02.08-03/01/97-02290

Contractor's Closeout Report for Sites 6 and 82 Source Removal Operable Unit No. 2 MCB Camp Lejeune Jacksonville, North Carolina

Volume IV of IX

Prepared for:

DEPARTMENT OF THE NAVY
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Prepared by

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

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02.08-03/01/97-02290 0111

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-LSS-2

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-LSS-01

Matrix: (soil/water) WATER **% Solids for Sample:** NA

Level (low/med): LOW **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium		539		526		2.4		P
Beryllium								
Boron								
Cadmium		0.8	U	0.6	U			P
Chromium		-1.7	U	-1.5	U			P
Cobalt								
Copper								
Iron								
Lead		-2.3	U	-15.7	U			P
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver		3.7	UR	-3.5	U			P
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic		-1.04	U	-0.29	U			F
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	3.0	8.3		9.5		13.5		F
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium		0.6	U	-0.9	U			F
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-C

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic		-1.30	U	-1.18	U			F
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	3.0	2.3	B	3.0		26.4		F
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-C

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	5.0	2.2	B	2.1	B	4.7		F
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS22

Lab Code: NA **Case #:** NA **SAS #:** _____ **SDG #:** CLJ-CSS-0

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic		-1.17	U	-1.76	B			F
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead		0.6	U	0.7	U			F
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-5

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury								
Molybdenum								
Nickel								
Selenium	1.3	1.4	B	0.8		54.5		F
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	.140	.073	U	.162	B	75.7		CV
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury	0.200	0.404		0.018	U	182.9	N	CV
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-2

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) Water **% Solids for Sample:** NA

Level (low/med): Low **% Solids for Duplicate:** NA

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

ANALYTE	CONTROL LIMIT	SAMPLE (S)	C	DUPLICATE (D)	C	RPD	Q	M
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Boron								
Cadmium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Manganese								
Mercury		0.029	U	0.123	U			CV
Molybdenum								
Nickel								
Selenium								
Silver								
Strontium								
Thallium								
Vanadium								
Zinc								

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLS-CSS-01

Liquid LCS Source: _____ **Aqueous LCS Source:** VENTures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium	10400	9700	93.3						
Beryllium									
Boron									
Cadmium	1050	968	92.3						
Chromium	5430	4910	90.4						
Cobalt									
Copper									
Iron									
Lead		4800							
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver	93.5	92.5	98.9						
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Liquid LCS Source: _____ **Aqueous LCS Source:** VENTURES

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium	11400	9800	94.2						
Beryllium									
Boron									
Cadmium	1050	975	92.9						
Chromium	5430	4970	91.5						
Cobalt									
Copper									
Iron									
Lead		4780							
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver	93.5	92.7	99.1						
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-DSS-01

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium	10400	9450	90.9						
Beryllium									
Boron									
Cadmium	1050	934	89.0						
Chromium	5430	4730	87.1						
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver	93.5	93.0	99.5						
Strontium									
Thallium									
Vanadium									
Zinc									

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LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	20.0	19.5	97.5						
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	20.0	19.8	99.0						
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium	20.0	20.5	102.5						
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

0130

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLS-CSS-

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	20.0	21.9	109.5						
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-C

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	20.0	18.5	92.5						
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-C

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium	20.0	19.8	99.0						
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7) - 0133

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	20.0	19.5	97.5						
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

0134

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead	20.0	20.7	103.5						
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury									
Molybdenum									
Nickel									
Selenium	20.0	19.6	98.0						
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7) 0136

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury	2.00	1.79	89.5						
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

0137

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury	2.00	1.93	96.5						
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Liquid LCS Source: _____ **Aqueous LCS Source:** Ventures

ANALYTE	AQUEOUS (ug/L) True	Found	%R	SOLID (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron									
Cadmium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Manganese									
Mercury	2.00	2.01	100.5						
Molybdenum									
Nickel									
Selenium									
Silver									
Strontium									
Thallium									
Vanadium									
Zinc									

ICP SERIAL DILUTIONS (9)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **EPA SAMPLE #:** CLJ-DS-01

Contract: NEESA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

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							
Antimony							
Arsenic							
Barium	941		955		1.5		P
Beryllium							
Boron							
Cadmium	1.9	B	0.5	U			P
Chromium	2.5	U	4.5	U			P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	-1.9	U	-2.6	U			P
Strontium							
Thallium							
Vanadium							
Zinc							

~~N7M3193~~ 1245

ICP SERIAL DILUTIONS (9)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **EPA SAMPLE #:** CLJ-CSS-11

Contract: NEESA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

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							
Antimony							
Arsenic							
Barium	604		615		1.5		P
Beryllium							
Boron							
Cadmium	1.6	B	3.0				P
Chromium	2.0	U	-5.0				P
Cobalt							
Copper							
Iron							
Lead							
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	5.9	U	3.5	U			P
Strontium							
Thallium							
Vanadium							
Zinc							

ICP SERIAL DILUTIONS (9)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **EPA SAMPLE #:** CLJ-CSS-17

Contract: NEESA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

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							
Antimony							
Arsenic							
Barium	434		429		1.2		P
Beryllium							
Boron							
Cadmium	0.7	U	3.5	B			P
Chromium	0.3	U	-3.5	U			P
Cobalt							
Copper							
Iron							
Lead	215		192		11.3		P
Manganese							
Mercury							
Molybdenum							
Nickel							
Selenium							
Silver	1.9	U	-28				P
Strontium							
Thallium							
Vanadium							
Zinc							

INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-d **ICP ID #:** 61

Date: 2-15-94 **Flame AA ID #:** _____ **Furnace AA ID #:** _____

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200	41.2	P
Antimony			60		
Arsenic			10	24.7	P
Barium	493.41		200	1.0	P
Beryllium			5		
Boron					
Cadmium	214.44		5	1.1	P
Chromium	267.72		10	4.2	P
Cobalt			50		
Copper			100		
Iron			100	5.8	P
Lead	220.35		3	18.4	P
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium			5	26.1	P
Silver	328.07		10	8.0	P
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

COMMENTS: _____

INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-LSS-01 **ICP ID #:** 01

Date: 2/12/94 **Flame AA ID #:** _____ **Furnace AA ID #:** 51

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic			10		
Barium			200		
Beryllium			5		
Boron					
Cadmium			5		
Chromium			10		
Cobalt			50		
Copper			100		
Iron			100		
Lead	283.3	BZ	3	2.0	F
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium	196.0	BZ	5	1.3	F
Silver			10		
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

COMMENTS: _____

INSTRUMENT DETECTION LIMITS - QUARTERLY (11)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NCESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **ICP ID #:** _____

Date: 2/12/94 **Flame AA ID #:** _____ **Furnace AA ID #:** ~~N~~ 41

SB
2-26-94

ANALYTE	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic	193.7	BZ	10	1.4	F
Barium			200		
Beryllium			5		
Boron					
Cadmium			5		
Chromium			10		
Cobalt			50		
Copper			100		
Iron			100		
Lead			5		
Manganese			15		
Mercury			0.2		
Molybdenum					
Nickel			40		
Selenium			5		
Silver			10		
Strontium					
Thallium			10		
Vanadium			50		
Zinc			20		

COMMENTS: _____

ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12A)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CCS-01 **ICP ID #:** 61

Date: _____

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	V
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium		.00007		.000046		-.00021
Chromium	267.72					.00008
Cobalt						
Copper						
Iron						
Lead	220.35	.001195		.000104		
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07					-.00242
Strontium						
Thallium						
Vanadium						
Zinc						

COMMENTS: _____

ICP INTERELEMENT CORRECTION FACTORS - QUARTERLY (12B)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLS-CSS-01 **ICP ID #:** 61

Date: _____

ANALYTE	Wave-length (nm)	Interelement Correction Factors For:				
		Mo	MN	Cr	Co	Ni
Aluminum						
Antimony						
Arsenic						
Barium	493.41					
Beryllium						
Boron						
Cadmium						
Chromium	267.72	-.00048	.00022			
Cobalt						
Copper						
Iron						
Lead	220.35			-.00078	-.0191	.000752
Manganese						
Mercury						
Molybdenum						
Nickel						
Selenium						
Silver	328.07	-.00084	.000111			
Strontium						
Thallium						
Vanadium						
Zinc						

COMMENTS: _____

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** D

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 ml
LCSW			
CLJ-DS-01			
CLJ-DS-01A			
CLJ-DS-01B			
CLJ-CSS-01			
CLJ-CSS-02			
CLJ-CSS-03			
CLJ-CSS-04			
CLJ-CSS-05			
CLJ-CSS-06			
CLJ-CSS-07			
CLJ-CSS-07S			
CLJ-CSS-07S			
CLJ-CSS-07D			
TCLP Blank			

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** P

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 ml
LCSW			
CLJ-CSS-08			
CLJ-CSS-09			
CLJ-CSS-10			
CLJ-CSS-11			
CLJ-CSS-12			
CLJ-CSS-12S			
CLJ-CSS-12S			
CLJ-CSS-12D			
			2/26/94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** P

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-14-94		50 ml
LCSW	02-14-94		
CLJ-CSS-13			
CLJ-CSS-14			
CLJ-CSS-15			
CLJ-CSS-16			
CLJ-CSS-17			
CLJ-CSS-18			
CLJ-CSS-19			
CLJ-CSS-20			
CLJ-CSS-21			
CLJ-CSS-22			
CLJ-CSS-22S			
CLJ-CSS-22S			
CLJ-CSS-22D			
TCLP Blank			

2/26/94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 mL
LCSW			
CLJ-DS-01			
CLJ-DS-01A			
CLJ-DS-01B			
CLJ-CSS-01			
CLJ-CSS-02			
CLJ-CSS-03			
CLJ-CSS-04			
CLJ-CSS-05			
CLJ-CSS-06			
CLJ-CSS-07			
CLJ-CSS-07S			
CLJ-CSS-07S			
CLJ-CSS-07D			
TCLP Blank			

Susan Bentzen 2-26-94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 mL
LCSW			
CLJ-CSS-08			
CLJ-CSS-09			
CLJ-CSS-10			
CLJ-CSS-11			
CLJ-CSS-12			
CLJ-CSS-12S			
CLJ-CSS-12S			
CLJ-CSS-12D			

Susan Bentz 2-26-94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-14-94		50 mL
LCSW			
CLJ-CSS-13			
CLJ-CSS-14			
CLJ-CSS-15			
CLJ-CSS-16			
CLJ-CSS-17			
CLJ-CSS-18			
CLJ-CSS-19			
CLJ-CSS-20			
CLJ-CSS-21			
CLJ-CSS-22			
CLJ-CSS-22S			
CLJ-CSS-22S			
CLJ-CSS-22D			
TCLP Blank			

Susan Bentzen 2-26-94

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PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-10-94		50mL
LCSW			
CLJ-DS-01			
CLJ-DS-01A			
CLJ-DS-01B			
CLJ-CSS-01			
CLJ-CSS-02			
CLJ-CSS-03			
CLJ-CSS-04			
CLJ-CSS-05			
CLJ-CSS-06			
CLJ-CSS-07			
CLJ-CSS-07S			
CLJ-CSS-07S			
CLJ-CSS-07D			
TCLP Blank			
		Susan Bunton	2-26-94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-09-94		50 mL
LCSW			
CLJ-CSS-08			
CLJ-CSS-09			
CLJ-CSS-10			
CLJ-CSS-11			
CLJ-CSS-12			
CLJ-CSS-12S			
CLJ-CSS-12S			
CLJ-CSS-12D			

Susan Bentzen 2-26-94

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
PBW	02-14-94		50mL
LCSW			
CLJ-CSS-13			
CLJ-CSS-14			
CLJ-CSS-15			
CLJ-CSS-16			
CLJ-CSS-17			
CLJ-CSS-18			
CLJ-CSS-19			
CLJ-CSS-20			
CLJ-CSS-21			
CLJ-CSS-22			
CLJ-CSS-22S			
CLJ-CSS-22S			
CLJ-CSS-22D			
TCLP Blank			
		Susan Benjen	2-26-94

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** P ~~6010~~ ms

Instrument ID Number: 61 **Start Date:** 2/18/94 **End Date:** 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	SE	AG	SR	TL	V	ZN
STD1-Blank		1328					X			X	X				X						X				
STD3		1332					X			X	X				X						X				
STD2		1336					X			X	X				X						X				
STD4		1339					X			X	X				X						X				
ICV		1345					X			X	X				X						X				
ICB		1349					X			X	X				X						X				
CRI		1353					X			X	X				X						X				
ICSA		1356					X			X	X				X						X				
ICSAB		1400					X			X	X				X						X				
STD3		1404					X			X	X				X						X				
PBW		1414					X			X	X				X						X				
LCSW		1418					X			X	X				X						X				
CLJ-CSS-07S		1421					X			X	X				X						X				
CLJ-CSS-07S		1425																							
CLJ-CSS-07		1428					X			X	X				X						X				

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0156

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** P
Instrument ID Number: 61 **Start Date:** 2/18/94 **End Date:** 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-07D		1432					X			X	X										X				
CLJ-DS-01		1435					X			X	X										X				
CLJ-DS-01A		1439					X			X	X										X				
CLJ-DS-01B		1442					X			X	X										X				
CCV		1446					X			X	X				X						X				
CCB		1449					X			X	X				X						X				
CLJ-CSS-01		1452					X			X	X										X				
CLJ-CSS-02		1456					X			X	X										X				
CLJ-CSS-03		1459					X			X	X										X				
CLJ-CSS-04		1503					X			X	X										X				
CLJ-CSS-05		1506					X			X	X										X				
CLJ-CSS-06		1510					X			X	X										X				
ZZZZZZ		1514																							
CLJ-DS-01L	5	1517					X			X	X										X				
CLJ-DS-01A		1521					X			X	X										X				

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01157

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** P
Instrument ID Number: 61 **Start Date:** 2/18/94 **End Date:** 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCV		1524					X			X	X										X				
CCB		1527					X			X	X										X				
~~ZZZZZ~~		1530					~~X~~																		
~~ZZZZZ~~		1534					~~X~~																		
~~ZZZZZ~~		1537					~~X~~																		
PBW		1543					X			X	X										X				
LCSW		1547					X			X	X										X				
CLJ-CSS-12S		1551					X			X	X										X				
ZZZZZ		1554																							
CLJ-CSS-12		1558					X			X	X										X				
CLJ-CSS-12D		1601					X			X	X										X				
CLJ-CSS-08		1605					X			X	X										X				
CLJ-CSS-09		1608					X			X	X										X				
CLJ-CSS-10		1612					X			X	X										X				
CLJ-CSS-11		1616					X			X	X										X				

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** P
Instrument ID Number: 61 **Start Date:** 2/18/94 **End Date:** 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCV		1619					X			X	X										X				
CCB		1622					X			X	X										X				
CLJ-CSS-11D		1625					X			X	X										X				
CLJ-CSS-11A		1629					X			X	X										X				
CCV		1632					X			X	X										X				
CCB		1635					X			X	X										X				
222222		1639																							
222222		1643																							
222222		1646																							
PBW		1704					X			X	X										X				
LCSW		1708					X			X	X										X				
CLJ-CSS-22S		1712					X			X	X										X				
CLJ-CSS-22S		1715																							
CLJ-CSS-22		1719					X			X	X										X				
CLJ-CSS-22D		1723					X			X	X										X				

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ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** P
Instrument ID Number: 61 **Start Date:** 2/18/94 **End Date:** 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-13		1726					X			X	X										X				
CLJ-CSS-14		1730					X			X	X										X				
CLJ-CSS-15		1733					X			X	X										X				
CLJ-CSS-16		1737					X			X	X										X				
CCV		1740					X			X	X										X				
CCB		1743					X			X	X										X				
CLJ-CSS-17		1747					X			X	X										X				
CLJ-CSS-18		1751					X			X	X										X				
CLJ-CSS-19		1755					X			X	X										X				
CLJ-CSS-20		1758					X			X	X										X				
CLJ-CSS-21		1802					X			X	X										X				
ZZZZZZ		1806																							
CLJ-CSS-17L		1809					X			X	X										X				
CLJ-CSS-17A		1813					X			X	X										X				
CCV		1816					X			X	X										X				

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ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLS-CSS-01 **Method:** P
Instrument ID Number: 61 **Start Date:** 2/18/94 **End Date:** 2/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCB		1819					X			X	X				X						X				
CRI		1822					X			X	X				X						X				
ICSA		1826					X			X	X				X						X				
ICSAB		1829					X			X	X				X						X				

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01161

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
SO		8:33				X																			
S1		8:39				X																			
S2		8:46				X																			
S3		8:53				X																			
S4		9:00				X																			
S5		9:07				X																			
S6		9:14				X																			
ICV		9:33				X																			
ICB		9:40				X																			
CRA		9:47				X																			
PBW		9:54				X																			
PBW		10:01	104.5			X																			
LCSW		10:08				X																			
LCSW		10:15	99.9			X																			
CLJ-CSS-075		10:22				X																			

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
222222		10:24				X	NO SB 2-26-94																		
CLJ-CSS-07		10:36				X																			
CLJ-CSS-07A		10:43	109.3			X																			
CLJ-CSS-07D		10:50				X																			
CLJ-CSS-07DA		10:57	102.8			X																			
CCV		11:04				X																			
CCB		11.11				X																			
CLJ-DS-01		11.18				X																			
CLJ-DS-01A		11:25	101.5			X																			
CLJ-DS-01A		11:32				X																			
CLJ-DS-01AA		11:39	107.2			X																			
CLJ-DS-01B		11:46				X																			
CLJ-DS-01BA		11:53	106.8			X																			
CLJ-CSS-01		11:59				X																			
CLJ-CSS-01A		12:06	104.5			X																			

FORM XIV - IN

0163

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F
Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-02		12:13				X																			
CLJ-CSS-02A		12:20	102.8			X																			
CCV		12:27																							
CCB		12:34																							
CLJ-CSS-03		12:41																							
CLJ-CSS-03A		12:47	107.3																						
CCV		12:58				X																			
CCB		13:05				X																			
CLJ-CSS-03		13:12				X																			
CLJ-CSS-03A		13:19	109.0			X																			
CLJ-CSS-04		13:25				X																			
CLJ-CSS-04A		13:32	107.4			X																			
CLJ-CSS-05		13:39				X																			
CLJ-CSS-05A		13:46	111.6			X																			
CLJ-CSS-06		13:53				X																			

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-06A		14:00	109.2			X																			
ZZZZZZ		14:07																							
ZZZZZZ		14:13	122.6																						
CCV		14.20				X																			
CCB		14:27				X																			
PBW		14:34				X																			
PBW		14.41	105.3			X																			
LCSW		14:48				X																			
LCSW		14:54	110.8			X																			
CLJ-CSS-12S		15:01				X																			
ZZZZZZ		15:08																							
CLJ-CSS-12		15:15				X																			
CLJ-CSS-12A		15:22	97.2			X																			
CLJ-CSS-12D		15:30				X																			
CLJ-CSS-12DA		15:37	102.0			X																			

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCV		15.44				X																			
CCB		15.50				X																			
CLJ-CSS-08		15.57	SB 2-26-94 ~~105.2~~			X																			
CLJ-CSS-08A		16:04	105.2			X																			
CLJ-CSS-09		16:11				X																			
CLJ-CSS-09A		16:18	100.3			X																			
CLJ-CSS-10		16:25				X																			
CLJ-CSS-10A		16:32	105.4			X																			
CLJ-CSS-11		16:39				X																			
CLJ-CSS-11A		16:46	100.9			X																			
CCV		16:53				X																			
CCB		17:00				X																			
ZZZZZZ		17:07																							
PBW		17:23				X																			
PBW		17:30	102.1			X																			

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
LCSW		17:37				X																			
LCSW		17:44	109.7			X																			
CLJ-CSS-22S		17:51				X																			
CCV		18:00				X																			
CCB		18:07				X																			
ZZZZZZ		18:14																							
CLJ-CSS-22		18:21				X																			
CLJ-CSS-22A		18:28	101.7			X																			
CLJ-CSS-22D		18:35				X																			
CLJ-CSS-22DA		18:42	102.0			X																			
CLJ-CSS-13		18:49				X																			
CLJ-CSS-13A		18:56	101.7			X																			
CLJ-CSS-14		19:03				X																			
CLJ-CSS-14A		19:10	103.6			X																			
CLJ-CSS-15		19:17				X																			

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-15A		19:23	101.6			X																			
CCV		19:30				X																			
CCB		19:37				X																			
CLJ-CSS-16		19:44				X																			
CLJ-CSS-16A		19:51	-9999.9																						
CLJ-CSS-16A		19:58	132.2			X																			
CLJ-CSS-17		20:05				X																			
CLJ-CSS-17A		20:12	108.0			X																			
CLJ-CSS-18		20:18				X																			
CLJ-CSS-18A		20:25	104.6			X																			
CLJ-CSS-19		20:32				X																			
CLJ-CSS-19A		20:39	105.5			X																			
CLJ-CSS-20		20:46				X																			
CLJ-CSS-20A		20:52	110.0			X																			
CCV		20:59				X																			

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCB		21:06				X																			

Susan Benjen 2-26-94

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 41 **Start Date:** 02/19/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
SO		7:31																							
SO		7:46				X																			
S1		7:52				X																			
S2		7:59				X																			
S3		8:06				X																			
S4		8:13				X																			
S5		8:20				X																			
S6		8:27				X																			
ICV		8:35				X																			
ICB		8:42				X																			
CRA		8:49				X																			
CLJ-CSS-21		8:56				X																			
CLJ-CSS-21A		9:03	104.2			X																			
ZZZZZZ		9:10																							
ZZZZZZ		9:17																							

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F
Instrument ID Number: 41 **Start Date:** 02/19/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
ZZZZZZ		9:24																							
ZZZZZZ		9:31																							
ZZZZZZ		9:38																							
ZZZZZZ		9:45																							
ZZZZZZ		9:52																							
ZZZZZZ		9:59																							
CCV		10:06				X																			
CCB		10:13				X																			

Susan Bentson 2-20-94

FORM XIV - IN

017

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F
Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
SO		6:55													X										
S1		7:01													X										
S2		7:09													X										
S3		7:15													X										
S4		7:22													X										
S5		7:29													X										
S6		7:35													X										
ICV		7:44													X										
ICB		7:50													X										
CRA		7:57													X										
PBW		8:04													X										
PBW		8:11	96.5												X										
LCSW		8:17													X										
LCSW		8:24	88.1												X										
CLJ-CSS-075		8:31													X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
ZZZZZZ		8:38																							
ZZZZZZ		8:46																							
CLJ-CSS-07		8:52																							
CLJ-CSS-07		8:59																							
CLJ-CSS-07A		9:06																							
CCV		9:16													X										
CCB		9:23													X										

Susan Bentz 2-26-94

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** ~~CWF~~ SB 2-20-94 CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
S0		11:36													X										
S1		11:43													X										
S2		11:50													X										
S3		11:57													X										
S4		12:03													X										
S5		12:10													X										
S6		12:17													X										
ICV		12:27													X										
ICB		12:33													X										
CRA		12:40																							
CRA		12:48													X										
CLJ-CSS-07		12:55													X										
CLJ-CSS-07A		13:02	94.8												X										
CLJ-CSS-07D		13:08													X										
CLJ-CSS-07DA		13:15	91.8												X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-DS-01A	10.0	13:22													X										
CLJ-DS-01AA	10.0	13:28	90.2												X										
CLJ-CSS-01		13:35													X										
CLJ-CSS-01A		13:42	85.9												X										
CLJ-CSS-02		13:49													X										
CLJ-CSS-02A		13:55	93.8												X										
CCV		14:02													X										
CCB		14:08													X										
CLJ-CSS-03		14:15													X										
CLJ-CSS-03A		14:21	85.1												X										
CLJ-CSS-04		14:28													X										
CLJ-CSS-04A		14:35	91.1												X										
CLJ-CSS-05		14:41													X										
CLJ-CSS-05A		14:48	88.6												X										
CLJ-CSS-06		14:54													X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-06A		15:01	88.0												X										
ZZZZZZ		15:07																							
ZZZZZZ		15:14																							
CCV		15:20													X										
CCB		15:27													X										
PBW		15:33													X										
PBW		15:40	93.5												X										
LCSW		15:46													X										
LCSW		15:53	89.1												X										
CLJ-CSS-22S		15:59													X										
ZZZZZZ		16:06																							
CLJ-CSS-22		16:13													X										
CLJ-CSS-22A		16:19	92.4												X										
CLJ-CSS-22D		16:26													X										
CLJ-CSS-22DA		16:33	93.4												X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CCV		16:40													X										
CCB		16:46													X										
CLJ-CSS-13		16:53													X										
CLJ-CSS-13A		17:00	88.2												X										
CLJ-CSS-14		17:06													X										
CLJ-CSS-14A		17:13	82.5												X										
CLJ-CSS-15		17:20													X										
CLJ-CSS-15A		17:27	84.6												X										
CCV		17:39													X										
CCB		17:46													X										
CLJ-CSS-18		17:53																							
CLJ-CSS-18A		17:59																							
CLJ-CSS-19		NO INJECT																							
CCV		18:07													X										
CCB		18:14													X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-16		18:21													X										
CLJ-CSS-16A		18:28	87.8												X										
CLJ-CSS-18		18:34																							
CLJ-CSS-18A 02-26-94		18:41																							
CLJ-CSS-18		18:45																							
CLJ-CSS-18A		18:52																							
CLJ-CSS-19		18:59													X										
CLJ-CSS-19A		19:05	81.6												X										
CLJ-CSS-20		19:12													X										
CLJ-CSS-20A		19:19	88.7												X										
CCV		19:28																							
CCV		19:34													X										
CCB		19:41													X										
CLJ-CSS-21		19:48													X										
CLJ-CSS-21A		19:55	89.2												X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
ZZZZZZ		20:01																							
ZZZZZZ		20:08																							
PBW		20:15													X										
PBW		20:22	93.0												X										
LCSW		20:28													X										
LCSW		20:35	90.5												X										
CLJ-CSS-12S		20:42													X										
ZZZZZZ		20:48																							
CCV		20:55													X										
CCB		21:01													X										
CLJ-CSS-12		21:08													X										
CLJ-CSS-12A		21:14	89.9												X										
CLJ-CSS-12D		21:21													X										
CLJ-CSS-12DA		21:28	89.5												X										
CLJ-CSS-08		21:34													X										

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/21/94 **End Date:** 02/21/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-08A		21:41	92.4												X										
CLJ-CSS-09	10.0	21:47													X										
CLJ-CSS-09A	10.0	21:54	85.8												X										
CLJ-CSS-10		22:00													X										
CLJ-CSS-10A		22:07	85.1												X										
CCV		22:13													X										
CCB		22:20													X										
CLJ-CSS-11		22:26																							
CLJ-CSS-11A		22:33																							
CLJ-CSS-18	2.0	22:39													X										
CLJ-CSS-18A	2.0	22:46	90.4												X										
CCV		22:53													X										
CCB		22:59													X										

Susan Bentley 2-26-94

FORM XIV - IN

0180

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/22/94 **End Date:** 02/22/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
S0		8:17													X										
S1		8:24													X										
S2		8:30													X										
S3		8:37													X										
S4		8:44													X										
S5		8:50													X										
S6		8:57													X										
ICV		9:11													X										
ICB		9:18													X										
CRA		9:24													X										
CLJ-CSS-11	2.0	9:31													X										
CLJ-CSS-11A	2.0	9:38	93.2												X										
CCV		9:44													X										
CCB		9:51													X										

Susan Benfer 2-26

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/17/94 **End Date:** 02/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
S0		10:34																		X					
S1		10:41																		X					
S2		10:48																		X					
S3		10:55																		X					
S4		11:02																		X					
S5		11:09																		X					
S6		11:15																		X					
ICV		12:03																		X					
ICB		12:10																		X					
CRA		12:17																		X					
PBW		12:24																		X					
PBW		12:31	99.0																	X					
LCSW		12:38																		X					
LCSW		12:45	107.6																	X					
CLJ-CSS-075		12:52																		X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F
Instrument ID Number: 51 **Start Date:** 02/17/94 **End Date:** 02/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
222222		12:52																		X					
CLJ-CSS-07		12:59																		X					
CLJ-CSS-07A		13:06	76.1																	X					
CLJ-CSS-07D		13:13																		X					
CLJ-CSS-07DA		13:20																							
CLJ-CSS-07DA		13:27	81.1																	X					
CCB		13:41																							
CCV		13:48																							
CCV		14:02																		X					
CCB		14:09																		X					
CLJ-DS-01A		14:16																		X					
CLJ-DS-01AA		14:23	83.3																	X					
CLJ-DS-01B		14:30																		X					
CLJ-DS-01BA		14:36	91.1																	X					
CLJ-CSS-01		14:43																		X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F
Instrument ID Number: 51 **Start Date:** 02/17/94 **End Date:** 02/17/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-01A		14:50	75.8																	X					
CLJ-CSS-02		14:57																		X					
CLJ-CSS-02A		15.04	73.4																	X					
CLJ-CSS-03		15:11																		X					
CLJ-CSS-03A		15.17	85.0																	X					
CCV		15:24																		X					
CCB		15:31																		X					

Susan Benfer 2-26-94

FORM XIV - IN

0184

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLS-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
S0		13:15																		X					
S1		13:22																		X					
S2		13:29																		X					
S3		13:35																		X					
S4		13:42																		X					
S5		13:49																		X					
S6		13:56																		X					
ICV		14:18																		X					
ICB		14:25																		X					
CRA		14:31																							
PBW		14:38																							
CRA		14:44																		X					
PBW		14:51																		X					
PBW		14:58	92.0																	X					
LCSW		15:05																		X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
LCSW		15.13	93.0																	X					
PBW		15.20																							
PBW		15.27																							
LCSW		15.34																		X					
LCSW		15:41	103.4																	X					
ZZZZZZ		15.48																							
ZZZZZZ		15.55																							
CCV		16:02																		X					
CCB		16:08																		X					
ZZZZZZ		16:15																							
ZZZZZZ		16:22																							
CLJ-DS-01		16:39																		X					
CLJ-DS-01A		16:46	80.0																	X					
CLJ-CSS-03		16:53																							
CLJ-CSS-03A		16:59																							

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/18/94 **End Date:** 02/18/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-04		17:06																		X					
CLJ-CSS-04A		17:13	96.0																	X					
CLJ-CSS-05		17:20																		X					
CLJ-CSS-05A		17:27																							
CLJ-CSS-05A		17:34	65.0																	X					
CCV		17:41																		X					
CCB		17:48																		X					

Susan Blatz 2-26-94

FORM XIV - IN

0187

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/18/94 **End Date:** 2/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
ZZZZZZ		21:51																							
CLJ-CSS-12		21:58																		X					
CLJ-CSS-12A		22:05	49.8																	X					
CLJ-CSS-12D		22:12																		X					
CLJ-CSS-12DA		22:18	60.4																	X					
CLJ-CSS-08		22:25																		X					
CLJ-CSS-08A		22:32	58.8																	X					
CCV		22:39																		X					
CCB		22:46																		X					
CLJ-CSS-09		22:53																		X					
CLJ-CSS-09A		23:00	79.8																	X					
CLJ-CSS-10		23:07																		X					
CLJ-CSS-10A		23:14																							
CLJ-CSS-10A		23.21	72.8																	X					
CLJ-CSS-11		23:28																		X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/18/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
S0		20:07																		X					
S1		20:14																		X					
S2		20:21																		X					
S3		20:27																							
S3		20:34																		X					
S4		20:41																		X					
S5		20:48																		X					
S6		20:55																		X					
ICV		21:03																		X					
ICB		21:10																		X					
CRA		21:17																		X					
CLJ-CSS-06		21:24																		X					
CLJ-CSS-06A		21:31	58.0																	X					
CLJ-CSS-12S		21:38																							
CLJ-CSS-12S		21:44																		X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** WA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/18/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-11A		23:35																		X					
CLJ-CSS-11A		23:42	83.0																	X					
CLJ-CSS-22S		23:49																		X					
ZZZZZZ		23:56																							
CCV		00:03																		X					
CCB		00:10																		X					

Susan Fenton 2-26-94

FORM XIV - IN

0190

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: S1 **Start Date:** 02/19/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
S0		8:27																		X					
S1		8:34																		X					
S2		8:40																		X					
S3		8:47																							
S4		8:54																							
S4		9:01																		X					
S5		9:08																							
S5		9:15																		X					
S6		9:22																		X					
S3		9:31																		X					
ICV		9:46																		X					
ICB		9:53																		X					
CRA		9:59																		X					
PBW		10:06																		X					
PBW		10:13	1032																	X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F
Instrument ID Number: 51 **Start Date:** 02/19/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-22		10:20																							
CLJ-CSS-22A		10:28																							
CLJ-CSS-22		10.37																		X					
CLJ-CSS-22A		10:44																							
CLJ-CSS-22A		10:51	72.7																	X					
CLJ-CSS-22D		10:58																		X					
CLJ-CSS-22DA		11:05	80.7																	X					
CLJ-CSS-13		11:12																		X					
CLJ-CSS-13A		11:19	70.1																	X					
CCV		11:26																							
CCB		11:33																							
CCV		11:40																		X					
CCB		11:47																		X					
CLJ-CSS-14		11:54																		X					
CLJ-CSS-14A		12:01	70.4																	X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/19/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-15		12:08																		X					
CLJ-CSS-15A		12:15	81.0																	X					
CLJ-CSS-16		12:21																		X					
CLJ-CSS-16A		12:28	63.1																	X					
CLJ-CSS-17		12:35																		X					
CLJ-CSS-17A		12:42	79.0																	X					
CLJ-CSS-18		12:49																		X					
CLJ-CSS-18A		12:56																							
CLJ-CSS-18A		13:03	68.9																	X					
CCV		13:10																							
CCV		13:17																		X					
CCB		13:23																		X					
CLJ-CSS-19		13:30																		X					
CLJ-CSS-19A		13:37																							
CLJ-CSS-19A		13:44	67.3																	X					

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** F

Instrument ID Number: 51 **Start Date:** 02/19/94 **End Date:** 02/19/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	Se	AG	SR	TL	V	ZN
CLJ-CSS-20		13:51																		X					
CLJ-CSS-20A		13:57																							
CLJ-CSS-20A		14.04	69.6																	X					
CLJ-CSS-21		14.11																		X					
CLJ-CSS-21A		14:18	76.3																	X					
CCV		14:25																		X					
CCB		14.31																		X					

Susan Bryan 2-26-94

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/10/94 **End Date:** 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
S0		9:42															X								
S0		9:45															X								
S0		9:48															X								
S1		9:52															X								
S1		9:55															X								
S1		9:59															X								
S2		10:02															X								
S2		10:05															X								
S2		10:09															X								
S3		10:12															X								
S3		10:15															X								
S3		10:19															X								
S4		10:22															X								
S4		10:25															X								
S4		10:29															X								

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/10/94 **End Date:** 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
S5		10:32															X								
S5		10:36															X								
S5		10:39															X								
ICB		10:42															X								
ICV		10:46															X								
CRA		10:49															X								
ZZZZZZ		11:04																							
ZZZZZZ		11:07																							
ZZZZZZ		11:10																							
ZZZZZZ		11:13																							
ZZZZZZ		11:17																							
ZZZZZZ		11:20																							
ZZZZZZ		11:23																							
ZZZZZZ		11:27																							
PBW		11:30															X								

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/10/94 **End Date:** 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
LCSW		11:33															X								
CCB		11:37															X								
CCV		11:40															X								
CLJ-CSS 07S		11:43															X								
ZZZZZZ		11:47																							
CLJ-CSS-07		11:50															X								
CLJ-CSS-07D		11:53															X								
CLJ-DS-01		11:56															X								
CLJ-DS-01A		12:00															X								
CLJ-DS-01B		12:03															X								
CLJ-CSS-01		12:06															X								
CLJ-CSS-02		12:09															X								
CLJ-CSS-03		12:13															X								
CCB		12:16															X								
CCV		12:19															X								

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/10/94 **End Date:** 02/10/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-04		12:23															X								
CLJ-CSS-05		12:26															X								
CLJ-CSS-06		12:29															X								
ZZZZZZ		12:32															X								
CCB		12:36															X								
CCV		12:39															X								

Susan Benton 2-26-94

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV

Instrument ID Number: 200 **Start Date:** 02/09/94 **End Date:** 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
50		11:07															X								
50		11:10															X								
50		11:13															X								
51		11:17															X								
51		11:20															X								
51		11:24															X								
52		11:27															X								
52		11:30															X								
52		11:34															X								
53		11:37															X								
53		11:40															X								
53		11:44															X								
54		11:47															X								
54		11:51															X								
54		11:54															X								

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/09/94 **End Date:** 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
S5		11:57															X								
S5		12:01															X								
S5		12:04															X								
ICB		12:08															X								
ICV		12:11															X								
CRA		12:14															X								
ZZZZZZ		12:20																							
ZZZZZZ		12:24																							
ZZZZZZ		12:27																							
ZZZZZZ		12:31																							
ZZZZZZ		12:34																							
ZZZZZZ		12:38																							
ZZZZZZ		12:41																							
ZZZZZZ		12:46																							
ZZZZZZ		12:49																							

FORM XIV - IN

0200

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/09/94 **End Date:** 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
ZZZZZZ		12:53																							
CCB		12:59															X								
CCV		13:02															X								
ZZZZZZ		13:05																							
ZZZZZZ		13:09																							
ZZZZZZ		13:12																							
ZZZZZZ		13:15																							
ZZZZZZ		13:19																							
ZZZZZZ		13:22																							
ZZZZZZ		13:25																							
ZZZZZZ		13:28																							
ZZZZZZ		13:32																							
PBW		13:35																							
CCB		13:38															X								
CCV		13:42															X								

FORM XIV - IN

0201

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV

Instrument ID Number: 200 **Start Date:** 02/09/94 **End Date:** 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
LCSW		13:45																							
CLJ-CSS-07S		13:48																							
ZZZZZZ		13:51																							
CLJ-CSS-07		13:55																							
CLJ-CSS-07	10.0	14:03																							
CLJ-CSS-07S	10.0	14:09																							
CCB		14:17															X								
CCV		14:21															X								
PBW		14:26															X								
LCSW		14:29															X								
CLJ-CSS-12S		14:32															X								
ZZZZZZ		14:36																							
CLJ-CSS-12		14:39															X								
CLJ-CSS-12D		14:42															X								
CLJ-CSS-08		14:45															X								

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/09/94 **End Date:** 02/09/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-09		14:49															X								
CLJ-CSS-10		14:52															X								
CLJ-CSS-11		14:55															X								
CCB		14:58															X								
CCV		15:02															X								

Susan Bridge 2-26-94

FORM XIV - IN

020

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV

Instrument ID Number: 200 **Start Date:** 02/14/94 **End Date:** 02/14/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
S0		9:47															X								
S0		9:50															X								
S0		9:53															X								
S1		9.57															X								
S1		10:00															X								
S1		10:03															X								
S2		10:07															X								
S2		10:10															X								
S2		10:13															X								
S3		10:17															X								
S3		10:20															X								
S3		10:24															X								
S4		10:27															X								
S4		10:30															X								
S4		10:34															X								

FORM XIV - IN

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV
Instrument ID Number: 200 **Start Date:** 02/14/94 **End Date:** 02/14/94

EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
S5		10:37															X								
S5		10:40															X								
S5		10:44															X								
ICB		10:47															X								
ICV		10:51															X								
CRA		10:54															X								
PBW		10:57															X								
LCSW		11:00															X								
CLJ-CSS-22S		11:04															X								
222222		11:07															X								
CLJ-CSS-22		11:10															X								
CLJ-CSS-22D		11:14															X								
CLJ-CSS-13		11:17															X								
CLJ-CSS-14		11:20															X								
CLJ-CSS-15		11:24															X								

