11-92 01:50:03 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491749 #47 Operator:
Run Time: 05/11/92 13:46:01
Comment: SDG:SD0267 1:1 PB/TL SD0289A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R134.2	18.85
SDev	1.8	.35
%RSD	1.322	1.862
#1	R135.5	18.60
#2	R133.0	19.10

Tl-94.2%

Analysis Report Mon 05-11-92 01:54:14 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491750 #48 Operator:
Run Time: 05/11/92 13:50:09
Comment: SDG:SD0267 1:1 PB/TL SD0270
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R142.9	-.8280
SDev	5.8	.1975
%RSD	4.066	23.85
#1	R147.0	-.9676
#2	R138.8	-.6884

Analysis Report Mon 05-11-92 01:58:23 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491750 #49 Operator:
Run Time: 05/11/92 13:54:19
Comment: SDG:SD0267 1:1 PB/TL SD0270A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R156.6	17.45
SDev	5.8	.93
%RSD	3.708	5.334
#1	R152.5	16.80
#2	R160.7	18.11

Tl- 87.2%

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Analysis Report Mon 05-11-92 02:02:35 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491751 #50 Operator:
Run Time: 05/11/92 13:58:30
Comment: SDG:SD0267 1:1 PB/TL SD0271
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R141.7	-1.003
SDev	3.0	.473
%RSD	2.150	47.14
#1	R139.6	-.6689
#2	R143.9	-1.338

Analysis Report Mon 05-11-92 02:06:48 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491751 #51 Operator:
Run Time: 05/11/92 14:02:40
Comment: SDG:SD0267 1:1 PB/TL SD0271A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R158.2	17.40
SDev	1.4	.17
%RSD	.8784	.9997
#1	R159.2	17.52
#2	R157.2	17.27

Tl - 87.0%

Analysis Report Mon 05-11-92 02:11:02 PM page 1

Method: PRODPBTL Sample Name: XXX U1 123123 #52 Operator:
Run Time: 05/11/92 14:06:55
Comment: SDG:INSERT 1:1 PB/TL TESTSS
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.3467	-.9612
SDev	.1285	.2204
%RSD	37.06	22.93
#1	-.2559	-.8053
#2	-.4376	-1.117

Analysis Report QC Standard Mon 05-11-92 02:16:48 PM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 14:12:43
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.38	29.37
SDev	.18	.57
%RSD	.5932	1.929
#1	30.50	28.97
#2	30.25	29.77
Quality	101.3%OK	97.9% OK
Standard	30.00	30.00
Range	10.5%	10.5%

\AADATA\JEM0511B.LOG.15

Analysis Report QC Standard Mon 05-11-92 02:22:33 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 14:16:52
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.7231	-.6462
SDev	.4353	.1424
%RSD	60.19	22.03
#1	-.4153	-.5455
#2	-1.031	-.7468
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Mon 05-11-92 02:26:43 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491752 #56 Operator:
Run Time: 05/11/92 14:22:39
Comment: SDG:SD0267 1:1 PB/TL SD0272
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R271.2	-.7501
SDev	.5	.4363
%RSD	.1786	58.16
#1	R271.5	-.4416
#2	R270.9	-1.059

Analysis Report Mon 05-11-92 02:30:53 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491752 #57 Operator:
Run Time: 05/11/92 14:26:49
Comment: SDG:SD0267 1:1 PB/TL SD0272A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R273.4	17.47
SDev	2.3	1.08
%RSD	.8460	6.177
#1	R275.1	18.24
#2	R271.8	16.71

Tl- 87.4%

Analysis Report Mon 05-11-92 02:35:03 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491753 #58 Operator:
Run Time: 05/11/92 14:30:58
Comment: SDG:SD0267 1:1 PB/TL SD0273
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R154.8	-.9644
SDev	1.7	.1424
%RSD	1.103	14.76
#1	R156.0	-.8637
#2	R153.6	-1.065

\AADATA\JEM0511B.LOG.16

Analysis Report Mon 05-11-92 02:39:08 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491753 #59 Operator:
Run Time: 05/11/92 14:35:06
Comment: SDG:SD0267 1:1 PB/TL SD0273A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R165.5	19.33
SDev	.9	.25
%RSD	.5636	1.286
#1	R166.1	19.51
#2	R164.8	19.16

Tl - 96.6%

Analysis Report Mon 05-11-92 02:43:16 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491754 #60 Operator:
Run Time: 05/11/92 14:39:13
Comment: SDG:SD0267 1:1 PB/TL SD0274
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R347.2	-1.536
SDev	.1	.207
%RSD	.0378	13.45
#1	R347.1	-1.390
#2	R347.3	-1.682

Analysis Report Mon 05-11-92 02:47:26 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491754 #61 Operator:
Run Time: 05/11/92 14:43:20
Comment: SDG:SD0267 1:1 PB/TL SD0274A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R347.5	18.28
SDev	1.5	.33
%RSD	.4221	1.801
#1	R346.4	18.05
#2	R348.5	18.51

Tl - 91.4%

Analysis Report Mon 05-11-92 02:51:33 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491755 #62 Operator:
Run Time: 05/11/92 14:47:30
Comment: SDG:SD0267 1:1 PB/TL SD0275
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R242.7	-1.370
SDev	2.9	.211
%RSD	1.194	15.42
#1	R244.7	-1.520
#2	R240.6	-1.221

\AADATA\JEM0511B.LOG.17

Analysis Report Mon 05-11-92 02:55:40 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491755 #63 Operator:
Run Time: 05/11/92 14:51:38
Comment: SDG:SD0267 1:1 PB/TL SD0275A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R245.8	18.65
SDev	.0	.80
%RSD	.0055	4.285
#1	R245.8	18.08
#2	R245.8	19.21

Tl - 93.2%

Analysis Report Mon 05-11-92 03:02:48 PM page 1

Method: PRODPBTL Sample Name: XXX U1 123123 #64 Operator:
Run Time: 05/11/92 14:58:50
Comment: SDG:INSERT 1:1 PB/TL TESTSS
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	32.41	30.78
SDev	.77	.73
%RSD	2.381	2.387
#1	32.95	31.30
#2	31.86	30.26

Analysis Report QC Standard Mon 05-11-92 03:07:20 PM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 15:03:17
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.84	29.95
SDev	.07	.13
%RSD	.2173	.4472
#1	30.79	30.04
#2	30.89	29.85
Quality	102.8%OK	99.8% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 03:11:30 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 15:07:25
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.3393	-.5358
SDev	.3488	.1148
%RSD	102.8	21.43
#1	-.0927	-.6170
#2	-.5859	-.4546
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

\AADATA\JEM0511B.LOG.18

Analysis Report Mon 05-11-92 03:15:44 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491756 #68 Operator:
Run Time: 05/11/92 15:11:38
Comment: SDG:SD0267 1:1 PB/TL SD0276
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R201.5	-.9222
SDev	2.2	.1837
%RSD	1.103	19.92
#1	R203.0	-.7923
#2	R199.9	-1.052

Analysis Report Mon 05-11-92 03:19:52 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491756 #69 Operator:
Run Time: 05/11/92 15:15:48
Comment: SDG:SD0267 1:1 PB/TL SD0276A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R210.3	19.52
SDev	1.2	.23
%RSD	.5512	1.169
#1	R211.1	19.36
#2	R209.4	19.68

Tl-97.6%

Analysis Report Mon 05-11-92 03:23:58 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491757 #70 Operator:
Run Time: 05/11/92 15:19:55
Comment: SDG:SD0267 1:1 PB/TL SD0277
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R269.4	-1.500
SDev	2.0	.395
%RSD	.7310	26.33
#1	R268.0	-1.221
#2	R270.8	-1.779

Analysis Report Mon 05-11-92 03:28:05 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491757 #71 Operator:
Run Time: 05/11/92 15:24:02
Comment: SDG:SD0267 1:1 PB/TL SD0277A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R275.5	18.49
SDev	4.4	.01
%RSD	1.610	.0279
#1	R272.4	18.49
#2	R278.6	18.50

Tl-92.4%

\AADATA\JEM0511B.LOG.19

Analysis Report Mon 05-11-92 03:32:14 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491758 #72 Operator:
Run Time: 05/11/92 15:28:12
Comment: SDG:SD0267 1:1 PB/TL SD0278
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R321.3	-1.390
SDev	4.0	.248
%RSD	1.232	17.84
#1	R318.5	-1.214
#2	R324.1	-1.565

Analysis Report Mon 05-11-92 03:36:28 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491758 #73 Operator:
Run Time: 05/11/92 15:32:22
Comment: SDG:SD0267 1:1 PB/TL SD0278A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R320.6	17.44
SDev	4.2	1.27
%RSD	1.309	7.272
#1	R323.6	18.34
#2	R317.7	16.54

Tl- 87.2%

Analysis Report Mon 05-11-92 03:40:40 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491759 #74 Operator:
Run Time: 05/11/92 15:36:35
Comment: SDG:SD0267 1:1 PB/TL SD0279
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R114.6	-.7468
SDev	.3	.4041
%RSD	.2409	54.11
#1	R114.8	-1.033
#2	R114.4	-.4611

Analysis Report Mon 05-11-92 03:44:48 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491759 #75 Operator:
Run Time: 05/11/92 15:40:46
Comment: SDG:SD0267 1:1 PB/TL SD0279A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R123.5	18.11
SDev	1.7	.08
%RSD	1.371	.4537
#1	R122.3	18.05
#2	R124.7	18.17

Tl- 90.6%

\AADATA\JEM0511B.LOG.20

Analysis Report Mon 05-11-92 03:50:59 PM page 1

Method: PRODPBTL Sample Name: XXX U1 123123 #76 Operator:
Run Time: 05/11/92 15:47:00
Comment: SDG:INSERT 1:1 PB/TL TESTSS
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.15	28.05
SDev	.42	.21
%RSD	1.438	.7454
#1	29.45	28.20
#2	28.85	27.90