FORM XIV - IN

0205

ANALYSIS RUN LOG (14)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** CV

Instrument ID Number: 200 **Start Date:** 02/14/94 **End Date:** 02/14/94

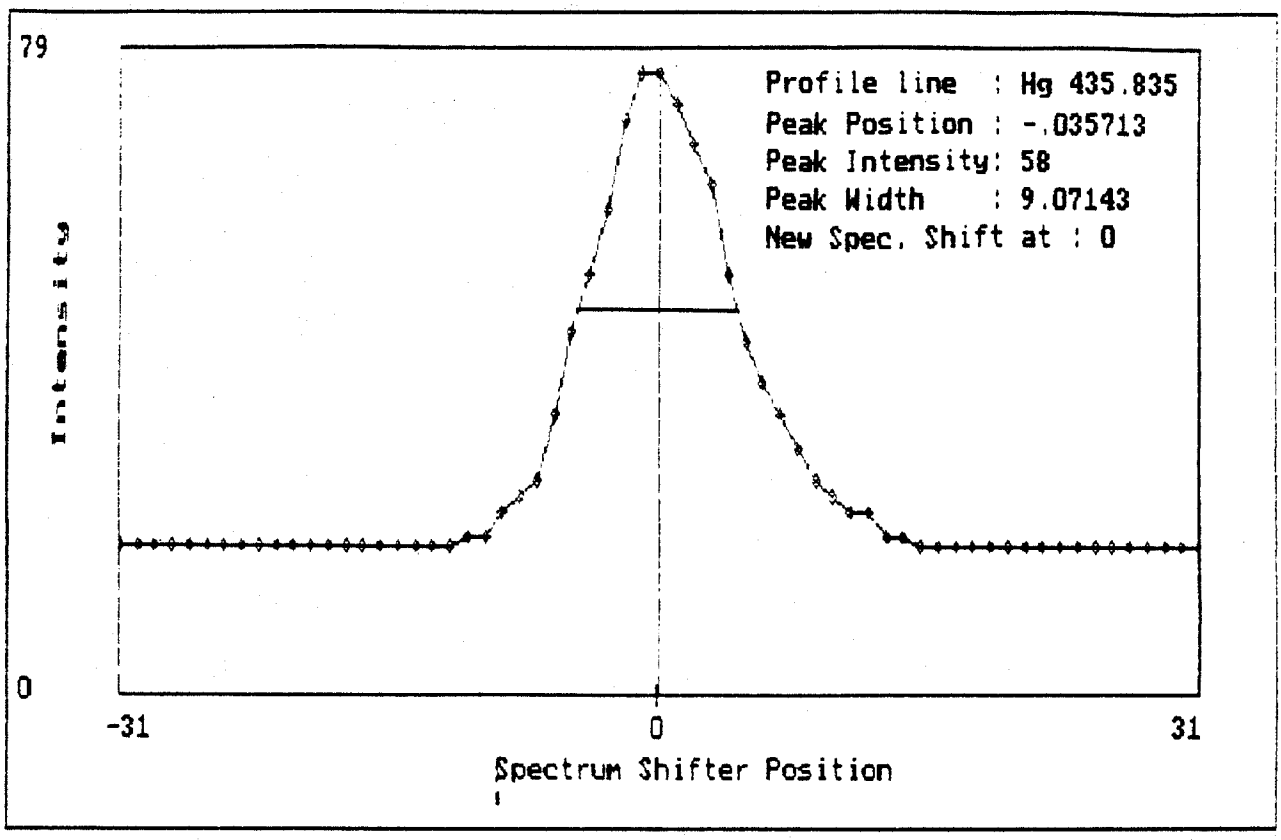
EPA Sample Number	D/F	Time	% R	Analytes																					
				AL	SB	AS	BA	BE	B	CD	CR	CO	CU	FE	PB	MN	HG	MO	NI	S	AG	SR	TL	V	ZN
CLJ-CSS-16		11:27															X								
CCB		11:30															X								
CCV		11:34															X								
CLJ-CSS-17		11:37															X								
CLJ-CSS-18		11:40															X								
CLJ-CSS-19		11:43															X								
CLJ-CSS-20		11:47															X								
CLJ-CSS-21		11:50															X								
ZZZZZZ		11:53															X								
ZZZZZZ		11:56															X								
ZZZZZZ		12:00															X								
ZZZZZZ		12:03															X								
ZZZZZZ		12:06															X								
CCB		12:10															X								
CCV		12:13															X								

FORM XIV - IN

Analysis Report Summary Fri 02-18-94 06:34:41 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	A021894	ICAP3	02/18/94	13:28		X	IR
2	STD3 0729	A021894	ICAP3	02/18/94	13:32		X	IR
3	STD2 0761	A021894	ICAP3	02/18/94	13:36		X	IR
4	STD4 0775	A021894	ICAP3	02/18/94	13:39		X	IR
5	ICV,0772	A021894	ICAP3	02/18/94	13:45	SBB	Q	CONC
6	ICB	A021894	ICAP3	02/18/94	13:49	SBB	S	CONC
7	CRI,0784	A021894	ICAP3	02/18/94	13:53	SBB	Q	CONC
8	ICSA,0775	A021894	ICAP3	02/18/94	13:56	SBB	Q	CONC
9	ICSAB,0786	A021894	ICAP3	02/18/94	14:00	SBB	Q	CONC
10	STD #3	A021894	ICAP3	02/18/94	14:04	SBB	S	CONC
11	PBL,N7M3774 MET BLK	A021894	ICAP3	02/18/94	14:14	SBB	S	CONC
12	LCSL,N7M3774 MET SPK	A021894	ICAP3	02/18/94	14:18	SBB	S	CONC
13	SM,JM3178 MTX SPK	A021894	ICAP3	02/18/94	14:21	SBB	S	CONC
14	SD,JM3178 MTX REP	A021894	ICAP3	02/18/94	14:25	SBB	S	CONC
15	XX,JM3178 CLJCSS07	A021894	ICAP3	02/18/94	14:28	SBB	S	CONC
16	XX,JM3178 DUPLICATE	A021894	ICAP3	02/18/94	14:32	SBB	S	CONC
17	XX,JM3169 CLJDS01	A021894	ICAP3	02/18/94	14:35	SBB	S	CONC
18	XX,JM3170 CLJDS01A	A021894	ICAP3	02/18/94	14:39	SBB	S	CONC
19	XX,JM3171 CLJDS01B	A021894	ICAP3	02/18/94	14:42	SBB	S	CONC
20	CCV,0777	A021894	ICAP3	02/18/94	14:46	SBB	Q	CONC
21	CCB	A021894	ICAP3	02/18/94	14:49	SBB	S	CONC
22	XX,JM3172 CLJCSS01	A021894	ICAP3	02/18/94	14:52	SBB	S	CONC
23	XX,JM3173 CLJCSS02	A021894	ICAP3	02/18/94	14:56	SBB	S	CONC
24	XX,JM3174 CLJCSS03	A021894	ICAP3	02/18/94	14:59	SBB	S	CONC
25	XX,JM3175 CLJCSS04	A021894	ICAP3	02/18/94	15:03	SBB	S	CONC
26	XX,JM3176 CLJCSS05	A021894	ICAP3	02/18/94	15:06	SBB	S	CONC
27	XX,JM3177 CLJCSS06	A021894	ICAP3	02/18/94	15:10	SBB	S	CONC
28	TCLP BLK	A021894	ICAP3	02/18/94	15:14	SBB	S	CONC
29	LD,JM3169 X5	A021894	ICAP3	02/18/94	15:17	SBB	S	CONC
30	AS,JM3169,0770 9:1PS	A021894	ICAP3	02/18/94	15:21	SBB	S	CONC
31	CCV,0777	A021894	ICAP3	02/18/94	15:24	SBB	Q	CONC
32	CCB	A021894	ICAP3	02/18/94	15:27	SBB	S	CONC
33	CRI,0784	A021894	ICAP3	02/18/94	15:30	SBB	Q	CONC
34	ICSA,0775	A021894	ICAP3	02/18/94	15:34	SBB	Q	CONC
35	ICSAB,0786 SB 2-19-94	A021894	ICAP3	02/18/94	15:37	SBB	Q	CONC
36	PBL,N7M3776 MET BLK	A021894	ICAP3	02/18/94	15:43	SBB	S	CONC
37	LCSL,N7M3776 MET SPK	A021894	ICAP3	02/18/94	15:47	SBB	S	CONC
38	SM,JM3183 MTX SPK	A021894	ICAP3	02/18/94	15:51	SBB	S	CONC
39	SD,JM3183 MTX REP	A021894	ICAP3	02/18/94	15:54	SBB	S	CONC
40	XX,JM3183 CLJCSS12	A021894	ICAP3	02/18/94	15:58	SBB	S	CONC
41	XX,JM3183 DUPLICATE	A021894	ICAP3	02/18/94	16:01	SBB	S	CONC
42	XX,JM3179 CLJCSS08	A021894	ICAP3	02/18/94	16:05	SBB	S	CONC
43	XX,JM3180 CLJCSS09	A021894	ICAP3	02/18/94	16:08	SBB	S	CONC
44	XX,JM3181 CLJCSS10	A021894	ICAP3	02/18/94	16:12	SBB	S	CONC
45	XX,JM3182 CLJCSS11	A021894	ICAP3	02/18/94	16:16	SBB	S	CONC
46	CCV,0777	A021894	ICAP3	02/18/94	16:19	SBB	Q	CONC
47	CCB	A021894	ICAP3	02/18/94	16:22	SBB	S	CONC
48	LD,JM3182 X5	A021894	ICAP3	02/18/94	16:25	SBB	S	CONC
49	AS,JM3182,0770 9:1PS	A021894	ICAP3	02/18/94	16:29	SBB	S	CONC
50	CCV,0777	A021894	ICAP3	02/18/94	16:32	SBB	Q	CONC
51	CCB	A021894	ICAP3	02/18/94	16:35	SBB	S	CONC
52	CRI,0784	A021894	ICAP3	02/18/94	16:39	SBB	Q	CONC
53	ICSA,0775	A021894	ICAP3	02/18/94	16:43	SBB	Q	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	ICSAB,0786	A021894	ICAP3	02/18/94	16:46	SBB	Q	CONC
55	PBL,N7M3793 MET BLK	B021894	ICAP3	02/18/94	17:04	SBB	S	CONC
56	LCSL,N7M3793 MET SPK	B021894	ICAP3	02/18/94	17:08	SBB	S	CONC
57	SM,JM3193 MTX SPK	B021894	ICAP3	02/18/94	17:12	SBB	S	CONC
58	SD,JM3193 MTX REP	B021894	ICAP3	02/18/94	17:15	SBB	S	CONC
59	XX,JM3193 CLJCSS22	B021894	ICAP3	02/18/94	17:19	SBB	S	CONC
60	XX,JM3193 DUPLICATE	B021894	ICAP3	02/18/94	17:23	SBB	S	CONC
61	XX,JM3184 CLJCSS13	B021894	ICAP3	02/18/94	17:26	SBB	S	CONC
62	XX,JM3185 CLJCSS14	B021894	ICAP3	02/18/94	17:30	SBB	S	CONC
63	XX,JM3186 CLJCSS15	B021894	ICAP3	02/18/94	17:33	SBB	S	CONC
64	XX,JM3187 CLJCSS16	B021894	ICAP3	02/18/94	17:37	SBB	S	CONC
65	CCV,0777	B021894	ICAP3	02/18/94	17:40	SBB	Q	CONC
66	CCB	B021894	ICAP3	02/18/94	17:43	SBB	S	CONC
67	XX,JM3188 CLJCSS17	B021894	ICAP3	02/18/94	17:47	SBB	S	CONC
68	XX,JM3189 CLJCSS18	B021894	ICAP3	02/18/94	17:51	SBB	S	CONC
69	XX,JM3190 CLJCSS19	B021894	ICAP3	02/18/94	17:55	SBB	S	CONC
70	XX,JM3191 CLJCSS20	B021894	ICAP3	02/18/94	17:58	SBB	S	CONC
71	XX,JM3192 CLJCSS21	B021894	ICAP3	02/18/94	18:02	SBB	S	CONC
72	TCLP BLK	B021894	ICAP3	02/18/94	18:06	SBB	S	CONC
73	LD,JM3188 X5	B021894	ICAP3	02/18/94	18:09	SBB	S	CONC
74	AS,JM3188,0770 9:1PS	B021894	ICAP3	02/18/94	18:13	SBB	S	CONC
75	CCV,0777	B021894	ICAP3	02/18/94	18:16	SBB	Q	CONC
76	CCB	B021894	ICAP3	02/18/94	18:19	SBB	S	CONC
77	CRI,0784	B021894	ICAP3	02/18/94	18:22	SBB	Q	CONC
78	ICSA,0775	B021894	ICAP3	02/18/94	18:26	SBB	Q	CONC
79	ICSAB,0786	B021894	ICAP3	02/18/94	18:29	SBB	Q	CONC


79
0
Intensity
Profile line : Hg 435.835
Peak Position : -.035713
Peak Intensity: 58
Peak Width : 9.07143
New Spec. Shift at : 0
-31
0
31
Spectrum Shifter Position

Method: ICAP3 Standard: STD1-Blank

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avge	.0008	-.0002	-.0023	.0053	.0004	.0021	.0012
SDev	.0008	.0003	.0035	.0036	.0018	.0063	.0022
%RSD	98.97	173.2	149.1	67.90	393.9	304.3	177.4
#1	.0017	.0000	-.0040	.0083	-.0013	-.0043	.0013
#2	.0003	.0000	.0017	.0062	.0005	.0023	.0033
#3	.0003	-.0005	-.0047	.0013	.0022	.0082	-.0010

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Fe	Al3082
Avge	-.0003	.0004	-.0003	-.0014	-.0769	-.0009	.0029
SDev	.0007	.0004	.0018	.0010	.0112	.0012	.0050
%RSD	217.9	89.72	567.3	66.62	14.50	131.7	168.1
#1	-.0007	.0006	-.0021	-.0020	-.0723	-.0010	.0013
#2	.0005	.0008	-.0005	-.0003	-.0688	.0003	.0085
#3	-.0008	.0000	.0016	-.0020	-.0897	-.0020	-.0010

Elem	Be3130	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179
Avge	.0007	.0006	.0005	.0005	-.0017	-.0009	.0008
SDev	.0000	.0005	.0008	.0004	.0012	.0036	.0017
%RSD	.0000	91.65	152.8	88.19	72.11	379.4	215.7
#1	.0007	.0007	.0012	.0007	-.0007	-.0018	.0010
#2	.0007	.0010	.0007	.0000	-.0013	.0030	.0023
#3	.0007	.0000	-.0003	.0008	-.0030	-.0040	-.0010

Elem	Na5889	Sr4215	Co2286	K_7664	V_2924	B_1826
Avge	.9082	.0000	.0000	.0195	-.0016	.2172
SDev	.0216	.0000	.0013	.0006	.0020	.0021
%RSD	2.375	.0000	57260.	3.082	129.2	.9866
#1	.9102	.0000	.0002	.0190	-.0013	.2157
#2	.9287	.0000	.0012	.0193	.0003	.2197
#3	.8857	.0000	-.0014	.0202	-.0037	.2163

Method: ICAP3 Standard: STD3 0729

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Avge	1.900	13.24	38.75	2.235	3.148	3.223	.5946
SDev	.013	.10	.30	.021	.019	.026	.0048
%RSD	.6813	.7509	.7841	.9577	.6142	.7974	.8135
#1	1.893	13.15	38.97	2.224	3.142	3.209	.5913
#2	1.915	13.35	38.87	2.260	3.170	3.253	.6002
#3	1.892	13.23	38.40	2.221	3.132	3.208	.5923

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Avge	.4884	2.279	3.704	1.580	4.069	5.282	.6183
SDev	.0048	.018	.029	.012	.029	.050	.0047
%RSD	.9903	.7816	.7835	.7734	.7130	.9491	.7578
#1	.4852	2.264	3.686	1.576	4.052	5.265	.6152
#2	.4940	2.299	3.738	1.594	4.103	5.339	.6237
#3	.4862	2.275	3.689	1.571	4.053	5.243	.6160

Elem	Mn2576	Sb2068	Mg2790	Ca3179	Na5889	Co2286	K_7664
Avge	7.767	1.235	8.900	20.81	19.73	7.349	.3769
SDev	.083	.013	.081	.16	.15	.052	.0036
%RSD	1.066	1.054	.9089	.7579	.7378	.7014	.9609
#1	7.771	1.230	8.876	20.73	19.62	7.323	.3763
#2	7.848	1.250	8.991	20.99	19.90	7.408	.3808
#3	7.683	1.225	8.834	20.71	19.68	7.316	.3737

Elem	V_2924
Avge	2.383
SDev	.018
%RSD	.7575
#1	2.370
#2	2.403
#3	2.375

Method: ICAP3 Standard: STD2 0761

Elem	Ti3349	Mo2020	Sr4215	B_1826
Avge	3.895	.4049	2.085	6.200
SDev	.029	.0031	.015	.041
%RSD	.7557	.7605	.7156	.6611
#1	3.923	.4067	2.100	6.232
#2	3.898	.4067	2.086	6.214
#3	3.864	.4013	2.070	6.154

Method: ICAP3 Standard: STD4 0775

Elem	Fe
Avge	10.39
SDev	.10
%RSD	.9740
#1	10.36
#2	10.50
#3	10.31

Method: ICAP3 Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
As1890	189.042	STD3 0729	STD1-Blank	5.26516	-.004095	02/18/94 01:39:46
Ba4934	493.409	STD3 0729	STD1-Blank	1.51025	.000252	02/18/94 01:39:46
Cd2144	214.423	STD3 0729	STD1-Blank	.129034	.000301	02/18/94 01:39:46
Cr2677	267.716	STD3 0729	STD1-Blank	.897040	-.004734	02/18/94 01:39:46
Pb2203	220.353	STD3 0729	STD1-Blank	3.17707	-.001412	02/18/94 01:39:46
Se1960	196.026	STD3 0729	STD1-Blank	3.10452	-.006382	02/18/94 01:39:46
Ag3280	328.068	STD3 0729	STD1-Blank	4.21309	-.005149	02/18/94 01:39:46
Cu3247	324.754	STD3 0729	STD1-Blank	5.11480	.001705	02/18/94 01:39:46

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Zn2138	213.856	STD3 0729	STD1-Blank	2.19430	-.000975	02/18/94 01:39:46
Ni2316	231.604	STD3 0729	STD1-Blank	1.34961	.000434	02/18/94 01:39:46
Tl1908	190.864	STD3 0729	STD1-Blank	6.32222	.009132	02/18/94 01:39:46
Fe	259.940	STD3 0729	STD1-Blank	2.45697	.002184	02/18/94 01:39:46
Fe	385.958	STD4 0775	STD1-Blank	19.1055	1.47007	02/18/94 01:39:46
Al3082	308.215	STD3 0729	STD1-Blank	3.78844	-.011155	02/18/94 01:39:46
Be3130	313.042	STD3 0729	STD1-Blank	.809571	-.000540	02/18/94 01:39:46
Ti3349	334.941	STD2 0761	STD1-Blank	2.56794	-.001427	02/18/94 01:39:46
Mn2576	257.610	STD3 0729	STD1-Blank	.643768	-.000322	02/18/94 01:39:46
Mo2020	202.030	STD2 0761	STD1-Blank	2.91798	-.001459	02/18/94 01:39:46
Sb2068	206.838	STD3 0729	STD1-Blank	8.08625	.013477	02/18/94 01:39:46
Mg2790	279.079	STD3 0729	STD1-Blank	5.61724	.005305	02/18/94 01:39:46
Ca3179	317.933	STD3 0729	STD1-Blank	2.40292	-.001869	02/18/94 01:39:46
Na5889	588.995	STD3 0729	STD1-Blank	2.65614	-2.41221	02/18/94 01:39:46
Sr4215	421.552	STD2 0761	STD1-Blank	2.39770	.000000	02/18/94 01:39:46
Co2286	228.616	STD3 0729	STD1-Blank	.680360	-.000002	02/18/94 01:39:46
K_7664	766.491	STD3 0729	STD1-Blank	139.882	-2.72770	02/18/94 01:39:46
V_2924	292.402	STD3 0729	STD1-Blank	2.09712	.003262	02/18/94 01:39:46
B_1826	182.640	STD2 0761	STD1-Blank	.835740	-.181541	02/18/94 01:39:46

Method: ICAP3 Sample Name: ICV,0772 Operator: SBB
Run Time: 02/18/94 13:45:01
Comment: IA,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.733	9.370	2.555	.9803	4.726	4.726	1.266
SDev	.038	.050	.003	.0054	.032	.054	.009
%RSD	.7998	.5311	.1194	.5559	.6789	1.134	.7171
#1	4.714	9.358	2.558	.9780	4.722	4.724	1.259
#2	4.708	9.328	2.552	.9763	4.696	4.674	1.262
#3	4.776	9.425	2.557	.9865	4.760	4.781	1.276
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.410	9.240	2.530	.9730	4.680	4.590	1.260
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	1.253	2.500	2.551	4.663	4.719	9.748	.2488
SDev	.006	.015	.020	.017	.021	.043	.0013
%RSD	.4540	.5822	.7832	.3679	.4521	.4388	.5040
#1	1.254	2.495	2.561	4.666	4.716	9.727	.2484
#2	1.247	2.489	2.528	4.645	4.699	9.720	.2478
#3	1.258	2.517	2.564	4.678	4.742	9.797	.2502
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.260	2.480	2.500	4.510	4.670	9.630	.2480
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.763	2.583	.2515	4.747	23.36	23.87	24.03

SDev	.024	.016	.0015	.015	.12	.11	.14
%RSD	.4964	.6365	.5826	.3059	.4970	.4446	.5680
#1	4.756	2.580	.2512	4.750	23.33	23.84	23.95
#2	4.745	2.568	.2503	4.731	23.27	23.77	23.95
#3	4.790	2.601	.2531	4.760	23.49	23.98	24.19
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.690	2.500	.2530	4.620	23.30	23.10	23.80
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	2.588	2.526	24.30	4.751	2.361
SDev	.013	.012	.45	.023	.009
%RSD	.4904	.4583	1.851	.4773	.3827
#1	2.585	2.522	24.15	4.747	2.364
#2	2.578	2.517	23.94	4.731	2.350
#3	2.602	2.539	24.81	4.776	2.368
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.540	2.510	23.80	4.730	2.390
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3 Sample Name: ICB Operator: SBB
Run Time: 02/18/94 13:49:21
Comment: IC,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0055	.0014	.0009	-.0015	-.0021	-.0109	-.0023
SDev	.0087	.0013	.0007	.0015	.0133	.0123	.0106
%RSD	156.1	97.54	81.89	100.5	622.2	112.9	453.3
#1	-.0155	.0025	.0012	-.0013	.0102	-.0245	-.0037
#2	.0003	.0017	.0001	-.0001	-.0004	-.0007	.0089
#3	-.0014	-.0001	.0014	-.0031	-.0162	-.0074	-.0122
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0034	.0001	.0001	.0052	.0044	.0274	-.0000
SDev	.0089	.0013	.0042	.0202	.0065	.0940	.0000
%RSD	259.8	979.5	4596.	386.9	149.4	342.4	2770.
#1	.0085	.0016	-.0047	.0101	.0075	.0692	-.0000
#2	.0085	-.0003	.0029	.0224	.0087	.0933	-.0000
#3	-.0068	-.0009	.0020	-.0169	-.0031	-.0802	.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0009	.0004	-.0024	.0207	.0225	.0077	.0273
SDev	.0027	.0011	.0010	.0623	.0376	.0104	.1104
%RSD	321.5	276.0	39.88	300.7	167.3	134.5	404.3

#1	.0029	.0011	-.0015	.0593	.0428	.0133	.0868
#2	.0020	.0010	-.0024	.0540	.0456	.0142	.0952
#3	-.0023	-.0009	-.0034	-.0512	-.0209	-.0043	-.1000

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0004	.0007	-.0155	.0001	.0086
SDev	.0004	.0045	.6429	.0061	.0024
%RSD	100.0	628.4	4136.	5200.	27.66
#1	.0008	.0040	.6528	.0005	.0105
#2	.0000	.0025	-.0699	.0061	.0093
#3	.0004	-.0044	-.6295	-.0062	.0059

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB
Run Time: 02/18/94 13:53:09
Comment: IL,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.2035	.4090	.0111	.0196	.1577	.2104	.0216
SDev	.0203	.0032	.0001	.0017	.0095	.0163	.0109
%RSD	9.990	.7886	1.025	8.582	6.027	7.767	50.72
#1	.1809	.4053	.0111	.0205	.1674	.1985	Q.0330
#2	.2204	.4102	.0113	.0177	.1484	.2290	Q.0113
#3	.2090	.4114	.0111	.0207	.1573	.2036	.0204
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2208	.4021	.0108	.0210	.1600	.2014	.0220
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.1063	.0431	.0874	.2120	.2210	.4337	.0102
SDev	.0052	.0007	.0031	.0049	.0039	.0462	.0001
%RSD	4.902	1.547	3.567	2.292	1.766	10.66	1.509
#1	.1108	.0427	.0869	.2173	.2235	.4671	.0102
#2	.1006	.0427	.0845	.2078	.2165	.3809	.0102
#3	.1074	.0439	.0907	.2107	.2231	.4531	.0104
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1043	.0412	.0882	.2086	.2101	.4069	.0101
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0010	.0263	.0204	.1200	2.045	10.35	10.39
SDev	.0015	.0004	.0013	.0115	.028	.07	.08
%RSD	154.5	1.633	6.307	9.549	1.354	.6780	.7245
#1	.0003	.0263	.0199	Q.1286	2.051	10.30	10.36
#2	-.0027	.0259	.0194	.1070	2.014	10.33	10.34
#3	-.0006	.0267	.0218	.1245	2.069	10.43	10.48

Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0249	.0203	.1017	2.031	10.29	10.29
Range		25.00	25.00	25.00	25.00	25.00	25.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0016	.0534	10.55	.1064	Q.0801
SDev	.0000	.0013	.32	.0041	.0024
%RSD	.0000	2.473	3.016	3.846	2.933
#1	.0016	.0540	10.77	.1095	Q.0817
#2	.0016	.0519	10.70	.1018	Q.0774
#3	.0016	.0542	10.19	.1081	Q.0812

Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Fail
Value		.0526		.1044	.0191
Range		25.00		25.00	25.00

Method: ICAP3 Sample Name: ICSA,0775 Operator: SBB
Run Time: 02/18/94 13:56:41
Comment: IF,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0098	.0020	-.0099	-.0091	.0020	.0016	-.0098
SDev	.0098	.0007	.0006	.0024	.0061	.0178	.0057
%RSD	99.68	33.51	5.785	26.16	302.1	1102.	57.80
#1	-.0186	.0025	-.0103	-.0103	-.0050	-.0180	-.0066
#2	.0008	.0012	-.0092	-.0064	.0046	.0166	-.0164
#3	-.0117	.0022	-.0101	-.0107	.0064	.0063	-.0066
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0057	.0172	-.0063	.0132	178.0	487.6	-.0001
SDev	.0043	.0012	.0023	.0177	1.7	4.4	.0002
%RSD	75.55	7.097	37.33	133.7	.9298	.8952	172.8
#1	.0102	.0171	-.0086	.0336	177.3	485.5	.0000
#2	.0017	.0185	-.0063	.0020	176.8	484.6	-.0003
#3	.0051	.0160	-.0039	.0041	179.9	492.6	-.0000
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					177.0	487.0	
Range					20.00	20.00	

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0039	-.0017	.0021	.0490	240.0	185.3	1.161
SDev	.0016	.0005	.0004	.0450	2.7	1.9	.065

%RSD	42.07	29.50	19.03	91.81	1.118	1.019	5.631
#1	-.0027	-.0014	.0024	.0896	238.9	184.5	1.193
#2	-.0057	-.0023	.0024	.0006	238.2	183.9	1.086
#3	-.0031	-.0014	.0017	.0567	243.1	187.4	1.204
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					243.0	184.0	
Range					20.00	20.00	

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0071	-.0052	-.5518	-.0014	.9183
SDev	.0002	.0020	.3034	.0031	.0119
%RSD	3.268	37.95	54.98	215.6	1.291
#1	.0068	-.0031	-.2565	-.0001	.9144
#2	.0072	-.0069	-.5362	-.0049	.9090
#3	.0072	-.0055	-.8626	.0007	.9317
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value					
Range					

Method: ICAP3 Sample Name: ICSAB,0786 Operator: SBB
Run Time: 02/18/94 14:00:27
Comment: IG,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9296	.4641	.8920	.4547	.9034	.8812	.9123
SDev	.0089	.0068	.0017	.0052	.0125	.0128	.0134
%RSD	.9616	1.466	.1926	1.138	1.385	1.453	1.471
#1	.9373	.4645	.8923	.4529	.9167	.8770	.9039
#2	.9198	.4572	.8901	.4507	.8919	.8711	.9053
#3	.9318	.4708	.8936	.4606	.9016	.8956	.9278
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.9315	.4713	.8736	.4618	.8833	.8850	.9232
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.4687	.9176	.8721	.8722	171.8	476.0	.4557
SDev	.0090	.0101	.0022	.0264	2.0	6.5	.0058
%RSD	1.928	1.103	.2562	3.030	1.137	1.366	1.280
#1	.4673	.9143	.8699	.8654	171.3	475.0	.4541
#2	.4605	.9095	.8721	.8498	170.2	470.1	.4508
#3	.4784	.9289	.8744	.9013	174.0	483.0	.4621
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4719	.9233	.8724	.8636	172.1	481.4	.4648
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9003	.4533	.9304	.9345	483.6	223.3	Q1.975
SDev	.0115	.0062	.0116	.0176	5.7	2.5	.040
%RSD	1.276	1.359	1.243	1.885	1.179	1.109	2.033
#1	.8982	.4524	.9258	.9400	481.0	222.5	Q1.928
#2	.8901	.4476	.9218	.9148	479.6	221.4	Q1.994
#3	.9128	.4598	.9436	.9486	490.1	226.1	Q2.001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.9123	.4063	.9210	.8952	490.4	226.7	.9625
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.9390	.4342	.6217	.4412	Q1.672
SDev	.0128	.0028	.3644	.0072	.020
%RSD	1.362	.6350	58.62	1.629	1.175
#1	.9387	.4332	Q.9559	.4375	Q1.669
#2	.9263	.4321	.6761	.4366	Q1.654
#3	.9519	.4374	Q.2331	.4495	Q1.693
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.9516	.4323	.5666	.4458	1.083
Range	20.00	20.00	20.00	20.00	20.00

Method: ICAP3 Sample Name: STD #3 Operator: SBB
Run Time: 02/18/94 14:04:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	10.01	20.00	5.060	1.990	10.17	10.03	2.517
SDev	.07	.10	.029	.021	.07	.11	.012
%RSD	.6508	.4772	.5711	1.067	.6651	1.067	.4867
#1	10.07	20.11	5.029	2.010	10.23	10.14	2.530
#2	10.01	19.97	5.065	1.990	10.17	10.01	2.514
#3	9.938	19.92	5.087	1.968	10.10	9.929	2.506

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.500	4.969	5.025	10.00	10.02	20.24	.4980
SDev	.012	.025	.032	.02	.06	.12	.0026
%RSD	.4901	.4952	.6436	.2005	.6441	.5841	.5115
#1	2.514	4.995	5.059	10.01	10.09	20.37	.5006
#2	2.495	4.966	5.020	10.01	10.01	20.20	.4977
#3	2.490	4.946	4.995	9.978	9.959	20.15	.4956

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

Avge	-.0004	5.097	-.0025	10.03	50.39	50.11	50.17
SDev	.0007	.029	.0014	.04	.37	.28	.25
%RSD	152.8	.5726	54.13	.3891	.7322	.5599	.5073
#1	-.0006	5.130	-.0009	10.07	50.72	50.39	50.44
#2	.0003	5.086	-.0033	10.03	50.45	50.13	50.14
#3	-.0010	5.075	-.0033	9.992	49.99	49.83	49.94

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0160	5.025	50.23	5.027	.0384
SDev	.0000	.027	.61	.029	.0008
%RSD	.0000	.5464	1.207	.5674	2.214
#1	.0160	5.049	50.85	5.056	.0394
#2	.0160	5.031	50.22	5.025	.0383
#3	.0160	4.995	49.63	4.999	.0377

Method: ICAP3 Sample Name: PBL,N7M3774 MET BLK Operator: SBB
Run Time: 02/18/94 14:14:23
Comment: N7M3774M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0012	.0006	.0002	-.0000	.0056	-.0090	-.0009
SDev	.0088	.0008	.0008	.0027	.0071	.0103	.0088
%RSD	747.6	147.2	345.7	598200.	126.3	115.0	933.1
#1	.0099	.0013	.0012	.0011	.0086	.0029	.0061
#2	.0012	-.0003	-.0001	-.0031	-.0025	-.0147	-.0108
#3	-.0076	.0008	-.0004	.0020	.0107	-.0152	.0019

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0159	.0108	.0016	.0224	.0079	.0105	.0000
SDev	.0077	.0015	.0016	.0162	.0028	.0612	.0000
%RSD	48.32	13.66	104.4	72.01	35.81	583.0	260.9
#1	.0239	.0122	.0033	.0407	.0095	.0414	-.0000
#2	.0085	.0093	.0015	.0166	.0046	-.0600	.0000
#3	.0153	.0108	-.0000	.0100	.0096	.0501	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0011	.0005	-.0013	.0144	.0031	.0347	-.0606
SDev	.0014	.0003	.0007	.0339	.0232	.0061	.0612
%RSD	120.5	70.62	56.93	235.5	744.8	17.47	101.0
#1	-.0001	.0008	-.0015	.0391	.0100	.0374	-.0509
#2	-.0027	.0001	-.0019	-.0242	-.0228	.0278	-.1262
#3	-.0006	.0005	-.0005	.0283	.0222	.0390	-.0049

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	-.0012	.0699	-.0014	.0049

SDev	.0002	.0025	.2331	.0035	.0016
%RSD	86.60	217.8	333.3	251.6	33.17
#1	.0004	.0002	.3031	.0019	.0043
#2	.0000	-.0041	-.1632	-.0051	.0037
#3	.0004	.0004	.0699	-.0009	.0068

Method: ICAP3 Sample Name: LCSL,N7M3774 MET SPK Operator: SBB
Run Time: 02/18/94 14:18:00
Comment: N7M3774MS,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.769	9.695	.9684	4.912	4.796	.9561	.0925
SDev	.069	.140	.0019	.061	.044	.0200	.0046
%RSD	1.441	1.445	.1913	1.235	.9256	2.087	4.959
#1	4.724	9.714	.9669	4.899	4.755	.9410	.0969
#2	4.736	9.546	.9679	4.859	4.791	.9787	.0877
#3	4.848	9.824	.9705	4.978	4.843	.9487	.0927

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.965	4.671	4.844	4.878	.0054	-.0224	.9413
SDev	.074	.073	.077	.073	.0020	.0249	.0130
%RSD	1.498	1.559	1.594	1.491	37.28	111.0	1.380
#1	4.959	4.648	4.824	4.851	.0077	.0055	.9400
#2	4.894	4.613	4.779	4.823	.0042	-.0304	.9291
#3	5.042	4.753	4.929	4.961	.0043	-.0423	.9550

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	.9591	.9969	.8876	.0056	.0554	-.0105
SDev	.0005	.0137	.0111	.0220	.0214	.0022	.0110
%RSD	34.64	1.427	1.116	2.473	380.2	4.025	105.2
#1	.0020	.9586	.9905	.8870	.0287	.0578	.0022
#2	.0011	.9457	.9906	.8660	.0016	.0534	-.0177
#3	.0011	.9731	1.010	.9099	-.0134	.0550	-.0159

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0059	.9714	.1554	.9603	.0109
SDev	.0005	.0125	1.003	.0134	.0004
%RSD	7.873	1.290	645.2	1.398	3.917
#1	.0056	.9675	-.5362	.9599	.0110
#2	.0064	.9613	1.306	.9470	.0104
#3	.0056	.9854	-.3031	.9739	.0112

Method: ICAP3 Sample Name: SM,JM3178 MTX SPK Operator: SBB
Run Time: 02/18/94 14:21:35

Comment: JM3178MS,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.840	10.20	.9577	4.820	4.702	.9531	.0910
SDev	.027	.05	.0037	.019	.037	.0063	.0008
%RSD	.5550	.5142	.3908	.3922	.7885	.6631	.8828
#1	4.844	10.25	.9620	4.825	4.671	.9462	.0905
#2	4.812	10.15	.9551	4.800	4.692	.9545	.0919
#3	4.866	10.22	.9561	4.837	4.743	.9586	.0906

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.867	5.576	4.748	4.754	.1108	.8176	.9328
SDev	.027	.022	.017	.035	.0008	.0296	.0037
%RSD	.5486	.3964	.3630	.7368	.7248	3.619	.3977
#1	4.885	5.569	4.739	4.730	.1100	.7842	.9327
#2	4.836	5.559	4.737	4.737	.1108	.8282	.9292
#3	4.879	5.601	4.768	4.794	.1116	.8404	.9366

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0108	.9740	.9827	.9027	.2974	5.485	S3502.
SDev	.0018	.0034	.0031	.0250	.0142	.025	.
%RSD	16.43	.3471	.3160	2.771	4.764	.4497	.0094
#1	.0088	.9740	.9804	.8747	.2862	5.472	S3502.
#2	.0123	.9706	.9814	.9102	.3133	5.470	S3502.
#3	.0114	.9774	.9862	.9230	.2927	5.514	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0330	.9501	.5518	.9471	.4318
SDev	.0005	.0053	.4480	.0029	.0020
%RSD	1.397	.5624	81.20	.3062	.4667
#1	.0328	.9462	.0699	.9481	.4305
#2	.0328	.9478	.6295	.9439	.4308
#3	.0336	.9562	.9559	.9495	.4341

Method: ICAP3 Sample Name: SD,JM3178 MTX REP Operator: SBB
Run Time: 02/18/94 14:25:08
Comment: JM3178MR,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.566	9.703	.9030	4.556	4.460	.9085	.0838
SDev	.028	.051	.0049	.037	.027	.0102	.0025
%RSD	.6177	.5308	.5394	.8135	.6118	1.122	2.950
#1	4.591	9.722	.8980	4.543	4.439	.9167	.0813
#2	4.536	9.644	.9031	4.527	4.451	.8971	.0840
#3	4.573	9.741	.9078	4.597	4.491	.9116	.0862

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.591	5.368	4.476	4.503	.1177	.8124	.8819
SDev	.025	.029	.027	.024	.0037	.0284	.0041
%RSD	.5479	.5389	.6110	.5229	3.152	3.502	.4672
#1	4.592	5.363	4.453	4.478	.1137	.7879	.8816
#2	4.566	5.342	4.468	4.505	.1183	.8057	.8780
#3	4.616	5.399	4.506	4.525	.1210	.8436	.8862

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0100	.9262	.9299	.8435	.2986	5.641	S3501.
SDev	.0010	.0045	.0063	.0252	.0136	.033	.
%RSD	9.897	.4852	.6724	2.982	4.546	.5917	.0065
#1	.0088	.9276	.9299	.8176	.2852	5.625	S3501.
#2	.0106	.9212	.9236	.8450	.2983	5.620	S3502.
#3	.0106	.9299	.9361	.8679	.3124	5.680	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0338	.8973	.9714	.8950	.4358
SDev	.0005	.0048	.1687	.0042	.0028
%RSD	1.364	.5333	17.36	.4667	.6488
#1	.0344	.8929	1.166	.8948	.4363
#2	.0336	.8967	.8859	.8909	.4327
#3	.0336	.9024	.8626	.8993	.4383

Method: ICAP3 Sample Name: XX,JM3178 CLJCSS07 Operator: SBB
Run Time: 02/18/94 14:28:44
Comment: JM3178M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0120	.9269	.0015	.0041	.0325	.0107	-.0012
SDev	.0078	.0071	.0013	.0037	.0253	.0342	.0020
%RSD	64.95	.7673	83.49	91.27	77.78	319.4	173.1
#1	-.0094	.9338	.0030	.0081	.0603	.0495	-.0023
#2	-.0058	.9274	.0009	.0008	.0263	-.0152	-.0023
#3	-.0208	.9196	.0007	.0033	.0109	-.0022	.0012

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0219	.9548	.0090	.0084	.1268	.7634	.0003
SDev	.0018	.0077	.0021	.0187	.0013	.0404	.0000
%RSD	8.120	.8057	23.63	222.2	.9873	5.287	.6907
#1	.0205	.9625	.0107	.0240	.1255	.7268	.0003
#2	.0213	.9546	.0066	-.0123	.1271	.7567	.0003
#3	.0239	.9471	.0097	.0136	.1279	.8067	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0020	.0411	.0020	.0120	.2958	5.541	S3502.
SDev	.0017	.0002	.0047	.0363	.0214	.025	.
%RSD	85.71	.3989	240.2	301.8	7.219	.4554	.0029
#1	.0003	.0411	.0073	-.0070	.2768	5.561	S3502.
#2	.0020	.0410	.0000	-.0108	.2918	5.549	S3502.
#3	.0037	.0413	-.0015	.0539	.3189	5.513	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0289	.0031	1.500	.0006	.4451
SDev	.0002	.0013	.841	.0018	.0013
%RSD	.7982	42.30	56.10	317.2	.2958
#1	.0292	.0046	2.471	-.0010	.4455
#2	.0288	.0022	1.026	.0001	.4461
#3	.0288	.0025	1.002	.0025	.4436

Method: ICAP3 Sample Name: XX,JM3178 DUPLICATE Operator: SBB
Run Time: 02/18/94 14:32:27
Comment: JM3178MM,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0023	.9313	.0004	-.0007	.0170	-.0143	.0007
SDev	.0110	.0184	.0004	.0007	.0080	.0094	.0032
%RSD	470.4	1.970	105.0	107.4	46.65	65.74	453.9
#1	-.0111	.9173	-.0001	-.0015	.0252	-.0157	.0040
#2	.0100	.9520	.0006	-.0004	.0093	-.0043	-.0023
#3	-.0058	.9244	.0007	-.0001	.0167	-.0229	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0193	.9594	.0046	.0085	.1689	.8119	.0001
SDev	.0010	.0170	.0016	.0056	.0033	.0052	.0002
%RSD	5.096	1.774	34.17	66.37	1.939	.6416	175.2
#1	.0188	.9456	.0042	.0122	.1656	.8085	-.0000
#2	.0205	.9784	.0063	.0112	.1722	.8092	-.0000
#3	.0188	.9542	.0032	.0020	.1689	.8179	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0031	.0412	-.0011	.0045	.3136	5.576	S3502.
SDev	.0005	.0003	.0024	.0054	.0047	.102	.
%RSD	15.75	.6016	219.1	120.3	1.502	1.830	.0069
#1	.0029	.0409	-.0014	-.0013	.3180	5.497	S3502.
#2	.0029	.0413	-.0034	.0054	.3086	5.691	S3501.
#3	.0037	.0413	.0015	.0094	.3143	5.540	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826

Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0290	.0019	.8859	.0006	.4324
SDev	.0005	.0001	.3450	.0011	.0082
%RSD	1.589	5.929	38.94	198.9	1.895
#1	.0288	.0020	.7227	.0018	.4251
#2	.0296	.0018	.6528	.0001	.4412
#3	.0288	.0019	1.282	-.0003	.4308

Method: ICAP3 Sample Name: XX,JM3169 CLJDS01 Operator: SBB
Run Time: 02/18/94 14:35:58
Comment: JM3169M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0228	.9406	.0019	.0025	.4989	-.0033	-.0019
SDev	.0146	.0077	.0003	.0021	.0065	.0100	.0016
%RSD	64.10	.8187	13.62	85.15	1.304	306.5	86.19
#1	-.0111	.9339	.0017	.0047	.4915	.0081	-.0009
#2	-.0181	.9390	.0019	.0005	.5015	-.0074	-.0009
#3	-.0392	.9490	.0022	.0023	.5036	-.0105	-.0038

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0176	1.922	.0099	-.0001	.1242	1.033	-.0000
SDev	.0036	.006	.0020	.0050	.0017	.017	.0000
%RSD	20.14	.3248	20.25	3772.	1.333	1.626	51.64
#1	.0188	1.916	.0082	.0009	.1257	1.037	-.0000
#2	.0205	1.923	.0121	.0043	.1245	1.047	-.0000
#3	.0136	1.928	.0093	-.0056	.1224	1.014	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0009	.1075	-.0006	.0170	.3476	8.830	S3507.
SDev	.0006	.0005	.0023	.0307	.0177	.049	.
%RSD	76.38	.4990	358.5	180.2	5.084	.5499	.0044
#1	.0007	.1070	.0019	.0444	.3629	8.777	S3507.
#2	.0016	.1080	-.0014	.0229	.3517	8.839	S3507.
#3	.0003	.1075	-.0024	-.0162	.3283	8.873	S3507.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0384	.0040	.8937	.0008	.4180
SDev	.0000	.0005	.5587	.0003	.0007
%RSD	.0000	13.20	62.52	43.80	.1763
#1	.0384	.0046	.5828	.0005	.4171
#2	.0384	.0036	.5595	.0012	.4182
#3	.0384	.0038	1.539	.0008	.4185

Method: ICAP3 Sample Name: XX,JM3170 CLJDS01A Operator: SBB
Run Time: 02/18/94 14:39:30
Comment: JM3170M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0052	.6980	.0018	.0004	.1231	-.0136	-.0003
SDev	.0083	.0027	.0002	.0013	.0153	.0121	.0025
%RSD	159.0	.3827	9.190	324.6	12.44	89.12	1016.
#1	-.0146	.7008	.0019	.0020	.1349	-.0198	-.0024
#2	.0012	.6956	.0018	-.0004	.1285	.0004	.0026
#3	-.0023	.6975	.0016	-.0003	.1058	-.0214	-.0010

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0168	1.972	.0110	.0127	.1330	1.178	-.0000
SDev	.0013	.007	.0013	.0069	.0015	.004	.0000
%RSD	7.762	.3548	11.74	53.92	1.112	.3681	652.9
#1	.0179	1.972	.0125	.0049	.1346	1.173	.0000
#2	.0171	1.965	.0104	.0179	.1317	1.182	-.0000
#3	.0153	1.979	.0102	.0154	.1326	1.179	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0006	.1626	.0008	.0337	.4163	11.95	S3502.
SDev	.0005	.0003	.0020	.0115	.0110	.03	.
%RSD	86.60	.1907	245.6	34.15	2.651	.2834	.0053
#1	.0003	.1622	.0015	.0350	.4041	11.96	S3503.
#2	.0011	.1628	.0024	.0445	.4191	11.91	S3502.
#3	.0003	.1628	-.0014	.0216	.4257	11.98	S3503.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0418	.0027	.8160	.0006	.2889
SDev	.0005	.0011	.5600	.0035	.0009
%RSD	1.103	40.47	68.63	615.6	.3210
#1	.0424	.0017	1.002	-.0030	.2881
#2	.0416	.0038	1.259	.0039	.2887
#3	.0416	.0025	.1865	.0008	.2900

Method: ICAP3 Sample Name: XX,JM3171 CLJDS01B Operator: SBB
Run Time: 02/18/94 14:42:58
Comment: JM3171M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0190	.4346	.0021	-.0020	3.774	-.0081	-.0047
SDev	.0124	.0022	.0005	.0018	.036	.0091	.0021
%RSD	65.19	.5179	25.59	87.79	.9606	113.1	45.71
#1	-.0304	.4320	.0015	-.0031	3.732	-.0126	-.0066

#2	-.0058	.4360	.0023	.0000	3.791	.0024	-.0024
#3	-.0207	.4357	.0025	-.0030	3.798	-.0141	-.0052

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0153	2.548	.0126	.0064	.0965	.9694	-.0000
SDev	.0017	.016	.0026	.0105	.0007	.0028	.0001
%RSD	11.12	.6334	20.29	165.9	.7373	.2901	180.3
#1	.0153	2.530	.0138	.0009	.0969	.9713	.0000
#2	.0136	2.561	.0097	.0185	.0957	.9662	.0000
#3	.0170	2.555	.0144	-.0003	.0969	.9707	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0003	.1164	.0013	.0180	.5377	25.21	S3505.
SDev	.0004	.0006	.0018	.0034	.0094	.16	.
%RSD	150.0	.4878	139.9	19.12	1.753	.6423	.0019
#1	.0007	.1158	.0000	.0216	.5464	25.03	S3505.
#2	-.0001	.1166	.0034	.0148	.5389	25.30	S3505.
#3	.0003	.1168	.0005	.0176	.5277	25.32	S3505.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0571	.0027	.2409	-.0013	.2673
SDev	.0007	.0010	.5002	.0009	.0022
%RSD	1.211	36.29	207.6	71.69	.8141
#1	.0563	.0036	.0000	-.0020	.2647
#2	.0575	.0027	-.0933	-.0016	.2684
#3	.0575	.0017	.8160	-.0002	.2686

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
Run Time: 02/18/94 14:46:17
Comment: IB,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.354	4.753	1.283	.4695	2.417	2.387	.6072
SDev	.023	.050	.009	.0027	.015	.004	.0020
%RSD	.9609	1.044	.6698	.5756	.6235	.1740	.3336
#1	2.348	4.809	1.291	.4698	2.403	2.388	.6061
#2	2.335	4.714	1.274	.4667	2.414	2.391	.6060
#3	2.379	4.736	1.285	.4720	2.433	2.383	.6095
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.6243	1.233	1.284	2.341	2.372	4.757	.1222
SDev	.0020	.009	.004	.027	.012	.010	.0009

%RSD	.3165	.7086	.3063	1.158	.5158	.2132	.7642
#1	.6254	1.241	1.288	2.361	2.385	4.769	.1232
#2	.6220	1.224	1.284	2.311	2.360	4.754	.1213
#3	.6254	1.233	1.281	2.353	2.372	4.749	.1221
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.412	1.272	.1238	2.354	12.14	11.97	12.26
SDev	.018	.006	.0023	.011	.02	.05	.13
%RSD	.7589	.5103	1.852	.4473	.1560	.3998	1.054
#1	2.432	1.279	.1230	2.357	12.13	12.02	12.41
#2	2.396	1.266	.1220	2.362	12.13	11.93	12.21
#3	2.408	1.270	.1264	2.342	12.16	11.98	12.16
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	1.303	1.271	12.24	2.401	1.176
SDev	.014	.005	.68	.014	.004
%RSD	1.068	.3691	5.534	.5993	.3342
#1	1.319	1.274	11.54	2.416	1.179
#2	1.292	1.266	12.29	2.387	1.172
#3	1.299	1.274	12.89	2.399	1.178
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.310	1.280	11.92	2.410	1.210
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3 Sample Name: CCB Operator: SBB
Run Time: 02/18/94 14:49:37
Comment: ID,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0254	.0005	.0002	-.0033	-.0133	-.0190	-.0002
SDev	.0288	.0003	.0003	.0011	.0034	.0192	.0053
%RSD	113.1	71.54	118.9	31.80	25.87	101.1	2265.
#1	-.0585	.0008	-.0000	-.0043	-.0158	-.0328	.0054
#2	-.0120	.0006	.0002	-.0022	-.0094	.0029	-.0009
#3	-.0058	.0001	.0006	-.0035	-.0147	-.0271	-.0052

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0017	.0004	.0010	.0015	.0023	.0311	.0000

SDev	.0017	.0012	.0014	.0094	.0002	.0248	.0001
%RSD	100.1	283.3	139.5	641.4	10.10	79.74	37000.
#1	.0034	.0018	.0020	-.0031	.0026	.0596	.0001
#2	.0017	-.0003	.0017	.0123	.0022	.0147	-.0001
#3	-.0000	-.0002	-.0006	-.0048	.0022	.0190	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0001	.0001	.0008	.0360	.0128	.0035	.1659
SDev	.0009	.0004	.0022	.0063	.0171	.0017	.0343
%RSD	624.5	303.4	267.9	17.45	133.5	48.04	20.66
#1	.0011	.0005	-.0015	.0432	.0325	.0053	.2054
#2	-.0001	.0002	.0029	.0324	.0016	.0029	.1452
#3	-.0006	-.0003	.0010	.0324	.0044	.0021	.1470

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	-.0003	-.3419	-.0003	.0061
SDev	.0005	.0007	.2240	.0024	.0008
%RSD	173.2	224.8	65.52	682.6	13.89
#1	.0008	-.0005	-.1399	.0015	.0071
#2	.0000	.0004	-.5828	.0005	.0059
#3	.0000	-.0008	-.3031	-.0030	.0054

Method: ICAP3 Sample Name: XX,JM3172 CLJCSS01 Operator: SBB
Run Time: 02/18/94 14:52:55
Comment: JM3172M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0009	.7348	.0014	-.0008	.0209	.0081	.0030
SDev	.0134	.0062	.0003	.0009	.0167	.0271	.0004
%RSD	1515.	.8457	22.05	119.1	79.79	334.0	13.28
#1	-.0041	.7303	.0011	-.0016	.0045	-.0157	.0026
#2	.0161	.7322	.0016	.0002	.0379	.0376	.0033
#3	-.0094	.7419	.0017	-.0009	.0204	.0024	.0033

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0122	.4698	.0057	.0059	.0459	.8329	.0003
SDev	.0013	.0056	.0034	.0117	.0002	.0171	.0000
%RSD	10.65	1.197	59.18	196.8	.5133	2.056	.1835
#1	.0136	.4637	.0028	-.0054	.0457	.8394	.0003
#2	.0119	.4708	.0049	.0053	.0461	.8459	.0003
#3	.0111	.4748	.0094	.0179	.0461	.8135	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0010	.0379	.0007	.0337	.8875	23.69	S3501.
SDev	.0003	.0006	.0027	.0222	.0027	.20	.

%RSD	24.74	1.608	410.1	65.81	.3045	.8630	.0076
#1	.0007	.0378	.0024	.0081	.8844	23.51	S3501.
#2	.0011	.0374	-.0024	.0459	.8891	23.66	S3501.
#3	.0011	.0386	.0020	.0472	.8891	23.91	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0581	.0029	1.624	.0028	.3346
SDev	.0009	.0013	.152	.0004	.0019
%RSD	1.589	43.56	9.339	14.49	.5528
#1	.0575	.0019	1.772	.0026	.3336
#2	.0575	.0043	1.632	.0033	.3336
#3	.0591	.0025	1.469	.0026	.3368

Method: ICAP3 Sample Name: XX,JM3173 CLJCSS02 Operator: SBB
Run Time: 02/18/94 14:56:21
Comment: JM3173M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0102	.5328	.0001	-.0012	.0156	-.0102	-.0007
SDev	.0116	.0076	.0002	.0011	.0151	.0222	.0004
%RSD	113.4	1.429	287.5	88.61	96.56	218.4	57.76
#1	-.0015	.5241	.0002	-.0003	.0329	.0154	-.0009
#2	-.0234	.5382	-.0002	-.0010	.0049	-.0209	-.0009
#3	-.0058	.5360	.0002	-.0023	.0091	-.0250	-.0002

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0108	.3333	.0039	.0039	.0483	.9480	-.0000
SDev	.0036	.0045	.0024	.0053	.0017	.0376	.0000
%RSD	32.87	1.363	63.08	137.1	3.531	3.965	853.0
#1	.0136	.3284	.0050	-.0007	.0488	.9852	-.0000
#2	.0068	.3373	.0011	.0026	.0464	.9100	.0000
#3	.0119	.3343	.0056	.0097	.0496	.9486	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0010	.0060	.0002	.0171	.2740	2.442	S3506.
SDev	.0014	.0002	.0011	.0069	.0239	.026	.
%RSD	137.8	3.094	660.4	40.57	8.718	1.058	.0035
#1	.0020	.0062	.0015	.0189	.2974	2.412	S3507.
#2	-.0006	.0059	-.0005	.0094	.2497	2.458	S3506.
#3	.0016	.0059	-.0005	.0230	.2749	2.455	S3506.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0186	.0002	.9636	.0001	.2781
SDev	.0005	.0005	.5013	.0009	.0046
%RSD	2.474	211.1	52.02	825.6	1.636

#1	.0184	.0005	1.515	.0008	.2738
#2	.0184	-.0003	.5362	-.0009	.2829
#3	.0192	.0005	.8393	.0005	.2776

Method: ICAP3 Sample Name: XX,JM3174 CLJCSS03 Operator: SBB
Run Time: 02/18/94 14:59:55
Comment: JM3174M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0123	.6908	-.0003	-.0003	.0110	.0036	-.0002
SDev	.0169	.0043	.0002	.0013	.0061	.0086	.0021
%RSD	137.2	.6238	71.31	374.0	55.82	236.9	893.7
#1	.0029	.6859	-.0001	.0011	.0041	.0133	.0019
#2	-.0304	.6920	-.0004	-.0014	.0131	-.0033	-.0023
#3	-.0094	.6943	-.0004	-.0007	.0157	.0009	-.0002

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0082	.2745	.0052	.0064	.0749	1.601	.0000
SDev	.0013	.0033	.0007	.0006	.0012	.017	.0000
%RSD	15.81	1.205	14.32	10.15	1.577	1.036	156.6
#1	.0085	.2707	.0044	.0071	.0742	1.618	-.0000
#2	.0094	.2763	.0052	.0061	.0763	1.599	.0000
#3	.0068	.2766	.0059	.0060	.0742	1.585	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0031	.0017	.0007	.0188	.0683	.4803	S3499.
SDev	.0003	.0003	.0025	.0054	.0112	.0042	.
%RSD	7.873	14.75	379.4	28.72	16.34	.8824	.0072
#1	.0033	.0018	.0000	.0135	.0811	.4755	S3499.
#2	.0033	.0018	-.0014	.0243	.0605	.4819	S3499.
#3	.0029	.0014	.0034	.0188	.0633	.4835	S3499.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0117	.0005	.4041	-.0011	.2500
SDev	.0005	.0004	.1687	.0017	.0022
%RSD	3.936	75.59	41.74	156.2	.8704
#1	.0120	.0006	.5129	.0008	.2486
#2	.0120	.0008	.2098	-.0016	.2489
#3	.0112	.0001	.4896	-.0023	.2525

Method: ICAP3 Sample Name: XX,JM3175 CLJCSS04 Operator: SBB
Run Time: 02/18/94 15:03:25
Comment: JM3175M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0000	.4952	.0011	.0019	.0023	-.0040	.0030
SDev	.0184	.0019	.0007	.0016	.0109	.0192	.0042
%RSD	1104000.	.3821	68.38	80.18	470.8	484.9	139.2
#1	.0187	.4935	.0016	.0024	.0124	.0169	.0026
#2	-.0006	.4949	.0002	.0002	-.0093	-.0209	-.0009
#3	-.0181	.4973	.0013	.0032	.0039	-.0079	.0075

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0108	.2676	.0085	.0064	.0458	.4128	.0003
SDev	.0013	.0020	.0039	.0133	.0013	.0193	.0000
%RSD	12.06	.7601	46.36	206.5	2.737	4.687	.5404
#1	.0094	.2653	.0114	.0056	.0455	.4226	.0003
#2	.0119	.2686	.0099	.0201	.0472	.4252	.0003
#3	.0111	.2690	.0040	-.0064	.0447	.3905	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0013	.0059	-.0010	.0067	.0846	1.539	S3502.
SDev	.0006	.0006	.0017	.0089	.0084	.009	.
%RSD	50.92	10.91	180.1	131.9	9.984	.5726	.0057
#1	.0020	.0053	-.0005	.0081	.0765	1.530	S3502.
#2	.0011	.0059	-.0029	.0149	.0933	1.540	S3502.
#3	.0007	.0065	.0005	-.0027	.0839	1.548	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0131	.0002	.1399	.0008	.1995
SDev	.0005	.0003	.3922	.0016	.0025
%RSD	3.535	163.9	280.4	197.6	1.257
#1	.0136	-.0001	.4430	.0005	.2007
#2	.0128	.0005	-.3031	-.0006	.1966
#3	.0128	.0002	.2798	.0026	.2012

Method: ICAP3 Sample Name: XX,JM3176 CLJCSS05 Operator: SBB
Run Time: 02/18/94 15:06:58
Comment: JM3176M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0035	.6642	.0004	.0006	.0010	-.0055	-.0019
SDev	.0188	.0068	.0007	.0019	.0092	.0083	.0027
%RSD	533.9	1.029	164.9	322.0	884.1	149.7	142.3
#1	.0082	.6633	.0002	.0014	.0049	.0014	-.0037
#2	.0064	.6578	.0012	.0020	.0076	-.0147	.0012
#3	-.0251	.6714	-.0002	-.0016	-.0094	-.0033	-.0030

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130

Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0085	.4839	.0068	-.0021	.0310	2.233	-.0000
SDev	.0000	.0047	.0041	.0095	.0006	.008	.0000
%RSD	.0107	.9754	60.73	452.0	2.023	.3722	317.9
#1	.0085	.4824	.0020	-.0028	.0304	2.242	.0000
#2	.0085	.4801	.0095	.0077	.0308	2.226	-.0000
#3	.0085	.4891	.0088	-.0112	.0317	2.231	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0020	.0022	.0002	.0117	.0946	2.821	S3501.
SDev	.0000	.0004	.0024	.0135	.0105	.020	.
%RSD	.0000	20.48	1482.	115.8	11.13	.7263	.0034
#1	.0020	.0018	.0024	.0134	.0971	2.819	S3501.
#2	.0020	.0027	.0005	.0243	.1036	2.802	S3501.
#3	.0020	.0020	-.0024	-.0026	.0830	2.842	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0171	.0004	.1865	.0006	.2347
SDev	.0005	.0022	.1760	.0018	.0024
%RSD	2.706	551.5	94.37	310.3	1.001
#1	.0168	.0011	.1632	-.0009	.2363
#2	.0168	.0022	.3730	.0026	.2358
#3	.0176	-.0021	.0233	.0001	.2320

Method: ICAP3 Sample Name: XX,JM3177 CLJCSS06 Operator: SBB
Run Time: 02/18/94 15:10:31
Comment: JM3177M,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0053	.4850	.0008	-.0015	.0169	-.0093	.0014
SDev	.0200	.0010	.0006	.0012	.0120	.0129	.0016
%RSD	379.2	.1990	79.68	78.02	70.96	138.8	115.3
#1	.0170	.4845	.0008	-.0003	.0125	-.0043	.0005
#2	-.0216	.4861	.0014	-.0017	.0305	.0004	.0005
#3	-.0111	.4843	.0001	-.0026	.0077	-.0240	.0033

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0122	1.366	.0138	.0023	.0778	.3140	-.0000
SDev	.0027	.003	.0029	.0067	.0019	.0164	.0000
%RSD	22.43	.2213	21.03	289.6	2.412	5.212	476.9
#1	.0111	1.364	.0150	.0009	.0782	.3040	-.0000
#2	.0102	1.369	.0105	-.0036	.0757	.3052	-.0000
#3	.0153	1.365	.0159	.0095	.0794	.3329	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

Avge	.0006	.0178	.0010	.0324	.0724	2.638	S3503.
SDev	.0006	.0001	.0005	.0185	.0112	.007	.
%RSD	114.6	.6979	49.69	57.22	15.43	.2686	.0122
#1	.0007	.0179	.0005	.0486	.0802	2.639	S3503.
#2	-.0001	.0177	.0010	.0122	.0596	2.644	S3503.
#3	.0011	.0177	.0015	.0364	.0774	2.630	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0123	.0014	.2798	.0003	.2194
SDev	.0005	.0008	.3049	.0014	.0009
%RSD	3.765	55.84	109.0	412.9	.4081
#1	.0120	.0022	.6295	.0019	.2188
#2	.0128	.0006	.1399	.0001	.2204
#3	.0120	.0014	.0699	-.0009	.2191

Method: ICAP3 Sample Name: TCLP BLK Operator: SBB
Run Time: 02/18/94 15:14:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0076	.3337	.0000	-.0012	.0077	-.0166	-.0000
SDev	.0144	.0013	.0003	.0016	.0051	.0043	.0032
%RSD	188.9	.3748	1472.	137.7	66.62	26.03	415900.
#1	-.0199	.3337	-.0002	-.0028	.0064	-.0152	.0019
#2	-.0111	.3350	.0004	.0005	.0033	-.0131	-.0037
#3	.0082	.3325	-.0001	-.0013	.0134	-.0214	.0019

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0057	.1663	.0077	.0051	.0210	.0541	.0000
SDev	.0026	.0011	.0014	.0057	.0016	.0433	.0000
%RSD	45.84	.6913	18.31	113.5	7.782	79.99	1322.
#1	.0085	.1653	.0071	.0116	.0226	.0944	-.0000
#2	.0034	.1676	.0067	.0026	.0194	.0083	.0000
#3	.0051	.1661	.0093	.0009	.0210	.0596	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0004	.0010	-.0005	.0243	.0409	.2613	S3497.
SDev	.0009	.0004	.0015	.0108	.0197	.0042	.
%RSD	208.2	37.64	303.3	44.62	48.25	1.600	.0116
#1	.0011	.0014	-.0019	.0351	.0615	.2661	S3497.
#2	-.0006	.0006	.0010	.0135	.0222	.2584	S3498.
#3	.0007	.0010	-.0005	.0243	.0390	.2592	S3497.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0065	.0004	.3730	-.0001	.1740

SDev	.0002	.0005	.2749	.0012	.0008
%RSD	3.535	130.0	73.69	1042.	.4891
#1	.0064	.0003	.6761	.0012	.1731
#2	.0064	-.0001	.3031	-.0013	.1748
#3	.0068	.0010	.1399	-.0002	.1742

Method: ICAP3 Sample Name: LD,JM3169 X5 Operator: SBB
Run Time: 02/18/94 15:17:43
Comment: JM3169ML,N7M3774,L,A5,50,50,5
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0017	.1905	.0001	.0009	.1000	-.0153	-.0026
SDev	.0083	.0011	.0002	.0032	.0056	.0054	.0027
%RSD	477.7	.5859	141.6	356.1	5.594	35.43	103.1
#1	-.0102	.1898	.0002	-.0013	.1021	-.0209	.0005
#2	.0064	.1900	-.0001	-.0006	.0936	-.0152	-.0037
#3	-.0015	.1918	.0003	.0045	.1042	-.0100	-.0045

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0071	.4064	.0027	.0046	.0362	.2684	.0000
SDev	.0013	.0034	.0017	.0088	.0058	.0103	.0002
%RSD	18.33	.8291	63.68	190.4	16.08	3.836	344.2
#1	.0068	.4071	.0017	.0092	.0323	.2775	.0001
#2	.0085	.4028	.0017	.0103	.0335	.2705	.0001
#3	.0060	.4094	.0047	-.0055	.0429	.2573	-.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0003	.0229	-.0023	.0081	.1479	1.958	240.2
SDev	.0000	.0002	.0011	.0081	.0136	.006	1.5
%RSD	.0000	.9746	49.63	100.2	9.223	.2866	.6251
#1	.0003	.0232	-.0029	.0162	.1588	1.956	238.9
#2	.0003	.0229	-.0010	.0000	.1523	1.953	239.8
#3	.0003	.0227	-.0029	.0080	.1326	1.964	241.8

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0171	.0015	.5984	-.0002	.1470
SDev	.0005	.0010	.6231	.0007	.0132
%RSD	2.706	66.83	104.1	297.2	8.945
#1	.0168	.0017	1.026	.0005	.1622
#2	.0168	.0024	.8859	-.0002	.1391
#3	.0176	.0004	-.1166	-.0009	.1398

Method: ICAP3 Sample Name: AS,JM3169,0770 9:1PS Operator: SBB
Run Time: 02/18/94 15:21:04

Comment: JM3169MP,N7M3774,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	5.023	10.59	.9977	5.070	5.340	.9977	.0972
SDev	.023	.09	.0056	.047	.051	.0207	.0025
%RSD	.4606	.8222	.5564	.9351	.9558	2.074	2.567
#1	5.032	10.57	.9913	5.041	5.326	.9772	.0970
#2	5.040	10.69	1.001	5.124	5.396	1.019	.0998
#3	4.997	10.52	1.001	5.043	5.297	.9974	.0949

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	5.063	6.547	4.957	4.928	.1317	1.023	.9784
SDev	.042	.044	.041	.035	.0024	.014	.0076
%RSD	.8278	.6778	.8220	.7048	1.822	1.346	.7736
#1	5.049	6.543	4.949	4.925	.1294	1.009	.9763
#2	5.110	6.593	5.001	4.964	.1342	1.024	.9868
#3	5.030	6.504	4.921	4.894	.1315	1.036	.9721

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0044	1.092	1.019	.9370	.4665	8.281	S3510.
SDev	.0003	.009	.009	.0129	.0115	.062	.
%RSD	5.587	.8627	.8468	1.377	2.477	.7512	.0059
#1	.0046	1.089	1.014	.9222	.4537	8.253	S3510.
#2	.0041	1.102	1.028	.9423	.4697	8.352	S3509.
#3	.0046	1.084	1.013	.9463	.4762	8.238	S3510.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0590	.9903	2.153	.9902	.4542
SDev	.0006	.0074	.049	.0100	.0065
%RSD	1.034	.7483	2.255	1.015	1.427
#1	.0583	.9893	2.098	.9874	.4472
#2	.0595	.9981	2.191	1.001	.4600
#3	.0591	.9834	2.168	.9818	.4553

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
Run Time: 02/18/94 15:24:28
Comment: IB,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.364	4.788	1.297	.4873	2.433	2.441	.6164
SDev	.029	.016	.005	.0016	.006	.021	.0025
%RSD	1.244	.3275	.3525	.3387	.2513	.8709	.4006
#1	2.334	4.806	1.302	.4891	2.427	2.462	.6166
#2	2.393	4.777	1.298	.4871	2.435	2.443	.6138
#3	2.365	4.782	1.293	.4858	2.439	2.419	.6187

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.6300	1.241	1.296	2.373	2.402	4.850	.1235
SDev	.0020	.005	.005	.023	.007	.020	.0004
%RSD	.3133	.3938	.3626	.9648	.2908	.4224	.3289
#1	.6323	1.246	1.297	2.395	2.410	4.843	.1240
#2	.6288	1.236	1.300	2.349	2.397	4.835	.1235
#3	.6288	1.242	1.291	2.373	2.398	4.874	.1232
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.434	1.291	.1241	2.414	12.30	12.11	12.39
SDev	.007	.004	.0022	.004	.01	.01	.12
%RSD	.3051	.2957	1.772	.1803	.0446	.1153	.9605
#1	2.442	1.294	.1219	2.417	12.30	12.13	12.53
#2	2.429	1.293	.1239	2.409	12.30	12.10	12.32
#3	2.430	1.287	.1263	2.416	12.29	12.10	12.32
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	1.314	1.283	12.26	2.427	1.184		
SDev	.004	.003	.11	.007	.005		
%RSD	.3426	.2506	.8787	.2701	.4045		
#1	1.320	1.286	12.19	2.435	1.190		
#2	1.312	1.283	12.19	2.423	1.183		
#3	1.312	1.279	12.38	2.423	1.181		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	1.310	1.280	11.92	2.410	1.210		
Range	10.50	10.50	10.50	10.50	10.50		

Method: ICAP3 Sample Name: CCB Operator: SBB
Run Time: 02/18/94 15:27:47
Comment: ID,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0023	.0012	.0003	-.0024	.0021	.0026	.0023
SDev	.0238	.0009	.0002	.0037	.0064	.0147	.0049

%RSD	1016.	71.84	52.24	153.1	303.4	568.8	210.6
#1	-.0252	.0018	.0002	-.0023	.0044	-.0095	.0019
#2	.0152	.0016	.0005	.0012	.0070	.0190	.0075
#3	.0170	.0002	.0002	-.0061	-.0051	-.0017	-.0023

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0028	.0005	-.0004	.0051	.0008	.0216	.0001
SDev	.0020	.0009	.0037	.0077	.0013	.0392	.0000
%RSD	69.28	203.4	872.8	151.4	153.0	181.8	1.015
#1	.0017	.0010	-.0046	.0071	.0005	.0135	.0001
#2	.0051	-.0006	.0025	.0115	.0022	.0642	.0001
#3	.0017	.0010	.0008	-.0034	-.0003	-.0130	.0001

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0004	.0004	-.0006	.0158	.0162	.0037	.1691
SDev	.0003	.0003	.0022	.0213	.0114	.0032	.0483
%RSD	57.74	86.59	339.4	134.9	70.50	85.71	28.58
#1	.0003	.0005	.0015	-.0027	.0137	.0037	.1957
#2	.0007	.0005	-.0005	.0391	.0287	.0069	.1983
#3	.0003	.0000	-.0029	.0109	.0062	.0005	.1133

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	.0009	-.0544	.0016	.0051
SDev	.0005	.0016	.2449	.0014	.0011
%RSD	173.2	184.6	450.2	88.99	21.38
#1	.0008	.0005	-.0466	.0012	.0054
#2	.0000	.0026	.1865	.0033	.0059
#3	.0000	-.0005	-.3031	.0005	.0039

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB
Run Time: 02/18/94 15:30:56
Comment: IL,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.2081	.4178	.0111	.0190	.1617	.2140	.0246
SDev	.0123	.0043	.0004	.0019	.0022	.0386	.0042
%RSD	5.901	1.040	4.015	10.13	1.372	18.05	17.12
#1	.2081	.4224	.0115	.0168	.1610	.1943	.0204
#2	.1958	.4174	.0111	.0198	.1600	.1892	.0246
#3	.2204	.4137	.0106	.0204	.1642	Q.2585	Q.0288
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2208	.4021	.0108	.0210	.1600	.2014	.0220
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130

Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.1086	.0436	.0866	.2217	.2262	.4426	.0104
SDev	.0026	.0005	.0044	.0049	.0027	.0082	.0000
%RSD	2.399	1.132	5.074	2.214	1.204	1.861	.0076
#1	.1108	.0437	.0911	.2268	.2292	.4512	.0104
#2	.1057	.0431	.0823	.2214	.2255	.4348	.0104
#3	.1091	.0440	.0864	.2170	.2239	.4417	.0104
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1043	.0412	.0882	.2086	.2101	.4069	.0101
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0001	.0269	.0226	Q.1304	2.086	10.54	10.69
SDev	.0004	.0003	.0010	.0179	.008	.08	.11
%RSD	300.0	1.005	4.465	13.69	.3817	.7862	1.022
#1	.0003	.0272	.0223	.1098	2.095	10.63	10.81
#2	-.0001	.0268	.0218	Q.1407	2.080	10.53	10.66
#3	-.0006	.0266	.0238	Q.1407	2.083	10.46	10.60
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value		.0249	.0203	.1017	2.031	10.29	10.29
Range		25.00	25.00	25.00	25.00	25.00	25.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0016	.0534	10.09	.1085	Q.0832
SDev	.0000	.0010	.49	.0009	.0013
%RSD	.0000	1.918	4.850	.8099	1.520
#1	.0016	.0525	9.605	.1084	Q.0845
#2	.0016	.0533	10.09	.1077	Q.0830
#3	.0016	.0545	10.58	.1095	Q.0820
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Fail
Value		.0526		.1044	.0191
Range		25.00		25.00	25.00

Method: ICAP3 Sample Name: ICSA,0775 Operator: SBB
Run Time: 02/18/94 15:34:15
Comment: IF,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0053	.0022	-.0107	-.0092	.0086	.0054	-.0077
SDev	.0315	.0002	.0006	.0014	.0063	.0158	.0015
%RSD	589.3	8.306	5.526	14.81	73.75	291.3	19.01
#1	.0303	.0023	-.0103	-.0077	.0062	-.0010	-.0072
#2	-.0171	.0020	-.0114	-.0094	.0157	.0234	-.0065
#3	-.0292	.0024	-.0104	-.0104	.0038	-.0061	-.0094

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0023	.0177	-.0108	.0264	181.5	497.2	.0000
SDev	.0010	.0012	.0063	.0083	1.3	4.1	.0000
%RSD	43.34	6.771	58.19	31.58	.7344	.8321	891.2
#1	.0034	.0179	-.0119	.0298	182.0	498.4	-.0000
#2	.0017	.0188	-.0165	.0169	182.6	500.5	-.0000
#3	.0017	.0165	-.0041	.0326	180.0	492.5	.0000
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					177.0	487.0	
Range					20.00	20.00	
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0029	-.0012	.0057	.0635	245.3	188.9	1.278
SDev	.0005	.0000	.0031	.0384	1.8	1.4	.029
%RSD	17.32	.0135	53.79	60.45	.7172	.7398	2.265
#1	-.0023	-.0012	.0077	.0912	246.0	189.4	1.304
#2	-.0031	-.0012	.0073	.0197	246.6	190.0	1.283
#3	-.0031	-.0012	.0022	.0796	243.3	187.3	1.247
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					243.0	184.0	
Range					20.00	20.00	
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0080	-.0047	-.4196	.0001	.9410		
SDev	.0000	.0027	.4280	.0013	.0091		
%RSD	.0000	57.90	102.0	1250.	.9675		
#1	.0080	-.0016	-.7227	.0005	.9457		
#2	.0080	-.0064	-.6062	.0012	.9468		
#3	.0080	-.0062	.0699	-.0014	.9306		
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK		
Value							
Range							

Method: ICAP3 Sample Name: ICSAB,0786 Operator: SBB
Run Time: 02/18/94 15:37:37
Comment: IG,N7M3774
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9518	.4809	.9047	.4651	.9150	.8957	.9414
SDev	.0290	.0025	.0053	.0028	.0086	.0118	.0045
%RSD	3.042	.5112	.5867	.5951	.9385	1.321	.4802

#1	.9220	.4781	.9101	.4624	.9129	.8826	.9363
#2	.9535	.4823	.8995	.4679	.9244	.8989	.9447
#3	.9799	.4823	.9045	.4649	.9077	.9056	.9433
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.9315	.4713	.8736	.4618	.8833	.8850	.9232
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.4875	.9381	.8932	.9129	177.0	491.4	.4707
SDev	.0013	.0042	.0026	.0113	.7	2.5	.0018
%RSD	.2675	.4420	.2857	1.235	.4206	.5160	.3907
#1	.4861	.9333	.8946	.9014	176.1	488.5	.4686
#2	.4886	.9400	.8903	.9135	177.5	492.9	.4720
#3	.4878	.9409	.8947	.9239	177.4	492.8	.4716
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4719	.9233	.8724	.8636	172.1	481.4	.4648
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9320	.4651	.9474	.9902	498.8	229.6	Q2.050
SDev	.0041	.0024	.0025	.0241	2.2	.9	.013
%RSD	.4381	.5216	.2647	2.438	.4406	.3760	.6305
#1	.9273	.4623	.9467	.9671	496.4	228.6	Q2.035
#2	.9346	.4663	.9453	1.015	500.7	230.2	Q2.058
#3	.9342	.4667	.9502	.9883	499.4	229.9	Q2.057
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.9123	.4063	.9210	.8952	490.4	226.7	.9625
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.9747	.4431	.5362	.4566	Q1.718		
SDev	.0038	.0020	.3894	.0027	.008		
%RSD	.3911	.4574	72.62	.6023	.4688		
#1	.9703	.4418	.4663	.4535	Q1.710		
#2	.9771	.4454	Q.9559	.4582	Q1.726		
#3	.9767	.4421	Q.1865	.4582	Q1.719		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail		
Value	.9516	.4323	.5666	.4458	1.083		
Range	20.00	20.00	20.00	20.00	20.00		

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Method: ICAP3 Sample Name: PBL,N7M3776 MET BLK Operator: SBB
Run Time: 02/18/94 15:43:51
Comment: N7M3776M,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0131	-.0013	-.0002	-.0048	-.0122	-.0124	-.0103
SDev	.0169	.0008	.0001	.0016	.0153	.0073	.0085
%RSD	128.8	67.77	67.61	34.25	125.4	59.17	82.14
#1	-.0321	-.0022	-.0004	-.0067	-.0279	-.0059	-.0192
#2	-.0076	-.0007	-.0001	-.0038	-.0116	-.0110	-.0094
#3	.0003	-.0009	-.0002	-.0038	.0028	-.0203	-.0024

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0023	.0066	.0005	-.0021	.0120	.0033	-.0001
SDev	.0043	.0003	.0019	.0067	.0022	.0696	.0002
%RSD	188.8	4.946	430.3	325.1	17.98	2116.	177.2
#1	-.0068	.0070	.0023	-.0097	.0096	-.0771	-.0004
#2	.0017	.0063	.0007	.0010	.0128	.0457	.0000
#3	-.0017	.0065	-.0016	.0026	.0137	.0413	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0019	-.0005	-.0052	-.0093	.0144	.0419	-.0692
SDev	.0034	.0007	.0003	.0367	.0318	.0054	.0566
%RSD	183.2	140.9	5.358	393.1	221.6	13.01	81.79
#1	-.0057	-.0012	-.0053	-.0484	-.0209	.0358	-.1328
#2	.0007	-.0003	-.0053	.0244	.0409	.0462	-.0505
#3	-.0006	.0001	-.0049	-.0039	.0231	.0438	-.0243

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0001	-.0024	-.8937	-.0054	.0080
SDev	.0002	.0025	.5867	.0036	.0020
%RSD	173.2	103.9	65.65	66.95	25.24
#1	.0000	-.0054	-1.515	-.0093	.0057
#2	.0000	-.0013	-.8160	-.0044	.0093
#3	.0004	-.0007	-.3497	-.0023	.0090

Method: ICAP3 Sample Name: LCSL,N7M3776 MET SPK Operator: SBB
Run Time: 02/18/94 15:47:31
Comment: N7M3776MS,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.758	9.785	.9745	4.966	4.783	.9403	.0927
SDev	.048	.055	.0082	.028	.010	.0142	.0068
%RSD	1.006	.5595	.8417	.5547	.2164	1.513	7.301
#1	4.712	9.737	.9726	4.937	4.778	.9404	.0976
#2	4.754	9.774	.9674	4.970	4.776	.9544	.0955
#3	4.807	9.845	.9835	4.992	4.795	.9259	.0850

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130

Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.973	4.644	4.872	4.861	.0116	.0128	.9467
SDev	.024	.016	.008	.012	.0029	.0187	.0039
%RSD	.4745	.3380	.1658	.2514	24.74	145.6	.4078
#1	4.951	4.627	4.863	4.846	.0141	.0309	.9431
#2	4.970	4.649	4.879	4.867	.0121	.0139	.9463
#3	4.998	4.657	4.873	4.868	.0085	-.0063	.9508

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0020	.9716	.9915	.8984	.0271	.0494	-.0105
SDev	.0009	.0046	.0039	.0120	.0132	.0021	.0275
%RSD	42.86	.4759	.3914	1.333	48.44	4.290	262.3
#1	.0029	.9750	.9870	.8999	.0409	.0518	.0212
#2	.0011	.9734	.9937	.8858	.0259	.0478	-.0261
#3	.0020	.9663	.9937	.9096	.0147	.0486	-.0266

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0061	.9703	-.4274	.9649	.0108
SDev	.0002	.0032	.1196	.0011	.0011
%RSD	3.765	.3333	27.99	.1094	10.22
#1	.0060	.9667	-.5595	.9638	.0121
#2	.0060	.9712	-.3963	.9658	.0104
#3	.0064	.9730	-.3264	.9651	.0100

Method: ICAP3 Sample Name: SM,JM3183 MTX SPK Operator: SBB
Run Time: 02/18/94 15:51:16
Comment: JM3183MS,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.831	9.802	.9567	4.886	4.698	.9725	.0920
SDev	.014	.046	.0055	.019	.034	.0071	.0014
%RSD	.2826	.4646	.5714	.3811	.7264	.7311	1.539
#1	4.816	9.771	.9532	4.872	4.662	.9648	.0920
#2	4.832	9.854	.9630	4.907	4.730	.9787	.0934
#3	4.844	9.780	.9539	4.880	4.701	.9741	.0906

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.897	4.787	4.760	4.733	.0246	.8096	.9400
SDev	.022	.011	.017	.025	.0011	.0324	.0041
%RSD	.4507	.2250	.3598	.5320	4.523	3.999	.4362
#1	4.889	4.782	4.767	4.721	.0259	.8401	.9373
#2	4.922	4.800	4.772	4.762	.0238	.8131	.9447
#3	4.880	4.780	4.740	4.716	.0242	.7756	.9380