Analysis Report QC Standard Mon 05-11-92 03:55:43 PM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 15:51:40
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	29.08	28.21
SDev	2.23	1.77
%RSD	7.666	6.286
#1	27.50	26.95
#2	30.66	29.46
Quality	96.9% OK	94.0% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 03:59:53 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 15:55:48
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.5192	-.2370
SDev	.0682	.2893
%RSD	13.13	122.0
#1	-.4710	-.0325
#2	-.5674	-.4416
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

Analysis Report Mon 05-11-92 04:04:37 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491760 #80 Operator:
Run Time: 05/11/92 16:00:33
Comment: SDG:SD0267 1:1 PB/TL SD0280
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R225.2	-1.205
SDev	6.8	.317
%RSD	3.019	26.30
#1	R220.4	-.9806
#2	R230.0	-1.429

\AADATA\JEM0511B.LOG.21

Analysis Report Mon 05-11-92 04:08:43 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491760 #81 Operator:
Run Time: 05/11/92 16:04:41
Comment: SDG:SD0267 1:1 PB/TL SD0280A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R232.2	17.55
SDev	3.3	.62
%RSD	1.441	3.558
#1	R229.9	17.11
#2	R234.6	17.99

Tl - 87.8%

Analysis Report Mon 05-11-92 04:12:53 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491761 #82 Operator:
Run Time: 05/11/92 16:08:50
Comment: SDG:SD0267 1:1 PB/TL SD0281
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R199.4	-1.305
SDev	3.1	.055
%RSD	1.534	4.222
#1	R197.3	-1.266
#2	R201.6	-1.344

Analysis Report Mon 05-11-92 04:17:03 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491761 #83 Operator:
Run Time: 05/11/92 16:13:00
Comment: SDG:SD0267 1:1 PB/TL SD0281A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R208.1	17.45
SDev	.7	.08
%RSD	.3219	.4695
#1	R207.6	17.39
#2	R208.6	17.50

Tl - 87.2%

Analysis Report Mon 05-11-92 04:21:09 PM page 1

Method: PRODPBTL Sample Name: XXX U1 491762 #84 Operator:
Run Time: 05/11/92 16:17:07
Comment: SDG:SD0267 1:1 PB/TL SD0282
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R130.8	-1.578
SDev	1.8	.037
%RSD	1.388	2.328
#1	R132.1	-1.604
#2	R129.5	-1.552

\AADATA\JEM0511B.LOG.22

Analysis Report Mon 05-11-92 04:25:18 PM page 1

Method: PRODPBTL Sample Name: XXX A1 491762 #85 Operator:
Run Time: 05/11/92 16:21:13
Comment: SDG:SD0267 1:1 PB/TL SD0282A
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	R146.0	16.79
SDev	.2	.08
%RSD	.1303	.4544
#1	R145.8	16.85
#2	R146.1	16.74

Tl-84.0% "W"

Analysis Report Mon 05-11-92 04:32:53 PM page 1

Method: PRODPBTL Sample Name: XXX U2 ~~491248~~ 123123 Operator: JEM
Run Time: 05/11/92 16:28:56
Comment: SDG:~~MERA30 1:5~~ PB ~~MERA30~~
Mode: Conc Corr. Factor: 1

JCD 5/26/92

Elem	Pb	Tl
Units	ppb	ppb
Avge	.7894	-.6072
SDev	1.148	.0413
%RSD	145.4	6.806
#1	1.601	-.6364
#2	-.0223	-.5780

Analysis Report Mon 05-11-92 04:37:28 PM page 1

Method: PRODPBTL Sample Name: XXX A2 ~~491248~~ 123123 Operator: JEM
Run Time: 05/11/92 16:33:29
Comment: SDG:~~MERA30 1:5~~ PB ~~MERA30 A~~
Mode: Conc Corr. Factor: 1

JCD 5/26/92

Elem	Pb	Tl
Units	ppb	ppb
Avge	8.682	11.61
SDev	1.827	2.45
%RSD	21.04	21.13
#1	7.391	9.874
#2	9.974	13.34

Pb RSD↑

~~Tl~~ JCD 5/26/92

Analysis Report Mon 05-11-92 04:41:49 PM page 1

Method: PRODPBTL Sample Name: XXX ~~R1 491248~~ 123123 Operator: JEM
Run Time: 05/11/92 16:37:51
Comment: SDG:~~MERA30 1:5~~ PB ~~MERA30 A~~ JCD 5/26/92
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	10.81	14.48
SDev	.37	.56
%RSD	3.463	3.844
#1	10.54	14.09
#2	11.07	14.88

Pb-54.0% "W"

~~Tl- 72.4% "W"~~ JCD 5/26/92

\AADATA\JEM0511B.LOG.23

Analysis Report Mon 05-11-92 04:47:06 PM page 1

Method: PRODPBTL Sample Name: XXX U1 123123 Operator: JEM
Run Time: 05/11/92 16:43:08
Comment: SDG:INSERT 1:1 PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	28.23	27.77
SDev	2.40	2.67
%RSD	8.498	9.628
#1	26.53	25.88
#2	29.92	29.66

Analysis Report QC Standard Mon 05-11-92 04:51:29 PM page 1

Method: PRODPBTL Sample Name: S30 Operator:
Run Time: 05/11/92 16:47:26
Comment: CCV PB=30 TL=30
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	30.40	29.88
SDev	3.55	3.35
%RSD	11.68	11.23
#1	27.89	27.51
#2	32.91	32.25
Quality	101.3%OK	99.6% OK
Standard	30.00	30.00
Range	10.5%	10.5%

Analysis Report QC Standard Mon 05-11-92 04:55:36 PM page 1

Method: PRODPBTL Sample Name: S0 Operator:
Run Time: 05/11/92 16:51:33
Comment: CCB PB/TL
Mode: Conc Corr. Factor: 1

Elem	Pb	Tl
Units	ppb	ppb
Avge	-.4413	-.5520
SDev	.4196	.2388
%RSD	95.07	43.26
#1	-.1446	-.7209
#2	-.7380	-.3832
Quality	OK	OK
Standard	.0000	.0000
Range	3.000	10.00

*** END OF \AADATA\JEM0511B.LOG ***

ORIGINAL DATA IS IN MERA3Ø

MERA3Ø

(1)

Folder: JAA0511 ~~Page 52.~~

20:46:18 11 May 1992 Protocol: HG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 22 20:46:18 11 May 1992

Hg .0000 PPB -1766
Ave. Int. = -1766 S. D. = Ø

*** Standard: 2 Rep: 1 Seq: 23 20:48:40 11 May 1992

Hg .5000 PPB 12253
Ave. Int. = 12253 S. D. = Ø

*** Standard: 3 Rep: 1 Seq: 24 20:51:02 11 May 1992

Hg 1.000 PPB 22545
Ave. Int. = 22545 S. D. = Ø

*** Standard: 4 Rep: 1 Seq: 25 20:53:27 11 May 1992

Hg 3.000 PPB 73767
Ave. Int. = 73767 S. D. = Ø

*** Standard: 5 Rep: 1 Seq: 26 20:55:55 11 May 1992

Hg 5.000 PPB 117673
Ave. Int. = 117673 S. D. = Ø

*** Standard: 6 Rep: 1 Seq: 27 20:58:27 11 May 1992

Hg 10.00 PPB 228358
Ave. Int. = 228358 S. D. = Ø

Hg Analysis
Automated Cold Vapor by Leeman PS200
5/11/92 2046
QC: ICV-5 (0689)
T=5 (d.f. 1:2 T=2.5)
CCV: T=3
Units: µg/L
corr = 0.9996
pages = 1-4
Jeff Armenaro

2

Protocol: HG

Rev: 1.281 Time: 20:58:36 11 May 1992

Folder: JAA0511 Seq: 28 Print: On

User: Batch: Id: Std6Repl Cup: 0 Gas: .25 LPM

State: Idle Macro AUTOHG 79 : F3 Print Xmit: Off Autosampler: On

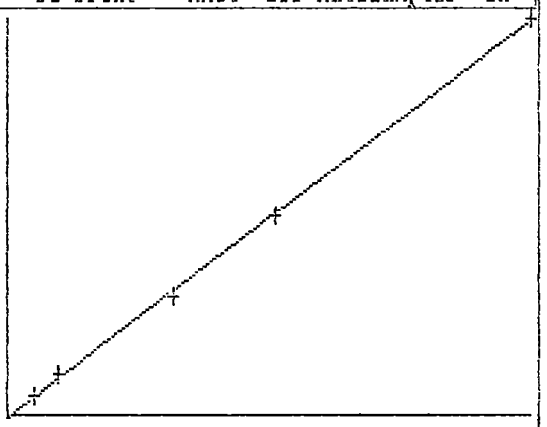
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted
S1	.0000	-.1111	-.1111	LiNear
S2	.5000	.4989	-.0011	Quadratic
S3	1.000	.9468	-.0532	WtdLinear
S4	3.000	3.176	.1758	C
S5	5.000	5.086	.0865	Accept o
S6	10.00	9.903	-.0969	Every n
				c

A .00000 r .999562

B 4.3517e-05 C -3.4274e-02



Relative Absorbance

	Mean	%RSD	
S1	-1766	0	-1766
S2	12253	0	12253
S3	22545	0	22545
S4	73767	0	73767
S5	117673	0	117673
S6	228358	0	228358

New cal coefficients stored 0 129 2 5

3

Folder: JAA0511 ~~Page 52~~
21:01:16 11 May 1992 Protocol: HG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Seq: 28 21:01:16 11 May 1992 ICV

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.99	2.400	~~2.500~~ 5.00	PPB	.0000

df 1:2

*** Check Standard: 1 Seq: 29 21:03:37 11 May 1992 ICB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0379	.2000	PPB	.0000

*** Check Standard: 2 Seq: 30 21:05:56 11 May 1992 CCV

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		109.0	3.271	3.000	PPB	.0000

*** Check Standard: 1 Seq: 31 21:08:20 11 May 1992 CCB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0462	.2000	PPB	.0000

*** Sample ID: 492540 Seq: 32 21:10:37 11 May 1992
PBW

Hg	.0146	PPB	.0000	.0146

*** Sample ID: ~~491251~~ 123123 Seq: 33 21:12:52 11 May 1992
LCSW

Hg	3.257	PPB	.0000	3.257

*** Sample ID: 491260 Seq: 34 21:15:18 11 May 1992
MERA32

Hg	.0323	PPB	.0000	.0324

*** Sample ID: 491249 Seq: 35 21:17:33 11 May 1992
SS(491260)

Hg	1.174	PPB	.0000	1.174

*** Sample ID: 491250 Seq: 36 21:19:52 11 May 1992
D(491260)

Hg	.0190	PPB	.0000	.0190

*** Sample ID: 491248 Seq: 37 21:22:07 11 May 1992
MERA30

Hg	.0409	PPB	.0000	.0409

*** Sample ID: 491252 Seq: 38 21:24:22 11 May 1992
MERA31

Hg	.0252	PPB	.0000	.0252

*** Sample ID: 491263 Seq: 39 21:26:39 11 May 1992
MERA33

Hg	-.0126	PPB	.0000	-.0127

(4)

Folder: JAA0511 ~~Page 54~~

21:28:55 11 May 1992 Protocol: HG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: INSERT Seq: 40 21:28:55 11 May 1992 ~~CCV~~ JCD 5/26/92

Hg -.0066 PPB .0000 -.0066

*** Sample ID: INSERT Seq: 41 21:31:11 11 May 1992 ~~CCB~~ JCD 5/26/92

Hg -.0816 PPB .0000 -.0816

*** Check Standard: 2 Seq: 42 21:33:29 11 May 1992 CCV

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.9	3.178	3.000	PPB	.0000

*** Check Standard: 1 Seq: 43 21:36:01 11 May 1992 CCB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0571	.2000	PPB	.0000

Automated Mercury Runlog

Methods: SW-846 (CLP) Cold Vapor

Page 1 of 1 Date: 5/11/92

Operator: Jeff Armentrout
Case Name MERA30
Filename 20511204 6.V29

No.	Sample ID	Comments	Time	No.	Sample ID	Comments	Time
	ICV			1			
	ICB			2			
1	492540	PBW		3			
2	491251	LCSW		4			
3	491260			5			
4	491249	SS(491260)		6			
5	491250	D(491260)		7			
6	491248			8			
7	491252			9			
8	491263			10			
9	INSERT				CCV		
10	INSERT				CCB		
	CCV			1			
	CCB			2			
1				3			
2				4			
3				5			
4				6			
5				7			
6				8			
7				9			
8				10			
9					CCV		
10					CCB		
	CCV						
	CCB						

<< V
<< B

JAA 5/11/92

JAA 5/11/92

# Injects	22	#Pst. Dig. Spk.	Ø
# Samples	4	Calib. QC	12
# Dilutions	Ø	QC Samples	4
Inst. Hours	2		JAA 5/11/92

Reviewed By: RC Date: 5-11-92

INORGANIC CASE

COMPUCHEM LABS LOGBOOK 18026 MERA 30 BBB 1

212

102

MERA30

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

orig. is contained 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~~ RC 5-26-92		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

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	

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

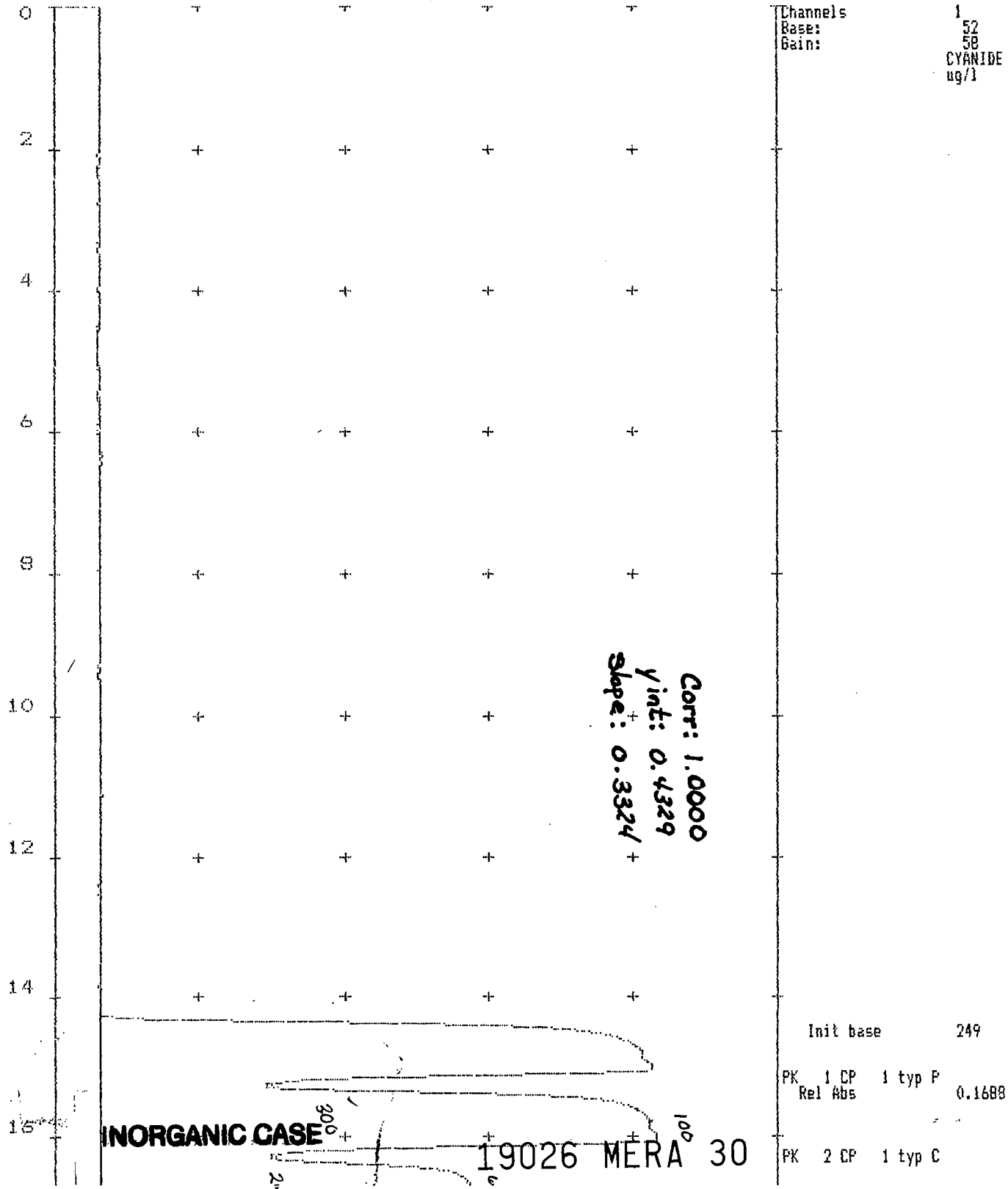
Peak	Cup	Samp Type	Description/ SDG and Lab ID	Client ID	Result	Dilution	True Value	%Recov.
80	65		SPARE		0.6274	1.0000	0.00	
81	66		SPARE		0.4147	1.0000	0.00	
82	67		SPARE		0.3010	1.0000	0.00	
83	9	CCV	CCV5		100.0625	1.0000	100.00	100.063
84	10	CCB	CCB6		2.0364	1.0000	0.00	OK
85	3	STD	100PPB		99.8912	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

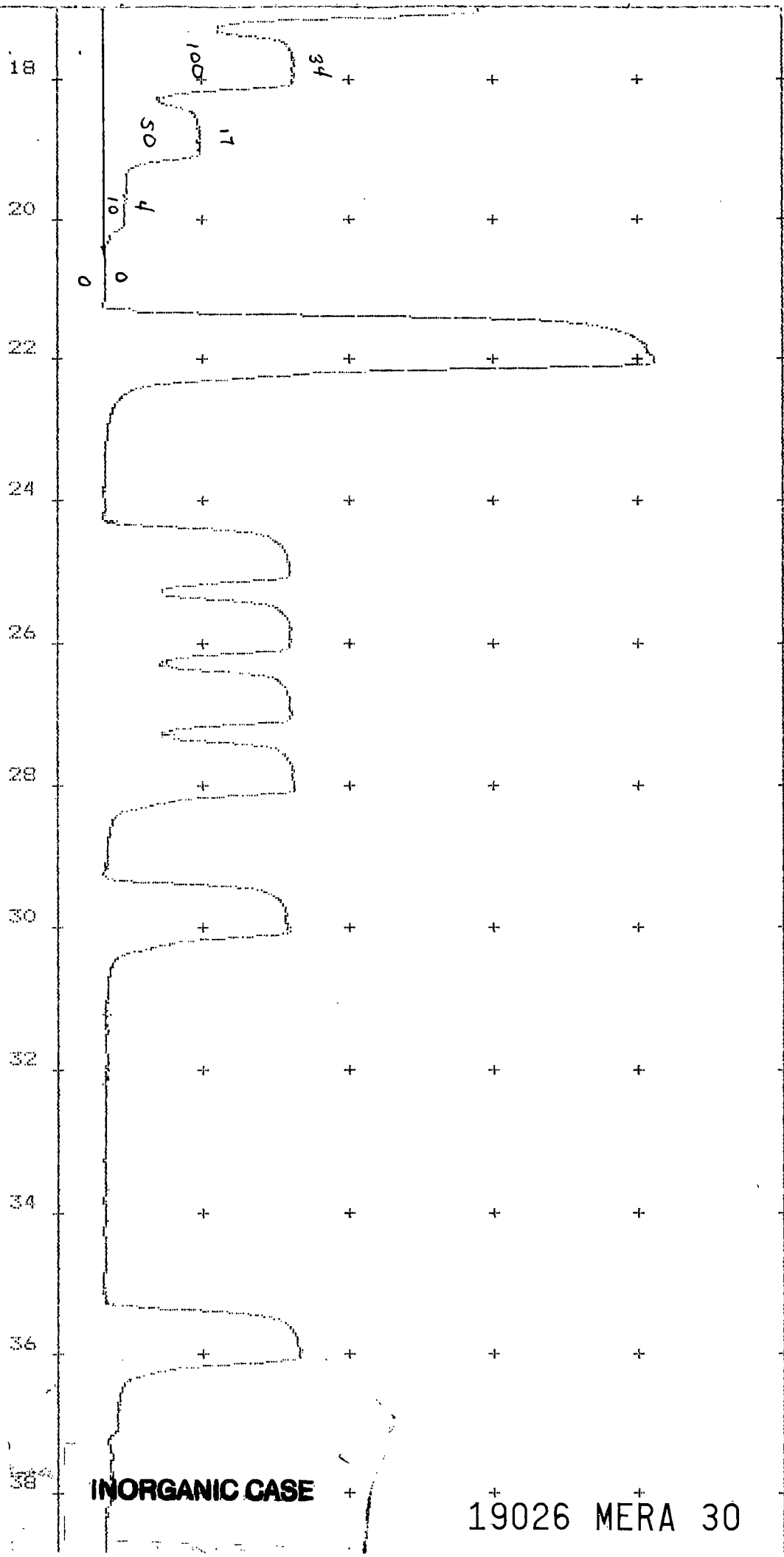
Comment: CYANIDE ANALYSIS

There are 305152 (bytes) free on disk.
File B:MDCJ14CH.CHR will take approximately 14800 (bytes).