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

Avge	.0051	.9465	.9798	.9083	.0893	1.976	S3502.
SDev	.0005	.0033	.0038	.0208	.0133	.006	.
%RSD	9.623	.3506	.3840	2.288	14.92	.3075	.0081
#1	.0054	.9428	.9779	.9306	.1045	1.975	S3501.
#2	.0046	.9492	.9841	.8895	.0802	1.983	S3502.
#3	.0054	.9474	.9774	.9048	.0830	1.971	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0155	.9513	-.2098	.9566	.1563
SDev	.0006	.0050	.4442	.0039	.0001
%RSD	3.950	.5300	211.7	.4063	.0514
#1	.0148	.9495	-.4663	.9550	.1562
#2	.0156	.9570	-.4663	.9610	.1564
#3	.0160	.9475	.3031	.9536	.1564

Method: ICAP3 Sample Name: SD,JM3183 MTX REP Operator: SBB
Run Time: 02/18/94 15:54:58
Comment: JM3183MR,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.968	10.04	.9825	5.007	4.801	.9917	.0963
SDev	.030	.08	.0097	.038	.034	.0373	.0044
%RSD	.6039	.8361	.9856	.7645	.7119	3.757	4.575
#1	5.002	10.10	.9745	5.031	4.834	1.007	.0998
#2	4.944	9.944	.9796	4.963	4.765	.9492	.0913
#3	4.959	10.07	.9933	5.027	4.804	1.019	.0977

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	5.007	4.911	4.880	4.833	.0234	.8330	.9625
SDev	.038	.028	.026	.038	.0009	.0136	.0066
%RSD	.7565	.5715	.5292	.7793	4.059	1.630	.6885
#1	5.035	4.935	4.906	4.854	.0223	.8207	.9678
#2	4.964	4.880	4.854	4.789	.0241	.8309	.9551
#3	5.023	4.918	4.880	4.854	.0236	.8476	.9648

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0041	.9675	1.005	.8972	.0693	2.083	S3500.
SDev	.0004	.0112	.005	.0116	.0070	.014	1.
%RSD	10.34	1.154	.4671	1.296	10.14	.6499	.0151
#1	.0037	.9776	1.008	.9076	.0624	2.092	S3500.
#2	.0041	.9555	1.000	.8993	.0690	2.068	S3500.
#3	.0046	.9693	1.008	.8846	.0765	2.091	S3499.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0160	.9751	.1632	.9811	.1606

SDev	.0000	.0088	.5250	.0070	.0026
%RSD	.0000	.8975	321.7	.7178	1.611
#1	.0160	.9823	.6761	.9875	.1636
#2	.0160	.9654	.1865	.9735	.1589
#3	.0160	.9777	-.3730	.9822	.1594

Method: ICAP3 Sample Name: XX,JM3183 CLJCSS12 Operator: SBB
Run Time: 02/18/94 15:58:23
Comment: JM3183M,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0114	.3745	.0014	.0030	.0271	.0021	.0009
SDev	.0059	.0023	.0004	.0015	.0073	.0151	.0022
%RSD	51.22	.6030	29.83	50.11	26.77	727.5	228.3
#1	-.0050	.3758	.0014	.0015	.0193	-.0064	-.0009
#2	-.0129	.3758	.0018	.0045	.0337	-.0069	.0033
#3	-.0164	.3719	.0010	.0029	.0283	.0195	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0091	.1593	.0082	.0098	.0335	.8362	.0002
SDev	.0010	.0013	.0011	.0042	.0013	.0095	.0002
%RSD	10.83	.7929	13.45	43.20	3.941	1.132	87.56
#1	.0085	.1592	.0085	.0142	.0345	.8254	.0003
#2	.0102	.1606	.0090	.0094	.0320	.8432	.0003
#3	.0085	.1581	.0069	.0058	.0341	.8400	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0029	.0031	.0026	.0112	.0917	2.019	S3501.
SDev	.0007	.0006	.0023	.0077	.0052	.016	.
%RSD	25.98	21.03	88.52	68.88	5.620	.7807	.0053
#1	.0024	.0030	.0000	.0175	.0952	2.026	S3501.
#2	.0037	.0038	.0044	.0026	.0858	2.030	S3501.
#3	.0024	.0025	.0034	.0134	.0942	2.001	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0112	.0020	.2409	.0019	.1488
SDev	.0000	.0018	.3718	.0023	.0006
%RSD	.0000	94.31	154.3	123.4	.3898
#1	.0112	.0003	-.0699	-.0006	.1494
#2	.0112	.0039	.6528	.0040	.1486
#3	.0112	.0017	.1399	.0022	.1483

Method: ICAP3 Sample Name: XX,JM3183 DUPLICATE Operator: SBB
Run Time: 02/18/94 16:01:56

Comment: JM3183MM,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0140	.3738	-.0000	-.0010	.0080	-.0266	-.0007
SDev	.0171	.0017	.0002	.0037	.0143	.0034	.0023
%RSD	122.0	.4633	522.3	351.9	179.3	12.79	321.6
#1	-.0313	.3748	-.0003	-.0035	-.0046	-.0271	-.0016
#2	.0029	.3748	.0002	-.0028	.0049	-.0229	-.0023
#3	-.0138	.3718	.0000	.0032	.0236	-.0297	.0019

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0031	.1565	.0060	.0034	.0412	.8141	-.0000
SDev	.0038	.0008	.0012	.0035	.0008	.0191	.0000
%RSD	122.9	.5221	19.35	101.8	2.063	2.342	968.1
#1	.0034	.1559	.0050	.0075	.0419	.8184	.0000
#2	-.0009	.1574	.0073	.0014	.0402	.7932	.0000
#3	.0068	.1562	.0058	.0014	.0415	.8306	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0017	.0042	-.0005	.0045	.0790	2.007	S3502.
SDev	.0005	.0002	.0019	.0148	.0135	.001	.
%RSD	28.87	5.292	406.2	327.0	17.16	.0641	.0025
#1	.0011	.0044	.0015	.0054	.0877	2.008	S3502.
#2	.0020	.0040	-.0024	-.0107	.0633	2.005	S3502.
#3	.0020	.0043	-.0005	.0188	.0858	2.007	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0109	-.0014	-.1399	.0001	.1440
SDev	.0005	.0040	.1529	.0013	.0017
%RSD	4.225	282.8	109.3	1120.	1.166
#1	.0112	-.0026	-.1166	-.0009	.1438
#2	.0104	-.0047	-.3031	-.0002	.1424
#3	.0112	.0030	.0000	.0015	.1458

Method: ICAP3 Sample Name: XX,JM3179 CLJCSS08 Operator: SBB
Run Time: 02/18/94 16:05:19
Comment: JM3179M,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0099	.5715	.0002	-.0007	.0018	-.0152	.0000
SDev	.0117	.0023	.0001	.0012	.0142	.0058	.0008
%RSD	117.6	.3967	35.47	162.6	775.5	38.43	233800.
#1	-.0199	.5692	.0002	.0006	.0045	-.0219	-.0009
#2	.0029	.5737	.0002	-.0013	-.0135	-.0116	.0005
#3	-.0129	.5716	.0003	-.0016	.0146	-.0121	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0085	.3018	.0045	.0037	.0319	1.279	-.0000
SDev	.0026	.0040	.0030	.0058	.0013	.012	.0000
%RSD	30.00	1.320	66.90	159.1	3.916	.9034	247.8
#1	.0085	.2974	.0079	-.0028	.0317	1.269	.0000
#2	.0111	.3029	.0036	.0053	.0333	1.292	-.0000
#3	.0060	.3051	.0021	.0085	.0308	1.275	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	.0017	-.0018	.0090	.0824	1.059	S3503.
SDev	.0005	.0003	.0006	.0209	.0073	.005	.
%RSD	34.64	16.55	31.59	231.9	8.827	.4540	.0098
#1	.0020	.0014	-.0015	.0027	.0802	1.054	S3503.
#2	.0011	.0019	-.0024	-.0080	.0905	1.063	S3503.
#3	.0011	.0018	-.0015	.0324	.0765	1.059	S3503.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0168	.0010	.3730	.0008	.3680
SDev	.0000	.0002	.0841	.0022	.0028
%RSD	.0000	17.03	22.53	268.6	.7583
#1	.0168	.0010	.4663	-.0016	.3653
#2	.0168	.0008	.3031	.0026	.3709
#3	.0168	.0011	.3497	.0015	.3678

Method: ICAP3 Sample Name: XX,JM3180 CLJCSS09 Operator: SBB
Run Time: 02/18/94 16:08:56
Comment: JM3180M,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0140	.4441	.0005	.0011	.1314	-.0019	-.0045
SDev	.0051	.0018	.0005	.0017	.0112	.0128	.0053
%RSD	36.02	.4022	116.1	155.1	8.494	679.6	119.3
#1	-.0111	.4420	.0009	.0023	.1284	.0097	.0005
#2	-.0199	.4454	-.0001	.0018	.1221	.0004	-.0101
#3	-.0111	.4449	.0006	-.0008	.1438	-.0157	-.0037

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0065	.8132	.0050	.0030	.0628	.3976	.0000
SDev	.0051	.0055	.0056	.0012	.0031	.0568	.0000
%RSD	78.63	.6811	111.5	39.78	4.891	14.28	195.9
#1	.0119	.8068	.0108	.0042	.0660	.4619	-.0000
#2	.0017	.8154	.0047	.0029	.0598	.3544	.0000
#3	.0060	.8172	-.0004	.0019	.0627	.3765	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0006	.0121	.0005	.0323	.1136	4.787	S3508.
SDev	.0005	.0004	.0026	.0352	.0225	.019	.
%RSD	86.60	3.066	523.3	109.1	19.79	.4027	.0035
#1	.0011	.0123	.0015	.0727	.1382	4.766	S3507.
#2	.0003	.0123	-.0024	.0080	.0942	4.791	S3508.
#3	.0003	.0117	.0024	.0161	.1083	4.804	S3508.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0185	.0037	.6139	-.0013	.1664
SDev	.0005	.0027	.2216	.0026	.0015
%RSD	2.492	73.87	36.09	204.6	.8858
#1	.0188	.0068	.8393	.0015	.1647
#2	.0188	.0016	.6062	-.0037	.1675
#3	.0180	.0027	.3963	-.0016	.1670

Method: ICAP3 Sample Name: XX,JM3181 CLJCSS10 Operator: SBB
Run Time: 02/18/94 16:12:24
Comment: JM3181M,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0029	.7245	.0019	.0073	.0177	.0004	.0005
SDev	.0105	.0022	.0003	.0029	.0029	.0018	.0031
%RSD	355.9	.3062	18.26	39.51	16.40	508.1	646.5
#1	.0091	.7230	.0022	.0056	.0207	.0014	.0019
#2	-.0076	.7235	.0021	.0107	.0175	-.0017	.0026
#3	-.0103	.7270	.0015	.0057	.0149	.0014	-.0030

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0136	.4445	.0055	.0029	.0520	1.455	.0011
SDev	.0017	.0033	.0049	.0099	.0014	.032	.0000
%RSD	12.50	.7524	88.44	345.6	2.757	2.207	.0876
#1	.0136	.4415	.0105	.0142	.0521	1.449	.0011
#2	.0119	.4438	.0053	-.0016	.0533	1.490	.0011
#3	.0153	.4481	.0008	-.0040	.0505	1.427	.0011

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0021	.0034	.0010	.0174	.1152	1.823	S3503.
SDev	.0005	.0006	.0040	.0230	.0263	.003	.
%RSD	23.09	17.58	413.0	132.4	22.84	.1706	.0095
#1	.0024	.0038	-.0034	.0363	.1176	1.820	S3503.
#2	.0024	.0036	.0044	.0240	.1401	1.824	S3503.
#3	.0016	.0027	.0019	-.0082	.0877	1.826	S3503.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826

Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0226	.0017	1.274	.0021	.3881
SDev	.0005	.0018	.586	.0011	.0007
%RSD	2.038	105.1	46.00	51.04	.1807
#1	.0224	.0009	1.072	.0019	.3873
#2	.0232	.0038	1.935	.0032	.3887
#3	.0224	.0005	.8160	.0012	.3882

Method: ICAP3 Sample Name: XX,JM3182 CLJCSS11 Operator: SBB
Run Time: 02/18/94 16:16:11
Comment: JM3182M,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0100	.6044	.0016	.0020	.0424	-.0124	.0059
SDev	.0266	.0050	.0003	.0026	.0122	.0023	.0011
%RSD	266.9	.8190	20.25	130.1	28.82	18.80	18.36
#1	.0205	.6037	.0019	.0048	.0424	-.0100	.0047
#2	-.0287	.5999	.0013	.0014	.0546	-.0147	.0061
#3	-.0217	.6097	.0016	-.0002	.0301	-.0126	.0068

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0099	.3567	.0078	.0123	.0449	1.482	-.0000
SDev	.0025	.0021	.0025	.0096	.0019	.049	.0000
%RSD	24.75	.5866	32.44	77.77	4.115	3.284	51.33
#1	.0085	.3548	.0054	.0035	.0431	1.434	-.0000
#2	.0085	.3563	.0105	.0109	.0447	1.480	-.0000
#3	.0128	.3589	.0075	.0225	.0468	1.531	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0020	.0043	.0023	.0480	.1554	2.221	S3502.
SDev	.0000	.0001	.0020	.0066	.0084	.013	.
%RSD	.0000	2.862	86.72	13.74	5.399	.6004	.0082
#1	.0020	.0044	.0005	.0525	.1457	2.212	S3502.
#2	.0020	.0042	.0044	.0512	.1607	2.214	S3502.
#3	.0020	.0044	.0020	.0404	.1598	2.236	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0212	.0019	.7538	.0017	.2945
SDev	.0004	.0003	.0971	.0009	.0008
%RSD	1.887	17.53	12.88	50.59	.2851
#1	.0216	.0021	.8626	.0008	.2937
#2	.0212	.0021	.6761	.0019	.2944
#3	.0208	.0015	.7227	.0026	.2954

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
Run Time: 02/18/94 16:19:22
Comment: IB,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.317	4.771	1.271	.4773	2.397	2.373	.6088
SDev	.008	.002	.003	.0009	.016	.003	.0024
%RSD	.3614	.0456	.2495	.1954	.6860	.1214	.3998
#1	2.308	4.773	1.274	.4765	2.378	2.376	.6074
#2	2.325	4.769	1.271	.4783	2.405	2.371	.6074
#3	2.318	4.770	1.268	.4770	2.408	2.373	.6116
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.6220	1.223	1.281	2.339	2.378	4.783	.1223
SDev	.0017	.001	.004	.006	.004	.005	.0002
%RSD	.2742	.1086	.3352	.2551	.1604	.0996	.1283
#1	.6203	1.222	1.285	2.344	2.380	4.778	.1224
#2	.6220	1.223	1.282	2.339	2.373	4.788	.1224
#3	.6237	1.224	1.276	2.332	2.380	4.783	.1221
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.415	1.265	.1200	2.354	12.14	11.95	12.38
SDev	.002	.005	.0010	.022	.01	.00	.12
%RSD	.0738	.4136	.8122	.9380	.1102	.0260	.9521
#1	2.414	1.259	.1210	2.349	12.13	11.95	12.51
#2	2.417	1.267	.1200	2.335	12.16	11.95	12.33
#3	2.413	1.269	.1191	2.378	12.15	11.96	12.30
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	1.308	1.265	11.70	2.405	1.162
SDev	.001	.001	.27	.001	.001
%RSD	.1058	.1038	2.310	.0587	.0969
#1	1.310	1.266	11.56	2.404	1.161
#2	1.308	1.263	12.01	2.406	1.162
#3	1.308	1.265	11.52	2.407	1.163
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	1.310	1.280	11.92	2.410	1.210
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3 Sample Name: CCB Operator: SBB
Run Time: 02/18/94 16:22:36
Comment: ID,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0035	.0013	.0003	-.0025	.0125	-.0035	.0028
SDev	.0073	.0005	.0003	.0014	.0056	.0065	.0020
%RSD	207.9	43.12	103.1	57.28	44.38	188.7	72.30
#1	-.0023	.0019	.0006	-.0034	.0081	-.0043	.0040
#2	.0117	.0008	-.0000	-.0032	.0187	.0034	.0005
#3	.0012	.0011	.0004	-.0008	.0107	-.0095	.0040

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0011	.0015	-.0012	.0063	.0008	.0293	.0000
SDev	.0039	.0006	.0039	.0072	.0021	.0314	.0001
%RSD	346.3	40.18	310.5	113.1	253.2	107.1	172.1
#1	.0034	.0017	.0024	-.0018	.0005	.0554	.0001
#2	-.0034	.0020	-.0008	.0089	-.0011	-.0055	.0000
#3	.0034	.0008	-.0053	.0118	.0030	.0381	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0010	.0005	.0003	.0203	.0206	.0021	.1411
SDev	.0014	.0002	.0027	.0217	.0094	.0025	.0133
%RSD	137.8	32.75	815.3	107.2	45.53	117.1	9.437
#1	.0020	.0006	-.0024	.0379	.0278	.0041	.1563
#2	-.0006	.0005	.0005	-.0040	.0100	-.0007	.1355
#3	.0016	.0003	.0029	.0269	.0240	.0029	.1315

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	.0006	.2798	.0012	.0011
SDev	.0005	.0002	.2627	.0028	.0003
%RSD	173.2	37.48	93.91	239.9	28.87
#1	.0008	.0004	-.0233	.0040	.0015
#2	.0000	.0005	.4430	-.0016	.0009
#3	.0000	.0008	.4196	.0012	.0009

Method: ICAP3 Sample Name: LD,JM3182 X5 Operator: SBB
Run Time: 02/18/94 16:25:50
Comment: JM3182ML,N7M3776,L,A5,50,50,5
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

Avge	-.0111	.1227	.0006	-.0010	.0156	-.0124	.0007
SDev	.0018	.0007	.0001	.0015	.0095	.0047	.0027
%RSD	15.77	.6024	7.197	140.1	61.13	37.81	378.5
#1	-.0094	.1231	.0006	-.0019	.0130	-.0090	.0026
#2	-.0129	.1231	.0007	-.0019	.0077	-.0178	.0019
#3	-.0111	.1218	.0006	.0006	.0262	-.0105	-.0023
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0057	.0850	.0028	.0077	.0162	.3713	-.0000
SDev	.0043	.0006	.0080	.0095	.0021	.0130	.0000
%RSD	75.50	.7085	285.4	123.8	12.92	3.497	1292.
#1	.0051	.0844	.0095	.0035	.0157	.3702	-.0000
#2	.0017	.0856	-.0060	.0010	.0145	.3588	-.0000
#3	.0102	.0849	.0048	.0186	.0185	.3847	.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0019	.0019	.0008	.0144	.1925	.7927	284.2
SDev	.0011	.0005	.0006	.0102	.0173	.0064	3.3
%RSD	58.08	26.14	69.19	70.74	9.005	.8020	1.162
#1	.0020	.0016	.0015	.0027	.2057	.7951	285.5
#2	.0007	.0016	.0005	.0216	.1729	.7975	286.7
#3	.0029	.0025	.0005	.0188	.1991	.7855	280.5
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0256	.0009	.5984	.0001	.1261		
SDev	.0000	.0015	.1654	.0010	.0044		
%RSD	.0000	168.8	27.64	920.6	3.498		
#1	.0256	.0011	.4196	.0012	.1214		
#2	.0256	-.0007	.7460	.0001	.1302		
#3	.0256	.0022	.6295	-.0009	.1266		

Method: ICAP3 Sample Name: AS,JM3182,0770 9:1PS Operator: SBB
Run Time: 02/18/94 16:29:20
Comment: JM3182MP,N7M3776,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.850	10.04	.9686	4.897	4.765	.9717	.0939
SDev	.024	.06	.0063	.029	.017	.0062	.0041
%RSD	.4998	.6313	.6456	.5869	.3576	.6353	4.372
#1	4.853	9.978	.9617	4.864	4.746	.9689	.0955
#2	4.825	10.03	.9699	4.910	4.778	.9787	.0969
#3	4.873	10.10	.9740	4.917	4.771	.9674	.0892
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.924	4.988	4.799	4.744	.0574	1.338	.9476

SDev	.027	.029	.022	.036	.0049	.040	.0052
%RSD	.5547	.5750	.4557	.7665	8.551	3.025	.5432
#1	4.893	4.955	4.774	4.703	.0528	1.304	.9420
#2	4.931	5.007	4.808	4.771	.0625	1.383	.9488
#3	4.946	5.002	4.815	4.760	.0568	1.328	.9521

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0049	.9654	.9859	.9086	.2085	2.286	S3505.
SDev	.0005	.0062	.0036	.0162	.0179	.019	.
%RSD	10.19	.6449	.3646	1.785	8.568	.8182	.0024
#1	.0046	.9588	.9818	.9011	.1916	2.264	S3505.
#2	.0054	.9664	.9880	.9272	.2272	2.298	S3505.
#3	.0046	.9711	.9880	.8975	.2066	2.295	S3505.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0386	.9574	1.609	.9630	.3226
SDev	.0005	.0034	.727	.0052	.0097
%RSD	1.195	.3514	45.21	.5432	3.019
#1	.0392	.9536	2.378	.9578	.3115
#2	.0384	.9599	1.515	.9627	.3299
#3	.0384	.9588	.9325	.9683	.3263

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
Run Time: 02/18/94 16:32:33
Comment: IB,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.331	4.759	1.272	.4751	2.390	2.368	.6062
SDev	.009	.011	.003	.0008	.011	.009	.0081
%RSD	.3862	.2380	.2692	.1731	.4610	.3837	1.344
#1	2.321	4.768	1.268	.4759	2.382	2.378	.5969
#2	2.339	4.746	1.273	.4743	2.403	2.360	.6116
#3	2.334	4.763	1.275	.4752	2.386	2.368	.6102
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.6220	1.219	1.272	2.323	2.369	4.766	.1217
SDev	.0015	.002	.012	.008	.006	.039	.0001
%RSD	.2377	.1386	.9498	.3644	.2595	.8266	.1086
#1	.6212	1.217	1.263	2.322	2.363	4.732	.1217
#2	.6212	1.218	1.286	2.332	2.369	4.758	.1216
#3	.6237	1.220	1.269	2.315	2.375	4.809	.1219

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.406	1.265	.1223	2.366	12.09	11.91	12.25
SDev	.003	.003	.0015	.007	.07	.04	.06
%RSD	.1262	.2597	1.213	.3161	.5679	.3036	.5258
#1	2.406	1.267	.1210	2.367	12.01	11.87	12.33
#2	2.403	1.261	.1220	2.358	12.11	11.91	12.22
#3	2.409	1.267	.1239	2.373	12.14	11.94	12.21
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	1.305	1.258	11.92	2.394	1.158
SDev	.002	.004	.33	.005	.005
%RSD	.1620	.3342	2.809	.2127	.4163
#1	1.306	1.254	12.17	2.389	1.153
#2	1.303	1.258	12.05	2.393	1.157
#3	1.307	1.262	11.54	2.399	1.163
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.310	1.280	11.92	2.410	1.210
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3 Sample Name: CCB Operator: SBB
Run Time: 02/18/94 16:35:57
Comment: ID,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0091	.0012	.0002	-.0016	-.0032	-.0060	.0033
SDev	.0132	.0005	.0003	.0014	.0137	.0127	.0028
%RSD	145.7	41.19	111.9	85.83	429.4	210.7	85.78
#1	-.0243	.0017	.0006	-.0004	.0033	-.0048	.0061
#2	-.0023	.0008	.0001	-.0013	-.0189	-.0193	.0005
#3	-.0006	.0010	.0001	-.0031	.0060	.0060	.0033
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0026	.0002	.0036	.0141	.0012	.0144	.0002
SDev	.0031	.0006	.0019	.0100	.0025	.0217	.0001
%RSD	120.2	324.8	52.25	70.42	200.9	150.6	86.56
#1	.0060	-.0001	.0057	.0219	.0038	.0382	.0003
#2	.0000	-.0003	.0020	.0029	-.0011	-.0041	.0000
#3	.0017	.0009	.0032	.0177	.0010	.0091	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0003	.0002	-.0011	.0216	.0190	.0019	.1211
SDev	.0000	.0003	.0024	.0230	.0136	.0032	.0389
%RSD	.0000	183.2	216.5	106.5	71.66	173.2	32.07
#1	.0003	.0005	-.0015	.0459	.0334	.0053	.1616
#2	.0003	.0001	-.0034	.0001	.0062	-.0011	.0841
#3	.0003	-.0001	.0015	.0189	.0175	.0013	.1178

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	.0008	.5828	.0009	-.0000
SDev	.0005	.0010	.0233	.0011	.0011
%RSD	173.2	125.7	4.000	114.3	2343.
#1	.0000	.0017	.5828	.0019	.0012
#2	.0000	-.0003	.6062	-.0002	-.0006
#3	.0008	.0011	.5595	.0012	-.0007

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB
Run Time: 02/18/94 16:39:36
Comment: IL,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.2143	.4019	.0107	.0215	.1670	.2114	.0251
SDev	.0084	.0047	.0002	.0003	.0036	.0210	.0022
%RSD	3.904	1.176	1.906	1.445	2.124	9.914	8.561
#1	.2239	.4060	.0109	.0216	.1679	.2321	.0246
#2	.2099	.3967	.0105	.0211	.1631	.1902	.0274
#3	.2090	.4028	.0108	.0217	.1701	.2119	.0232
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2208	.4021	.0108	.0210	.1600	.2014	.0220
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.1089	.0425	.0845	.2120	.2195	.4542	.0101
SDev	.0034	.0004	.0038	.0093	.0017	.0274	.0003
%RSD	3.165	.9843	4.476	4.371	.7757	6.038	3.360
#1	.1125	.0430	.0889	.2205	.2214	.4637	.0102
#2	.1083	.0422	.0825	.2134	.2190	.4757	.0098
#3	.1057	.0423	.0822	.2021	.2181	.4233	.0104
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1043	.0412	.0882	.2086	.2101	.4069	.0101
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

Avge	.0001	.0253	.0225	Q.1384	2.030	10.13	10.33
SDev	.0011	.0014	.0028	.0163	.022	.09	.11
%RSD	755.0	5.378	12.31	11.77	1.088	.8840	1.041
#1	.0003	.0258	.0247	Q.1568	2.051	10.21	10.43
#2	.0011	.0237	.0233	Q.1325	2.032	10.03	10.22
#3	-.0010	.0263	.0194	.1258	2.007	10.14	10.35
Errors	NOCHECK	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value		.0249	.0203	.1017	2.031	10.29	10.29
Range		25.00	25.00	25.00	25.00	25.00	25.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0016	.0536	10.41	.1048	Q.0815
SDev	.0000	.0011	.50	.0011	.0020
%RSD	.0000	2.100	4.824	1.017	2.472
#1	.0016	.0547	10.98	.1060	Q.0828
#2	.0016	.0537	10.23	.1046	Q.0792
#3	.0016	.0525	10.02	.1039	Q.0826
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Fail
Value		.0526		.1044	.0191
Range		25.00		25.00	25.00

Method: ICAP3 Sample Name: ICSA,0775 Operator: SBB
Run Time: 02/18/94 16:43:12
Comment: IF,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0095	.0018	-.0102	-.0090	.0067	-.0359	-.0110
SDev	.0094	.0005	.0010	.0005	.0207	.0224	.0011
%RSD	99.78	27.17	9.793	5.858	309.5	62.40	9.751
#1	-.0036	.0013	-.0100	-.0089	-.0163	-.0130	-.0122
#2	-.0044	.0018	-.0093	-.0085	.0240	-.0370	-.0108
#3	-.0204	.0023	-.0112	-.0095	.0124	-.0577	-.0101
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0023	.0157	-.0041	.0186	176.7	484.1	-.0002
SDev	.0036	.0013	.0049	.0149	1.4	4.4	.0001
%RSD	156.2	8.085	120.3	79.87	.7756	.9105	43.66
#1	-.0017	.0149	-.0070	.0047	176.7	485.3	-.0003
#2	.0051	.0171	.0016	.0169	175.3	479.2	-.0001
#3	.0034	.0150	-.0070	.0342	178.0	487.8	-.0001
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK

Value					177.0	487.0	
Range					20.00	20.00	

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0033	-.0014	.0009	.0524	237.5	183.2	.4048
SDev	.0012	.0002	.0017	.0056	1.9	1.4	.0469
%RSD	37.65	15.61	187.8	10.57	.8142	.7771	11.60
#1	-.0040	-.0016	-.0006	.0587	236.8	183.1	.3586
#2	-.0019	-.0015	.0027	.0482	236.0	181.9	.4524
#3	-.0040	-.0012	.0005	.0504	239.7	184.7	.4033
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					243.0	184.0	
Range					20.00	20.00	

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0072	-.0047	-.4507	-.0014	.4357
SDev	.0004	.0016	.0485	.0005	.0032
%RSD	5.556	33.30	10.77	34.08	.7450
#1	.0072	-.0064	-.3963	-.0014	.4347
#2	.0076	-.0034	-.4663	-.0009	.4330
#3	.0068	-.0042	-.4896	-.0019	.4393
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value					
Range					

Method: ICAP3 Sample Name: ICSAB,0786 Operator: SBB
Run Time: 02/18/94 16:46:36
Comment: IG,N7M3776
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9280	.4674	.8766	.4454	.8635	.8687	.9168
SDev	.0299	.0033	.0052	.0016	.0192	.0206	.0050
%RSD	3.217	.7120	.5939	.3683	2.228	2.372	.5447
#1	.8970	.4647	.8732	.4435	.8539	.8479	.9123
#2	.9566	.4711	.8826	.4467	.8510	.8891	.9222
#3	.9303	.4664	.8740	.4459	.8856	.8692	.9158
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.9315	.4713	.8736	.4618	.8833	.8850	.9232
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.4662	.9064	.8660	.8513	171.4	475.7	.4558
SDev	.0010	.0063	.0080	.0190	1.0	3.5	.0030
%RSD	.2116	.6997	.9275	2.237	.5617	.7399	.6658

#1	.4656	.9031	.8594	.8390	170.8	473.4	.4541
#2	.4673	.9137	.8750	.8732	172.5	479.7	.4593
#3	.4656	.9023	.8636	.8416	170.9	473.9	.4541
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4719	.9233	.8724	.8636	172.1	481.4	.4648
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9029	.4512	.9090	.9125	480.7	222.0	Q1.986
SDev	.0071	.0019	.0042	.0050	2.7	1.3	.016
%RSD	.7832	.4204	.4582	.5528	.5642	.5767	.7851
#1	.8982	.4503	.9063	.9163	478.7	221.1	Q1.975
#2	.9110	.4534	.9138	.9145	483.8	223.5	Q1.979
#3	.8995	.4499	.9068	.9068	479.7	221.5	Q2.004
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.9123	.4063	.9210	.8952	490.4	226.7	.9625
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.9478	.4277	.5440	.4431	Q1.656
SDev	.0067	.0014	.3182	.0036	.006
%RSD	.7060	.3362	58.50	.8012	.3473
#1	.9439	.4264	Q.8859	.4407	Q1.652
#2	.9555	.4292	.4896	.4472	Q1.662
#3	.9439	.4273	Q.2565	.4414	Q1.652
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.9516	.4323	.5666	.4458	1.083
Range	20.00	20.00	20.00	20.00	20.00

Method: ICAP3 Sample Name: PBL,N7M3793 MET BLK Operator: SBB
Run Time: 02/18/94 17:04:41
Comment: N7M3793M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0079	.0006	.0001	-.0018	-.0024	-.0003	.0021
SDev	.0094	.0006	.0003	.0012	.0149	.0103	.0015
%RSD	118.8	93.93	230.9	63.01	628.0	3024.	69.43
#1	-.0058	.0008	.0003	-.0022	-.0041	-.0121	.0026
#2	.0003	.0011	.0003	-.0005	.0133	.0040	.0033
#3	-.0181	-.0000	-.0002	-.0028	-.0163	.0071	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0037	.0049	-.0012	.0135	.0265	.0659	.0000
SDev	.0034	.0006	.0007	.0007	.0024	.0226	.0000
%RSD	93.25	13.05	58.25	5.272	9.073	34.31	237.7

#1	.0017	.0042	-.0018	.0127	.0292	.0501	.0000
#2	.0077	.0053	-.0012	.0141	.0255	.0917	-.0000
#3	.0017	.0052	-.0005	.0138	.0247	.0557	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	.0001	.0007	.0364	.0222	.0392	.0717
SDev	.0005	.0003	.0017	.0199	.0129	.0026	.0266
%RSD	34.64	264.7	260.6	54.69	58.09	6.560	37.07
#1	.0011	-.0002	-.0010	.0229	.0250	.0374	.0637
#2	.0020	.0002	.0024	.0593	.0334	.0422	.1014
#3	.0011	.0003	.0005	.0270	.0081	.0382	.0500

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0015	.0002	.0933	-.0002	.0524
SDev	.0002	.0013	.3894	.0007	.0009
%RSD	15.75	575.8	417.6	295.9	1.809
#1	.0016	-.0004	.5129	-.0009	.0514
#2	.0016	.0018	.0233	.0005	.0527
#3	.0012	-.0006	-.2565	-.0002	.0532

Method: ICAP3 Sample Name: LCSL,N7M3793 MET SPK Operator: SBB
Run Time: 02/18/94 17:08:29
Comment: N7M3793MS,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.555	9.454	.9343	4.730	4.604	.9046	.0931
SDev	.015	.058	.0059	.036	.023	.0284	.0032
%RSD	.3367	.6090	.6256	.7605	.4931	3.139	3.406
#1	4.553	9.504	.9410	4.749	4.597	.8872	.0898
#2	4.571	9.467	.9321	4.751	4.630	.9374	.0961
#3	4.540	9.391	.9299	4.688	4.586	.8893	.0933

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.787	4.474	4.690	4.648	.0086	.0060	.9102
SDev	.024	.021	.023	.034	.0008	.0101	.0055
%RSD	.4948	.4623	.4866	.7221	9.122	170.4	.6034
#1	4.803	4.487	4.701	4.667	.0094	-.0055	.9136
#2	4.799	4.486	4.706	4.668	.0085	.0095	.9132
#3	4.760	4.450	4.664	4.610	.0078	.0138	.9039

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0023	.9600	.9493	.8561	.0234	.0529	.0909
SDev	.0005	.0045	.0039	.0256	.0103	.0030	.0107
%RSD	21.65	.4680	.4127	2.991	44.06	5.736	11.74

#1	.0020	.9631	.9475	.8265	.0165	.0494	.0797
#2	.0020	.9620	.9538	.8723	.0184	.0550	.1009
#3	.0029	.9548	.9466	.8694	.0353	.0542	.0921

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0067	.9337	.0078	.9320	.0525
SDev	.0002	.0034	.5399	.0038	.0007
%RSD	3.464	.3657	6948.	.4110	1.405
#1	.0064	.9341	-.4430	.9338	.0527
#2	.0068	.9368	.6062	.9345	.0530
#3	.0068	.9300	-.1399	.9276	.0516

Method: ICAP3 Sample Name: SM,JM3193 MTX SPK Operator: SBB
Run Time: 02/18/94 17:12:09
Comment: JM3193MS,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.799	9.887	.9525	4.796	4.687	.9579	.0952
SDev	.034	.040	.0057	.015	.021	.0186	.0063
%RSD	.7138	.4033	.5986	.3131	.4579	1.945	6.647
#1	4.830	9.933	.9507	4.813	4.711	.9793	.0892
#2	4.806	9.865	.9479	4.785	4.682	.9451	.0948
#3	4.762	9.863	.9588	4.790	4.669	.9493	.1018

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.876	4.887	4.739	4.684	.0261	.3895	.9347
SDev	.017	.019	.005	.005	.0033	.0289	.0040
%RSD	.3536	.3844	.1043	.1088	12.50	7.431	.4296
#1	4.896	4.908	4.742	4.678	.0260	.3817	.9393
#2	4.863	4.876	4.734	4.685	.0229	.3652	.9326
#3	4.869	4.876	4.743	4.688	.0294	.4215	.9322

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0041	.9676	.9727	.9141	.3071	5.337	S3501.
SDev	.0011	.0045	.0044	.0243	.0272	.019	.
%RSD	27.37	.4695	.4551	2.654	8.848	.3641	.0134
#1	.0037	.9725	.9775	.9155	.3058	5.359	S3501.
#2	.0033	.9636	.9688	.8891	.2805	5.324	S3502.
#3	.0054	.9665	.9717	.9376	.3348	5.328	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0368	.9458	.4974	.9533	.2309
SDev	.0000	.0032	.0883	.0027	.0020
%RSD	.0000	.3342	17.75	.2855	.8726
#1	.0368	.9493	.5362	.9551	.2333

#2	.0368	.9433	.5595	.9502	.2299
#3	.0368	.9446	.3963	.9547	.2296

Method: ICAP3 Sample Name: SD,JM3193 MTX REP Operator: SBB
Run Time: 02/18/94 17:15:39
Comment: JM3193MR,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.799	9.837	.9528	4.765	4.653	.9486	.0940
SDev	.039	.131	.0045	.048	.028	.0034	.0067
%RSD	.8105	1.331	.4719	.9991	.6029	.3627	7.114
#1	4.757	9.730	.9480	4.723	4.621	.9477	.0933
#2	4.834	9.983	.9569	4.817	4.673	.9524	.0878
#3	4.805	9.798	.9534	4.754	4.665	.9456	.1011

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.850	4.835	4.713	4.652	.0326	.3801	.9297
SDev	.057	.048	.039	.056	.0034	.0385	.0100
%RSD	1.172	1.001	.8261	1.212	10.45	10.12	1.076
#1	4.800	4.790	4.682	4.597	.0319	.3694	.9214
#2	4.912	4.887	4.757	4.710	.0296	.3481	.9408
#3	4.838	4.829	4.701	4.649	.0363	.4228	.9269

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0043	.9694	.9676	.9052	.2962	5.239	S3502.
SDev	.0010	.0125	.0099	.0127	.0274	.048	.
%RSD	23.09	1.291	1.022	1.407	9.251	.9108	.0050
#1	.0037	.9585	.9592	.9010	.2890	5.194	S3502.
#2	.0037	.9830	.9785	.9195	.2731	5.289	S3502.
#3	.0054	.9666	.9650	.8951	.3264	5.233	S3502.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0368	.9401	.3886	.9477	.2138
SDev	.0000	.0055	.3492	.0083	.0012
%RSD	.0000	.5810	89.87	.8772	.5541
#1	.0368	.9345	.4896	.9384	.2126
#2	.0368	.9454	.0000	.9544	.2150
#3	.0368	.9406	.6761	.9502	.2138

Method: ICAP3 Sample Name: XX,JM3193 CLJCSS22 Operator: SBB
Run Time: 02/18/94 17:19:28
Comment: JM3193M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l

Avge	-.0085	.5391	.0008	-.0017	-.0023	-.0012	.0037
SDev	.0133	.0046	.0003	.0018	.0090	.0120	.0055
%RSD	156.6	.8619	35.65	105.9	391.7	999.6	145.6
#1	-.0234	.5423	.0006	-.0035	-.0078	.0097	-.0023
#2	.0020	.5338	.0006	.0000	.0081	.0009	.0054
#3	-.0041	.5412	.0011	-.0016	-.0073	-.0141	.0082
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0074	.2354	.0051	.0100	.0229	.4465	.0002
SDev	.0039	.0023	.0032	.0060	.0021	.0320	.0002
%RSD	53.28	.9856	62.88	60.56	8.985	7.170	88.81
#1	.0051	.2380	.0041	.0142	.0226	.4252	.0003
#2	.0119	.2345	.0088	.0031	.0251	.4833	.0003
#3	.0051	.2337	.0025	.0127	.0210	.4310	-.0000
Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0024	.0024	-.0016	.0154	.3080	5.469	S3501.
SDev	.0013	.0005	.0012	.0326	.0136	.030	.
%RSD	52.94	20.83	75.79	212.3	4.408	.5538	.0076
#1	.0024	.0018	-.0014	-.0215	.2946	5.495	S3501.
#2	.0037	.0028	-.0005	.0405	.3217	5.436	S3500.
#3	.0011	.0025	-.0029	.0271	.3077	5.476	S3501.
Elem	Sr4215	Co2286	K_7664	V_2924	B_1826		
Units	mg/l	mg/l	mg/l	mg/l	ppm		
Avge	.0325	.0003	.5207	.0022	.1957		
SDev	.0005	.0020	.3798	.0022	.0020		
%RSD	1.420	565.3	72.94	98.73	1.027		
#1	.0328	-.0002	.2565	.0005	.1979		
#2	.0328	.0025	.9559	.0015	.1940		
#3	.0320	-.0013	.3497	.0047	.1951		

Method: ICAP3 Sample Name: XX,JM3193 DUPLICATE Operator: SBB
Run Time: 02/18/94 17:23:01
Comment: JM3193MM,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0029	.5263	.0006	-.0015	.0157	-.0029	.0035
SDev	.0081	.0021	.0005	.0014	.0064	.0165	.0033
%RSD	277.7	.3971	83.13	94.96	40.72	563.1	94.65
#1	.0064	.5282	.0007	-.0014	.0135	-.0059	-.0002
#2	-.0076	.5265	.0009	-.0029	.0230	-.0178	.0047
#3	-.0076	.5241	.0000	-.0001	.0108	.0148	.0061
Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0094	.2338	.0033	.0066	.0226	.4366	-.0000

SDev	.0039	.0040	.0007	.0098	.0029	.0287	.0000
%RSD	41.66	1.710	20.55	148.8	13.03	6.577	197.1
#1	.0060	.2353	.0041	.0053	.0194	.4138	.0000
#2	.0085	.2368	.0030	-.0025	.0235	.4272	-.0000
#3	.0136	.2293	.0028	.0169	.0251	.4689	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0027	.0024	-.0016	.0221	.3211	5.329	S3501.
SDev	.0015	.0004	.0012	.0263	.0179	.025	.
%RSD	55.45	17.84	75.57	119.3	5.565	.4748	.0044
#1	.0011	.0020	-.0015	.0000	.3077	5.351	S3501.
#2	.0029	.0024	-.0029	.0149	.3143	5.335	S3501.
#3	.0041	.0029	-.0005	.0512	.3414	5.301	S3501.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0333	.0016	.4740	.0012	.2008
SDev	.0005	.0012	.3798	.0024	.0025
%RSD	1.386	73.16	80.11	208.1	1.259
#1	.0336	.0007	.3031	-.0016	.2018
#2	.0328	.0012	.2098	.0026	.2026
#3	.0336	.0030	.9092	.0026	.1979

Method: ICAP3 Sample Name: XX,JM3184 CLJCSS13 Operator: SBB
Run Time: 02/18/94 17:26:38
Comment: JM3184M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0006	.3214	.0009	-.0010	.0069	-.0062	-.0014
SDev	.0113	.0029	.0001	.0011	.0011	.0199	.0051
%RSD	1910.	.9046	16.56	107.9	16.04	320.6	361.5
#1	.0134	.3202	.0011	.0002	.0079	-.0281	.0012
#2	-.0076	.3247	.0008	-.0019	.0073	-.0012	.0019
#3	-.0041	.3193	.0009	-.0013	.0057	.0107	-.0073

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0051	.1254	.0010	.0041	.0396	.6962	.0000
SDev	.0017	.0018	.0025	.0073	.0019	.0169	.0000
%RSD	33.32	1.446	266.4	178.6	4.887	2.422	369.3
#1	.0051	.1248	.0038	-.0041	.0381	.6771	-.0000
#2	.0034	.1274	.0000	.0067	.0418	.7087	-.0000
#3	.0068	.1239	-.0010	.0097	.0389	.7030	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0046	.0119	-.0005	.0198	.2316	2.839	S3500.
SDev	.0004	.0000	.0035	.0112	.0085	.020	.