INORGANIC CASE

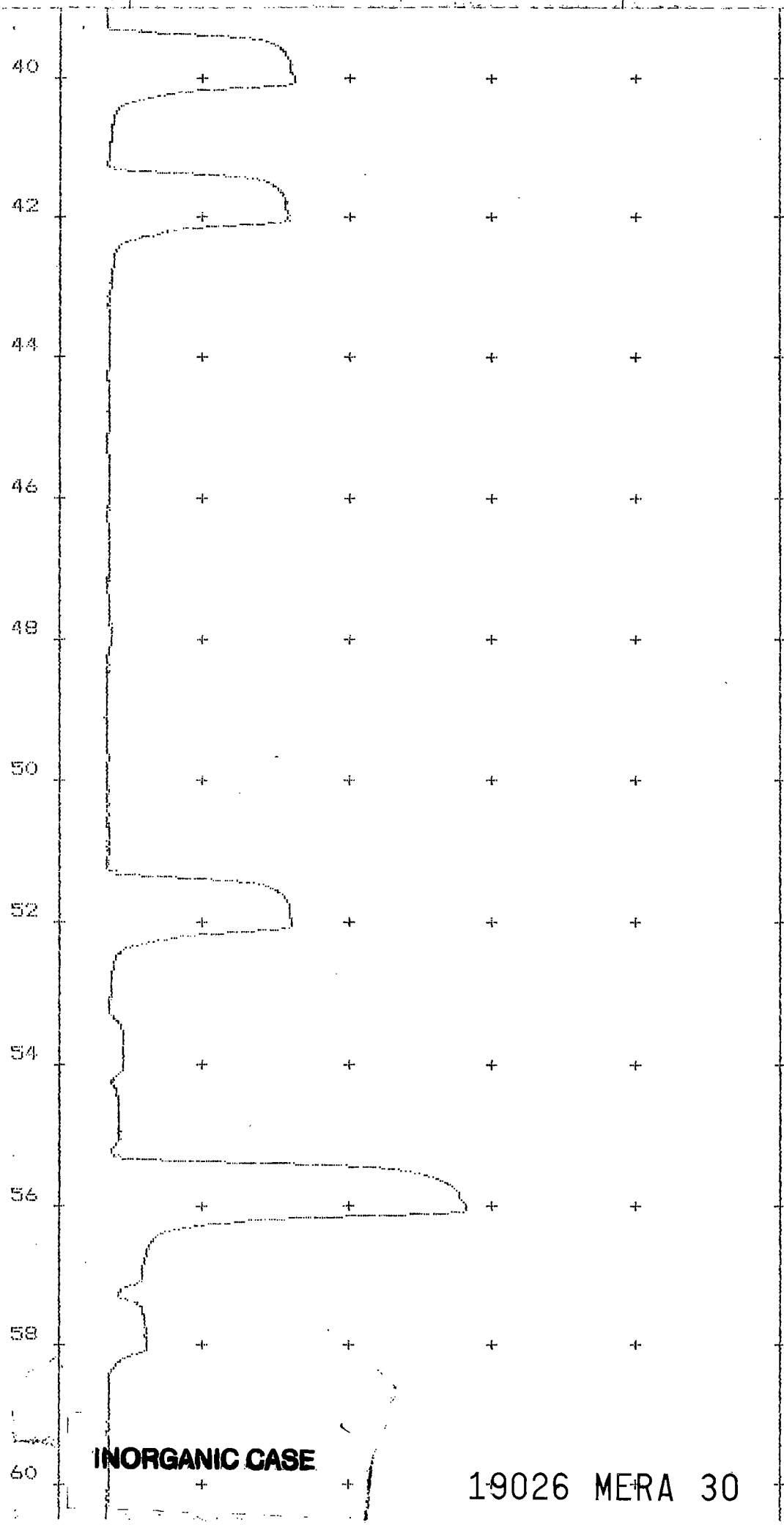
19026 MERA 30



PK	3 CP	2 typ C		
PK	4 CP	3 typ C		
PK	5 CP	4 typ C		
PK	6 CP	5 typ C		M
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	3.299	M

INORGANIC CASE

19026 MERA 30



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

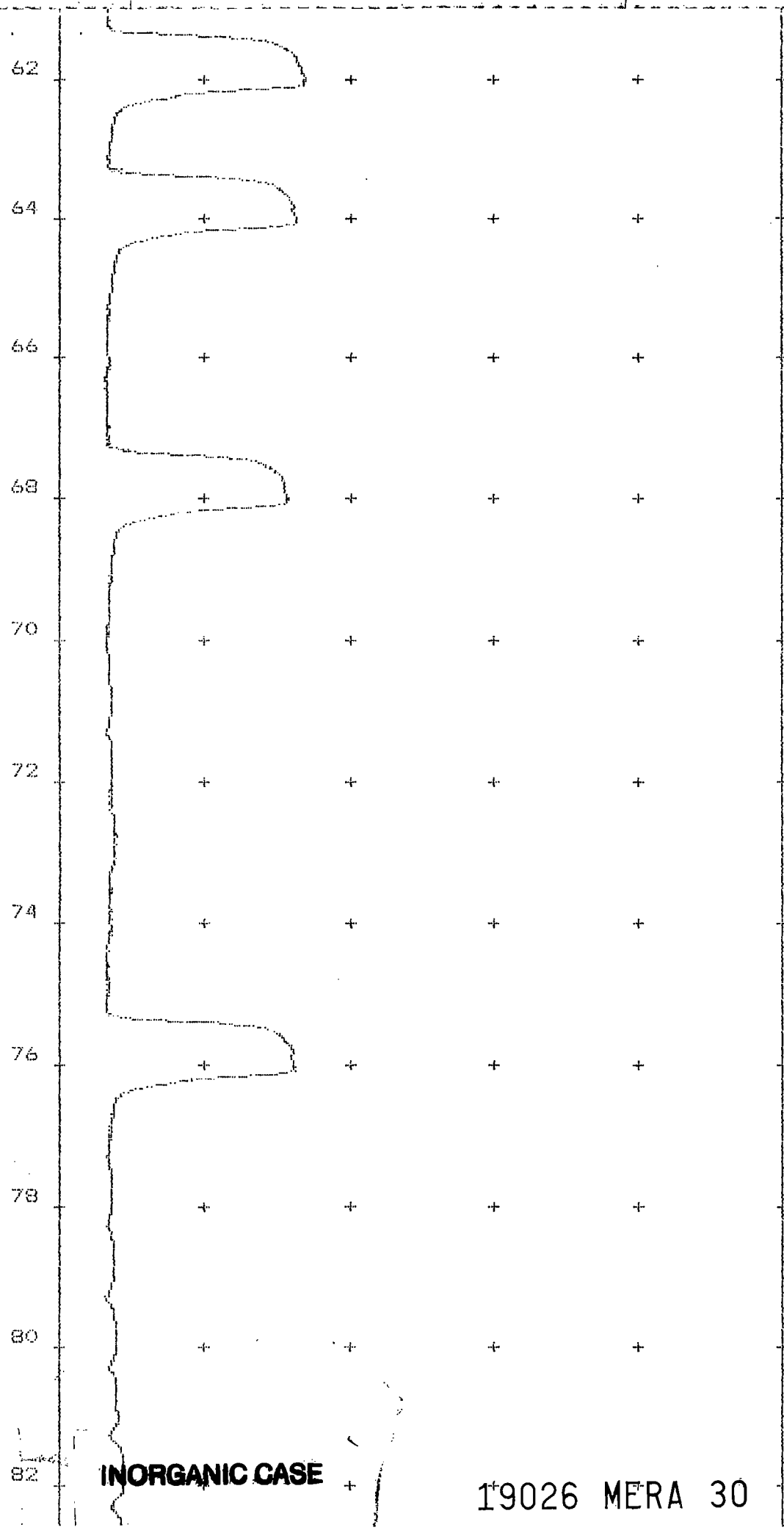
PK 44 CP 35 typ S 21.23

PK 45 CP 36 typ S 1.240 M

PK 46 CP 37 typ S 0.7640 M

INORGANIC CASE

19026 MERA 30



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

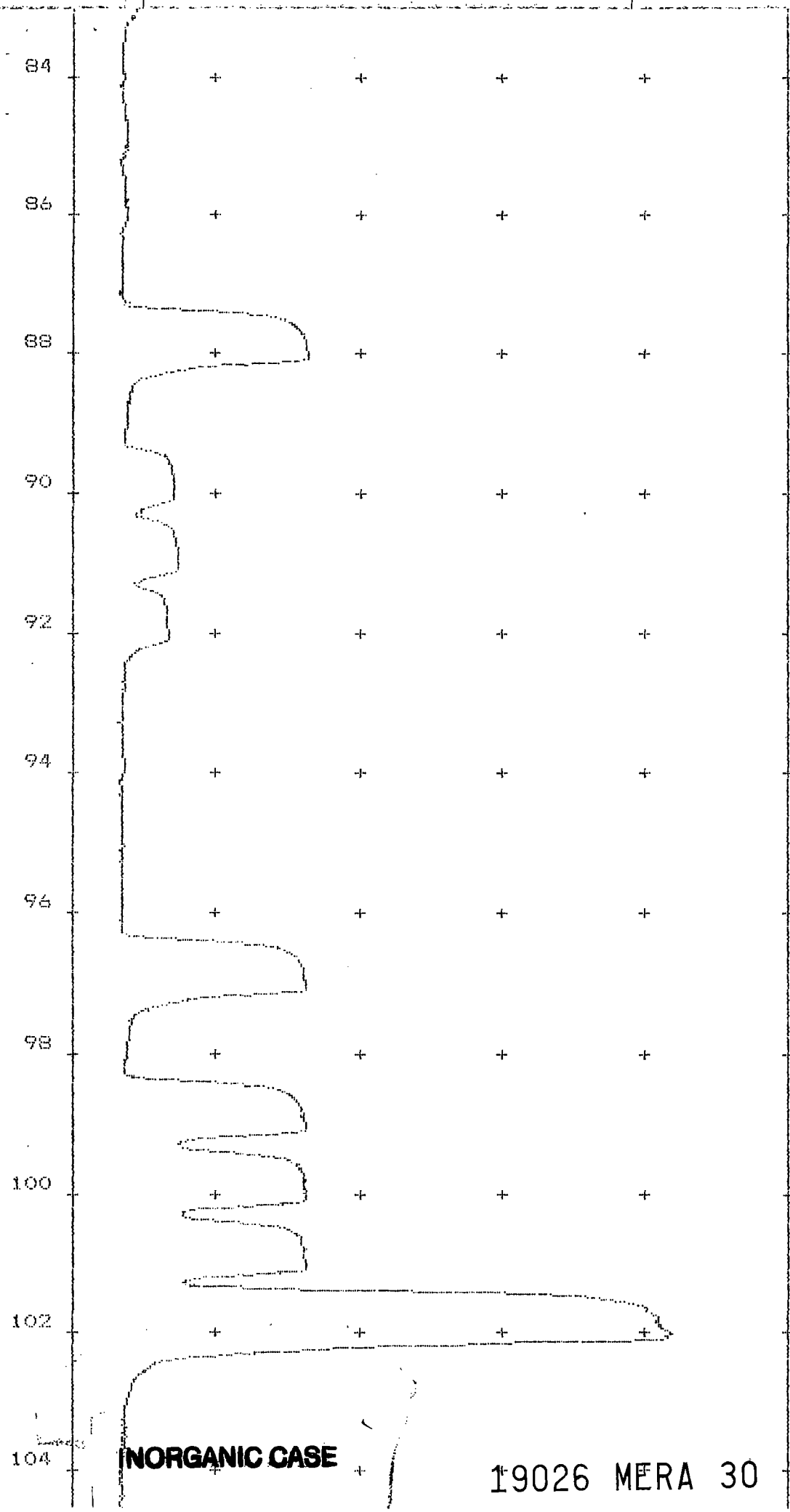
PK 66 CP 53 typ S 4.858 M

PK 67 CP 54 typ S 5.810 M

PK 68 CP 55 typ S 8.762 M

INORGANIC CASE

19026 MERA 30



PK	69 CP	56	typ S	8.285	M
PK	70 CP	57	typ S	2.097	M
PK	71 CP	58	typ S	3.144	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

INORGANIC CASE

19026 MERA 30

106

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	CP	[illegible]	typ	S	1.354 M
PK	30	CP	23	typ	S	1.052 M
PK	31	CP	24	typ	S	0.7547 M

INORGANIC CASE

19026 MERA 30

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	42.5162	1.8872

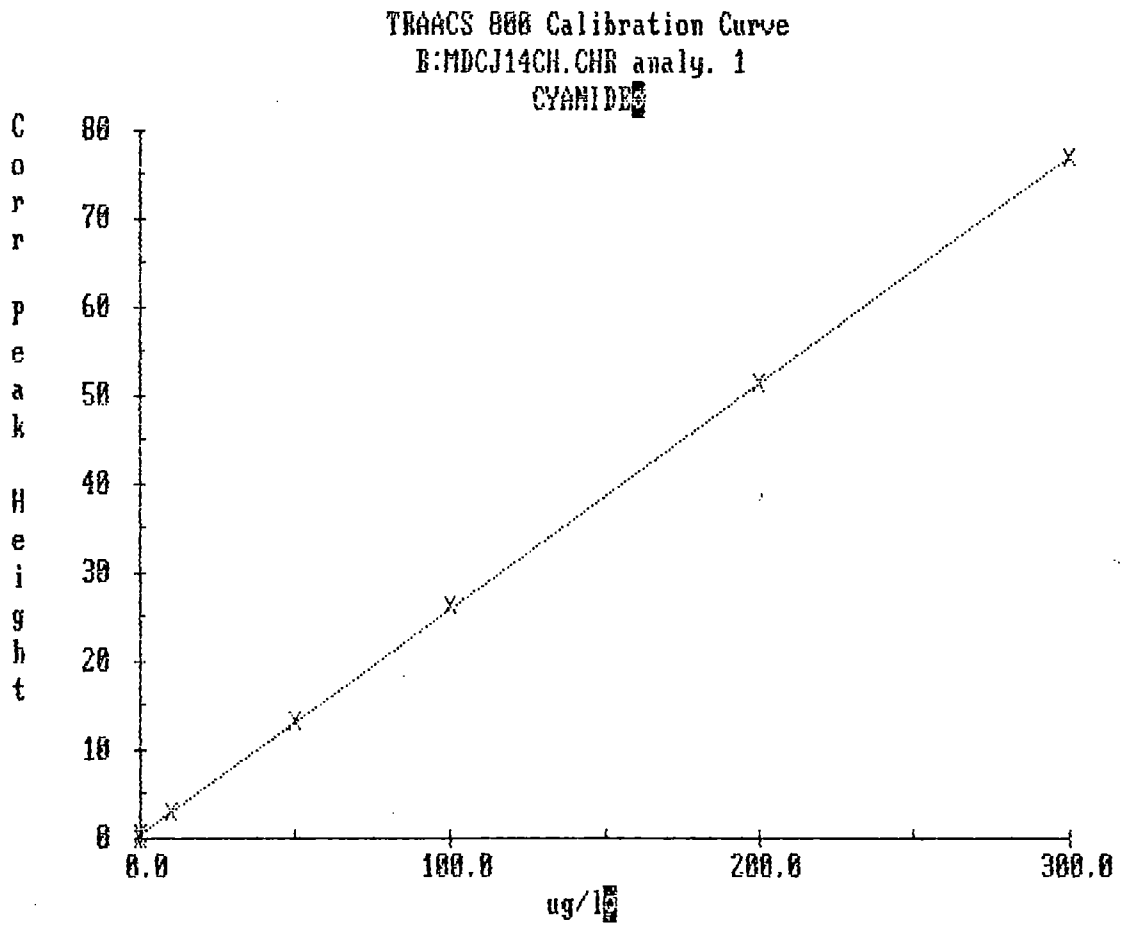
INORGANIC CASE

19026 MERA 30

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

Date: 5-6-92

Method: CLP 335.3 or SW-846 9012

Page 1 of 2

Filename MDCJ14 CH

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

19026 MERA 30

COMPUCHEM LABS LOGBOOK 1I COPY 4

448

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

---

*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

19825 MERA 30

Metals Preparation Log

Method: CLP SW-846
3005 (dissolved) 3050 754 13068
Prepared By Carl Hutter
705016 19026-MERA30

Case Type: EPA SDG ID MERA30
Procedure Code: -62
Date: 5/8/92

#	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	491248	4-30-92	MERA30	100ml	100ml	100ml	100ml	colorless, clear	colorless, clear	2
2	491252	↓	MERA31	↓	↓	↓	↓	↓	↓	2
3	491260	↓	MERA32	↓	↓	↓	↓	↓	↓	2
4	491263	4-30-92	MERA33	100ml	100ml	100ml	100ml	colorless, clear	colorless, clear	2
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20	~~491249~~ CH 5/8/92									
21	491249	Sample Spike		100ml	100ml	100ml	100ml	Ref CCN: (491260)		
22	491250	Duplicate Spike	CH 5/8/92	↓	↓	↓	↓	Ref CCN: (491260)		
23	491251	Lab Ctrl. Sample		↓	↓	↓	↓	D.I. H_2O		
24	492540	Prep. Blank		100ml	100ml	100ml	100ml	D.I. H_2O		

CH 5/8/92

QC Preparation Information

Sample Spike:
Plasma Preparation 1ml xcl 19 → 100ml
Furnace Preparation 1ml xcl 16 → 100ml

Laboratory Control Sample:
P1 10.0ml G-151-AS → 100ml
F2 1.0ml DCU-7 → 100ml

Reviewed By [signature]
Date: 5/8/92

INORGANIC CASE

19026 MERA 30

COMPUCHEM LABS LOGBOOK ID 7

917

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Mercury Preparation Log

SDG ID: MERA30

Method: CLP 245.1 754 1306
SW-846 7470 (Liq) 7471 (Sol)

Preparation Analysis Code:

Date: 5/8/92

Prepared By: Carl Hurley

#	CC#	Rec'd Date	Client ID	Initial Wt/Vol	Final Vol.	Description Before	Description After	pH
1	491248	4-30-92	MERA30	100ml	100ml	colorless, clear	violet	2
2	491252	↓	MERA31	↓	↓	↓	↓	2
3	491260	↓	MERA32	↓	↓	↓	↓	2
4	491263	4-30-92	MERA33	100ml	100ml	colorless, clear	violet	2
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21	491249		Sample Spike	100ml	100ml	Ref CCN: 491260		
22	491250	5/8/92	Dup Sample	↓	↓	Ref CCN: 491260		
23	491251		Lab Ctrl Sample	↓	↓	0.5 H_2O		
24	492540		Prep Blank	100ml	100ml	0.5 H_2O		