%RSD	9.375	.0027	730.1	56.74	3.669	.7063	.0116
#1	.0041	.0119	.0034	.0161	.2328	2.826	S3500.
#2	.0050	.0119	-.0015	.0108	.2225	2.862	S3499.
#3	.0046	.0119	-.0034	.0324	.2394	2.828	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0152	.0011	.2176	-.0007	.1174
SDev	.0007	.0008	.2896	.0026	.0028
%RSD	4.558	81.08	133.1	375.3	2.409
#1	.0148	.0018	.3963	.0012	.1168
#2	.0160	.0001	-.1166	.0005	.1204
#3	.0148	.0012	.3730	-.0037	.1149

Method: ICAP3 Sample Name: XX,JM3185 CLJCSS14 Operator: SBB
Run Time: 02/18/94 17:30:18
Comment: JM3185M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0082	.4152	.0005	-.0019	-.0023	-.0219	-.0047
SDev	.0130	.0051	.0007	.0026	.0243	.0090	.0077
%RSD	158.3	1.237	136.2	135.4	1075.	41.20	165.3
#1	-.0181	.4175	.0011	.0005	.0163	-.0115	-.0051
#2	-.0129	.4188	.0006	-.0016	.0067	-.0281	.0033
#3	.0065	.4093	-.0002	-.0047	-.0298	-.0260	-.0122

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0045	.1936	.0040	.0011	.0337	1.135	.0000
SDev	.0088	.0024	.0040	.0095	.0048	.075	.0000
%RSD	192.4	1.226	99.90	894.2	14.32	6.611	556.6
#1	.0068	.1946	.0060	.0070	.0349	1.147	-.0000
#2	.0119	.1953	.0066	.0061	.0377	1.204	-.0000
#3	-.0051	.1909	-.0006	-.0099	.0283	1.055	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0020	.0070	-.0019	.0023	.1161	1.605	S3500.
SDev	.0019	.0009	.0039	.0603	.0334	.028	.
%RSD	93.40	13.20	199.0	2624.	28.74	1.731	.0030
#1	.0029	.0072	.0024	.0350	.1195	1.612	S3500.
#2	.0033	.0078	-.0034	.0392	.1476	1.628	S3500.
#3	-.0001	.0060	-.0048	-.0673	.0811	1.574	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0125	-.0005	-.0389	-.0008	.1757
SDev	.0005	.0030	.4688	.0042	.0035
%RSD	3.685	583.4	1206.	509.4	1.983

#1	.0128	.0013	.3497	.0005	.1756
#2	.0128	.0011	.0933	.0026	.1792
#3	.0120	-.0039	-.5595	-.0055	.1723

Method: ICAP3 Sample Name: XX,JM3186 CLJCSS15 Operator: SBB
Run Time: 02/18/94 17:33:50
Comment: JM3186M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0134	.4613	.0002	-.0010	.0128	-.0091	-.0021
SDev	.0243	.0037	.0004	.0020	.0065	.0318	.0077
%RSD	181.0	.8010	259.7	195.7	50.60	348.2	365.8
#1	.0135	.4571	.0004	.0012	.0197	.0060	.0005
#2	-.0339	.4626	.0004	-.0023	.0069	.0122	.0040
#3	-.0199	.4641	-.0003	-.0019	.0118	-.0457	-.0108

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0051	.2008	.0048	.0051	.0135	.9720	.0000
SDev	.0090	.0019	.0037	.0150	.0052	.0825	.0000
%RSD	176.4	.9525	76.44	295.2	38.64	8.487	4041.
#1	.0085	.1990	.0052	.0151	.0161	.9828	-.0000
#2	.0119	.2028	.0083	.0122	.0169	1.049	-.0000
#3	-.0051	.2006	.0010	-.0121	.0075	.8846	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	.0031	-.0024	.0149	.0883	1.156	S3500.
SDev	.0018	.0008	.0000	.0425	.0481	.009	1.
%RSD	124.9	25.61	.2020	285.5	54.52	.7932	.0159
#1	.0020	.0031	-.0024	.0270	.1083	1.149	S3500.
#2	.0029	.0040	-.0024	.0500	.1233	1.166	S3499.
#3	-.0006	.0024	-.0024	-.0323	.0334	1.153	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0120	-.0002	.4585	-.0002	.1730
SDev	.0000	.0020	.1499	.0053	.0011
%RSD	.0000	827.2	32.69	2267.	.6392
#1	.0120	.0013	.6295	.0015	.1717
#2	.0120	.0005	.3963	.0040	.1734
#3	.0120	-.0024	.3497	-.0062	.1738

Method: ICAP3 Sample Name: XX,JM3187 CLJCSS16 Operator: SBB
Run Time: 02/18/94 17:37:21
Comment: JM3187M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0026	.4109	-.0000	-.0019	.0006	-.0010	.0005
SDev	.0102	.0032	.0007	.0017	.0083	.0191	.0074
%RSD	385.7	.7823	3619.	89.83	1330.	1855.	1569.
#1	-.0067	.4141	-.0004	-.0016	.0100	.0210	.0012
#2	.0012	.4077	.0008	-.0038	-.0022	-.0121	.0075
#3	.0135	.4109	-.0005	-.0004	-.0059	-.0121	-.0073

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0057	.2234	.0022	.0013	.0251	1.095	-.0000
SDev	.0036	.0039	.0066	.0070	.0037	.054	.0000
%RSD	62.47	1.743	293.5	532.7	14.94	4.946	240.5
#1	.0068	.2239	.0095	.0046	.0259	1.119	-.0000
#2	.0085	.2192	.0004	.0061	.0284	1.132	-.0000
#3	.0017	.2270	-.0032	-.0067	.0210	1.032	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0017	.0007	-.0003	.0162	.0506	.5634	S3500.
SDev	.0017	.0007	.0007	.0190	.0216	.0041	.
%RSD	101.0	96.47	232.6	116.8	42.73	.7296	.0054
#1	.0020	.0014	-.0005	.0243	.0596	.5668	S3500.
#2	.0033	.0005	-.0010	.0298	.0662	.5644	S3500.
#3	-.0001	.0001	.0005	-.0054	.0259	.5588	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0089	-.0001	.3652	.0017	.2094
SDev	.0006	.0018	.1102	.0042	.0031
%RSD	6.840	1366.	30.16	240.6	1.467
#1	.0096	.0015	.3264	.0015	.2120
#2	.0088	.0000	.4896	.0061	.2101
#3	.0084	-.0019	.2798	-.0023	.2060

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
Run Time: 02/18/94 17:40:30
Comment: IB,N7M3793
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.268	4.653	1.244	.4586	2.319	2.308	.6017
SDev	.013	.034	.004	.0025	.005	.017	.0134
%RSD	.5637	.7389	.3297	.5497	.1943	.7293	2.233
#1	2.258	4.634	1.247	.4565	2.317	2.320	.5932
#2	2.283	4.631	1.239	.4580	2.324	2.314	.5946
#3	2.264	4.692	1.246	.4614	2.316	2.288	.6172
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.6135	1.201	1.249	2.257	2.320	4.688	.1189
SDev	.0045	.002	.008	.030	.011	.055	.0006
%RSD	.7368	.1440	.6453	1.325	.4793	1.174	.4822
#1	.6100	1.200	1.245	2.244	2.314	4.638	.1185
#2	.6117	1.203	1.244	2.237	2.314	4.679	.1187
#3	.6186	1.200	1.258	2.292	2.333	4.747	.1196
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.355	1.264	.1162	2.301	11.87	11.66	12.25
SDev	.015	.025	.0010	.025	.06	.06	.13
%RSD	.6508	1.968	.8383	1.067	.5207	.4849	1.095
#1	2.347	1.249	.1172	2.297	11.82	11.62	12.39
#2	2.346	1.251	.1152	2.278	11.85	11.63	12.12
#3	2.373	1.293	.1162	2.327	11.94	11.72	12.25
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	1.276	1.233	11.65	2.347	1.128
SDev	.009	.003	.38	.016	.002
%RSD	.7080	.2653	3.235	.6618	.2104
#1	1.272	1.231	12.05	2.338	1.126
#2	1.270	1.232	11.59	2.338	1.128
#3	1.286	1.237	11.31	2.365	1.131
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.310	1.280	11.92	2.410	1.210
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3 Sample Name: CCB Operator: SBB
Run Time: 02/18/94 17:43:52
Comment: ID,N7M3793
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0015	.0005	.0000	-.0040	-.0025	.0007	.0035
SDev	.0224	.0009	.0008	.0025	.0166	.0123	.0054
%RSD	1514.	164.3	3618.	61.73	666.1	1781.	153.0

#1	.0117	.0015	.0009	-.0011	.0166	.0148	.0047
#2	.0170	-.0003	-.0003	-.0053	-.0141	-.0074	-.0024
#3	-.0243	.0004	-.0005	-.0055	-.0100	-.0053	.0082

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	-.0005	-.0033	.0065	.0018	.0155	-.0000
SDev	.0042	.0009	.0008	.0100	.0039	.0472	.0000
%RSD	295.7	171.0	25.51	153.9	219.5	304.3	254.3
#1	.0034	.0005	-.0023	-.0007	.0054	.0395	-.0000
#2	-.0034	-.0010	-.0037	.0023	-.0023	-.0388	.0000
#3	.0043	-.0011	-.0038	.0179	.0022	.0459	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0006	.0003	-.0040	.0172	.0203	.0027	.1724
SDev	.0018	.0013	.0034	.0195	.0264	.0054	.0709
%RSD	312.2	523.6	84.30	113.2	130.0	204.2	41.11
#1	.0020	.0014	-.0005	.0270	.0306	.0069	.2528
#2	-.0014	-.0012	-.0073	-.0052	-.0097	-.0035	.1191
#3	.0011	.0005	-.0044	.0298	.0399	.0045	.1452

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0000	-.0004	-.4818	.0009	-.0012
SDev	.0000	.0016	1.0099	.0029	.0011
%RSD	.0000	397.2	209.6	310.7	93.72
#1	.0000	.0014	.6528	.0019	.0001
#2	.0000	-.0017	-1.282	-.0023	-.0017
#3	.0000	-.0009	-.8160	.0033	-.0019

Method: ICAP3 Sample Name: XX,JM3188 CLJCSS17 Operator: SBB
Run Time: 02/18/94 17:47:48
Comment: JM3188M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0075	.4340	.0007	.0003	.2145	-.0031	.0019
SDev	.0105	.0026	.0005	.0016	.0124	.0127	.0067
%RSD	140.1	.5967	82.81	471.8	5.801	414.0	362.4
#1	-.0075	.4327	.0012	-.0015	.2095	.0050	.0026
#2	.0030	.4370	.0006	.0013	.2053	.0035	.0082
#3	-.0181	.4323	.0001	.0012	.2286	-.0177	-.0052

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0171	5.823	.0072	.0092	.1780	1.602	-.0000
SDev	.0029	.031	.0043	.0027	.0033	.052	.0000
%RSD	17.32	.5337	59.42	29.16	1.874	3.232	189.8
#1	.0154	5.811	.0107	.0122	.1788	1.583	-.0000

#2	.0205	5.858	.0083	.0083	.1808	1.661	-.0000
#3	.0154	5.799	.0025	.0071	.1743	1.562	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0263	.2542	-.0003	.0301	.1857	2.898	S3500.
SDev	.0018	.0020	.0023	.0265	.0257	.018	.
%RSD	6.788	.7739	746.8	88.09	13.85	.6175	.0061
#1	.0268	.2546	.0005	.0269	.1935	2.892	S3500.
#2	.0277	.2559	-.0029	.0580	.2066	2.918	S3500.
#3	.0243	.2520	.0015	.0053	.1570	2.883	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0131	.0031	.7849	.0021	.1689
SDev	.0005	.0019	.6309	.0039	.0020
%RSD	3.535	62.66	80.38	186.4	1.189
#1	.0128	.0018	.9325	.0018	.1706
#2	.0128	.0053	.0933	.0060	.1695
#3	.0136	.0021	1.329	-.0017	.1667

Method: ICAP3 Sample Name: XX,JM3189 CLJCSS18 Operator: SBB
Run Time: 02/18/94 17:51:40
Comment: JM3189M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0032	.4697	.0024	.0004	.0390	.0040	.0066
SDev	.0174	.0001	.0008	.0017	.0144	.0136	.0072
%RSD	541.4	.0219	32.72	392.1	36.86	340.4	110.0
#1	-.0120	.4698	.0027	.0002	.0468	-.0074	.0005
#2	.0222	.4696	.0015	-.0012	.0224	.0004	.0145
#3	-.0006	.4698	.0029	.0023	.0479	.0190	.0047

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0784	2.360	.0092	.0041	.1021	.4394	-.0000
SDev	.0029	.002	.0015	.0084	.0017	.0307	.0000
%RSD	3.764	.0839	16.85	204.0	1.666	6.987	147.1
#1	.0818	2.362	.0098	.0122	.1035	.4669	-.0000
#2	.0767	2.359	.0103	.0048	.1027	.4451	-.0000
#3	.0767	2.360	.0074	-.0046	.1002	.4063	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0029	.0248	-.0005	.0148	.0908	2.008	S3498.
SDev	.0000	.0004	.0021	.0296	.0057	.002	.
%RSD	.0000	1.562	443.8	199.5	6.299	.0806	.0022
#1	.0029	.0249	.0005	.0364	.0896	2.010	S3498.
#2	.0029	.0251	-.0029	.0271	.0971	2.008	S3498.

#3	.0029	.0244	.0010	-.0189	.0858	2.007	S3498.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0136	.0026	.9481	.0028	.1857
SDev	.0000	.0008	.3007	.0040	.0004
%RSD	.0000	30.11	31.71	145.0	.2166
#1	.0136	.0019	.8626	.0005	.1859
#2	.0136	.0023	.6994	.0074	.1852
#3	.0136	.0034	1.282	.0005	.1859

Method: ICAP3 Sample Name: XX,JM3190 CLJCSS19 Operator: SBB
Run Time: 02/18/94 17:55:24
Comment: JM3190M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0064	.4934	.0001	-.0013	.0010	-.0040	-.0037
SDev	.0175	.0083	.0003	.0005	.0025	.0006	.0061
%RSD	271.5	1.676	439.7	35.67	248.1	15.05	163.7
#1	-.0137	.4997	-.0001	-.0019	.0029	-.0043	-.0009
#2	.0161	.4965	.0004	-.0010	-.0018	-.0043	-.0108
#3	.0170	.4840	-.0001	-.0011	.0019	-.0033	.0005

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0009	.2678	.0029	-.0013	.0353	.7859	.0000
SDev	.0070	.0024	.0006	.0030	.0036	.0397	.0000
%RSD	818.0	.8977	21.08	242.6	10.29	5.053	7696.
#1	-.0009	.2696	.0027	-.0017	.0366	.7990	-.0000
#2	-.0051	.2686	.0025	-.0040	.0312	.7413	.0000
#3	.0085	.2650	.0036	.0020	.0382	.8175	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	.0017	-.0015	.0059	.0674	1.476	S3499.
SDev	.0026	.0003	.0018	.0290	.0324	.007	.
%RSD	183.3	19.53	120.8	493.7	48.12	.4560	.0107
#1	.0020	.0016	.0000	.0054	.0708	1.483	S3500.
#2	-.0014	.0014	-.0010	-.0229	.0334	1.474	S3499.
#3	.0037	.0020	-.0034	.0351	.0980	1.470	S3499.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0147	-.0001	.3575	-.0001	.2061
SDev	.0005	.0010	.3349	.0044	.0039
%RSD	3.149	713.6	93.68	3712.	1.899
#1	.0144	-.0009	.4896	.0015	.2101
#2	.0152	-.0006	.6062	-.0051	.2057
#3	.0144	.0010	-.0233	.0033	.2023

Method: ICAP3 Sample Name: XX,JM3191 CLJCSS20 Operator: SBB
Run Time: 02/18/94 17:58:56
Comment: JM3191M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0132	.3814	.0006	-.0013	.0054	-.0147	-.0012
SDev	.0085	.0036	.0011	.0012	.0053	.0047	.0042
%RSD	64.74	.9435	186.9	89.90	96.75	32.38	362.0
#1	-.0058	.3804	.0013	-.0006	.0115	-.0198	.0033
#2	-.0111	.3784	-.0007	-.0007	.0029	-.0105	-.0052
#3	-.0225	.3854	.0012	-.0026	.0019	-.0136	-.0016

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0063	.5070	.0052	.0066	.0442	.7651	-.0000
SDev	.0020	.0063	.0010	.0060	.0011	.0202	.0000
%RSD	31.49	1.250	19.64	90.87	2.444	2.634	395.0
#1	.0085	.5099	.0063	.0124	.0438	.7555	-.0000
#2	.0051	.4997	.0047	.0004	.0434	.7515	.0000
#3	.0051	.5113	.0045	.0071	.0455	.7882	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0029	.0148	-.0002	.0063	.3461	7.560	S3500.
SDev	.0007	.0003	.0011	.0031	.0186	.073	1.
%RSD	25.98	2.219	724.4	49.17	5.390	.9593	.0169
#1	.0033	.0147	.0005	.0027	.3573	7.535	S3500.
#2	.0020	.0145	.0005	.0081	.3246	7.504	S3499.
#3	.0033	.0151	-.0014	.0081	.3564	7.642	S3500.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0234	.0002	.5284	.0006	.1844
SDev	.0005	.0017	.3165	.0023	.0026
%RSD	1.968	920.9	59.90	402.9	1.387
#1	.0232	.0015	.6994	.0033	.1826
#2	.0232	-.0017	.7227	-.0009	.1833
#3	.0240	.0008	.1632	-.0006	.1873

Method: ICAP3 Sample Name: XX,JM3192 CLJCSS21 Operator: SBB
Run Time: 02/18/94 18:02:30
Comment: JM3192M,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0018	.6353	-.0005	-.0011	-.0001	-.0090	.0037
SDev	.0071	.0032	.0007	.0022	.0106	.0178	.0049

%RSD	403.7	.5093	149.3	191.8	10180.	198.7	131.8
#1	-.0058	.6321	-.0006	-.0016	.0009	.0112	.0089
#2	.0029	.6386	-.0010	-.0031	-.0112	-.0224	-.0009
#3	.0082	.6354	.0003	.0012	.0099	-.0157	.0033

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0063	.3801	.0023	.0043	.0828	.7090	-.0000
SDev	.0055	.0020	.0017	.0156	.0046	.0697	.0000
%RSD	87.67	.5339	74.55	362.4	5.569	9.825	139.4
#1	.0102	.3819	.0035	.0062	.0856	.7606	-.0000
#2	.0000	.3805	.0003	-.0122	.0774	.6298	.0000
#3	.0085	.3779	.0031	.0189	.0852	.7365	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0023	.0106	.0000	.0180	.1123	3.759	S3499.
SDev	.0025	.0007	.0032	.0506	.0306	.009	.
%RSD	108.3	6.216	34550.	281.0	27.21	.2338	.0013
#1	.0037	.0113	-.0005	.0486	.1411	3.752	S3499.
#2	-.0006	.0100	-.0029	-.0404	.0802	3.769	S3500.
#3	.0037	.0104	.0034	.0458	.1158	3.756	S3499.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0208	.0026	.4740	.0020	.2027
SDev	.0000	.0027	.2393	.0028	.0004
%RSD	.0000	100.7	50.47	144.2	.2099
#1	.0208	.0046	.5362	.0040	.2032
#2	.0208	-.0004	.2098	-.0013	.2026
#3	.0208	.0037	.6761	.0032	.2023

Method: ICAP3 Sample Name: TCLP BLK Operator: SBB
Run Time: 02/18/94 18:06:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0149	.1783	-.0001	-.0032	.0019	-.0266	-.0019
SDev	.0112	.0015	.0004	.0017	.0053	.0041	.0077
%RSD	74.95	.8342	522.7	52.26	284.8	15.46	412.9
#1	-.0093	.1800	.0004	-.0038	-.0036	-.0281	.0033
#2	-.0278	.1772	-.0004	-.0044	.0022	-.0297	-.0108
#3	-.0076	.1776	-.0002	-.0013	.0070	-.0219	.0019

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0028	.1058	-.0007	.0032	.0061	.0428	.0000
SDev	.0047	.0004	.0009	.0066	.0020	.0257	.0002
%RSD	165.2	.3359	129.9	207.9	32.79	60.14	452.0

#1	.0026	.1062	-.0018	.0008	.0071	.0672	-.0000
#2	-.0017	.1058	-.0001	-.0019	.0038	.0159	-.0001
#3	.0077	.1055	-.0003	.0106	.0075	.0452	.0003

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0000	-.0001	-.0027	.0046	.0225	.1669	1.340
SDev	.0013	.0005	.0022	.0255	.0165	.0044	.148
%RSD	4493e6	709.1	81.57	555.8	73.64	2.644	11.07
#1	.0003	.0001	-.0015	.0244	.0334	.1711	1.511
#2	-.0014	-.0006	-.0053	-.0241	.0034	.1623	1.257
#3	.0011	.0003	-.0015	.0135	.0306	.1671	1.252

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0039	-.0011	-.0389	-.0002	.1337
SDev	.0008	.0029	.5199	.0030	.0014
%RSD	21.53	253.3	1338.	1321.	1.049
#1	.0036	.0006	.1632	.0012	.1335
#2	.0032	-.0044	-.6295	-.0037	.1324
#3	.0048	.0005	.3497	.0019	.1352

Method: ICAP3 Sample Name: LD,JM3188 X5 Operator: SBB
Run Time: 02/18/94 18:09:34
Comment: JM3188ML,N7M3793,L,A5,50,50,5
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0152	.0858	.0007	-.0007	.0384	-.0040	-.0056
SDev	.0097	.0012	.0006	.0018	.0120	.0268	.0111
%RSD	63.57	1.351	89.59	270.5	31.28	678.1	197.6
#1	-.0146	.0870	.0004	.0008	.0521	.0257	.0040
#2	-.0251	.0846	.0014	-.0027	.0299	-.0265	-.0178
#3	-.0058	.0859	.0002	-.0001	.0331	-.0110	-.0031

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0014	1.174	.0009	-.0062	.0371	.3358	.0000
SDev	.0066	.005	.0056	.0101	.0035	.0520	.0000
%RSD	466.0	.4043	611.2	163.2	9.507	15.50	170.2
#1	.0068	1.179	.0074	.0008	.0402	.3823	-.0000
#2	-.0060	1.170	-.0022	-.0178	.0333	.2796	.0000
#3	.0034	1.173	-.0025	-.0016	.0378	.3455	.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0043	.0502	.0000	.0045	.0814	.7605	290.5
SDev	.0027	.0008	.0013	.0420	.0362	.0046	.9
%RSD	64.29	1.618	18160.	940.2	44.43	.6103	.3095

#1	.0063	.0512	.0010	.0485	.1064	.7659	291.3
#2	.0011	.0499	-.0014	-.0351	.0399	.7575	290.5
#3	.0054	.0497	.0005	-.0001	.0980	.7583	289.5

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0144	-.0013	.0855	-.0032	.1351
SDev	.0000	.0040	.4600	.0054	.0097
%RSD	.0000	297.8	538.1	171.8	7.203
#1	.0144	.0006	.3963	.0022	.1369
#2	.0144	-.0059	-.4430	-.0086	.1438
#3	.0144	.0013	.3031	-.0030	.1246

Method: ICAP3 Sample Name: AS,JM3188,0770 9:1PS Operator: SBB
Run Time: 02/18/94 18:13:12
Comment: JM3188MP,N7M3793,L,A5,50,50,1
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.879	9.993	.9747	4.966	4.934	.9826	.0955
SDev	.043	.120	.0072	.054	.052	.0084	.0069
%RSD	.8788	1.205	.7394	1.084	1.063	.8569	7.235
#1	4.878	9.966	.9697	4.948	4.896	.9767	.1032
#2	4.922	10.12	.9830	5.026	4.994	.9922	.0899
#3	4.836	9.888	.9715	4.923	4.912	.9788	.0934

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	4.971	9.903	4.851	4.752	.1854	1.457	.9526
SDev	.057	.103	.049	.051	.0021	.029	.0114
%RSD	1.144	1.040	1.010	1.079	1.130	1.971	1.196
#1	4.961	9.879	4.848	4.730	.1862	1.479	.9491
#2	5.032	10.02	4.901	4.811	.1870	1.466	.9653
#3	4.920	9.815	4.803	4.715	.1830	1.424	.9434

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0253	1.232	.9863	.9092	.2465	2.819	S3504.
SDev	.0009	.008	.0097	.0184	.0030	.031	.
%RSD	3.528	.6410	.9874	2.019	1.221	1.116	.0057
#1	.0260	1.232	.9812	.9254	.2487	2.809	S3504.
#2	.0243	1.239	.9975	.9131	.2431	2.854	S3504.
#3	.0255	1.223	.9802	.8893	.2478	2.794	S3504.

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0293	.9624	.2798	.9715	.2499
SDev	.0005	.0106	.3031	.0093	.0037
%RSD	1.575	1.097	108.3	.9552	1.465
#1	.0288	.9605	.6295	.9739	.2521

#2	.0296	.9737	.0933	.9794	.2519
#3	.0296	.9529	.1166	.9613	.2457

Method: ICAP3 Sample Name: CCV,0777 Operator: SBB
Run Time: 02/18/94 18:16:15
Comment: IB,N7M3793
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.266	4.731	1.244	.4701	2.355	2.339	.6041
SDev	.039	.034	.008	.0029	.025	.037	.0064
%RSD	1.718	.7160	.6220	.6197	1.047	1.568	1.053
#1	2.260	4.728	1.248	.4702	2.375	2.354	.6101
#2	2.230	4.698	1.235	.4671	2.327	2.297	.5975
#3	2.307	4.766	1.248	.4729	2.362	2.366	.6046
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.330	4.790	1.290	.4870	2.400	2.360	.5880
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.6163	1.207	1.262	2.287	2.341	4.732	.1205
SDev	.0084	.009	.013	.026	.015	.069	.0009
%RSD	1.366	.7043	1.014	1.151	.6478	1.460	.7730
#1	.6203	1.206	1.274	2.281	2.343	4.778	.1205
#2	.6066	1.200	1.248	2.264	2.325	4.653	.1195
#3	.6220	1.217	1.264	2.316	2.355	4.766	.1213
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.6060	1.240	1.310	2.350	2.390	4.800	.1250
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	2.383	1.309	.1186	2.303	11.96	11.79	12.16
SDev	.016	.011	.0027	.038	.13	.10	.12
%RSD	.6918	.8712	2.271	1.649	1.064	.8184	.9935
#1	2.384	1.312	.1181	2.328	11.98	11.80	12.24
#2	2.367	1.296	.1162	2.259	11.82	11.69	12.02
#3	2.400	1.318	.1215	2.322	12.07	11.88	12.22
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.430	1.280	.1240	2.300	12.30	11.95	12.14
Range	10.50	10.50	10.50	10.50	10.50	10.50	10.50

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	1.296	1.240	11.89	2.370	1.139
SDev	.008	.010	.32	.018	.011
%RSD	.6336	.8440	2.653	.7447	1.009

#1	1.296	1.242	12.19	2.371	1.139
#2	1.288	1.228	11.56	2.352	1.128
#3	1.305	1.249	11.91	2.388	1.150
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.310	1.280	11.92	2.410	1.210
Range	10.50	10.50	10.50	10.50	10.50

Method: ICAP3 Sample Name: CCB Operator: SBB
Run Time: 02/18/94 18:19:28
Comment: ID,N7M3793
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0000	.0015	.0004	-.0027	-.0014	-.0231	.0007
SDev	.0027	.0004	.0009	.0003	.0083	.0212	.0051
%RSD	39690.	29.26	266.3	11.35	576.9	91.88	722.8
#1	-.0023	.0020	.0014	-.0031	.0076	-.0421	.0033
#2	.0029	.0015	-.0003	-.0026	-.0030	-.0002	-.0052
#3	-.0006	.0011	-.0000	-.0025	-.0089	-.0271	.0040

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0028	-.0001	.0010	.0076	.0027	.0325	-.0000
SDev	.0036	.0005	.0033	.0052	.0019	.0104	.0000
%RSD	124.9	424.8	320.4	68.24	69.46	31.90	360.0
#1	.0017	-.0006	.0048	.0073	.0038	.0205	-.0000
#2	.0068	-.0002	-.0004	.0130	.0038	.0381	.0000
#3	.0000	.0005	-.0013	.0026	.0005	.0388	-.0000

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0007	.0005	-.0005	.0131	.0072	.0040	.1310
SDev	.0013	.0002	.0005	.0034	.0009	.0030	.0205
%RSD	180.0	40.00	100.9	26.14	13.04	75.72	15.64
#1	.0007	.0003	.0000	.0163	.0062	.0053	.1501
#2	.0020	.0005	-.0010	.0095	.0072	.0061	.1337
#3	-.0006	.0008	-.0005	.0136	.0081	.0005	.1093

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0003	.0004	.1399	.0009	-.0022
SDev	.0005	.0020	.2865	.0034	.0024
%RSD	173.2	503.0	204.8	369.6	106.3
#1	.0008	.0007	.4663	.0026	.0001
#2	.0000	.0022	.0233	-.0030	-.0046
#3	.0000	-.0017	-.0699	.0033	-.0021

Method: ICAP3 Sample Name: CRI,0784 Operator: SBB

Run Time: 02/18/94 18:22:51
Comment: IL,N7M3793
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.2020	.4087	.0106	.0166	.1463	.1897	.0183
SDev	.0103	.0037	.0003	.0004	.0080	.0080	.0085
%RSD	5.123	.8973	2.605	2.691	5.466	4.235	46.59
#1	.1994	.4067	.0109	.0166	.1478	.1892	.0232
#2	.1932	.4065	.0105	.0162	.1377	.1819	Q.0084
#3	.2134	.4129	.0104	.0171	.1535	.1980	.0232
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2208	.4021	.0108	.0210	.1600	.2014	.0220
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.1080	.0412	.0825	.2129	.2203	.4606	.0101
SDev	.0010	.0013	.0023	.0083	.0017	.0353	.0001
%RSD	.9117	3.091	2.781	3.907	.7730	7.673	.7628
#1	.1074	.0414	.0850	.2036	.2190	.4298	.0100
#2	.1074	.0398	.0806	.2198	.2198	.4528	.0100
#3	.1091	.0424	.0818	.2152	.2222	.4992	.0102
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1043	.0412	.0882	.2086	.2101	.4069	.0101
Range	25.00	25.00	25.00	25.00	25.00	25.00	25.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0006	.0271	.0184	.1246	2.014	10.16	10.41
SDev	.0005	.0013	.0022	.0094	.022	.11	.09
%RSD	86.60	4.774	12.11	7.557	1.099	1.051	.8788
#1	.0003	.0259	.0165	.1152	1.994	10.10	10.34
#2	.0011	.0284	.0209	.1245	2.012	10.09	10.38
#3	.0003	.0269	.0179	Q.1340	2.038	10.28	10.51
Errors	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value		.0249	.0203	.1017	2.031	10.29	10.29
Range		25.00	25.00	25.00	25.00	25.00	25.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0013	.0516	9.800	.1039	Q.0839
SDev	.0005	.0010	.350	.0031	.0025
%RSD	34.64	1.910	3.571	2.934	2.934
#1	.0016	.0508	10.00	.1060	Q.0827
#2	.0008	.0527	10.00	.1004	Q.0823
#3	.0016	.0513	9.395	.1053	Q.0867
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	QC Fail
Value		.0526		.1044	.0191

Range	25.00	25.00	25.00

Method: ICAP3 Sample Name: ICSA,0775 Operator: SBB
Run Time: 02/18/94 18:26:12
Comment: IF,N7M3793
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0042	.0019	-.0104	-.0082	.0060	-.0240	-.0033
SDev	.0211	.0011	.0015	.0020	.0124	.0101	.0016
%RSD	508.3	56.79	14.78	24.75	207.6	42.09	49.49
#1	-.0177	.0026	-.0106	-.0083	.0025	-.0124	-.0051
#2	-.0150	.0007	-.0119	-.0101	-.0043	-.0286	-.0023
#3	.0202	.0025	-.0088	-.0061	.0198	-.0309	-.0023
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.0028	.0174	-.0090	.0119	176.0	481.9	-.0000
SDev	.0013	.0018	.0011	.0100	1.1	3.9	.0001
%RSD	45.78	10.42	12.70	84.43	.6373	.8087	6850.
#1	.0043	.0193	-.0097	.0211	176.9	484.7	.0001
#2	.0017	.0157	-.0077	.0133	176.3	483.7	-.0000
#3	.0026	.0172	-.0097	.0012	174.7	477.5	-.0001
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					177.0	487.0	
Range					20.00	20.00	

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	-.0033	-.0015	-.0011	.0436	236.9	182.7	.4304
SDev	.0011	.0002	.0048	.0253	1.3	1.0	.0234
%RSD	32.83	16.89	429.6	58.04	.5446	.5519	5.435
#1	-.0023	-.0012	.0043	.0600	238.2	183.6	.4365
#2	-.0031	-.0016	-.0050	.0145	236.8	182.9	.4046
#3	-.0044	-.0016	-.0027	.0564	235.6	181.6	.4502
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value					243.0	184.0	
Range					20.00	20.00	

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm
Avge	.0075	-.0047	.1166	.0020	.4412
SDev	.0002	.0025	.3894	.0011	.0024
%RSD	3.093	52.86	334.1	53.33	.5385
#1	.0076	-.0025	.5362	.0010	.4432

#2	.0072	-.0073	-.2331	.0032	.4419
#3	.0076	-.0042	.0466	.0019	.4386
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value					
Range					

Method: ICAP3 Sample Name: ICSAB,0786 Operator: SBB
Run Time: 02/18/94 18:29:27
Comment: IG,N7M3793
Mode: CONC Corr. Factor: 1

Elem	As1890	Ba4934	Cd2144	Cr2677	Pb2203	Se1960	Ag3280
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.9239	.4654	.8644	.4417	.8793	.8778	.9132
SDev	.0374	.0060	.0078	.0056	.0146	.0246	.0054
%RSD	4.043	1.300	.9008	1.279	1.660	2.799	.5884
#1	.9653	.4720	.8733	.4477	.8684	.8871	.9179
#2	.9138	.4602	.8588	.4410	.8959	.8963	.9074
#3	.8927	.4639	.8611	.4365	.8738	.8499	.9144
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.9315	.4713	.8736	.4618	.8833	.8850	.9232
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Cu3247	Zn2138	Ni2316	Tl1908	Fe	Al3082	Be3130
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.4642	.9008	.8666	.8512	170.8	473.2	.4537
SDev	.0034	.0029	.0077	.0254	1.7	5.7	.0051
%RSD	.7424	.3224	.8937	2.986	.9794	1.207	1.132
#1	.4673	.9027	.8755	.8803	172.6	479.3	.4593
#2	.4605	.8975	.8629	.8338	169.4	468.0	.4492
#3	.4648	.9023	.8613	.8394	170.2	472.3	.4527
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4719	.9233	.8724	.8636	172.1	481.4	.4648
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Ti3349	Mn2576	Mo2020	Sb2068	Mg2790	Ca3179	Na5889
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avge	.8988	.4552	.9052	.9101	480.3	221.5	Q2.013
SDev	.0105	.0059	.0139	.0518	4.2	2.0	.051
%RSD	1.164	1.301	1.531	5.692	.8802	.9163	2.539
#1	.9102	.4617	.9211	.9669	485.2	223.8	Q1.974
#2	.8896	.4503	.8989	.8655	477.4	219.9	Q2.071
#3	.8965	.4535	.8956	.8978	478.3	220.8	Q1.994
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.9123	.4063	.9210	.8952	490.4	226.7	.9625
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Sr4215	Co2286	K_7664	V_2924	B_1826
Units	mg/l	mg/l	mg/l	mg/l	ppm

Avge	.9428	.4244	Q1.080	.4404	Q1.659
SDev	.0124	.0024	.458	.0020	.020
%RSD	1.320	.5599	42.42	.4604	1.183
#1	.9559	.4267	Q.7927	.4426	Q1.681
#2	.9311	.4219	Q1.609	.4398	Q1.643
#3	.9415	.4244	Q.8393	.4387	Q1.652
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Fail
Value	.9516	.4323	.5666	.4458	1.083
Range	20.00	20.00	20.00	20.00	20.00

[redacted]

7N/CLPMET/TCLP 027:
0013

QC BATCH # N7M3774

Analyst: RJF Date: 2/9/94 Method #: 3010 Notebook: _____

Reagent Codes:

HNO_3 G41050 H_2SO_4 _____ NH_2OH HCL _____

HCl NX06031Z $KMNO_4$ _____ NaCl _____

H_2O_2 _____ $K_2S_2O_8$ _____ $SnCl_2$ _____

DI _____

Spike Codes:

ICP _____ mL _____

HGA _____ mL _____

Stock Hg _____

TCLP 0770 mLS

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JM3169	152246N	CLW0501					
2 3170		01A					
3 3171		01B					
4 3172		CLWCSS01					
5 3173		02					
6 3174		03					
7 3175		04					
8 3176		05					
9 3177		06					
10 3178		07					
11						Replicate	
12	TCLP	Blk					
13							
14							
15							
16							
17							
18							
19							
20							Primary Tricotone 2-9-94
MTX SPK	152246N	CLWCSS07	50	50			
JM3178							
MTX SPK DUP							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By _____ Date

- 0280

7N/CLPMET/TCLP

[redacted]

QC BATCH # N7M3793

0017

Analyst: BJF Date: 2/14/94 Method #: 3010 Notebook: _____

Reagent Codes:

HNO_3 G41050 H_2SO_4 _____ NH_2OH HCL _____

HCl NX060312 $KMNO_4$ _____ NaCl _____

H_2O_2 _____ $K_2S_2O_8$ _____ $SnCl_2$ _____

DI _____

Spike Codes:

ICP _____ mL ___

HGA _____ mL ___

Stock Hg _____

TCLP 0770 mL 5.0mL

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK	—	3793 M	50	50			
MTH SPK	—	↓ MS					
1 JM3184	15226N	CLJCS513					
2 3185		14					
3 3186		15					
4 3187		16					
5 3188		17					
6 3189		18					
7 3190		19					
8 3191		20					
9 3192		21					
10 3193	↓	↓ 22					
11 ↓	↓	↓				Replicate	
12 —	TCLP	Blank	↓	↓			
13							
14							
15							
16							
17							
18							
19							
20						Bernard Turestone	
MTX SPK	15226N	CLJCS22	50	50			2-14-94
JM3193	↓	↓	↓	↓			
MTX SPK DUP							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By _____ Date

7N/CLPMET/TCLP

028

QC BATCH # N7M3776

0014

Analyst: BJF Date: 2/9/94 Method #: 3010 Notebook: _____

Reagent Codes:

HNO_3 G41050 H_2SO_4 _____ NH_2OH HCL _____

HCl NX0603T2 $KMNO_4$ _____ NaCl _____

H_2O_2 _____ $K_2S_2O_8$ _____ $SnCl_2$ _____

DI _____

Spike Codes:

ICP _____ mL ___

HGA _____ mL ___

Stock Hg _____

TCLP 0770 mL 5.0

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JM3179	15226N	CW-CSS08					
2 3180		09					
3 3181		10					
4 3182		11					
5 3183		12					
6 ~~3184~~		~~13~~					
7 ~~3185~~		~~14~~					
8 ~~3186~~		~~15~~					
9 ~~3187~~		~~16~~					NOT Ready
10 ~~3188~~		~~17~~					
11 ~~3189~~		~~18~~					
12 3183		12					Replicate
13							
14							
15							
16							
17							
18							
19							
20							Renee for Firestone 2-9-94
MTX SPK	15226N	CW-CSS08	50	50			
JM3189		12					
MTX SPK DUP							
JM3183							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					See prev. Batch for (N7M3774)
#2					TCLP Blank
#3					Samples marked out
#4					were not yet tumbled.
#5					

Water Bath Temp.: _____

Read and Understood By Date

Element File: RAS.GEL Element: As Wavelength: 193.7
Date: 02/18/94 Time: 08:30 Slit: 0.70 L
Data File: AL021894.DAT ID/Wt File: AL021794.IDW
Technique: HGA Calib. Type: Linear Energy: 50

As 1D: cal blk Seq. No.: 00004 A/S Pos.: 0 Date: 02/18/94

As 1D: Std #1 1N-0781 Seq. No.: 00005 A/S Pos.: 40 Date: 02/18/94

Standard number 1 applied. [5.000]
Correlation coefficient: 1.00000 Slope: 0.0026 Int: 0.000

As 1D: Std #2 Seq. No.: 00006 A/S Pos.: 40 Date: 02/18/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99807 Slope: 0.0023 Int: 0.000

As 1D: Std #3 Seq. No.: 00007 A/S Pos.: 40 Date: 02/18/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99946 Slope: 0.0023 Int: 0.001

1D: Std #4 Seq. No.: 00008 A/S Pos.: 40 Date: 02/18/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99921 Slope: 0.0022 Int: 0.001

As 1D: Std #5 Seq. No.: 00009 A/S Pos.: 40 Date: 02/18/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99961 Slope: 0.0022 Int: 0.001

As 1D: Std #6 Seq. No.: 00010 A/S Pos.: 40 Date: 02/18/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99977 Slope: 0.0022 Int: 0.001

As 1D: 1CV-0788 Seq. No.: 00011 A/S Pos.: 37 Date: 02/18/94

As 1D: 1CB Seq. No.: 00012 A/S Pos.: 0 Date: 02/18/94

1D: CRA-0789 Seq. No.: 00013 A/S Pos.: 36 Date: 02/18/94

As 1D: PBL-N7R3773 Seq. No.: 00014 A/S Pos.: 1 Date: 02/18/94

	ID: PBL-N7R3773	Seq. No.: 00015	A/S Pos.: 1	Date: 02/18/94
As	ID: LCSL-N7R3773	Seq. No.: 00016	A/S Pos.: 2	Date: 02/18/94
As	ID: LCSL-N7R3773	Seq. No.: 00017	A/S Pos.: 2	Date: 02/18/94
As	ID: 7SM-JM3178 MTXS	Seq. No.: 00018	A/S Pos.: 3	Date: 02/18/94
As	ID: 7SD-JM3178 MTXR	Seq. No.: 00019	A/S Pos.: 4	Date: 02/18/94
As	ID: 7XX-JM3178 SS07	Seq. No.: 00020	A/S Pos.: 5	Date: 02/18/94
As	ID: 7XX-JM3178 SS07	Seq. No.: 00021	A/S Pos.: 5	Date: 02/18/94
As	ID: 7XX-JM3178 DUP	Seq. No.: 00022	A/S Pos.: 6	Date: 02/18/94
As	ID: 7XX-JM3178 DUP	Seq. No.: 00023	A/S Pos.: 6	Date: 02/18/94
As	ID: CCV-0787	Seq. No.: 00024	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00025	A/S Pos.: 0	Date: 02/18/94
As	ID: 7XX-JM3169 DS01	Seq. No.: 00026	A/S Pos.: 7	Date: 02/18/94
As	ID: 7XX-JM3169 DS01	Seq. No.: 00027	A/S Pos.: 7	Date: 02/18/94
As	ID: 7XX-JM3170 01A	Seq. No.: 00028	A/S Pos.: 8	Date: 02/18/94
As	ID: 7XX-JM3170 01A	Seq. No.: 00029	A/S Pos.: 8	Date: 02/18/94
As	ID: 7XX-JM3171 01B	Seq. No.: 00030	A/S Pos.: 9	Date: 02/18/94
As	ID: 7XX-JM3171 01B	Seq. No.: 00031	A/S Pos.: 9	Date: 02/18/94
	ID: 7XX-JM3172 SS01	Seq. No.: 00032	A/S Pos.: 10	Date: 02/18/94

	ID: 7XX-JM3172 SS01	Seq. No.: 00033	A/S Pos.: 10	Date: 02/18/94
As	ID: 7XX-JM3173 SS02	Seq. No.: 00034	A/S Pos.: 11	Date: 02/18/94
As	ID: 7XX-JM3173 SS02	Seq. No.: 00035	A/S Pos.: 11	Date: 02/18/94
As	ID: CCV-0787	Seq. No.: 00036	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00037	A/S Pos.: 0	Date: 02/18/94
As	ID: 7XX-JM3174 SS03	Seq. No.: 00038	A/S Pos.: 12	Date: 02/18/94
As	ID: 7XX-JM3174 SS03	Seq. No.: 00039	A/S Pos.: 12	Date: 02/18/94
As	ID: CCV-0787	Seq. No.: 00040	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00041	A/S Pos.: 0	Date: 02/18/94
	ID: 7XX-JM3174 SS03	Seq. No.: 00042	A/S Pos.: 12	Date: 02/18/94
As	ID: 7XX-JM3174 SS03	Seq. No.: 00043	A/S Pos.: 12	Date: 02/18/94
As	ID: 7XX-JM3175 SS04	Seq. No.: 00044	A/S Pos.: 13	Date: 02/18/94
As	ID: 7XX-JM3175 SS04	Seq. No.: 00045	A/S Pos.: 13	Date: 02/18/94
As	ID: 7XX-JM3176 SS05	Seq. No.: 00046	A/S Pos.: 14	Date: 02/18/94
As	ID: 7XX-JM3176 SS05	Seq. No.: 00047	A/S Pos.: 14	Date: 02/18/94
As	ID: 7XX-JM3177 SS06	Seq. No.: 00048	A/S Pos.: 15	Date: 02/18/94
As	ID: 7XX-JM3177 SS06	Seq. No.: 00049	A/S Pos.: 15	Date: 02/18/94
	ID: TCLP BLK 3773	Seq. No.: 00050	A/S Pos.: 16	Date: 02/18/94
As	ID: TCLP BLK 3773	Seq. No.: 00051	A/S Pos.: 16	Date: 02/18/94

	ID: CCV-0787	Seq. No.: 00052	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00053	A/S Pos.: 0	Date: 02/18/94
As	ID: PBW-N7R3777	Seq. No.: 00054	A/S Pos.: 17	Date: 02/18/94
As	ID: PBW-N7R3777	Seq. No.: 00055	A/S Pos.: 17	Date: 02/18/94
As	ID: LCSW-N7R3777	Seq. No.: 00056	A/S Pos.: 18	Date: 02/18/94
As	ID: LCSW-N7R3777	Seq. No.: 00057	A/S Pos.: 18	Date: 02/18/94
As	ID: 7SM-JM3183 MTXS	Seq. No.: 00058	A/S Pos.: 19	Date: 02/18/94
As	ID: 7SD-JM3183 MTXR	Seq. No.: 00059	A/S Pos.: 20	Date: 02/18/94
As	ID: 7XX-JM3183 SS12	Seq. No.: 00060	A/S Pos.: 21	Date: 02/18/94
As	ID: 7XX-JM3183 SS12	Seq. No.: 00061	A/S Pos.: 21	Date: 02/18/94
As	ID: 7XX-JM3183 DUP	Seq. No.: 00062	A/S Pos.: 22	Date: 02/18/94
As	ID: 7XX-JM3183 DUP	Seq. No.: 00063	A/S Pos.: 22	Date: 02/18/94
As	ID: CCV-0787	Seq. No.: 00064	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00065	A/S Pos.: 0	Date: 02/18/94
As	ID: 7XX-JM3179 SS08	Seq. No.: 00066	A/S Pos.: 23	Date: 02/18/94
As	ID: 7XX-JM3179 SS08	Seq. No.: 00067	A/S Pos.: 23	Date: 02/18/94
As	ID: 7XX-JM3180 SS09	Seq. No.: 00068	A/S Pos.: 24	Date: 02/18/94
	ID: 7XX-JM3180 SS09	Seq. No.: 00069	A/S Pos.: 24	Date: 02/18/94

As ID: 7XX-JM3181 SS10 Seq. No.: 00070 A/S Pos.: 25 Date: 02/18/94

As ID: 7XX-JM3181 SS10 Seq. No.: 00071 A/S Pos.: 25 Date: 02/18/94

As ID: 7XX-JM3182 SS11 Seq. No.: 00072 A/S Pos.: 26 Date: 02/18/94

As ID: 7XX-JM3182 SS11 Seq. No.: 00073 A/S Pos.: 26 Date: 02/18/94

As ID: CCV-0787 Seq. No.: 00074 A/S Pos.: 38 Date: 02/18/94

As ID: CCB Seq. No.: 00075 A/S Pos.: 0 Date: 02/18/94

As ID: CRA-0789 Seq. No.: 00076 A/S Pos.: 36 Date: 02/18/94

Element File: KAS.GEL Element: As Wavelength: 193.7
Date: 02/18/94 Time: 17:20 Slit: 0.70 L
Data File: AL021894.DAT ID/Wt File: AL021794.IDW
Technique: HGA Calib. Type: Linear Energy: 51

ID: PBL-N7R3791 Seq. No.: 00077 A/S Pos.: 1 Date: 02/18/94

As ID: PBL-N7R3791 Seq. No.: 00078 A/S Pos.: 1 Date: 02/18/94

As ID: LCSL-N7R3791 Seq. No.: 00079 A/S Pos.: 2 Date: 02/18/94

As ID: LCSL-N7R3791 Seq. No.: 00080 A/S Pos.: 2 Date: 02/18/94

As ID: 7SM-JM3193 MTXS Seq. No.: 00081 A/S Pos.: 3 Date: 02/18/94

As ID: CCV-0787 Seq. No.: 00082 A/S Pos.: 38 Date: 02/18/94

As ID: CCB Seq. No.: 00083 A/S Pos.: 0 Date: 02/18/94

As ID: 7SD-JM3193 MTXR Seq. No.: 00084 A/S Pos.: 4 Date: 02/18/94

As ID: 7XX-JM3193 SS22 Seq. No.: 00085 A/S Pos.: 5 Date: 02/18/94

As ID: 7XX-JM3193 SS22 Seq. No.: 00086 A/S Pos.: 5 Date: 02/18/94

	ID: 7XX-JM3193 DUP	Seq. No.: 00087	A/S Pos.: 6	Date: 02/18/94
As	ID: 7XX-JM3193 DUP	Seq. No.: 00088	A/S Pos.: 6	Date: 02/18/94
As	ID: 7XX-JM3184 SS13	Seq. No.: 00089	A/S Pos.: 7	Date: 02/18/94
As	ID: 7XX-JM3184 SS13	Seq. No.: 00090	A/S Pos.: 7	Date: 02/18/94
As	ID: 7XX-JM3185 SS14	Seq. No.: 00091	A/S Pos.: 8	Date: 02/18/94
As	ID: 7XX-JM3185 SS14	Seq. No.: 00092	A/S Pos.: 8	Date: 02/18/94
As	ID: 7XX-JM3186 SS15	Seq. No.: 00093	A/S Pos.: 9	Date: 02/18/94
As	ID: 7XX-JM3186 SS15	Seq. No.: 00094	A/S Pos.: 9	Date: 02/18/94
As	ID: CCV-0787	Seq. No.: 00095	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00096	A/S Pos.: 0	Date: 02/18/94
As	ID: 7XX-JM3187 SS16	Seq. No.: 00097	A/S Pos.: 10	Date: 02/18/94
As	ID: 7XX-JM3187 SS16	Seq. No.: 00098	A/S Pos.: 10	Date: 02/18/94
As	ID: 7XX-JM3187 SS16	Seq. No.: 00099	A/S Pos.: 10	Date: 02/18/94
As	ID: 7XX-JM3188 SS17	Seq. No.: 00100	A/S Pos.: 11	Date: 02/18/94
As	ID: 7XX-JM3188 SS17	Seq. No.: 00101	A/S Pos.: 11	Date: 02/18/94
As	ID: 7XX-JM3189 SS18	Seq. No.: 00102	A/S Pos.: 12	Date: 02/18/94
As	ID: 7XX-JM3189 SS18	Seq. No.: 00103	A/S Pos.: 12	Date: 02/18/94
	ID: 7XX-JM3190 SS19	Seq. No.: 00104	A/S Pos.: 13	Date: 02/18/94

As	ID: 7XX-JM3190 SS19	Seq. No.: 00105	A/S Pos.: 13	Date: 02/18/94
As	ID: 7XX-JM3191 SS20	Seq. No.: 00106	A/S Pos.: 14	Date: 02/18/94
As	ID: 7XX-JM3191 SS20	Seq. No.: 00107	A/S Pos.: 14	Date: 02/18/94
As	ID: CCV-0787	Seq. No.: 00108	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00109	A/S Pos.: 0	Date: 02/18/94
As	ID: 7XX-JM3192 SS21	Seq. No.: 00110	A/S Pos.: 15	Date: 02/18/94
As	ID: 7XX-JM3192 SS21	Seq. No.: 00111	A/S Pos.: 15	Date: 02/18/94
As	ID: TCLP BLK 3791	Seq. No.: 00112	A/S Pos.: 16	Date: 02/18/94
As	ID: TCLP BLK 3791	Seq. No.: 00113	A/S Pos.: 16	Date: 02/18/94
	ID: CCV-0787	Seq. No.: 00114	A/S Pos.: 38	Date: 02/18/94
As	ID: CCB	Seq. No.: 00115	A/S Pos.: 0	Date: 02/18/94
As	ID: CCB	Seq. No.: 00116	A/S Pos.: 0	Date: 02/18/94
As	ID: CRA-0789	Seq. No.: 00117	A/S Pos.: 36	Date: 02/18/94

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ment File: RAS.GEL Element: As Wavelength: 193.7
Date: 02/19/94 Time: 07:28 Slit: 0.70 L
Data File: AL021994.DAT 1D/Wt File: AL021994.1DW
Technique: HGA Calib. Type: Linear Energy: 51

As ID: cal blk Seq. No.: 00001 A/S Pos.: 0 Date: 02/19/94

As ID: cal blk Seq. No.: 00002 A/S Pos.: 0 Date: 02/19/94

As ID: Std #1 IN-0781 Seq. No.: 00003 A/S Pos.: 40 Date: 02/19/94

Standard number 1 applied. [5.000]
Correlation coefficient: 1.00000 Slope: 0.0031 Int: 0.000

As ID: Std #2 Seq. No.: 00004 A/S Pos.: 40 Date: 02/19/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99438 Slope: 0.0026 Int: 0.001

As ID: Std #3 Seq. No.: 00005 A/S Pos.: 40 Date: 02/19/94

ndard number 3 applied. [20.000]
Correlation coefficient: 0.99337 Slope: 0.0022 Int: 0.002

As ID: Std #4 Seq. No.: 00006 A/S Pos.: 40 Date: 02/19/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99531 Slope: 0.0021 Int: 0.003

As ID: Std #5 Seq. No.: 00007 A/S Pos.: 40 Date: 02/19/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99739 Slope: 0.0020 Int: 0.004

As ID: Std #6 Seq. No.: 00008 A/S Pos.: 40 Date: 02/19/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99851 Slope: 0.0020 Int: 0.004

As ID: ICV-0788 Seq. No.: 00009 A/S Pos.: 37 Date: 02/19/94

ID: ICB Seq. No.: 00010 A/S Pos.: 0 Date: 02/19/94

As ID: CRA-0789 Seq. No.: 00011 A/S Pos.: 36 Date: 02/19/94

	ID: 7XX-JM3192 SS21	Seq. No.: 00012	A/S Pos.: 1	Date: 02/19/94
As	ID: 7XX-JM3192 SS21	Seq. No.: 00013	A/S Pos.: 1	Date: 02/19/94
As	ID: TCLP BLK 3791	Seq. No.: 00014	A/S Pos.: 2	Date: 02/19/94
As	ID: TCLP BLK 3791	Seq. No.: 00015	A/S Pos.: 2	Date: 02/19/94
As	ID: PBL-Q7R3809	Seq. No.: 00016	A/S Pos.: 3	Date: 02/19/94
As	ID: PBL-Q7R3809	Seq. No.: 00017	A/S Pos.: 3	Date: 02/19/94
As	ID: LCSL-Q7R3809	Seq. No.: 00018	A/S Pos.: 4	Date: 02/19/94
As	ID: LCSL-Q7R3809	Seq. No.: 00019	A/S Pos.: 4	Date: 02/19/94
	ID: 7SM-JM3447 MTXS	Seq. No.: 00020	A/S Pos.: 5	Date: 02/19/94
As	ID: 7SD-JM3447 MTXR	Seq. No.: 00021	A/S Pos.: 6	Date: 02/19/94
As	ID: CCV-0787	Seq. No.: 00022	A/S Pos.: 38	Date: 02/19/94
As	ID: CCB	Seq. No.: 00023	A/S Pos.: 0	Date: 02/19/94
As	ID: 7XX-JM3447 CO-2	Seq. No.: 00024	A/S Pos.: 7	Date: 02/19/94
As	ID: 7XX-JM3447 CO-2	Seq. No.: 00025	A/S Pos.: 7	Date: 02/19/94
As	ID: TCLP BLK 3809	Seq. No.: 00026	A/S Pos.: 8	Date: 02/19/94
As	ID: TCLP BLK 3809	Seq. No.: 00027	A/S Pos.: 8	Date: 02/19/94
As	ID: PBW-Q1R3819	Seq. No.: 00028	A/S Pos.: 9	Date: 02/19/94
	ID: PBW-Q1R3819	Seq. No.: 00029	A/S Pos.: 9	Date: 02/19/94

	ID: PBW-Q1R3819	Seq. No.: 00030	A/S Pos.: 9	Date: 02/19/94
As	ID: LCSW-Q1R3819	Seq. No.: 00031	A/S Pos.: 10	Date: 02/19/94
As	ID: LCSW-Q1R3819	Seq. No.: 00032	A/S Pos.: 10	Date: 02/19/94
As	ID: 1SM-JM3503 MTXS	Seq. No.: 00033	A/S Pos.: 11	Date: 02/19/94
As	ID: CCV-0787	Seq. No.: 00034	A/S Pos.: 38	Date: 02/19/94
As	ID: CCV-0787	Seq. No.: 00035	A/S Pos.: 38	Date: 02/19/94
As	ID: CCB	Seq. No.: 00036	A/S Pos.: 0	Date: 02/19/94
As	ID: 1SD-JM3503 MTXR	Seq. No.: 00037	A/S Pos.: 12	Date: 02/19/94
	ID: 1XX-JM3503 EWEB	Seq. No.: 00038	A/S Pos.: 13	Date: 02/19/94
As	ID: 1XX-JM3503 EWEB	Seq. No.: 00039	A/S Pos.: 13	Date: 02/19/94
As	ID: 1XX-JM3503 DUP	Seq. No.: 00040	A/S Pos.: 14	Date: 02/19/94
As	ID: 1XX-JM3503 DUP	Seq. No.: 00041	A/S Pos.: 14	Date: 02/19/94
As	ID: PBS-Q2R3822	Seq. No.: 00042	A/S Pos.: 15	Date: 02/19/94
As	ID: PBS-Q2R3822	Seq. No.: 00043	A/S Pos.: 15	Date: 02/19/94
As	ID: LCSS-Q2R3822	Seq. No.: 00044	A/S Pos.: 16	Date: 02/19/94
As	ID: LCSS-Q2R3822	Seq. No.: 00045	A/S Pos.: 16	Date: 02/19/94
As	ID: 2SM-JM3502 MTXS	Seq. No.: 00046	A/S Pos.: 17	Date: 02/19/94
	ID: CCV-0787	Seq. No.: 00047	A/S Pos.: 38	Date: 02/19/94
As	ID: CCB	Seq. No.: 00048	A/S Pos.: 0	Date: 02/19/94

	ID: 2SD-JM3502 MTXR	Seq. No.: 00049	A/S Pos.: 18	Date: 02/19/94
As	ID: 2XX-JM3502 SB3	Seq. No.: 00050	A/S Pos.: 19	Date: 02/19/94
As	ID: 2XX-JM3502 SB3	Seq. No.: 00051	A/S Pos.: 19	Date: 02/19/94
As	ID: 2XX-JM3502 DUP	Seq. No.: 00052	A/S Pos.: 20	Date: 02/19/94
As	ID: 2XX-JM3502 DUP	Seq. No.: 00053	A/S Pos.: 20	Date: 02/19/94
As	ID: 2XX-JM3500 SB1	Seq. No.: 00054	A/S Pos.: 21	Date: 02/19/94
As	ID: 2XX-JM3500 SB1	Seq. No.: 00055	A/S Pos.: 21	Date: 02/19/94
As	ID: 2XX-JM3501 SB2	Seq. No.: 00056	A/S Pos.: 22	Date: 02/19/94
	ID: 2XX-JM3501 SB2	Seq. No.: 00057	A/S Pos.: 22	Date: 02/19/94
As	ID: CCV-0787	Seq. No.: 00058	A/S Pos.: 38	Date: 02/19/94
As	ID: CCB	Seq. No.: 00059	A/S Pos.: 0	Date: 02/19/94
As	ID: CRA-0789	Seq. No.: 00060	A/S Pos.: 36	Date: 02/19/94

Element File: RAS.GEL
Element: As
Analyst: rls
Print Data: Main+Suppl.
Peak Storage: 1 Repl./Sample
Print: Calib. Curve+Elem. Params.

INSTRUMENT: 4100 ZL
Technique: HGA
Version: 7.20
Wavelength: 193.7 Peak
Slit: 0.70 Low
Signal Type: Zeeman AA
Signal Measurement: Peak Area
Read Time: 3.0
Read Delay: 0.0
BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	cal blk	----------	0	20	5	5	
Standard 1	Std #1 IN-0781	5.00	40	2	23	5	
Standard 2	Std #2	10.00	40	4	21	5	
Standard 3	Std #3	20.00	40	8	17	5	
Standard 4	Std #4	30.00	40	12	13	5	
Standard 5	Std #5	40.00	40	16	9	5	
Standard 6	Std #6	50.00	40	20	5	5	
Samples	----------	----------	--------	20	5	5	

Diluent Location: 0
Modifier #1 Location: 39
Modifier #2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	25	250		Alt
2	130	5	30	250		Alt
3	140	20	20	250		Alt
4	1300	10	20	250		Alt
5	2100	0	3	0	*	Alt
6	2300	1	2	250		Alt

Injection Temp: 20
Pipette Speed: 100%
Extraction System: On

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
5 uL of 100 ug/L Standard at Location 34 Gives 25.00 ug/L
Measure Recovery on Samples: 1-4,7-11,14-17,20-23
Add to QC Samples: No
% Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
	37	ICV-0788	29.5	36.1	X			
	0	ICB			X			
	38	CCV-0787	18.4	22.6		X	X	
4	0	CCB				X	X	
5	36	CRA-0789	7.50	12.5	X		X	

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: No Locations: 3,4
% Recovery for Spike: No Locations: 1,2 Conc: 20 ug/L

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Replicate 1 Time: 08:46
Peak Area (A-s): 0.024 Peak Height (A): 0.067
ckground Pk Area (A-s): 0.020 Background Pk Height (A): 0.028
ank Corrected Pk Area (A-s): 0.022
centration (ug/L): 8.79

uL dispensed: 21 from 0, 5 from 39, 4 from 40
Replicate 2 (Peak Stored) Time: 08:50
Peak Area (A-s): 0.026 Peak Height (A): 0.073
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 9.27

Mean Conc (ug/L): 9.03 SD: 0.340 RSD(%): 3.76

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99807 Slope: 0.0023 Int: 0.000

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Standard number 4 applied. [30.00]
Correlation coefficient: 0.99921 Slope: 0.0022 Int: 0.001

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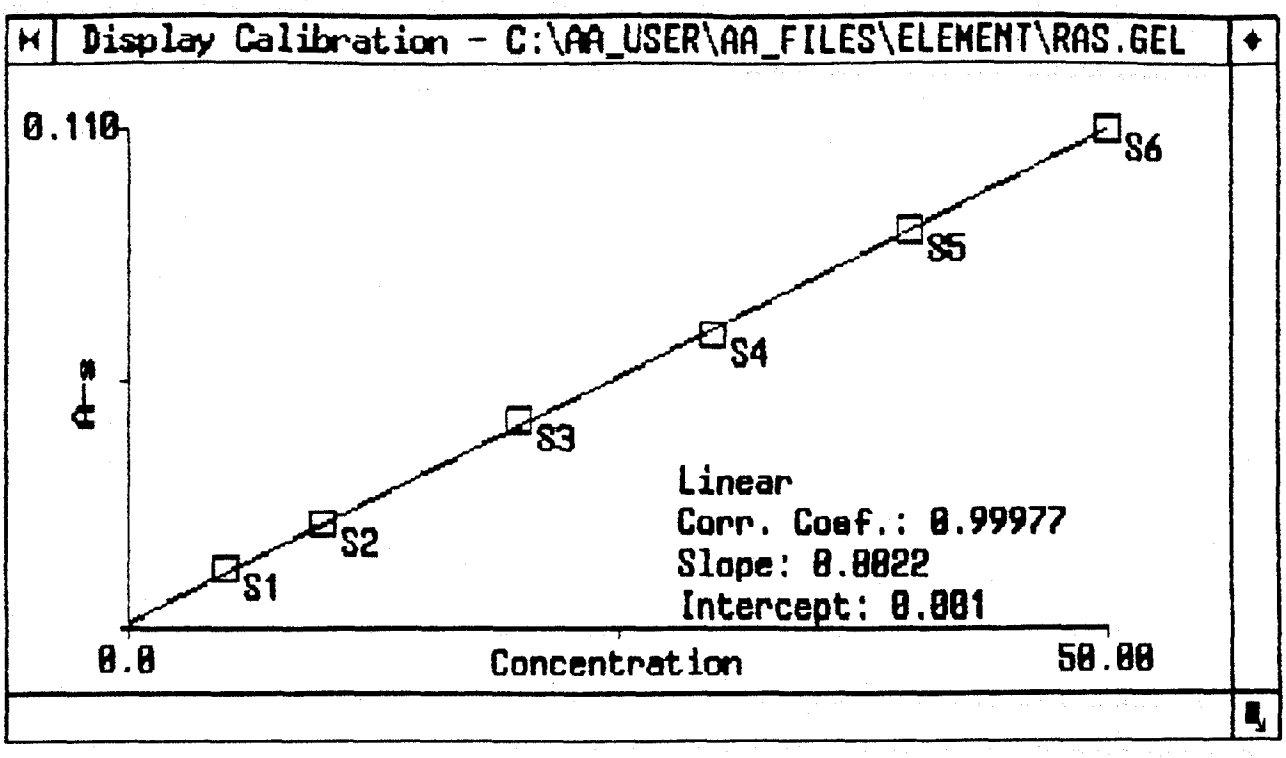
Display Calibration - C:\AA_USER\AA_FILES\ELEMENT\RAS.GEL
0.110
S6
S5
S4
S3
S2
S1
Linear
Corr. Coef.: 0.99977
Slope: 0.0022
Intercept: 0.001
0.0
Concentration
50.00

~~~
~~~

Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.91

Mean Conc (ug/L): -0.97 SD: 0.078 RSD(%): 8.06

QC sample is within range

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uL dispensed: 5 from 39, 5 from 34, 20 from 1
Replicate 2 (Peak Stored) Time: 10:04
ak Area (A-s): 0.061 Peak Height (A): 0.186
ckground Pk Area (A-s): 0.015 Background Pk Height (A): 0.025
ank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 26.63

Mean Conc (ug/L): 26.12 SD: 0.734 RSD(%): 2.81

Recovery is 107.2%

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Concentration (ug/L): 21.76

uL dispensed: 5 from 0, 5 from 39, 20 from 3
Replicate 2 (Peak Stored) Time: 10:25
Peak Area (A-s): 0.048 Peak Height (A): 0.108
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 20.84

Mean Conc (ug/L): 21.30 Q SD: 0.645 RSD(%): 3.03

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uL dispensed: 5 from 39, 5 from 34, 20 from 5
Replicate 2 (Peak Stored) Time: 10:47
Peak Area (A-s): 0.063 Peak Height (A): 0.140
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 27.51

Mean Conc (ug/L): 27.33 SD: 0.253 RSD(%): 0.92

Recovery is 113.5%

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Concentration (ug/L): 22.47

uL dispensed: 5 from 0, 5 from 39, 20 from 38
Replicate 2 (Peak Stored) Time: 11:08
Peak Area (A-s): 0.050 Peak Height (A): 0.110
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 21.58

Mean Conc (ug/L): 22.03 SD: 0.626 RSD(%): 2.84

QC sample is within range 18.4 - 22.6

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Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 25.16

dispensed: 5 from 39, 5 from 34, 20 from 7
Replicate 2 (Peak Stored) Time: 11:28
Peak Area (A-s): 0.059 Peak Height (A): 0.126
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 25.59

Mean Conc (ug/L): 25.37 SD: 0.309 RSD(%): 1.22

Recovery is 107.5%

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Replicate 1 Time: 11:46
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.88

uL dispensed: 5 from 0, 5 from 39, 20 from 9
Replicate 2 (Peak Stored) Time: 11:49
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.64

Mean Conc (ug/L): -0.76 Q SD: 0.174 RSD(%): 22.86

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As ID: 7XX-JM3171 01B Seq. No.: 00031 A/S Pos.: 9 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 9
Replicate 1 Time: 11:53
Peak Area (A-s): 0.060 Peak Height (A): 0.122
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 26.21

uL dispensed: 5 from 39, 5 from 34, 20 from 9
Replicate 2 (Peak Stored) Time: 11:56
Peak Area (A-s): 0.062 Peak Height (A): 0.129
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 27.21

Mean Conc (ug/L): 26.71 SD: 0.705 RSD(%): 2.64

Recovery is 109.9%

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As ID: 7XX-JM3172 SS01 Seq. No.: 00032 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 10
Replicate 1 Time: 11:59
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.72

uL dispensed: 5 from 0, 5 from 39, 20 from 10
Replicate 2 (Peak Stored) Time: 12:03
Peak Area (A-s): -0.000 Peak Height (A): 0.007
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.45

Mean Conc (ug/L): -1.08 Q SD: 0.517 RSD(%): 47.73

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As ID: 7XX-JM3172 SS01 Seq. No.: 00033 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 10
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Replicate 1 Time: 12:06
Peak Area (A-s): 0.059 Peak Height (A): 0.132
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 25.95

uL dispensed: 5 from 39, 5 from 34, 20 from 10
Replicate 2 (Peak Stored) Time: 12:10
Peak Area (A-s): 0.060 Peak Height (A): 0.120
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 26.28

Mean Conc (ug/L): 26.12 SD: 0.235 RSD(%): 0.90

Recovery is 108.8%

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Mean Conc (ug/L): -1.11 SD: 0.756 RSD(%): 68.37

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Concentration (ug/L): -1.87

Mean Conc (ug/L): -1.53 SD: 0.474 RSD(%): 30.88

sample is within range

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Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.92

Mean Conc (ug/L): -0.95 Q SD: 0.036 RSD(%): 3.80

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Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 27.59

Mean Conc (ug/L): 27.91 SD: 0.453 RSD(%): 1.62

Recovery is 116.6% (outside of specified limits)

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Replicate 2 (Peak Stored) Time: 14:10
Peak Area (A-s): 0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.24

Mean Conc (ug/L): -1.28 Q SD: 0.061 RSD(%): 4.74

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uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 2 (Peak Stored) Time: 14:30
k Area (A-s): 0.000 Peak Height (A): 0.008
kground Pk Area (A-s): 0.019 Background Pk Height (A): 0.024
nk Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.28

Mean Conc (ug/L): -0.80 SD: 0.682 RSD(%): 85.08

QC sample is within range

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Concentration (ug/L): 22.38

dispensed: 5 from 0, 5 from 39, 20 from 18
plicate 2 (Peak Stored) Time: 14:51
eak Area (A-s): 0.050 Peak Height (A): 0.119
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 21.43

Mean Conc (ug/L): 21.90 Q SD: 0.673 RSD(%): 3.07

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Concentration (ug/L): 24.11

dispensed: 5 from 0, 5 from 39, 20 from 20
Replicate 2 (Peak Stored) Time: 15:12
Peak Area (A-s): 0.055 Peak Height (A): 0.115
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 23.88

Mean Conc (ug/L): 24.00 SD: 0.160 RSD(%): 0.67

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Concentration (ug/L): -2.07

, dispensed: 5 from 0, 5 from 39, 20 from 22
plicate 2 (Peak Stored) Time: 15:33
ak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.28

Mean Conc (ug/L): -1.18 SD: 1.264 RSD(%): 107.27

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Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.42

dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 2 (Peak Stored) Time: 15:54
Peak Area (A-s): 0.000 Peak Height (A): 0.008
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.32

Mean Conc (ug/L): -0.87 SD: 0.642 RSD(%): 73.85

QC sample is within range

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As ID: 7XX-JM3179 SS08 Seq. No.: 00066 A/S Pos.: 23 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 23
Replicate 1 Time: 15:57
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.45

uL dispensed: 5 from 0, 5 from 39, 20 from 23
Replicate 2 (Peak Stored) Time: 16:01
Peak Area (A-s): 0.000 Peak Height (A): 0.008
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.26

Mean Conc (ug/L): -1.36 Q SD: 0.136 RSD(%): 10.00

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As ID: 7XX-JM3179 SS08 Seq. No.: 00067 A/S Pos.: 23 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 23
Replicate 1 Time: 16:04
Peak Area (A-s): 0.060 Peak Height (A): 0.134
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 26.31

uL dispensed: 5 from 39, 5 from 34, 20 from 23
Replicate 2 (Peak Stored) Time: 16:08
Peak Area (A-s): 0.060 Peak Height (A): 0.134
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 26.29

Mean Conc (ug/L): 26.30 SD: 0.014 RSD(%): 0.05

Recovery is 110.6%

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As ID: 7XX-JM3180 SS09 Seq. No.: 00068 A/S Pos.: 24 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 24
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Replicate 1 Time: 16:11
Peak Area (A-s): 0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.26

uL dispensed: 5 from 0, 5 from 39, 20 from 24
Replicate 2 (Peak Stored) Time: 16:15
Peak Area (A-s): -0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.35

Mean Conc (ug/L): -1.31 Q SD: 0.061 RSD(%): 4.64

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Replicate 1 Time: 16:32
Peak Area (A-s): 0.059 Peak Height (A): 0.130
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 25.69

uL dispensed: 5 from 39, 5 from 34, 20 from 25
Replicate 2 (Peak Stored) Time: 16:36
Peak Area (A-s): 0.062 Peak Height (A): 0.129
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 26.99

Mean Conc (ug/L): 26.34 SD: 0.923 RSD(%): 3.50

Recovery is 109.0%

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Mean Conc (ug/L): 8.94 SD: 0.735 RSD(%): 8.23

sample is within range 7.50 - 12.5

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QC sample is within range 18.4 - 22.6

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Mean Conc (ug/L): -1.17 Q SD: 1.013 RSD(%): 86.78

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Mean Conc (ug/L): 25.49 SD: 0.126 RSD(%): 0.49

Recovery is 109.0%

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As ID: 7XX-JM3184 SS13 Seq. No.: 00089 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 7
Replicate 1 Time: 18:49
Peak Area (A-s): 0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.11

uL dispensed: 5 from 0, 5 from 39, 20 from 7
Replicate 2 (Peak Stored) Time: 18:52
Peak Area (A-s): -0.000 Peak Height (A): 0.008
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.50

Mean Conc (ug/L): -1.31 Q SD: 0.277 RSD(%): 21.14

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As ID: 7XX-JM3184 SS13 Seq. No.: 00090 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 7
Replicate 1 Time: 18:56
Peak Area (A-s): 0.058 Peak Height (A): 0.180
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 25.51

uL dispensed: 5 from 39, 5 from 34, 20 from 7
Replicate 2 (Peak Stored) Time: 18:59
Peak Area (A-s): 0.058 Peak Height (A): 0.175
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 25.33

Mean Conc (ug/L): 25.42 SD: 0.125 RSD(%): 0.49

Recovery is 106.9%

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As ID: 7XX-JM3185 SS14 Seq. No.: 00091 A/S Pos.: 8 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 8
Replicate 1 Time: 19:03
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.01

uL dispensed: 5 from 0, 5 from 39, 20 from 8
Replicate 2 (Peak Stored) Time: 19:06
Peak Area (A-s): 0.000 Peak Height (A): 0.006
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.002
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Concentration (ug/L): -1.26

n Conc (ug/L): -1.13 Q SD: 0.177 RSD(%): 15.57

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Concentration (ug/L): 24.96

n Conc (ug/L): 25.40 SD: 0.613 RSD(%): 2.41

:overy is 105.4%

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Replicate 2 (Peak Stored) Time: 19:47
Peak Area (A-s): 0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.72 W

Mean Conc (ug/L): -0.99 Q SD: 0.376 RSD(%): 38.09

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Concentration (ug/L): 0.24

dispensed: 5 from 0, 5 from 39, 20 from 11
plicate 2 (Peak Stored) Time: 20:08
ak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.46

Mean Conc (ug/L): -0.11 Q SD: 0.495 RSD(%): 433.33

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Concentration (ug/L): 25.64

uL dispensed: 5 from 39, 5 from 34, 20 from 12
Replicate 2 (Peak Stored) Time: 20:29
Peak Area (A-s): 0.061 Peak Height (A): 0.199
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 26.65

Mean Conc (ug/L): 26.14 SD: 0.715 RSD(%): 2.73

Recovery is 108.8%

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Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.59

dispensed: 5 from 0, 5 from 39, 20 from 14
Replicate 2 (Peak Stored) Time: 20:49
Peak Area (A-s): -0.000 Peak Height (A): 0.008
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.40

Mean Conc (ug/L): -1.50 Q SD: 0.132 RSD(%): 8.83

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Replicate 1 Time: 21:06
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.90

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 2 (Peak Stored) Time: 21:09
Peak Area (A-s): 0.001 Peak Height (A): 0.007
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.91

Mean Conc (ug/L): -0.91 SD: 0.005 RSD(%): 0.53

QC sample is within range

As ID: 7XX-JM3192 SS21 Seq. No.: 00110 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 0, 5 from 39, 20 from 15
Replicate 1 Time: 21:13
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.14

uL dispensed: 5 from 0, 5 from 39, 20 from 15
Replicate 2 (Peak Stored) Time: 21:16
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -2.03

Mean Conc (ug/L): -1.09 Q SD: 1.337 RSD(%): 123.16

Rerun 2-19-94 SB

As ID: 7XX-JM3192 SS21 Seq. No.: 00111 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 39, 5 from 34, 20 from 15
Replicate 1 Time: 21:20
Peak Area (A-s): 0.061 Peak Height (A): 0.189
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.059
Concentration (ug/L): 26.59

uL dispensed: 5 from 39, 5 from 34, 20 from 15
Replicate 2 (Peak Stored) Time: 21:23
Peak Area (A-s): 0.064 Peak Height (A): 0.194
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 28.00

Mean Conc (ug/L): 27.30 SD: 0.995 RSD(%): 3.65

Recovery is 113.5%

Element File: RAS.GEL
Element: As
Analyst: rls
Print Data: Main+Suppl.
Peak Storage: 1 Repl./Sample
Print: Calib. Curve+Elem. Params.

INSTRUMENT: 4100 ZL
Technique: HGA
Version: 7.20
Wavelength: 193.7 Peak
Slit: 0.70 Low
Signal Type: Zeeman AA
Signal Measurement: Peak Area
Read Time: 3.0
Read Delay: 0.0
BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	cal blk	----------	0	20	5	5	
Standard 1	Std #1 IN-0781	5.00	40	2	23	5	
Standard 2	Std #2	10.00	40	4	21	5	
Standard 3	Std #3	20.00	40	8	17	5	
Standard 4	Std #4	30.00	40	12	13	5	
Standard 5	Std #5	40.00	40	16	9	5	
Standard 6	Std #6	50.00	40	20	5	5	
Samples	----------	----------	--------	20	5	5	

Diluent Location: 0
Modifier #1 Location: 39
Modifier #2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	25	250		Alt
2	130	5	30	250		Alt
3	140	20	20	250		Alt
4	1300	10	20	250		Alt
5	2100	0	3	0	*	Alt
6	2300	1	2	250		Alt

Injection Temp: 20
Pipette Speed: 100%
Extraction System: On

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
uL of 100 ug/L Standard at Location 34 Gives 25.00 ug/L
Measure Recovery on Samples: 1-4,7-10,13-16,19-22
Add to QC Samples: No
% Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	37	ICV-0788	29.5	36.1	X			
	0	ICB			X			
	38	CCV-0787	18.4	22.6		X	X	
4	0	CCB				X	X	
5	36	CRA-0789	7.50	12.5	X		X	

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: No Locations: 3,4
% Recovery for Spike: No Locations: 1,2 Conc: 20 ug/L

Element File: RAS.GEL Element: As Wavelength: 193.7
Date: 02/19/94 Time: 07:28 Slit: 0.70 L
Data File: AL021994.DAT ID/Wt File: AL021994.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 51

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As ID: cal blk Seq. No.: 00001 A/S Pos.: 0 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Sample abs. is greater than that of the largest standard.
Replicate 1 Time: 07:31
Peak Area (A-s): 0.016 Peak Height (A): 0.047
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 7.95

Contaminated
SB
2-19-94

uL dispensed: 5 from 0, 5 from 39, 20 from 0

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As ID: cal blk Seq. No.: 00002 A/S Pos.: 0 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 1 Time: 07:46
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 1.65

uL dispensed: 5 from 0, 5 from 39, 20 from 0
Replicate 2 (Peak Stored) Time: 07:49
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.71

Mean Conc (ug/L): 0.47 SD: 1.669 RSD(%): 355.53

Auto-zero performed.