CH 5/8/92

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): 3.0ml 100ppb Hg → 100ml N/A

Reviewed By: [signature] Date: 5/8/92

COMPUCHEM LABS LOGBOOK 1F 7

19026 MERA 30

INORGANIC CASE

Cyanide Preparation Log

Posted 5/5/92 RK

SDG ID: MERA30
705016 19026-MERA30

Method: CLP 335.3
SW-846 9012

7506/921

Preparation Analysis Code: -72

Date: 5/5/92

Prepared By: RKC

#	CC#	Rec'd Date	Client ID	Initial Wt/Vol	Final Vol.	Description Before	Description After	pH
1	491248	4-30-92	MERA30	500ml	250ml	Yellow	clear	12
2	491252		MERA31			"	"	12
3	491260		MERA32			"	"	13
4	491263	4-30-92	MERA33	500ml	250ml	colorless	clear	13
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21	491253		Sample Spike	500ml	250ml	Ref CCN: 491260		
22	491254		Dup Sample			Ref CCN: 491260		
23	491255		Lab Ctrl Sample			BS		
24	491943		Prep Blank	500ml	250ml	D I-H2O		

RKC 5/5/92

QC Preparation Information

Sample Spike	Lab Control Sample (LCS)
5ml 10ppm CN- → 250ml	2.5ml 2CN6 → 250ml
N/A	N/A

Reviewed By: J. Medlin

Date: 5/5/92

COMPUCHEM LABS LOGBOOK 1E 6

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19026 MERA 30

INORGANIC CASE

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

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 Triangle 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 X	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.
MERA30	1	L	G	2	X							5-046609	SW-1	4/29/92 1100	CLH	EQK30				
MERA 30				3			X					5-046610	SW-1	4/29/92 1100		EQK30				
MERA 31				2	X							5-046615	SW-1D	4/29/92 1100		EQK31				
MERA31				3			X					5-046616	SW-1D	4/29/92 1100		EQK31				
MERA 32				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				
MERA 33				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							
												1262	1263							

Shipment for Case complete? (Y/N)

Page 1 of 2

Sample used for a spike and/or duplicate: MERA32, MERA14

Additional Sampler Signatures: Joan Purdie

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. Coppel	Christopher P. Coppel	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

034604

232

19026 MERA 30

INORGANIC CASE

Inorg-2

ICP Furnace Elements Report

Date: 5/26/92
SDG: MERA30 - 19026

Note: ICP means that ICP result may be used, (Conc. > 5xIDL) unless an associated ICP QC sample fails.
AA means that furnace analysis is required.
NR means Element not required for this SDG

Selenium & Thallium should all be done by AA
The Se/Tl results are for information only.

Lab ID	Sample Type	Arsenic 5xIDL	Arsenic ICP Conc	Arsenic Use	Lead 5XIDL	Lead ICP Conc	Lead Use	Selenium ICP Conc	Thallium ICP Conc
491248	XXX	135.00	7.03	AA	135.00	-13.57	AA	2.5	-28.9
491252	XXX	135.00	-16.52	AA	135.00	-0.24	AA	-0.5	-29.4
491260	XXX	135.00	-0.60	AA	135.00	-3.83	AA	20.7	-7.1
491263	XXX	135.00	-7.15	AA	135.00	-8.63	AA	3.4	-25.4
491254	DUP	135.00	0.00		135.00	0.00		0.0	0.0
491250	DUP	135.00	5.17	AA	135.00	-16.28	AA	12.4	18.7

SDG: MERHSO [redacted] GFAA Inst. Id(s):

CCNs	*Action/+Complete		CCNs	*Action/+Complete		CCNs	*Action/+Compl	
492540 PBW	As	JEM		As			As	
	Se	JEM		Se			Se	
	Pb	JEM		Pb			Pb	
	Tl	JEM		Tl			Tl	
491251 LCSW	As	JEM		As			As	
	Se	JEM		Se			Se	
	Pb	JEM		Pb			Pb	
	Tl	JEM		Tl			Tl	
491260	As	JEM		As			As	
	Se	1:5 (%R)		Se			Se	
	Pb	JEM		Pb			Pb	
	Tl	JEM		Tl			Tl	
250 DUP	As	JEM		As			As	
	Se	JEM		Se			Se	
	Pb	JEM		Pb			Pb	
	Tl	JEM		Tl			Tl	
249 SPK.	As	JEM		As			As	
	Se	JEM		Se			Se	
	Pb	JEM		Pb			Pb	
	Tl	JEM		Tl			Tl	
248	As	JEM		As			As	
	Se	1:5 (%R)		Se			Se	
	Pb	1:5 (%R)		Pb			Pb	
	Tl	JEM		Tl			Tl	
252	As	JEM		As			As	
	Se	1:5		Se			Se	
	Pb	JEM		Pb			Pb	
	Tl	JEM		Tl			Tl	
263	As	JEM		As			As	
	Se	JEM		Se			Se	
	Pb	JEM		Pb			Pb	
	Tl	JEM		Tl			Tl	
	As			As			As	
	Se			Se			Se	
	Pb			Pb			Pb	
	Tl			Tl			Tl	

*Action Codes: D=dilution M=MSA R=^%RSD =No Action NA=Not Applicable
+Initials

Sample Record

Requisition Number: 25454.0008
Case: 705016 19026-MERA30
Turnaround: 28 Days Priority: M
Analysis Codes: 2008

CompuChem Number: 491248
Account Number: 705016
Due: 5/28/92

Lab Instr

Receiving Data

Sample Identification: C#19026-MERA30
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 02
Receiving Information: 2-PLASTIC LITERS
Containers Received: 2-PLASTIC LITERS
Matrix: WA Temp: 4C 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
_____	_____	( )	-72	MANUAL DISTILLATION FOR CYANIDES; WATER	
_____	_____	( )	-62	Metal Preparation-Water	
_____	_____	( )	-74	WATER PREPARATION FOR MERCURY ANALYSIS	
_____	_____	( )	308	ICP ANAL.; CLP TAL; WATER; SOW 7/88+3/90	____
_____	_____	( )	1	FUR. AAS; CLP TAL; WATER; SOW 7/88+3/90	____
_____	_____	( )	5	C.V. MERC. ANAL.; WATER; SOW 7/88 + 3/90	____
_____	_____	( )	501	CYANIDE ANAL.; WATER; CLP SOW 7/88+3/90	____
_____	_____	( )			

Requisition Number: 85454.0008 CompuChem Number: 491248
Case: 705016 19086-MERA30 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Date Rec'd
_____	_____	( )	

Requisition Number: 25454.0008 CompuChem Number: 491248
Case: 705016 19026-MERA30 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: 25454.0009
Case: 705016 19026-MERA30
Turnaround: 28 Days Priority: M
Analysis Codes: 2008

CompuChem Number: 491252
Account Number: 705016
Due: 5/28/92

Lab Instr

Receiving Data

Sample Identification: C#19026-MERA31
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 02
Receiving Information: 2-PLASTIC LITERS
Containers Received: 2-PLASTIC LITERS
Matrix: WA Temp: 4C 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
_____	_____	( )	-72	MANUAL DISTILLATION FOR CYANIDES; WATER	
_____	_____	( )	-62	Metal Preparation-Water	
_____	_____	( )	-74	WATER PREPARATION FOR MERCURY ANALYSIS	
_____	_____	( )	308	ICP ANAL.; CLP TAL; WATER; SOW 7/88+3/90	____
_____	_____	( )	1	FUR. AAS; CLP TAL; WATER; SOW 7/88+3/90	____
_____	_____	( )	5	C.V. MERC. ANAL.; WATER; SOW 7/88 + 3/90	____
_____	_____	( )	501	CYANIDE ANAL.; WATER; CLP SOW 7/88+3/90	____
_____	_____	( )			

Requisition Number: 25454.0009 CompuChem Number: 491252
Case: 705016 19026-MERA30 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Data Rec'd
		( )	

Requisition Number: 25454.0009 CompuChem Number: 491252
Case: 705016 19086-MERA30 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: 25454.0010 CompuChem Number: 491260
Case: 705016 19026-MERA30 Account Number: 705016
Turnaround: 28 Days Priority: M Due: 5/28/92
Analysis Codes: 2008

Lab Instr USE FOR QC

Receiving Data

Sample Identification: C#19026-MERA32
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 04
Receiving Information: 4-PLASTIC LITERS
Containers Received: 4-PLASTIC LITERS
Matrix: WA Temp: 4C 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
_____	_____	( )	-72	MANUAL DISTILLATION FOR CYANIDES; WATER	
_____	_____	( )	-62	Metal Preparation-Water	
_____	_____	( )	-74	WATER PREPARATION FOR MERCURY ANALYSIS	
_____	_____	( )	308	ICP ANAL.; CLP TAL; WATER; SOW 7/88+3/90	
_____	_____	( )	1	FUR. AAS; CLP TAL; WATER; SOW 7/88+3/90	
_____	_____	( )	5	C.V. MERC. ANAL.; WATER; SOW 7/88 + 3/90	
_____	_____	( )	501	CYANIDE ANAL.; WATER; CLP SOW 7/88+3/90	
_____	_____	( )			

Requisition Number: 25454.0010 CompuChem Number: 491260
Case: 705016 19926-MERA30 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Data Rec'd
_____	_____	( )	

Requisition Number: 25454.0010 CompuChem Number: 491280
Case: 705016 19026-MERA30 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: 25454.0011 CompuChem Number: 491263
Case: 705016 19026-MERA30 Account Number: 705016
Turnaround: 28 Days Priority: M Due: 5/28/92
Analysis Codes: 2008

Lab Instr FB

Receiving Data

Sample Identification: C#19026-MERA33
Date Received: 4/30/92 Time: 15:27 Receiving Codes: 02
Receiving Information: 2-PLASTIC LITERS
Containers Received: 2-PLASTIC LITERS
Matrix: WA Temp: 4C 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
_____	_____	( )	-72	MANUAL DISTILLATION FOR CYANIDES; WATER	
_____	_____	( )	-62	Metal Preparation-Water	
_____	_____	( )	-74	WATER PREPARATION FOR MERCURY ANALYSIS	
_____	_____	( )	308	ICP ANAL.; CLP TAL; WATER; SOW 7/88+3/90	____
_____	_____	( )	1	FUR. AAS; CLP TAL; WATER; SOW 7/88+3/90	____
_____	_____	( )	5	C.V. MERC. ANAL.; WATER; SOW 7/88 + 3/90	____
_____	_____	( )	501	CYANIDE ANAL.; WATER; CLP SOW 7/88+3/90	____
_____	_____	( )			

Requisition Number: 25454.0011 CompuChem Number: 491263
Case: 705016 19026-MERA30 Account Number: 705016

Lab Requirements (Continued)

Laboratory Completion Date	Repeat Date		Date Rec'd
_____	_____	( )	

Requisition Number: 25454.0011 CompuChem Number: 491263
Case: 705016 19026-MERA30 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

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

RECEIVED
MAY 28 1992
US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

26/MAY/92

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# MERA30

Dear Mr. Elly

Enclosed are the results of analytical data performed in accordance with the referenced contract.

This report covers 4 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.

26/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# MERA30

CC#	SMO ITR #	MATRIX	RECEIPT DATE
491248	MERA30	WA	4/30/92
491252	MERA31	WA	4/30/92
491260	MERA32	WA	4/30/92
491263	MERA33	WA	4/30/92

TOTAL NUMBER OF SAMPLES = 4

AIRBILL
PACKAGE TRACKING NUMBER 2271398706

FEDERAL EXPRESS

QUESTIONS? CALL 800-23-5355 TOLL FREE.

RECIPIENT'S COPY

2271398706

2077M

Date 4/29/92

1 From (Your Name) Please Print: Chris Cappel

Your Phone Number (Very Important): (513) 241-CKI

Department/Floor No.

Company: FRC ENVIRONMENTAL MANAGEMENT

Street Address: 644 LINN ST STE 719

City: CINCINNATI OH

State

ZIP Required: 45203

2 To (Recipient's Name) Please Print: Kirby Evans

Recipient's Phone Number (Very Important): (919) 248-6811

Department/Floor No.

Company: Compuchem Laboratories

Exact Street Address (Cannot Deliver to P.O. Boxes or P.O. Zip Codes): 3308 Cupola Hill / Nelson Highway

City: Research Triangle Park NC

State

ZIP Required: 27709

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): 030-007920

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

H IF HOLD FOR PICK-UP, Print FedEx Address Here

Street Address

City

State

ZIP Required

3 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 (Reserved for authorized users only)
46 ☐ GOVT LETTER
41 ☐ GOVT PACKAGE

Freight Service (for Extra Large or any package over 150 lbs.)
70 ☐ OVERNIGHT FREIGHT** (Extended acceptance required)
80 ☐ TWO-DAY FREIGHT** **Declared Value Limit $100. **Call for delivery schedule

†Delivery commitment may be later in some areas.

4 DELIVERY AND SPECIAL HANDLING (Check services required)

1 ☐ HOLD FOR PICK-UP (Fill in Box H)
2 ☒ 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 ☐ DESCRIPTION
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

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 C. Pardue

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 0 PART #117204 FORMAT #099 099

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10000

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	X	RA		REM	
FED		LSI		O&M		OIL	
				NPLD		UST	

CLP Sample Numbers (from labels) (KC 4/29/92)	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					X		X					5-046552	SD-2	4/29/92		EQK13				
MERA 14					X		X					5-046556	SD-3	4/29/92		EQK14				
MERA 15					X		X					5-046560	SD-4	4/29/92		EQK15				
MERA 16					X		X					5-046564	SD-5	4/29/92 1300		EQK 16				
MERA 17					X		X					5-046568	SD-6	4/29/92 1230		EQK 17				
MERA 18					X		X					5-046572	4/29/92 SD-~~6~~7	4/29/92 1045		EQK 18				
MERA 19					X		X					5-046576	SD-8	4/29/92 1030		EQK 19				
												491230	491238	[illegible]						
												231	240	242	491246					

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: [illegible]

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 0830		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION 04.30.92

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

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1034605

10001

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

5. Date Shipped: 4/29/92

Carrier: Federal Express

7. Date Received -- Received by: 4.30.92 [signature]

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 Triangle 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 X	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.
MERA30	1	L	G	2	X							5-046609	SW-1	4/29/92 1100	CLH	EQK30				
MERA 30				3			X					5-046610	SW-1	4/29/92 1100		EQK30				
MERA 31				2	X							5-046615	SW-1D	4/29/92 1100		EQK31				
MERA 31				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				
MERA 33				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: [signature]

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	
		[signature]	4.30.92 0830		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION [signature] 4.30.92

EPA Form 9110-1 (Rev. 5-91) Replaces EPA Form (2075-6), previous edition which may be used

DISTRIBUTION:
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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

1 034604

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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 Triangle 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	✓			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~~				
MERA 13					X		X					5-046552	SD-2	4/29/92		EQK13				
MERA 14					X		X					5-046556	SD-3	4/29/92		EQK14				
MERA 15					X		X					5-046560	SD-4	4/29/92		EQK15				
MERA 16					X		X					5-046564	SD-5	4/29/92 1300		EQK 16				
MERA 17					X		X					5-046568	SD-6	4/29/92 1230		EQK 17				
MERA 18					X		X					5-046572 4/29/92	SD-~~6~~7	4/29/92 1045		EQK 18				
MERA 19					X		X					5-046576	SD-8	4/29/92 1030		EQK 19				
												49/230	49/238	~~4/29/92~~ 4/29/92		~~49/16~~				
												231	240	4/29/92		49/246				

Shipment for Case complete? (Y/N)

Page 1 of 2

Sample used for a spike and/or duplicate: MERA 12, MERA 32

Additional Sampler Signatures: [illegible]

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 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

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

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inorg-2

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: 19026

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

Practice: ____ ____

Area #: ____ ____

By: ____ ____

On: ____ ____

EPA SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
MERA13	046,552	491230	
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

COPY

original with MERA 13 5/16/92

10004

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-MERA13	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

10005

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 Tardie 5.16.92

Sample Custodian Date

10006

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 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										4.30.92		
13												
14												
15												
16												
17												
18												
19												
20												

LOGGED-IN BY: J. Purdie RECEIVED BY: J. Purdie REVIEWED:

10008

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	2/12	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:	C# 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

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:

10010

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:

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 # MERA30
CONTRACT # 68-D0-0150

The indicated Sample Delivery Group (SDG) consisting of four (4) water 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).

The following customer IDs are associated with this SDG:

MERA30, MERA31, MERA32, MERA33.

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.

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times. Please refer to the attached laboratory notice for the LCSW associated with this SDG.

The sample matrix spike, CCN = 491249 and 491253 (MERA32S) was found to be outside CLP control limits for lead, selenium, thallium. 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.

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

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

during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b. None were required for this group of samples.

The sample matrix duplicate, CCN = 491250 and 491254 (MERA32D) was out of control for iron. The reported concentrations for this analyte 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 degree of container &/or sediment content variation in aqueous 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.

A five-fold serial dilution of sample CCN = 491260 (MERA32L) 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: arsenic in samples (MERA30), (MERA31), (MERA32); lead in samples (MERA30), (MERA31), (MERA32); selenium in sample (MERA32); thallium in samples (MERA30), (MERA31), (MERA32).

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.

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

Prior to the release of this data package by the laboratory, a CCS screen was performed on the forms represented on the associated diskette. The known bugs in the current version of the USEPA 3/90 CCS checker are not addressed in this narrative.

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.

Rick Christenberry

RICK CHRISTENBERRY
TECHNICAL REVIEW
5/26/92

COMPUCHEM LABORATORIES

QUALITY ASSURANCE NOTICE

Case # 19026
SDG # MERA30

In accordance with the USEPA 3-90 Statement of Work (SOW), the Form VII format fields for the aqueous Laboratory Control Sample (LCS) true and found values are "NUMERIC 5.1" and "NUMERIC 5.2" respectively. This allows for a maximum of five digits preceding the decimal point. Due to the unavailability of the USEPA supplied LCS solution, a Perkin-Elmer standard was substituted during the period of analysis of this Sample Delivery Group (SDG). The plasma LCS was prepared from the Perkin-Elmer PE Pure Multi-Element Atomic Spectroscopy Standard CAS #7697-37-2, which has a true value of 500,000 micrograms/liter for Ca, Mg, K, and Na. The true and found values for these elements exceed the five digit maximum for the format fields; therefore, the true and found values are divided by ten in order to satisfy the Form VII requirements and are reported with reference to this qualifying notice.

Reviewer's Initials/ID JCD / 1262

Date 5/26/92

QAN-I-3
910820

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MERA32A

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

Lab Code: COMPU Case No.: 19026 SAS No.: SDG No.: MERA30

Matrix: WATER 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									
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 NO POST DIGEST SPIKES WERE REQUIRED FOR FLAME A ICP, MERCURY, AND CYANIDE ANALYSES.