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As ID: Std #1 IN-0781 Seq. No.: 00003 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 23 from 0, 5 from 39, 2 from 40
Replicate 1 Time: 07:52
Peak Area (A-s): 0.016 Peak Height (A): 0.058
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 7.41

uL dispensed: 23 from 0, 5 from 39, 2 from 40
Replicate 2 (Peak Stored) Time: 07:56
Peak Area (A-s): 0.017 Peak Height (A): 0.059
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 8.33

Mean Conc (ug/L): 7.87 SD: 0.647 RSD(%): 8.22

Standard number 1 applied. [5.00]
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Correlation coefficient: 1.00000 Slope: 0.0031 Int: -0.000

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Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 28.22

Mean Conc (ug/L): 27.56 SD: 0.930 RSD(%): 3.37

Standard number 4 applied. [30.00]
Correlation coefficient: 0.99531 Slope: 0.0021 Int: 0.003

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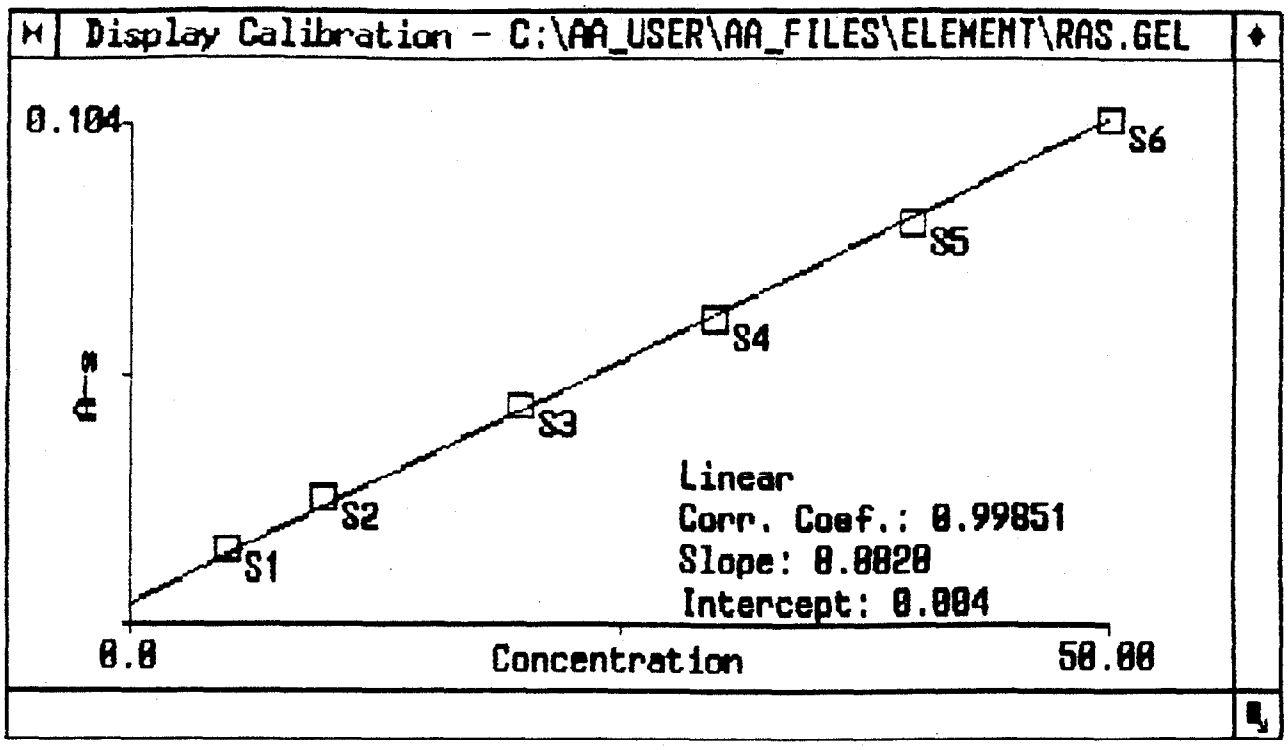
Display Calibration - C:\AA_USER\AA_FILES\ELEMENT\RAS.GEL
0.104
S1
S2
S3
S4
S5
S6
Linear
Corr. Coef.: 0.99851
Slope: 0.0020
Intercept: 0.004
0.0
Concentration
50.00

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Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.99

Mean Conc (ug/L): -1.89 SD: 0.143 RSD(%): 7.61

QC sample is within range

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As ID: CRA-0789 Seq. No.: 00011 A/S Pos.: 36 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 36
Replicate 1 Time: 08:49
Peak Area (A-s): 0.024 Peak Height (A): 0.091
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 9.72

uL dispensed: 5 from 0, 5 from 39, 20 from 36
Replicate 2 (Peak Stored) Time: 08:52
Peak Area (A-s): 0.026 Peak Height (A): 0.090
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.025
Concentration (ug/L): 10.46

Mean Conc (ug/L): 10.09 SD: 0.522 RSD(%): 5.17

QC sample is within range 7.50 - 12.5

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As ID: 7XX-JM3192 SS21 Seq. No.: 00012 A/S Pos.: 1 Date: 02/19/94

uL dispensed: 5 from 0, 5 from 39, 20 from 1
Replicate 1 Time: 08:56
Peak Area (A-s): 0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -1.32

uL dispensed: 5 from 0, 5 from 39, 20 from 1
Replicate 2 (Peak Stored) Time: 08:59
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.91

Mean Conc (ug/L): -1.62 Q SD: 0.420 RSD(%): 25.97

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As ID: 7XX-JM3192 SS21 Seq. No.: 00013 A/S Pos.: 1 Date: 02/19/94

uL dispensed: 5 from 39, 5 from 34, 20 from 1
Replicate 1 Time: 09:03
Peak Area (A-s): 0.058 Peak Height (A): 0.205
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 26.33
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uL dispensed: 5 from 39, 5 from 34, 20 from 1
Replicate 2 (Peak Stored) Time: 09:06
Peak Area (A-s): 0.057 Peak Height (A): 0.191
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 25.79

Mean Conc (ug/L): 26.06 SD: 0.382 RSD(%): 1.46

Recovery is 110.7%

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Concentration (ug/L): -1.68

uL dispensed: 5 from 0, 5 from 39, 20 from 3
plicate 2 (Peak Stored) Time: 09:28
ak Area (A-s): 0.001 Peak Height (A): 0.008
ckground Pk Area (A-s): 0.015 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -1.75

Mean Conc (ug/L): -1.71 SD: 0.049 RSD(%): 2.84

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Concentration (ug/L): 46.04

uL dispensed: 5 from 39, 5 from 34, 20 from 4
Replicate 2 (Peak Stored) Time: 09:49
Peak Area (A-s): 0.097 Peak Height (A): 0.360
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 45.75

Mean Conc (ug/L): 45.89 SD: 0.201 RSD(%): 0.44

Recovery is 101.0%

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Concentration (ug/L): 20.45

uL dispensed: 5 from 0, 5 from 39, 20 from 38
licate 2 (Peak Stored) Time: 10:10
k Area (A-s): 0.046 Peak Height (A): 0.127
ackground Pk Area (A-s): 0.021 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 20.68

Mean Conc (ug/L): 20.56 SD: 0.162 RSD(%): 0.79

QC sample is within range 18.4 - 22.6

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AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94 Method: 7421 Analyst: SBB

Calibration STD: IN0785 Modifier: Mixed

Correlation: 0.99852 Slope: 0.0057 Int: 0.009

Data File: AC22194 Gases: Argon / 5% Hydrogen Argon

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
1	CAL BLK	0 ppb Pb			
2	STD 1	4.0 ppb Pb			
3	STD 2	10.0 ppb Pb			
4	STD 3	20.0 ppb Pb			
5	STD 4	30.0 ppb Pb			
6	STD 5	40.0 ppb Pb			
7	STD 6	50.0 ppb Pb			
8	ICV	pass			
9	ICB	↓			
10	CRA	↓			
11	N7R3773R	—	MET BLK	N7R3773	1x
12	↓	↓	↓	↓	↓ post spike
13	N7R3773RS	↓	MET SPK	↓	↓
14	~~Jm3178RS~~ SB 2-22-94	↓	↓	↓	↓ post spike
15	Jm3178RS	15226N	MTX SPK CLJ-CSS-07	↓	↓
16	Jm 3178RR	↓	MTX SPK REP CLJ-CSS-07	↓	↓
SB 2-22-94 ~~17~~ 18	Jm 3178RR	↓	↓	↓	↓
~~18~~ 19	Jm 3178R	↓	CLJ-CSS-07	↓	↓
~~19~~ 20	Jm 3178R	↓	↓	↓	↓ SB 2-22-94 ~~post~~
~~20~~ 21	Jm3178R	↓	↓	↓	↓ post-spike
~~21~~ 22	CCV	Aborted			
~~22~~ 23	CCV	pass			

COMMENTS/MAINTENANCE:

No sequence run #17.

AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94 cont. Method: _____ Analyst: SBB

Calibration STD: _____ Modifier: _____

Correlation: _____ Slope: _____ Int: _____

Data File: A022194 Gases: Argon / 5% Hydrogen Argon

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
24	CCB	pass			
25	JM3178R	15226N	CL5-CSS-07	N7R3773	1x
26	↓		↓		post-sp
27	JM3178R		DUPLICATE CL5-CSS-07		
28					post
SB 2-22-94 ~~29~~ 30					
~~30~~ 31					post sp
~~31~~ 32	↓	↓	↓	↓	post sp
~~32~~ 33	JM3169R	Aborted			
~~33~~ 34	JM3170R	↓			
~~34~~ 35	CAL BLANK				
36	STD 1				
37	STD 2				
38	STD 3				
39	STD 4				
40	STD 5				
41	STD 6				
42	STD 4				
43	STD L				
44	CAL BLANK				
45	STD 1				
46	STD 2				

COMMENTS/MAINTENANCE:

No Sequence Run #29

AA Daily Run Log -- Perkin Elmer 5100

Page: 003

Date: 02/21/94 Method: _____ Analyst: SBB

Calibration STD: ~~IN~~ 0785 Modifier: ~~0 CT 3~~ 17.xe.4 SB 2.22

Correlation: 0.99731 Slope: 0.0062 Int: ~~24.0~~ 3.22 0

Data File: A022194 Gases: Argon / 5% Hydrogen Argon

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
47	STD 3				
48	STD 4				
49	STD 5				
50	STD 6				
51	ICV	pass			
52	ICB	pass			
53	CRA	fail, rerun			
54	CRA	pass			
55	JM3178R	15226N	CLS-CSS-07	N7R3773	1X
56	↓	↓	↓	↓	↓ PS
57	JM3178R		DUPLICATE CLS CSS-07		
58	SB2-22-94 ~~JM~~ ↓		↓		PS
59	JM3170R		CLS-CS C1A		
60	↓		↓		P
61	JM3172R		CLS-CSS-01		
62	↓		↓		P
63	JM3173R		CLS-CSS 02		
64	↓	↓	↓	↓	↓ PS
65	CCV	pass			
66	CCB	pass			
67	JM3174R	15226N	CLS-CSS-03	N7R3773	1X
68	↓	↓	↓	↓	↓ PS

COMMENTS/MAINTENANCE:

AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94 cont. Method: _____ Analyst: SBB

Calibration STD: _____ Modifier: _____

Correlation: _____ Slope: _____ Int: _____

Data File: A022194 Gases: Argon / 5% Hydrogen Argon

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions	
69	JM3175R	15226N	CLJ-CSS-04	N7R3773	1x	
70	↓	↓	↓	↓	↓	p.s.
71	JM3176R		CLJ-CSS-05			
72	↓	↓	↓	↓	↓	p.s
73	JM3177R		CLJ-CSS-06			
74	↓	↓	↓	↓	↓	p.s
75	TCLP BLK	—	2-9-94			
76	↓	↓	↓	↓	↓	ps
77	CCV	pass				
78	CCB	pass				
79	N7R3791R	—	MET BLK	N7R3791	1x	
80	↓	↓	↓	↓	↓	p s
81	N7R3791RS	—	MET-SPK			
82	↓	↓	↓	↓	↓	p.s
83	JM3193RS	15226N	MTX SPK CLJ-CSS-22			
84	JM3193RR	↓	MTX SPK REP CLJ-CSS-22	↓	↓	
85	JM3193R	↓	CLJ-CSS-22	↓	↓	
86	↓	↓	↓	↓	↓	p.s
87	JM3193R	↓	DUPLICATE CLJ-CSS-22	↓	↓	
88	↓	↓	↓	↓	↓	p.s
89	CCV	pass				
90	CCB	pass				

COMMENTS/MAINTENANCE:

AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94 cont. Method: _____ Analyst: SBB

Calibration STD: _____ Modifier: _____

Correlation: _____ Slope: _____ Int: _____

Data File: A022194 Gases: Argon / 5% Hydrogen Argon

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
91	JM3184R	15226N	CLJ-CSS-13	N7R3791	1x
92	↓	↓	↓	↓	↓ ps
93	JM3185R	↓	CLJ-CSS-14	↓	↓
94	↓	↓	↓	↓	↓ ps
95	JM3186R	↓	CLJ-CSS-15	↓	↓
96	↓	↓	↓	↓	↓ ps
97	CCV	pass			
98	CCB	pass			
99	JM3189R	19226N	CLJ-CSS-18	N7R3791	1x
100	↓	↓	↓	↓	↓ ps
101	JM3190R	↓	CLJ-CSS-19	↓	↓
102	CCV	pass			
103	CCB	pass			
104	JM3187R	15226N	CLJ-CSS-16	N7R3791	1x
105	↓	↓	↓	↓	↓ ps
106	JM3189R	↓	CLJ-CSS-18	↓	↓
107	↓	↓	↓	↓	↓ ps
108	↓	↓	↓	↓	↓
109	↓	↓	↓	↓	↓ ps
110	JM3190R	↓	CLJ-CSS-19	↓	↓
111	↓	↓	↓	↓	↓ ps
112	JM3191R	↓	CLJ-CSS-20	↓	↓

COMMENTS/MAINTENANCE:

AA Daily Run Log -- Perkin Elmer 5100

Page: 006

Date: 02/21/94 Method: _____ Analyst: SBB

Calibration STD: _____ Modifier: _____

Correlation: _____ Slope: _____ Int: _____

Data File: A022194 Gases: Argon / 5% Hydrogen Argon

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
113	JM3191R	15226N	CLJ-CSS-20	N7R3791	1x p.s
114	CCV	aborted			
115	CCV	fail, rerun			
116	CCV	pass			
117	CCB	pass			
118	JM3192R	15226N	CLJ-CSS-21	N7R3791	1x
119	↓	↓	↓	↓	ps
120	TCLP BLK	—	2-14-94	↓	↓
121	↓	↓	↓	↓	ps
122	N7R3777R	—	MET BLK	N7R3777	1x
123	↓	↓	↓	↓	ps
124	N7R3777RS	↓	MET SPK	↓	↓
125	↓	↓	↓	↓	ps
126	JM3183RS	15226N	MTX SPK CLJ-CSS-12	↓	↓
127	JM3183RR	↓	MTX SPK REP CLJ-CSS-12	↓	↓
128	CCV				
129	CCB				
130	JM3183R	15226N	CLJ-CSS-12	N7R3777	1x
131	↓	↓	↓	↓	ps
132	JM3183R	↓	DUPLICATE CLJ-CSS-12	↓	↓
133	↓	↓	↓	↓	ps
134	JM3179R	↓	CLJ-CSS-08	↓	↓

COMMENTS/MAINTENANCE:

AA Daily Run Log -- Perkin Elmer 5100

Date: 02/21/94 Method: _____ Analyst: SBB

Calibration STD: _____ Modifier: _____

Correlation: _____ Slope: _____ Int: _____

Data File: A022194 Gases: Argon / 5% Hydrogen Argon

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
135	JM3179R	15226N	CLJ-CSS-08	N7R3777	1x p.s
136	JM3180R	↓	CLJ-CSS-09	↓	↓
137	↓	↓	↓	↓	ps
138	JM3181R	↓	CLJ-CSS-10	↓	↓
139	↓	↓	↓	↓	↓ ps
140	CCV	pass			
141	CCB	pass			
142	JM3182R	15226N	CLJ-CSS-11	N7R3777	1x
143	↓	↓	↓	↓	↓ ps
144	JM3189R	↓	CLJ-CSS-18	N7R3791	2x
145	↓	↓	↓	↓	↓ p.s
146	CCV	pass			
147	CCB	pass			
148	CRA	—			
			Susan Rutzo		2-26-94

COMMENTS/MAINTENANCE:

Analytical Report Date: 02/23/94

Element File: PBDK.GEL
Date: 02/22/94
Data File: A022294.DAT
Technique: HGA

Element: Pb
Time: 08:14
ID/Wt File: B022194.IDW
Calib. Type: Linear

Wavelength: 283.3
Slit: 0.70 L
Energy: 62

Pb ID: CAL BLK Seq. No.: 00001 A/S Pos.: 0 Date: 02/22/94

Pb ID: STD 1 IN0785 Seq. No.: 00002 A/S Pos.: 40 Date: 02/22/94

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000 Slope: 0.0083 Int: 0.000

Pb ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/22/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99675 Slope: 0.0070 Int: 0.002

Pb ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/22/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99713 Slope: 0.0062 Int: 0.005

Pb ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/22/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99810 Slope: 0.0059 Int: 0.006

Pb ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 02/22/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99845 Slope: 0.0057 Int: 0.008

Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/22/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99823 Slope: 0.0056 Int: 0.010

Pb ID: ICV-0791 Seq. No.: 00008 A/S Pos.: 37 Date: 02/22/94

Pb ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 02/22/94

Pb ID: CRA-0792 Seq. No.: 00010 A/S Pos.: 36 Date: 02/22/94

Pb ID: 7XX-JM3182 SS11 Seq. No.: 00011 A/S Pos.: 16 Date: 02/22/94

Analytical Report Date: 02/23/94

Pb	ID: 7XX-JM3182 SS11	Seq. No.: 00012	A/S Pos.: 16	Date: 02/22/94
Pb	ID: CCV-0790	Seq. No.: 00013	A/S Pos.: 38	Date: 02/22/94
Pb	ID: CCB	Seq. No.: 00014	A/S Pos.: 0	Date: 02/22/94

Element File: PBDK.GEL
Date: 02/22/94
Data File: A022294.DAT
Technique: HGA

Element: Pb
Time: 10:03
ID/Wt File: B022194.IDW
Calib. Type: Linear

Wavelength: 283.3
Slit: 0.70 L
Energy: 62

Pb	ID: PBL-Q7R3823	Seq. No.: 00015	A/S Pos.: 1	Date: 02/22/94
Pb	ID: PBL-Q7R3823	Seq. No.: 00016	A/S Pos.: 1	Date: 02/22/94
Pb	ID: LCSL-Q7R3823	Seq. No.: 00017	A/S Pos.: 2	Date: 02/22/94
Pb	ID: LCSL-Q7R3823	Seq. No.: 00018	A/S Pos.: 2	Date: 02/22/94
Pb	ID: 7SM-JM3473 MTXS	Seq. No.: 00019	A/S Pos.: 3	Date: 02/22/94
Pb	ID: 7SD-JM3473 MTXR	Seq. No.: 00020	A/S Pos.: 4	Date: 02/22/94
Pb	ID: 7XX-JM3473 0102	Seq. No.: 00021	A/S Pos.: 5	Date: 02/22/94
Pb	ID: 7XX-JM3473 0102	Seq. No.: 00022	A/S Pos.: 5	Date: 02/22/94
Pb	ID: 7XX-JM3473 DUP	Seq. No.: 00023	A/S Pos.: 6	Date: 02/22/94
Pb	ID: 7XX-JM3473 DUP	Seq. No.: 00024	A/S Pos.: 6	Date: 02/22/94
Pb	ID: CCV-0790	Seq. No.: 00025	A/S Pos.: 38	Date: 02/22/94
Pb	ID: CCB	Seq. No.: 00026	A/S Pos.: 0	Date: 02/22/94
Pb	ID: PBL-Q7R3809	Seq. No.: 00027	A/S Pos.: 7	Date: 02/22/94

Element File: PBDK.GEL
Element: Pb
Print Data: Main+Suppl.
Print: Calib. Curve+Elem. Params.

Analyst: RLS
Peak Storage: 1 Repl./Sample

INSTRUMENT: 5100
Wavelength: 283.3 Peak
Signal Type: Zeeman AA
Read Time: 7.0
Sample Replicates: 2
Standard Replicates: 2

Technique: HGA
Slit: 0.7 Low
Signal Measurement: Peak Area
Read Delay: 0.0
Spike Replicates: Same as Sample

Version: 7.10
BOC Time: 2

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	CAL BLK	----------	0	25	10	5	
Standard 1	STD 1 IN0785	4.0	40	2	10	5	
Standard 2	STD 2	10.0	40	5	10	5	
Standard 3	STD 3	20.0	40	10	10	5	
Standard 4	STD 4	30.0	40	15	10	5	
Standard 5	STD 5	40.0	40	20	10	5	
Standard 6	STD 6	50.0	40	25	10	5	
Samples	----------	----------	--------	25	10	5	

Diluent Location: 0
Modifier #1 Location: 39
Calibration Units: ug/L
Calibration Type: Linear

Modifier #2 Location:
Sample Units: ug/L

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	10	30	300		Alt
2	150	5	10	300		Alt
3	600	10	40	300		Alt
4	20	1	10	300		Alt
5	1750	0	5	0	*	Alt
6	2500	1	5	300		Alt

Injection Temp: 20 Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet modifier 1 + diluent + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4.0 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
10 uL of 50 ug/L Standard at Location 40 Gives 20.0 ug/L
Measure Recovery on Samples: 1-2,5-16,19-29
Add to QC Samples: No % Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	37	ICV-0791	31.8	38.8	X			
2	0	ICB			X			
3	38	CCV-0790	19.1	23.3		X	X	
4	0	CCB				X	X	
5	36	CRA-0792	2.25	3.75	X		X	

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: No Locations: 1,2
% Recovery for Spike: No Locations: 3,4 Conc: 20 ug/L

SB

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Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -2.4

Mean Conc (ug/L): -2.2 SD: 0.28 RSD(%): 12.65

Auto-zero performed.

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Blank Corrected Pk Area (A-s): 0.130
Concentration (ug/L): 18.9

uL dispensed: 5 from 39, 10 from 0, 10 from 40
Replicate 2 (Peak Stored) Time: 07:18
Peak Area (A-s): 0.133 Peak Height (A): 0.222
Background Pk Area (A-s): 0.203 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.129
Concentration (ug/L): 18.7

Mean Conc (ug/L): 18.8 SD: 0.16 RSD(%): 0.86

Standard number 3 applied. [20.0]
Correlation coefficient: 0.99831 Slope: 0.0064 Int: 0.004

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Background Pk Area (A-s): 0.423 Background Pk Height (A): 0.110
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 34.0

Mean Conc (ug/L): 34.6 SD: 0.96 RSD(%): 2.77

QC sample is within range 31.8 - 38.8

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uL dispensed: 5 from 39, 10 from 0, 25 from 1
Replicate 2 (Peak Stored) Time: 08:07
Peak Area (A-s): 0.000 Peak Height (A): 0.006
Background Pk Area (A-s): 0.149 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -2.3

Mean Conc (ug/L): -2.2 Q SD: 0.07 RSD(%): 3.16

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uL dispensed: 5 from 39, 10 from 40, 25 from 2
Replicate 2 (Peak Stored) Time: 08:27
Peak Area (A-s): 0.231 Peak Height (A): 0.367
Background Pk Area (A-s): 0.244 Background Pk Height (A): 0.107
Blank Corrected Pk Area (A-s): 0.226
Concentration (ug/L): 37.9

Mean Conc (ug/L): 37.4 SD: 0.65 RSD(%): 1.75

Recovery is 88.1%

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uL dispensed: 5 from 39, 10 from 0, 25 from 4
Replicate 2 (Peak Stored) Time: 08:49
Peak Area (A-s): 0.160 Peak Height (A): 0.276
Background Pk Area (A-s): 0.686 Background Pk Height (A): 0.414
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 25.5

Mean Conc (ug/L): 27.5Q SD: 2.78 RSD(%): 10.10

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Peak Area (A-s): 0.158 Peak Height (A): 0.312
Background Pk Area (A-s): 0.621 Background Pk Height (A): 0.378
Blank Corrected Pk Area (A-s): 0.154
Concentration (ug/L): 25.2

Mean Conc (ug/L): 23.6 SD: 2.22 RSD(%): 9.38

Recovery is 73.7% (outside of specified limits)

NO INJECTION Autosampler Dropped 2-21-94

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Pb ID: CCV-0790 Seq. No.: 00022 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38

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Pb ID: CCV-0790 Seq. No.: 00023 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 1 Time: 09:16
Peak Area (A-s): 0.139 Peak Height (A): 0.249
Background Pk Area (A-s): 0.425 Background Pk Height (A): 0.120
Blank Corrected Pk Area (A-s): 0.135
Concentration (ug/L): 21.9

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 09:20
Peak Area (A-s): 0.138 Peak Height (A): 0.249
Background Pk Area (A-s): 0.421 Background Pk Height (A): 0.120
Blank Corrected Pk Area (A-s): 0.134
Concentration (ug/L): 21.8

Mean Conc (ug/L): 21.8 SD: 0.10 RSD(%): 0.44

QC sample is within range 19.1 - 23.3

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Pb ID: CCB Seq. No.: 00024 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 1 Time: 09:23
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.7

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 09:26
Peak Area (A-s): 0.003 Peak Height (A): 0.006
Background Pk Area (A-s): 0.137 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.9

Mean Conc (ug/L): -1.8 SD: 0.10 RSD(%): 5.76

QC sample is within range

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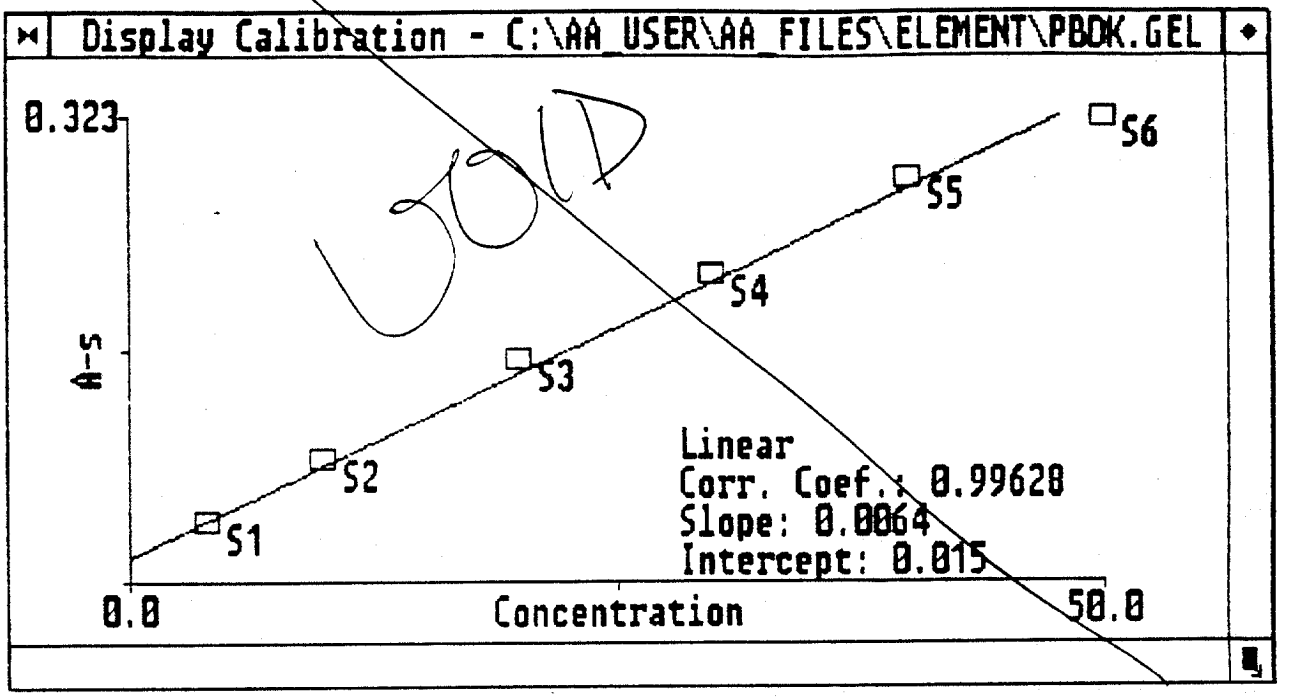
Pb ID: 7XX-JM3178 SS07 Seq. No.: 00025 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5

uL dispensed: 5 from 39, 10 from 0, 25 from 40
Replicate 2 (Peak Stored) Time: 11:32
Peak Area (A-s): 0.323 Peak Height (A): 0.502
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.321
Concentration (ug/L): 46.9

Mean Conc (ug/L): 47.3 SD: 0.61 RSD(%): 1.29

Standard number 6 applied. [50.0]
Correlation coefficient: 0.99628 Slope: 0.0064 Int: 0.015



Recalibrated
SB
2-21-94

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Concentration (ug/L): 18.4

Mean Conc (ug/L): 18.5 SD: 0.07 RSD(%): 0.41

Standard number 3 applied. [20.0]
Correlation coefficient: 0.99720 Slope: 0.0070 Int: 0.005

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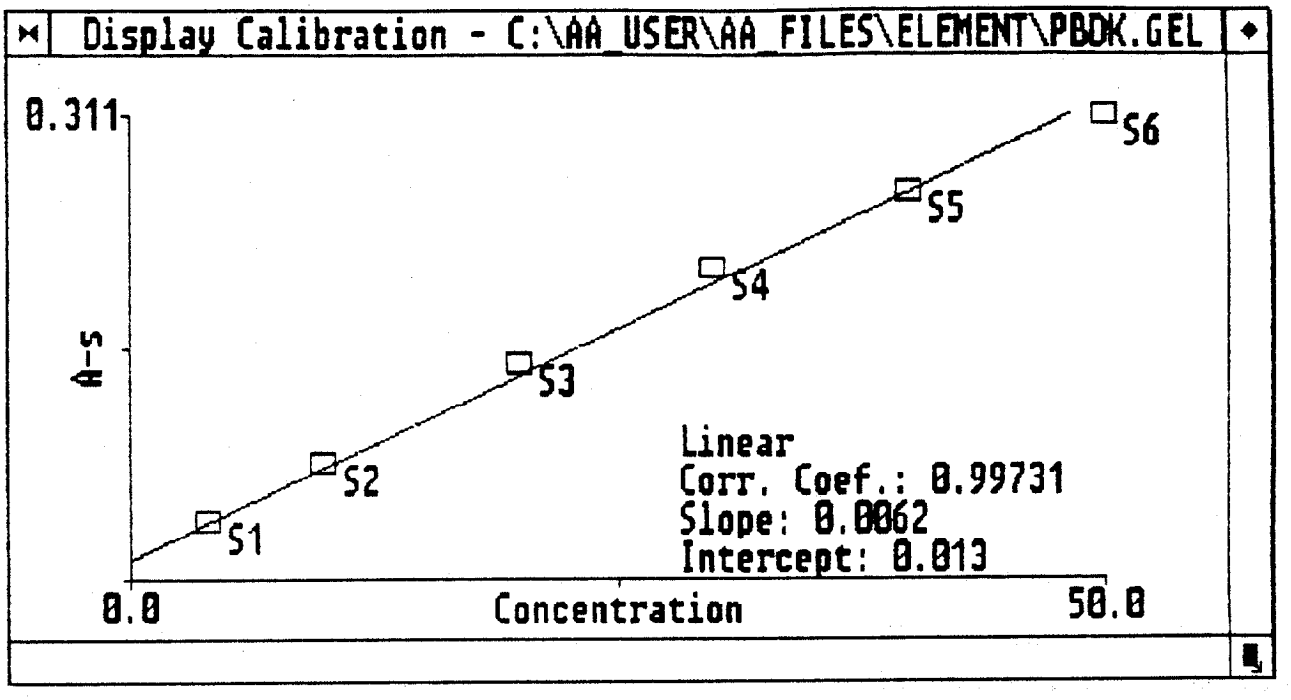
Concentration (ug/L): 46.6

uL dispensed: 5 from 39, 10 from 0, 25 from 40
Replicate 2 (Peak Stored) Time: 12:20
Peak Area (A-s): 0.315 Peak Height (A): 0.501
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.150
Blank Corrected Pk Area (A-s): 0.313
Concentration (ug/L): 47.0

Mean Conc (ug/L): 46.8 SD: 0.27 RSD(%): 0.59

Standard number 6 applied. [50.0]
Correlation coefficient: 0.99731 Slope: 0.0062 Int: 0.013

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Mean Conc (ug/L): 3.0 SD: 0.11 RSD(%): 3.57

QC sample is within range 2.25 - 3.75

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Concentration (ug/L): 9.3

Mean Conc (ug/L): 9.5 Q SD: 0.35 RSD(%): 3.63

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Blank Corrected Pk Area (A-s): 0.205
Concentration (ug/L): 31.2 Corrected Conc (ug/L): 312.

Mean Conc (ug/L): 31.4 SD: 0.22 RSD(%): 0.69
Corrected Conc (ug/L): 314.

Recovery is 90.2%

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Replicate 2 (Peak Stored) Time: 13:52
Peak Area (A-s): 0.026 Peak Height (A): 0.051
Background Pk Area (A-s): 0.969 Background Pk Height (A): 0.351
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 1.7

Mean Conc (ug/L): 1.9 Q SD: 0.24 RSD(%): 12.35

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uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 14:12
Peak Area (A-s): 0.004 Peak Height (A): 0.008
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.7

Mean Conc (ug/L): -1.6 SD: 0.08 RSD(%): 5.10

QC sample is within range

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Concentration (ug/L): 1.1

uL dispensed: 5 from 39, 10 from 0, 25 from 11
Replicate 2 (Peak Stored) Time: 14:31
Peak Area (A-s): 0.021 Peak Height (A): 0.039
Background Pk Area (A-s): 0.874 Background Pk Height (A): 0.344
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 1.0

Mean Conc (ug/L): 1.0 Q SD: 0.11 RSD(%): 10.49

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Concentration (ug/L): 22.0

uL dispensed: 5 from 39, 10 from 40, 25 from 12
Replicate 2 (Peak Stored) Time: 14:51
Peak Area (A-s): 0.150 Peak Height (A): 0.309
Background Pk Area (A-s): 1.006 Background Pk Height (A): 0.342
Blank Corrected Pk Area (A-s): 0.147
Concentration (ug/L): 21.8

Mean Conc (ug/L): 21.9 SD: 0.11 RSD(%): 0.50

Recovery is 88.6%

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Background Pk Area (A-s): 0.709 Background Pk Height (A): 0.314
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.8

uL dispensed: 5 from 39, 10 from 0, 25 from 14
Replicate 2 (Peak Stored) Time: 15:10
Peak Area (A-s): 0.004 Peak Height (A): 0.008
Background Pk Area (A-s): 0.699 Background Pk Height (A): 0.312
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.8

Mean Conc (ug/L): -1.8 Q SD: 0.01 RSD(%): 0.45

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Replicate 1 Time: 15:27
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -1.8

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 15:30
Peak Area (A-s): 0.005 Peak Height (A): 0.009
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -1.6

Mean Conc (ug/L): -1.7 SD: 0.17 RSD(%): 9.77

QC sample is within range

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SB

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SB

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QC sample is within range 19.1 - 23.3

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Mean Conc (ug/L): 24.1 SD: 2.29 RSD(%): 9.48

Recovery is 88.2%

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Pb ID: 7XX-JM3185 SS14 Seq. No.: 00093 A/S Pos.: 22 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 22
Replicate 1 Time: 17:06
Peak Area (A-s): 0.029 Peak Height (A): 0.064
Background Pk Area (A-s): 0.802 Background Pk Height (A): 0.449
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 2.3

uL dispensed: 5 from 39, 10 from 0, 25 from 22
Replicate 2 (Peak Stored) Time: 17:10
Peak Area (A-s): 0.032 Peak Height (A): 0.062
Background Pk Area (A-s): 0.808 Background Pk Height (A): 0.316
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 2.8

Mean Conc (ug/L): 2.6 SD: 0.33 RSD(%): 13.05

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Pb ID: 7XX-JM3185 SS14 Seq. No.: 00094 A/S Pos.: 22 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 22
Replicate 1 Time: 17:13
Peak Area (A-s): 0.126 Peak Height (A): 0.260
Background Pk Area (A-s): 0.811 Background Pk Height (A): 0.486
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 18.0

uL dispensed: 5 from 39, 10 from 40, 25 from 22
Replicate 2 (Peak Stored) Time: 17:17
Peak Area (A-s): 0.139 Peak Height (A): 0.275
Background Pk Area (A-s): 0.842 Background Pk Height (A): 0.385
Blank Corrected Pk Area (A-s): 0.137
Concentration (ug/L): 20.1

Mean Conc (ug/L): 19.0 SD: 1.45 RSD(%): 7.61

Recovery is 82.5% (outside of specified limits)

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Pb ID: 7XX-JM3186 SS15 Seq. No.: 00095 A/S Pos.: 23 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 23
Replicate 1 Time: 17:20
Peak Area (A-s): 0.049 Peak Height (A): 0.098
Background Pk Area (A-s): 0.831 Background Pk Height (A): 0.430
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 5.6

uL dispensed: 5 from 39, 10 from 0, 25 from 23
Replicate 2 (Peak Stored) Time: 17:23
Peak Area (A-s): 0.047 Peak Height (A): 0.098
Background Pk Area (A-s): 0.844 Background Pk Height (A): 0.396
Blank Corrected Pk Area (A-s): 0.044
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Concentration (ug/L): 5.1

Mean Conc (ug/L): 5.3 SD: 0.28 RSD(%): 5.32

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Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -1.6

Mean Conc (ug/L): -1.4 SD: 0.21 RSD(%): 14.53

QC sample is within range

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Pb ID: 7XX-JM3189 SS18 Seq. No.: 00099 A/S Pos.: 1 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 1
Replicate 1 Time: 17:53
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -2.1

uL dispensed: 5 from 39, 10 from 0, 25 from 1
Replicate 2 (Peak Stored) Time: 17:56
Peak Area (A-s): 0.003 Peak Height (A): 0.006
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -1.9

Mean Conc (ug/L): -2.0 SD: 0.14 RSD(%): 6.81

SB 2-21-94 Sample was not in position Rerun

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Pb ID: 7XX-JM3189 SS18 Seq. No.: 00100 A/S Pos.: 1 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 1
Replicate 1 Time: 17:59
Peak Area (A-s): 0.211 Peak Height (A): 0.423
Background Pk Area (A-s): 0.917 Background Pk Height (A): 0.444
Blank Corrected Pk Area (A-s): 0.209
Concentration (ug/L): 31.8

uL dispensed: 5 from 39, 10 from 40, 25 from 1
Replicate 2 (Peak Stored) Time: 18:03
Peak Area (A-s): 0.197 Peak Height (A): 0.343
Background Pk Area (A-s): 1.010 Background Pk Height (A): 0.687
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 29.5

Mean Conc (ug/L): 30.6 SD: 1.63 RSD(%): 5.32

Recovery is 163.3% (outside of specified limits)

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Pb ID: 7XX-JM3190 SS19 Seq. No.: 00101 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2 NO INJECTION SB 2-21-94

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Pb ID: CCV-0790 Seq. No.: 00102 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 1 Time: 18:07
Peak Area (A-s): 0.135 Peak Height (A): 0.248
Background Pk Area (A-s): 0.136 Background Pk Height (A): 0.072

Blank Corrected Pk Area (A-s): 0.132
Concentration (ug/L): 19.4

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 18:10
Peak Area (A-s): 0.148 Peak Height (A): 0.291
Background Pk Area (A-s): 0.221 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 21.6

Mean Conc (ug/L): 20.5 SD: 1.52 RSD(%): 7.44

QC sample is within range 19.1 - 23.3

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Peak Area (A-s): 0.123 Peak Height (A): 0.251
Background Pk Area (A-s): 0.971 Background Pk Height (A): 0.329
Blank Corrected Pk Area (A-s): 0.121
Concentration (ug/L): 17.6

uL dispensed: 5 from 39, 10 from 40, 25 from 1
Replicate 2 (Peak Stored) Time: 18:31
Peak Area (A-s): 0.126 Peak Height (A): 0.248
Background Pk Area (A-s): 0.977 Background Pk Height (A): 0.355
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 18.1