FORM V (Part 2) - IN

516

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS
THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 19026 SITE NAME Satralloy LABORATORY Compuchem DATE SHIPPED 4/29/90

SUPERFUND DU NUMBER _____ EPA RPM or OSC (S M S)/(CES) _____ CERCLIS # OHD010467538 PAGE 1 OF 1

ACTIVITY NUMBER SSI22

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	INORGANIC TRAFFIC REPORT NUMBER	WATER OR LIQUIDS: ACID BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564	WATER POLYCHLORINATED BIPHENYLS UG L PES 17144	WATER CHLORINATED PESTICIDES UG L PES17134	TOTAL METALS IN WATER UG L MET111	WATER CYANIDE UG L MIN74919	NITRATE NITRITE MG L MIN7284	AMMONIA MG L MIN7294	RESIDUE, FILTERABLE TDS MG L MIN7362	RESIDUE NON-FILT TSS MG L MIN7372			SEDIMENTS or SOILS: ACID BASE NEUTRAL CPDS ORGANIC SCAN MG KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG KG TOX215652	SEDIMENTS POLYCHLORINATED BIPHENYLS MG KG	SEDIMENTS CHLORINATED PESTICIDES MG KG	TOTAL METALS MG KG MET[illegible]	CYANIDE MG KG MIN[illegible]	EP TOXICITY METALS MG KG	AMMONIA MG KG MIN[illegible]				
922F90S17		MERA30					X	X																		
922F90D03		MERA31					X	X																		
922F90S18		MERA32					X	X																		
922F90R04		MERA33					X	X																		

JUN 05 1992 A. D. Morris ESAT

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No 19026 SITE NAME Satralloy LABORATORY Compuchem DATE SHIPPED 4/29/92

SUPERFUND DU NUMBER _____ EPA RPM or OSC (S M S)/(CES) _____ CERCLIS # OHD010467538 PAGE 1 OF 1

ACTIVITY NUMBER SSIZZ

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER	INORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	WATER OR LIQUIDS: ACID BASE NEUTRAL CPDS ORGANIC SCAN UG L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG L TOX17564	WATER POLYCHLORINATED BIPHENYLS UG L PES 17144	WATER CHLORINATED PESTICIDES UG L PES17134	TOTAL METALS IN WATER UG L MET111	WATER CYANIDE UG L MIN74919	NITRATE NITRITE MG L MIN7284	AMMONIA MG L MIN7284	RESIDUE, FILTERABLE TDS MG L MIN7382	RESIDUE NON-FILT TSS MG L MIN7372			SEDIMENTS or SOILS: ACID BASE NEUTRAL CPDS ORGANIC SCAN MG KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG KG TOX215622	SEDIMENTS POLYCHLORINATED BIPHENYLS MG KG	SEDIMENTS CHLORINATED PESTICIDES MG KG	TOTAL METALS MG KG MET	CYANIDE MG KG MIN4930	EP TOXICITY METALS MG KG	AMMONIA MG KG MIN29926				
922F90S19		MERA 13																	X	X						
922F90S20		MERA 14																	X	X						
922F90S21		MERA 15																	X	X						
922F90S22		MERA 16																	X	X						
922F90S23		MERA 17																	X	X						
922F90S24		MERA 18																	X	X						
922F90S25		MERA 19																	X	X						

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. Project Code:
Account Code:
2. Region No.: 5
Sampling Co.: PRC
4. Date Shipped: 4/29/92
Carrier: Federal Express

Regional Information: TFA 102
Sampler (Name): C. Hirschman
Airbill Number: 2271398706

Non-Superfund Program
Sampler Signature: C. Hirschman
5. Ship To: Compuchem Laboratories, 3308 Chapel Hill/Nelson Highway, Research Triangle Park, NC 27709
ATTN: Terry Evans

Site Name: Satralloy
City, State: Steubenville, OH
Site Spill ID: SSF22

3. 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

6. 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

7. 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)

CLP Sample Numbers (from labels)	A Enter # from Box 7	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 Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
~~EQKMERA12~~ CPC 4/29/92	5	L	C	N	X		X					~~5-046548~~	~~SD-1~~	~~4/29/92~~	~~CLH~~	~~EQK12~~	CPC 4/29/92
MERA 13					X		X					5-046552	SD-2	4/29/92 1530		EQK13	
MERA 14					X		X					5-046556	SD-3	4/29/92 1550		EQK14	
MERA 15					X		X					5-046560	SD-4	4/29/92 1500		EQK15	D
MERA 16					X		X					5-046564	SD-5	4/29/92 1300		EQK16	
MERA 17					X		X					5-046568	SD-6	4/29/92 1230		EQK17	
MERA 18					X		X					5-046572	CPC 4/29/92 SD-7	4/29/92 1045		EQK18	
MERA 19					X		X					5-046576	SD-8	4/29/92 1030		EQK19	

Shipment for Case complete? (Y/N): Y

Page 1 of 2

Sample used for a spike and/or duplicate: MERA 12, MERA 32

Additional Sampler Signatures: [illegible]

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. Coppel	Christopher P. Coppel	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	

Split Samples: ☐ Accepted (Signature) ☐ Declined

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

Inorg-1

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. Project Code:
Account Code:
2. Region No.: 5
Sampling Co.: PRC
4. Date Shipped: 4/29/92
Carrier: Federal Express

Regional Information: TFA 102
Sampler (Name): C. Hirschman
Airbill Number: 2271395706

Non-Superfund Program
Sampler Signature: C. Hirschman

Site Name: Satralloy
City, State: Steubenville, OH
Site Spill ID: SSIZZ

3. 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. Ship To: Compuchem Laboratories
3308 Chapel Hill/Nelson Highway
Research Triangle Park, NC 27709
ATTN: Terry Evans

6. 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

7. 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)

CLP Sample Numbers (from labels)	A Enter # from Box 7	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 Enter Appropriate Qualifier for Designated Field QC (B = Blank S = Spike D = Duplicate PE = Perform. Eval. — = Not a QC Sample)
MERA30	1	L	G	2	X							5-046609	SW-1	4/29/92 1100	CLH	EQK30	
MERA 30				3			X					5-046610	SW-1	4/29/92 1100		EQK30	
MERA31				2	X							5-046615	SW-1D	4/29/92 1100		EQK31	D(MERA30)
MERA31				3			X					5-046616	SW-1D	4/29/92 1100		EQK31	D(MERA30)
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	
MERA 33				2	X							5-046635	FB-1	4/29/92 1210		EQK33	B
MERA33				3			X					5-046636	FB-1	4/29/92 1210		EQK33	B

Shipment for Case complete? (Y/N): Y

Page 1 of 2

Sample used for a spike and/or duplicate: MERA32, MERA14

Additional Sampler Signatures: [illegible]

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	

Split Samples ☐ Accepted (Signature)
☐ Declined

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-1

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

Satralloy (2)
MF
2461

U.S.E.P.A. CONTRACT LABORATORY PROGRAM

SAMPLE MANAGEMENT OFFICE

INORGANIC CONTRACT COMPLIANCE SCREENING SYSTEM

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****                                             ****
****      S C R E E N I N G   P A C K A G E      ****
****    S U M M A R Y   I N F O R M A T I O N    ****
****                                             ****
****                 SDG:  MERA30                ****
****                                             ****
****               ILM01.0  VER. 1               ****
****                                             ****
****               CASE:  19026                  ****
****                                             ****
****                LAB:  COMPU                  ****
****                                             ****
****           CONTRACT:  68-D0-0150             ****
****                                             ****
****             REGION:  5                      ****
****                                             ****
****                DRD:  05/28/92               ****
****                                             ****
****             FORMAT:  A                      ****
****                                             ****
****        SCREEN DATE:  05/29/92               ****
****                                             ****
****        MAIL DATE 1:  06/04/92               ****
****                                             ****
****           SCREENER:  EQ                     ****
****                                             ****
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INORGANIC CONTRACT COMPLIANCE SCREENING SUMMARY

DEFECT COUNT BY SAMPLE AND FORM

CASE: 19026 SAMPLES: 4 DATE MAILED: 06/04/92

LAB CODE: COMPU CONTRACT: 68-D0-0150 SAS NO: SCREENER: EQ DATE SCREENED: 05/29/92

SDG NUMBER: MERA30 REGION: 5 DATE RECEIVED: 05/28/92

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						1												
MERA30-1						1												
MERA31-1						1												
MERA32-1						1												
MERA32-8						1												
MERA32-9						1												
MERA33-1						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

TECHNICAL DEFECT FREQUENCY REPORT

DEFECT CODE	NUMBER OF DEFECTS	PERCENT OF TOTAL DEFECTS	DEFECT MESSAGE
621	1	100.00	FINAL ICS EXCEEDS LINEAR RANGE
	1	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 E. FORM 4.       *
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Final ICS (A/AB) found value exceeds the linear range. (E21)

SUFFIX	ELEMENT	SAMPLE	METHOD	MATRIX	REPORTED VALUE	COMPARED VALUE
	AL				522040	520000.0

ERROR CODE : 621

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.: MERA30

ICP ID NUMBER: P1 ICS SOURCE: SPEX

CONCENTRATION UNITS: UG/L

ANALYTE	TRUE SOL. A	TRUE SOL. AB	INITIAL FOUND SOL. A	INITIAL FOUND SOL. AB	INITIAL FOUND %R	FINAL FOUND SOL. A	FINAL FOUND SOL. AB	FINAL FOUND %R
ALUMINUM	500000	500000	502760	505000.0	101.0	527630	522040.0	104.4
ANTIMONY	0	0	6	38.8		36	16.1	
ARSENIC								
BARIUM	0	500	5	491.8	98.4	5	509.6	101.9
BERYLLIUM	0	500	0	486.8	97.4	0	491.5	98.3
CADMIUM	0	1000	-3	978.0	97.8	-4	1004.4	100.4
CALCIUM	500000	500000	489620	481320.0	96.3	503770	487030.0	97.4
CHROMIUM	0	500	3	464.8	93.0	1	478.2	95.6
COBALT	0	500	-6	454.0	90.8	-7	465.0	93.0
COPPER	0	500	9	500.8	100.2	7	518.1	103.6
IRON	200000	200000	188280	185840.0	92.9	193570	188340.0	94.2
LEAD								
MAGNESIUM	500000	500000	497780	497400.0	99.5	522400	513850.0	102.8
MANGANESE	0	500	13	480.3	96.1	13	489.2	97.8
MERCURY								
NICKEL	0	1000	11	949.5	95.0	2	965.5	96.6
POTASSIUM	0	0	1927	-220.8		-281	401.4	
SELENIUM								
SILVER	0	1000	-14	989.4	98.9	-12	1019.2	101.9
SODIUM	0	0	48	41.1		34	20.6	
THALLIUM								
VANADIUM	0	500	-4	462.6	92.5	-13	477.6	95.5
ZINC	0	1000	-21	974.0	97.4	-22	999.8	100.0

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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

P.O. BOX 818, ALEXANDRIA, VIRGINIA 22313. PHONE : (703) 684-5678/FTS-8-557-2490