Mean Conc (ug/L): 17.8 SD: 0.35 RSD(%): 1.95

Recovery is 87.8%

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Pb ID: 7XX-JM3189 SS18 Seq. No.: 00106 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2
Replicate 1 Time: 18:34
Peak Area (A-s): 0.115 Peak Height (A): 0.227
Background Pk Area (A-s): 1.020 Background Pk Height (A): 0.398
Blank Corrected Pk Area (A-s): 0.113
Concentration (ug/L): 16.2

uL dispensed: 5 from 39, 10 from 0, 25 from 2
Replicate 2 (Peak Stored) Time: 18:38
Peak Area (A-s): 0.116 Peak Height (A): 0.228
Background Pk Area (A-s): 1.001 Background Pk Height (A): 0.346
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 16.4

Mean Conc (ug/L): 16.3 SD: 0.14 RSD(%): 0.88

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Pb ID: 7XX-JM3189 SS18 Seq. No.: 00107 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 2
Replicate 1 Time: 18:41
Peak Area (A-s): 0.211 Peak Height (A): 0.393
Background Pk Area (A-s): 1.056 Background Pk Height (A): 0.475
Blank Corrected Pk Area (A-s): 0.209
Concentration (ug/L): 31.8

capillary action in tube Rerun

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Pb ID: 7XX-JM3189 SS18 Seq. No.: 00108 A/S Pos.: 2 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 2
Replicate 1 Time: 18:45
Peak Area (A-s): 0.118 Peak Height (A): 0.229
Background Pk Area (A-s): 0.898 Background Pk Height (A): 0.384
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 16.7

uL dispensed: 5 from 39, 10 from 0, 25 from 2
Replicate 2 (Peak Stored) Time: 18:48
Peak Area (A-s): 0.117 Peak Height (A): 0.235
Background Pk Area (A-s): 0.919 Background Pk Height (A): 0.387
~~~~~~

Will rerun 2x at end of run SB 2-21-94

Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 16.6

Mean Conc (ug/L): 16.6 SD: 0.12 RSD(%): 0.72

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Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 16.5

Mean Conc (ug/L): 17.5 SD: 1.50 RSD(%): 8.59

Recovery is 81.6% (outside of specified limits)

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Concentration (ug/L): 31.9

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 19:31
Peak Area (A-s): 0.143 Peak Height (A): 0.267
Background Pk Area (A-s): 0.155 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.141
Concentration (ug/L): 20.8

Mean Conc (ug/L): 26.4 SD: 7.83 RSD(%): 29.72

SB 2-21-94 Too high Automatically Rerun

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Pb ID: CCV-0790 Seq. No.: 00116 A/S Pos.: 38 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 1 Time: 19:34
Peak Area (A-s): 0.153 Peak Height (A): 0.309
Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.088
Blank Corrected Pk Area (A-s): 0.151
Concentration (ug/L): 22.4

uL dispensed: 5 from 39, 10 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 19:38
Peak Area (A-s): 0.154 Peak Height (A): 0.304
Background Pk Area (A-s): 0.208 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.152
Concentration (ug/L): 22.5

Mean Conc (ug/L): 22.5 SD: 0.07 RSD(%): 0.32

QC sample is within range 19.1 - 23.3

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Pb ID: CCB Seq. No.: 00117 A/S Pos.: 0 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 1 Time: 19:41
Peak Area (A-s): 0.006 Peak Height (A): 0.012
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): -1.4

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 19:45
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.7

Mean Conc (ug/L): -1.5 SD: 0.17 RSD(%): 11.10

QC sample is within range

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Pb ID: 7XX-JM3192 SS21 Seq. No.: 00118 A/S Pos.: 5 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 5
Replicate 1 Time: 19:48
Peak Area (A-s): 0.048 Peak Height (A): 0.094
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Background Pk Area (A-s): 0.806 Background Pk Height (A): 0.335
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 5.3

uL dispensed: 5 from 39, 10 from 0, 25 from 5
Replicate 2 (Peak Stored) Time: 19:51
Peak Area (A-s): 0.049 Peak Height (A): 0.093
Background Pk Area (A-s): 0.863 Background Pk Height (A): 0.323
Blank Corrected Pk Area (A-s): 0.047
Concentration (ug/L): 5.6

Mean Conc (ug/L): 5.5 Q SD: 0.18 RSD(%): 3.27

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Background Pk Area (A-s): 0.844 Background Pk Height (A): 0.369
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 17.7

uL dispensed: 5 from 39, 10 from 40, 25 from 6
Replicate 2 (Peak Stored) Time: 20:12
Peak Area (A-s): 0.124 Peak Height (A): 0.231
Background Pk Area (A-s): 0.844 Background Pk Height (A): 0.377
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 17.8

Mean Conc (ug/L): 17.7 SD: 0.02 RSD(%): 0.12

Recovery is 90.9%

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Replicate 1 Time: 20:28
Peak Area (A-s): 0.130 Peak Height (A): 0.243
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.128
Concentration (ug/L): 18.6

uL dispensed: 5 from 39, 10 from 0, 25 from 8
Replicate 2 (Peak Stored) Time: 20:32
Peak Area (A-s): 0.129 Peak Height (A): 0.242
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.066
Blank Corrected Pk Area (A-s): 0.127
Concentration (ug/L): 18.5

Mean Conc (ug/L): 18.5 Q SD: 0.10 RSD(%): 0.56

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Replicate 1 Time: 20:48
Peak Area (A-s): 0.146 Peak Height (A): 0.276
Background Pk Area (A-s): 0.841 Background Pk Height (A): 0.387
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 21.3

uL dispensed: 5 from 39, 10 from 0, 25 from 10
Replicate 2 (Peak Stored) Time: 20:52
Peak Area (A-s): 0.144 Peak Height (A): 0.268
Background Pk Area (A-s): 0.825 Background Pk Height (A): 0.375
Blank Corrected Pk Area (A-s): 0.141
Concentration (ug/L): 20.8

Mean Conc (ug/L): 21.1 Q SD: 0.33 RSD(%): 1.59

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Recovery is 92.4%

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Concentration (ug/L): 1.4

Mean Conc (ug/L): 1.6 Q SD: 0.31 RSD(%): 19.42

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Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.7

Mean Conc (ug/L): -1.6 SD: 0.07 RSD(%): 4.58

QC sample is within range

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Pb ID: 7XX-JM3182 SS11 Seq. No.: 00142 A/S Pos.: 16 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 16
Replicate 1 Time: 22:26
Peak Area (A-s): 0.192 Peak Height (A): 0.345
Background Pk Area (A-s): 0.784 Background Pk Height (A): 0.404
Blank Corrected Pk Area (A-s): 0.190
Concentration (ug/L): 28.7

uL dispensed: 5 from 39, 10 from 0, 25 from 16
Replicate 2 (Peak Stored) Time: 22:30
Peak Area (A-s): 0.197 Peak Height (A): 0.351
Background Pk Area (A-s): 0.827 Background Pk Height (A): 0.403
Blank Corrected Pk Area (A-s): 0.194
Concentration (ug/L): 29.4

Mean Conc (ug/L): 29.0 SD: 0.54 RSD(%): 1.87

Rerun 2x on 2.22.94 SD

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Pb ID: 7XX-JM3182 SS11 Seq. No.: 00143 A/S Pos.: 16 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 40, 25 from 16
Replicate 1 Time: 22:33
Peak Area (A-s): 0.291 Peak Height (A): 0.505
Background Pk Area (A-s): 0.860 Background Pk Height (A): 0.464
Blank Corrected Pk Area (A-s): 0.289
Concentration (ug/L): 44.7

uL dispensed: 5 from 39, 10 from 40, 25 from 16
Replicate 2 (Peak Stored) Time: 22:36
Peak Area (A-s): 0.290 Peak Height (A): 0.517
Background Pk Area (A-s): 0.867 Background Pk Height (A): 0.467
Blank Corrected Pk Area (A-s): 0.287
Concentration (ug/L): 44.5

Mean Conc (ug/L): 44.6 SD: 0.18 RSD(%): 0.41

Recovery is 77.8% (outside of specified limits)

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Pb ID: 7XX-JM3189 SS18 Seq. No.: 00144 A/S Pos.: 17 Date: 02/21/94

uL dispensed: 5 from 39, 10 from 0, 25 from 17
Replicate 1 Time: 22:39
Peak Area (A-s): 0.062 Peak Height (A): 0.114
Background Pk Area (A-s): 0.584 Background Pk Height (A): 0.291
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 7.6 Corrected Conc (ug/L): 15.3

uL dispensed: 5 from 39, 10 from 0, 25 from 17
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Replicate 2 (Peak Stored) Time: 22:43
Peak Area (A-s): 0.064 Peak Height (A): 0.116
Background Pk Area (A-s): 0.583 Background Pk Height (A): 0.297
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 8.0 Corrected Conc (ug/L): 16.1

Mean Conc (ug/L): 7.8 Q SD: 0.29 RSD(%): 3.65
Corrected Conc (ug/L): 15.7

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Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.7

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 23:02
Peak Area (A-s): 0.006 Peak Height (A): 0.009
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): -1.4

Mean Conc (ug/L): -1.6 SD: 0.16 RSD(%): 10.05

QC sample is within range

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Element File: PBDK.GEL
Element: Pb
Analyst: RLS
Print Data: Main+Suppl.
Peak Storage: 1 Repl./Sample
Print: Calib. Curve+Elem. Params.

INSTRUMENT: 5100
Technique: HGA
Version: 7.10
Wavelength: 283.3 Peak
Slit: 0.7 Low
Signal Type: Zeeman AA
Signal Measurement: Peak Area
Read Time: 7.0
Read Delay: 0.0
BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	CAL BLK	----------	0	25	10	5	
Standard 1	STD 1 IN0785	4.0	40	2	10	5	
Standard 2	STD 2	10.0	40	5	10	5	
Standard 3	STD 3	20.0	40	10	10	5	
Standard 4	STD 4	30.0	40	15	10	5	
Standard 5	STD 5	40.0	40	20	10	5	
Standard 6	STD 6	50.0	40	25	10	5	
Samples	----------	----------	--------	25	10	5	

Diluent Location: 0
Modifier #1 Location: 39
Modifier #2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	10	30	300		Alt
2	150	5	10	300		Alt
3	600	10	40	300		Alt
4	20	1	10	300		Alt
5	1750	0	5	0	*	Alt
6	2500	1	5	300		Alt

Injection Temp: 20
Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet modifier 1 + diluent + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 5
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4.0 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
10 uL of 50 ug/L Standard at Location 40 Gives 20.0 ug/L
Measure Recovery on Samples: 1-8,11-17
Add to QC Samples: No
% Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	37	ICV-0791	31.8	38.8	X			
2	0	ICB			X			
3	38	CCV-0790	19.1	23.3		X	X	
4	0	CCB				X	X	
5	36	CRA-0792	2.25	3.75			X	

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: No Locations: 1,2
% Recovery for Spike: No Locations: 3,4 Conc: 20 ug/L

Element File: PBDK.GEL Element: Pb Wavelength: 283.3
Date: 02/22/94 Time: 08:14 Slit: 0.7 L
Data File: A022294.DAT ID/Wt File: B022194.IDW Lamp Current: 10
Technique: HGA Calib. Type: Linear Energy: 62

Pb ID: CAL BLK Seq. No.: 00001 A/S Pos.: 0 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 1 Time: 08:17
Peak Area (A-s): 0.002 Peak Height (A): 0.006
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.0

uL dispensed: 5 from 39, 10 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 08:20
Peak Area (A-s): 0.001 Peak Height (A): 0.005
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.3

Mean Conc (ug/L): -0.2 SD: 0.15 RSD(%): 102.28

Auto-zero performed.

Pb ID: STD 1 IN0785 Seq. No.: 00002 A/S Pos.: 40 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 2 from 40
Replicate 1 Time: 08:24
Peak Area (A-s): 0.036 Peak Height (A): 0.063
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 4.1

uL dispensed: 5 from 39, 10 from 0, 2 from 40
Replicate 2 (Peak Stored) Time: 08:27
Peak Area (A-s): 0.033 Peak Height (A): 0.065
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.031
Concentration (ug/L): 3.7

Mean Conc (ug/L): 3.9 SD: 0.25 RSD(%): 6.53

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000 Slope: 0.0083 Int: 0.000

Pb ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/22/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40
Replicate 1 Time: 08:30
Peak Area (A-s): 0.072 Peak Height (A): 0.126
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 8.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40
Replicate 2 (Peak Stored) Time: 08:34
Peak Area (A-s): 0.071 Peak Height (A): 0.125
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 8.5

Mean Conc (ug/L): 8.5 SD: 0.07 RSD(%): 0.83

Standard number 2 applied. [10.0]
Correlation coefficient: 0.99675 Slope: 0.0070 Int: 0.002

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uL dispensed: 5 from 39, 10 from 0, 20 from 40
Replicate 1 Time: 08:50
Peak Area (A-s): 0.235 Peak Height (A): 0.412
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.234
Concentration (ug/L): 38.3

uL dispensed: 5 from 39, 10 from 0, 20 from 40
Replicate 2 (Peak Stored) Time: 08:54
Peak Area (A-s): 0.235 Peak Height (A): 0.406
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.116
Blank Corrected Pk Area (A-s): 0.233
Concentration (ug/L): 38.2

Mean Conc (ug/L): 38.2 SD: 0.06 RSD(%): 0.15

Standard number 5 applied. [40.0]
Correlation coefficient: 0.99845 Slope: 0.0057 Int: 0.008

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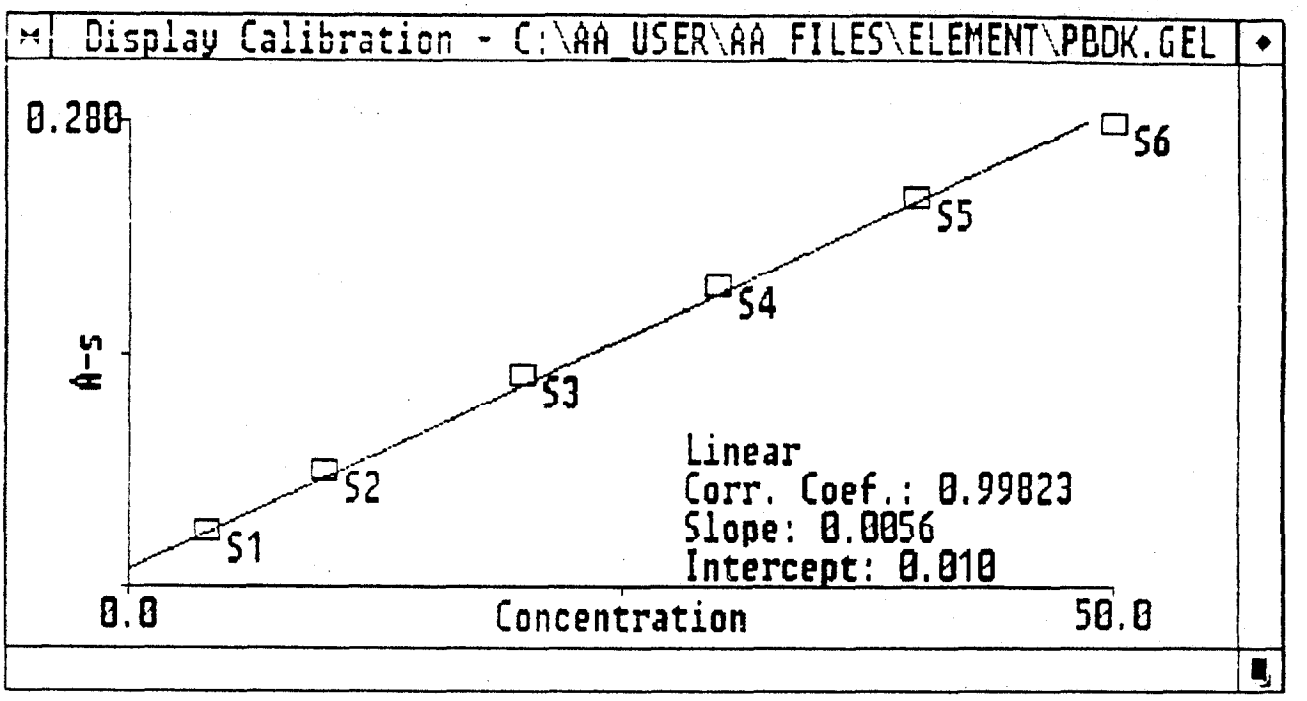
Display Calibration - C:\AA USER\AA FILES\ELEMENT\PBDK.GEL
0.280
A-s
S1
S2
S3
S4
S5
S6
Linear
Corr. Coef.: 0.99823
Slope: 0.0056
Intercept: 0.010
0.0
Concentration
50.0

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Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -2.1

Mean Conc (ug/L): -1.9 SD: 0.28 RSD(%): 14.16

QC sample is within range

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Replicate 2 (Peak Stored) Time: 09:41
Peak Area (A-s): 0.208 Peak Height (A): 0.435
Background Pk Area (A-s): 0.564 Background Pk Height (A): 0.358
Blank Corrected Pk Area (A-s): 0.207
Concentration (ug/L): 35.5 Corrected Conc (ug/L): 70.9

Mean Conc (ug/L): 35.2 SD: 0.40 RSD(%): 1.14
Corrected Conc (ug/L): 70.4

Recovery is 93.2%

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Analytical Report Date: 02/20/94

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 02/17/94 Time: 10:31 Slit: 0.70 L
Data File: A021794.DAT ID/Wt File: A021794.IDW
Technique: HGA Calib. Type: Linear Energy: 54

Se ID: CAL BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 02/17/94

Se ID: STD 1 IN-0782 Seq. No.: 00002 A/S Pos.: 40 Date: 02/17/94

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000 Slope: 0.0055 Int: 0.000

Se ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/17/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99540 Slope: 0.0045 Int: 0.002

Se ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/17/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99712 Slope: 0.0041 Int: 0.003

Se ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/17/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99890 Slope: 0.0041 Int: 0.003

Se ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 02/17/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99945 Slope: 0.0041 Int: 0.003

Se ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/17/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99965 Slope: 0.0041 Int: 0.003

Se ID: ICV-0793 Seq. No.: 00009 A/S Pos.: 37 Date: 02/17/94

Se ID: ICB/CCB Seq. No.: 00010 A/S Pos.: 0 Date: 02/17/94

Se ID: CRA-0795 Seq. No.: 00011 A/S Pos.: 36 Date: 02/17/94

Se ID: PBL-N7R3773 Seq. No.: 00012 A/S Pos.: 1 Date: 02/17/94

Analytical Report Date: 02/20/94

Se	ID: PBL-N7R3773	Seq. No.: 00013	A/S Pos.: 1	Date: 02/17/94
Se	ID: LCSL-N7R3773	Seq. No.: 00014	A/S Pos.: 2	Date: 02/17/94
Se	ID: LCSL-N7R3773	Seq. No.: 00015	A/S Pos.: 2	Date: 02/17/94
Se	ID: 7SM-JM3178 MTXS	Seq. No.: 00016	A/S Pos.: 3	Date: 02/17/94
Se	ID: 7SD-JM3178 MTXR	Seq. No.: 00017	A/S Pos.: 4	Date: 02/17/94
Se	ID: 7XX-JM3178 SS07	Seq. No.: 00018	A/S Pos.: 5	Date: 02/17/94
Se	ID: 7XX-JM3178 SS07	Seq. No.: 00019	A/S Pos.: 5	Date: 02/17/94
Se	ID: 7XX-JM3178 DUP	Seq. No.: 00020	A/S Pos.: 6	Date: 02/17/94
Se	ID: 7XX-JM3178 DUP	Seq. No.: 00021	A/S Pos.: 6	Date: 02/17/94
Se	ID: 7XX-JM3178 DUP	Seq. No.: 00022	A/S Pos.: 6	Date: 02/17/94
Se	ID: ICB/CCB	Seq. No.: 00023	A/S Pos.: 0	Date: 02/17/94
Se	ID: CCV-0793	Seq. No.: 00024	A/S Pos.: 38	Date: 02/17/94
Se	ID: CCV-0793	Seq. No.: 00027	A/S Pos.: 38	Date: 02/17/94
Se	ID: CCB	Seq. No.: 00028	A/S Pos.: 0	Date: 02/17/94
Se	ID: 7XX-JM3170 01A	Seq. No.: 00029	A/S Pos.: 8	Date: 02/17/94
Se	ID: 7XX-JM3170 01A	Seq. No.: 00030	A/S Pos.: 8	Date: 02/17/94
Se	ID: 7XX-JM3171 01B	Seq. No.: 00031	A/S Pos.: 9	Date: 02/17/94
Se	ID: 7XX-JM3171 01B	Seq. No.: 00032	A/S Pos.: 9	Date: 02/17/94

Se	ID: 7XX-JM3172 SS01	Seq. No.: 00033	A/S Pos.: 10	Date: 02/17/94
Se	ID: 7XX-JM3172 SS01	Seq. No.: 00034	A/S Pos.: 10	Date: 02/17/94
Se	ID: 7XX-JM3173 SS02	Seq. No.: 00035	A/S Pos.: 11	Date: 02/17/94
Se	ID: 7XX-JM3173 SS02	Seq. No.: 00036	A/S Pos.: 11	Date: 02/17/94
Se	ID: 7XX-JM3174 SS03	Seq. No.: 00037	A/S Pos.: 12	Date: 02/17/94
Se	ID: 7XX-JM3174 SS03	Seq. No.: 00038	A/S Pos.: 12	Date: 02/17/94
Se	ID: CCV-0793	Seq. No.: 00039	A/S Pos.: 38	Date: 02/17/94
Se	ID: CCB	Seq. No.: 00040	A/S Pos.: 0	Date: 02/17/94
Se	ID: 7XX-JM3175 SS04	Seq. No.: 00041	A/S Pos.: 13	Date: 02/17/94
Se	ID: 7XX-JM3175 SS04	Seq. No.: 00042	A/S Pos.: 13	Date: 02/17/94
Se	ID: 7XX-JM3176 SS05	Seq. No.: 00043	A/S Pos.: 14	Date: 02/17/94
Se	ID: 7XX-JM3176 SS05	Seq. No.: 00044	A/S Pos.: 14	Date: 02/17/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00045	A/S Pos.: 15	Date: 02/17/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00046	A/S Pos.: 15	Date: 02/17/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00047	A/S Pos.: 15	Date: 02/17/94
Se	ID: TCLP BLK 3773	Seq. No.: 00048	A/S Pos.: 16	Date: 02/17/94
Se	ID: TCLP BLK 3773	Seq. No.: 00049	A/S Pos.: 16	Date: 02/17/94
Se	ID: PBL-N7R3777	Seq. No.: 00050	A/S Pos.: 17	Date: 02/17/94
Se	ID: PBL-N7R3777	Seq. No.: 00051	A/S Pos.: 17	Date: 02/17/94

Analytical Report Date: 02/20/94

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Se	ID: 7XX-JM3176 SS05	Seq. No.: 00071	A/S Pos.: 14	Date: 02/17/94
Se	ID: 7XX-JM3176 SS05	Seq. No.: 00072	A/S Pos.: 14	Date: 02/17/94
Se	ID: 7XX-JM3176 SS05	Seq. No.: 00073	A/S Pos.: 14	Date: 02/17/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00074	A/S Pos.: 15	Date: 02/17/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00075	A/S Pos.: 15	Date: 02/17/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00076	A/S Pos.: 15	Date: 02/17/94
Se	ID: TCLP BLK 3773	Seq. No.: 00077	A/S Pos.: 16	Date: 02/17/94
Se	ID: TCLP BLK 3773	Seq. No.: 00078	A/S Pos.: 16	Date: 02/17/94
Se	ID: PBL-N7R3777	Seq. No.: 00080	A/S Pos.: 17	Date: 02/17/94
Se	ID: PBL-N7R3777	Seq. No.: 00081	A/S Pos.: 17	Date: 02/17/94
Se	ID: CCV-0793	Seq. No.: 00083	A/S Pos.: 38	Date: 02/17/94
Se	ID: CCB	Seq. No.: 00084	A/S Pos.: 0	Date: 02/17/94
Se	ID: LCSL-N7R3777	Seq. No.: 00085	A/S Pos.: 18	Date: 02/17/94
Se	ID: LCSL-N7R3777	Seq. No.: 00086	A/S Pos.: 18	Date: 02/17/94
Se	ID: 7SM-JM3183 MTXS	Seq. No.: 00087	A/S Pos.: 19	Date: 02/17/94
Se	ID: 7SD-JM3183 MTXR	Seq. No.: 00088	A/S Pos.: 20	Date: 02/17/94
Se	ID: 7XX-JM3183 SS12	Seq. No.: 00089	A/S Pos.: 21	Date: 02/17/94
Se	ID: 7XX-JM3183 SS12	Seq. No.: 00090	A/S Pos.: 21	Date: 02/17/94
Se	ID: 7XX-JM3183 DUP	Seq. No.: 00091	A/S Pos.: 22	Date: 02/17/94

Se	ID: 7XX-JM3183 DUP	Seq. No.: 00092	A/S Pos.: 22	Date: 02/17/94
Se	ID: 7XX-JM3183 DUP	Seq. No.: 00093	A/S Pos.: 22	Date: 02/17/94
Se	ID: 7XX-JM3179 SS08	Seq. No.: 00094	A/S Pos.: 23	Date: 02/17/94
Se	ID: 7XX-JM3179 SS08	Seq. No.: 00095	A/S Pos.: 23	Date: 02/17/94
Se	ID: CCV-0793	Seq. No.: 00096	A/S Pos.: 38	Date: 02/17/94
Se	ID: CCB	Seq. No.: 00097	A/S Pos.: 0	Date: 02/17/94
Se	ID: 7XX-JM3180 SS09	Seq. No.: 00098	A/S Pos.: 24	Date: 02/17/94
Se	ID: 7XX-JM3180 SS09	Seq. No.: 00099	A/S Pos.: 24	Date: 02/17/94
Se	ID: 7XX-JM3181 SS10	Seq. No.: 00100	A/S Pos.: 25	Date: 02/17/94
Se	ID: 7XX-JM3181 SS10	Seq. No.: 00101	A/S Pos.: 25	Date: 02/17/94
Se	ID: 7XX-JM3182 SS11	Seq. No.: 00102	A/S Pos.: 26	Date: 02/17/94
Se	ID: 7XX-JM3182 SS11	Seq. No.: 00103	A/S Pos.: 26	Date: 02/17/94
Se	ID: CCV-0793	Seq. No.: 00104	A/S Pos.: 38	Date: 02/17/94
Se	ID: CCB	Seq. No.: 00105	A/S Pos.: 0	Date: 02/17/94
Se	ID: CRA-0795	Seq. No.: 00106	A/S Pos.: 36	Date: 02/17/94
Se	ID: CRA-0795	Seq. No.: 00107	A/S Pos.: 36	Date: 02/17/94

Analytical Report Date: 02/20/94

Element File: PBDK.GEL Element: Pb Wavelength: 283.3
Date: 02/18/94 Time: 08:26 Slit: 0.70 L
Data File: A021894.DAT ID/Wt File: A021894.IDW
Technique: HGA Calib. Type: Linear Energy: 60

Pb ID: CAL BLK Seq. No.: 00001 A/S Pos.: 38 Date: 02/18/94

Pb ID: STD 1 0768 Seq. No.: 00002 A/S Pos.: 40 Date: 02/18/94

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000 Slope: 0.0087 Int: 0.000

Pb ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/18/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99656 Slope: 0.0073 Int: 0.002

Pb ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/18/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99822 Slope: 0.0068 Int: 0.004

Pb ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/18/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99925 Slope: 0.0067 Int: 0.005

Pb ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 02/18/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99939 Slope: 0.0065 Int: 0.006

Pb ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/18/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99957 Slope: 0.0065 Int: 0.006

Pb ID: 1643C Seq. No.: 00008 A/S Pos.: 37 Date: 02/18/94

Pb ID: ICB/CCB Seq. No.: 00009 A/S Pos.: 38 Date: 02/18/94

Pb ID: WS028 C1 Seq. No.: 00010 A/S Pos.: 36 Date: 02/18/94

Pb ID: IDL1 IN0785 10X Seq. No.: 00011 A/S Pos.: 1 Date: 02/18/94

Analytical Report Date: 02/20/94

Pb	ID: IDL2	Seq. No.: 00012	A/S Pos.: 2	Date: 02/18/94
Pb	ID: IDL3	Seq. No.: 00013	A/S Pos.: 3	Date: 02/18/94
Pb	ID: IDL4	Seq. No.: 00014	A/S Pos.: 4	Date: 02/18/94
Pb	ID: IDL5	Seq. No.: 00015	A/S Pos.: 5	Date: 02/18/94
Pb	ID: IDL6	Seq. No.: 00016	A/S Pos.: 6	Date: 02/18/94
Pb	ID: IDL7	Seq. No.: 00017	A/S Pos.: 7	Date: 02/18/94
Pb	ID: 1643C	Seq. No.: 00018	A/S Pos.: 37	Date: 02/18/94
Pb	ID: ICB/CCB	Seq. No.: 00019	A/S Pos.: 38	Date: 02/18/94
Pb	ID: WS028 C1	Seq. No.: 00020	A/S Pos.: 36	Date: 02/18/94

Analytical Report Date: 02/20/94

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 02/18/94 Time: 13:12 Slit: 0.70 L
Data File: B021894.DAT ID/Wt File: B021894.IDW
Technique: HGA Calib. Type: Linear Energy: 53

Se ID: CAL BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 02/18/94

Se ID: STD 1 IN-0782 Seq. No.: 00002 A/S Pos.: 40 Date: 02/18/94

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000 Slope: 0.0049 Int: 0.000

Se ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/18/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99108 Slope: 0.0037 Int: 0.002

Se ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/18/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99569 Slope: 0.0034 Int: 0.003

Se ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/18/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99751 Slope: 0.0032 Int: 0.004

Se ID: STD 5 Seq. No.: 00006 A/S Pos.: 40 Date: 02/18/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99847 Slope: 0.0031 Int: 0.005

Se ID: STD 6 Seq. No.: 00007 A/S Pos.: 40 Date: 02/18/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99911 Slope: 0.0031 Int: 0.005

Se ID: ICV-0793 Seq. No.: 00008 A/S Pos.: 37 Date: 02/18/94

Se ID: ICB Seq. No.: 00009 A/S Pos.: 0 Date: 02/18/94

Se ID: CRA-0795 Seq. No.: 00010 A/S Pos.: 36 Date: 02/18/94

Se ID: PBL-N7R3777 Seq. No.: 00011 A/S Pos.: 1 Date: 02/18/94

Analytical Report Date: 02/20/94

Se	ID: CRA-0795	Seq. No.: 00012	A/S Pos.: 36	Date: 02/18/94
Se	ID: PBL-N7R3777	Seq. No.: 00013	A/S Pos.: 1	Date: 02/18/94
Se	ID: PBL-N7R3777	Seq. No.: 00014	A/S Pos.: 1	Date: 02/18/94
Se	ID: LCSL-N7R3777	Seq. No.: 00015	A/S Pos.: 2	Date: 02/18/94
Se	ID: LCSL-N7R3777	Seq. No.: 00016	A/S Pos.: 2	Date: 02/18/94
Se	ID: PBL-N7R3791	Seq. No.: 00017	A/S Pos.: 3	Date: 02/18/94
Se	ID: PBL-N7R3791	Seq. No.: 00018	A/S Pos.: 3	Date: 02/18/94
Se	ID: LCSL-N7R3791	Seq. No.: 00019	A/S Pos.: 4	Date: 02/18/94
Se	ID: LCSL-N7R3791	Seq. No.: 00020	A/S Pos.: 4	Date: 02/18/94
Se	ID: TCLP BLK 3772	Seq. No.: 00021	A/S Pos.: 5	Date: 02/18/94
Se	ID: TCLP BLK 3772	Seq. No.: 00022	A/S Pos.: 5	Date: 02/18/94
Se	ID: CCV-0793	Seq. No.: 00023	A/S Pos.: 38	Date: 02/18/94
Se	ID: CCB	Seq. No.: 00024	A/S Pos.: 0	Date: 02/18/94
Se	ID: TCLP BLK 3791	Seq. No.: 00025	A/S Pos.: 6	Date: 02/18/94
Se	ID: TCLP BLK 3791	Seq. No.: 00026	A/S Pos.: 6	Date: 02/18/94
Se	ID: 7XX-JM3169 DS01	Seq. No.: 00027	A/S Pos.: 7	Date: 02/18/94
Se	ID: 7XX-JM3169 DS01	Seq. No.: 00028	A/S Pos.: 7	Date: 02/18/94
Se	ID: 7XX-JM3174 SS03	Seq. No.: 00029	A/S Pos.: 8	Date: 02/18/94

Se	ID: 7XX-JM3174 SS03	Seq. No.: 00030	A/S Pos.: 8	Date: 02/18/94
Se	ID: 7XX-JM3175 SS04	Seq. No.: 00031	A/S Pos.: 9	Date: 02/18/94
Se	ID: 7XX-JM3175 SS04	Seq. No.: 00032	A/S Pos.: 9	Date: 02/18/94
Se	ID: 7XX-JM3176 SS05	Seq. No.: 00033	A/S Pos.: 10	Date: 02/18/94
Se	ID: 7XX-JM3176 SS05	Seq. No.: 00034	A/S Pos.: 10	Date: 02/18/94
Se	ID: 7XX-JM3176 SS05	Seq. No.: 00035	A/S Pos.: 10	Date: 02/18/94
Se	ID: CCV-0793	Seq. No.: 00036	A/S Pos.: 38	Date: 02/18/94
Se	ID: CCB	Seq. No.: 00037	A/S Pos.: 0	Date: 02/18/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00038	A/S Pos.: 11	Date: 02/18/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00039	A/S Pos.: 11	Date: 02/18/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00040	A/S Pos.: 11	Date: 02/18/94
Se	ID: 7SM-JM3183 MTXS	Seq. No.: 00041	A/S Pos.: 12	Date: 02/18/94
Se	ID: 7SD-JM3183 MTXR	Seq. No.: 00042	A/S Pos.: 13	Date: 02/18/94
Se	ID: 7XX-JM3183 SS12	Seq. No.: 00043	A/S Pos.: 14	Date: 02/18/94
Se	ID: 7XX-JM3183 SS12	Seq. No.: 00044	A/S Pos.: 14	Date: 02/18/94
Se	ID: 7XX-JM3183 DUP	Seq. No.: 00045	A/S Pos.: 15	Date: 02/18/94
Se	ID: 7XX-JM3183 DUP	Seq. No.: 00046	A/S Pos.: 15	Date: 02/18/94
Se	ID: CCV-0793	Seq. No.: 00047	A/S Pos.: 38	Date: 02/18/94
Se	ID: CCV-0793	Seq. No.: 00048	A/S Pos.: 38	Date: 02/18/94

Analytical Report Date: 02/20/94

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 02/18/94 Time: 20:04 Slit: 0.70 L
Data File: B021894.DAT ID/Wt File: B021894.IDW
Technique: HGA Calib. Type: Linear Energy: 54

Se ID: CAL BLANK Seq. No.: 00049 A/S Pos.: 0 Date: 02/18/94

Se ID: STD 1 IN-0782 Seq. No.: 00050 A/S Pos.: 40 Date: 02/18/94

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000 Slope: 0.0041 Int: 0.000

Se ID: STD 2 Seq. No.: 00051 A/S Pos.: 40 Date: 02/18/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.97851 Slope: 0.0028 Int: 0.002

Se ID: STD 3 Seq. No.: 00052 A/S Pos.: 40 Date: 02/18/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99206 Slope: 0.0034 Int: -0.000

Se ID: STD 3 Seq. No.: 00053 A/S Pos.: 40 Date: 02/18/94

Se ID: STD 4 Seq. No.: 00054 A/S Pos.: 40 Date: 02/18/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.99616 Slope: 0.0036 Int: -0.001

Se ID: STD 5 Seq. No.: 00055 A/S Pos.: 40 Date: 02/18/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99749 Slope: 0.0035 Int: -0.001

Se ID: STD 6 Seq. No.: 00056 A/S Pos.: 40 Date: 02/18/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99842 Slope: 0.0035 Int: -0.001

Se ID: ICV-0793 Seq. No.: 00057 A/S Pos.: 37 Date: 02/18/94

Se ID: ICB Seq. No.: 00058 A/S Pos.: 0 Date: 02/18/94

Se	ID: CRA-0795	Seq. No.: 00059	A/S Pos.: 36	Date: 02/18/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00060	A/S Pos.: 11	Date: 02/18/94
Se	ID: 7XX-JM3177 SS06	Seq. No.: 00061	A/S Pos.: 11	Date: 02/18/94
Se	ID: 7SM-JM3183 MTXS	Seq. No.: 00062	A/S Pos.: 12	Date: 02/18/94
Se	ID: 7SM-JM3183 MTXS	Seq. No.: 00063	A/S Pos.: 12	Date: 02/18/94
Se	ID: 7SD-JM3183 MTXR	Seq. No.: 00064	A/S Pos.: 13	Date: 02/18/94
Se	ID: 7XX-JM3183 SS12	Seq. No.: 00065	A/S Pos.: 14	Date: 02/18/94
Se	ID: 7XX-JM3183 SS12	Seq. No.: 00066	A/S Pos.: 14	Date: 02/18/94
Se	ID: 7XX-JM3183 DUP	Seq. No.: 00067	A/S Pos.: 15	Date: 02/18/94
Se	ID: 7XX-JM3183 DUP	Seq. No.: 00068	A/S Pos.: 15	Date: 02/18/94
Se	ID: 7XX-JM3179 SS08	Seq. No.: 00069	A/S Pos.: 16	Date: 02/18/94
Se	ID: 7XX-JM3179 SS08	Seq. No.: 00070	A/S Pos.: 16	Date: 02/18/94
Se	ID: CCV-0793	Seq. No.: 00071	A/S Pos.: 38	Date: 02/18/94
Se	ID: CCB	Seq. No.: 00072	A/S Pos.: 0	Date: 02/18/94
Se	ID: 7XX-JM3180 SS09	Seq. No.: 00073	A/S Pos.: 17	Date: 02/18/94
Se	ID: 7XX-JM3180 SS09	Seq. No.: 00074	A/S Pos.: 17	Date: 02/18/94
Se	ID: 7XX-JM3181 SS10	Seq. No.: 00075	A/S Pos.: 18	Date: 02/18/94
Se	ID: 7XX-JM3181 SS10	Seq. No.: 00076	A/S Pos.: 18	Date: 02/18/94
Se	ID: 7XX-JM3181 SS10	Seq. No.: 00077	A/S Pos.: 18	Date: 02/18/94

Analytical Report Date: 02/20/94

Se	ID: 7XX-JM3182 SS11	Seq. No.: 00078	A/S Pos.: 19	Date: 02/18/94
Se	ID: 7XX-JM3182 SS11	Seq. No.: 00079	A/S Pos.: 19	Date: 02/18/94
Se	ID: 7XX-JM3182 SS11	Seq. No.: 00080	A/S Pos.: 19	Date: 02/18/94
Se	ID: 7SM-JM3193 MTXS	Seq. No.: 00081	A/S Pos.: 20	Date: 02/18/94
Se	ID: 7SD-JM3193 MTXR	Seq. No.: 00082	A/S Pos.: 21	Date: 02/18/94
Se	ID: CCV-0793	Seq. No.: 00083	A/S Pos.: 38	Date: 02/19/94
Se	ID: CCB	Seq. No.: 00084	A/S Pos.: 0	Date: 02/19/94
Se	ID: 7XX-JM3193 SS22	Seq. No.: 00085	A/S Pos.: 22	Date: 02/19/94
Se	ID: 7XX-JM3193 SS22	Seq. No.: 00086	A/S Pos.: 22	Date: 02/19/94
Se	ID: 7XX-JM3193 SS22	Seq. No.: 00087	A/S Pos.: 22	Date: 02/19/94
Se	ID: 7XX-JM3193 DUP	Seq. No.: 00088	A/S Pos.: 23	Date: 02/19/94
Se	ID: 7XX-JM3193 DUP	Seq. No.: 00089	A/S Pos.: 23	Date: 02/19/94
Se	ID: 7XX-JM3193 DUP	Seq. No.: 00090	A/S Pos.: 23	Date: 02/19/94
Se	ID: 7XX-JM3184 SS13	Seq. No.: 00091	A/S Pos.: 24	Date: 02/19/94

Analytical Report Date: 02/20/94

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 02/19/94 Time: 08:24 Slit: 0.70 L
Data File: A021894.DAT ID/Wt File: B021894.IDW
Technique: HGA Calib. Type: Linear Energy: 55

Se ID: CAL BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 02/19/94

Se ID: STD 1 IN-0782 Seq. No.: 00002 A/S Pos.: 40 Date: 02/19/94

Standard number 1 applied. [4.000]
Correlation coefficient: 1.00000 Slope: 0.0031 Int: 0.000

Se ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/19/94

Standard number 2 applied. [10.000]
Correlation coefficient: 0.99874 Slope: 0.0028 Int: 0.000

Se ID: STD 3 Seq. No.: 00004 A/S Pos.: 40 Date: 02/19/94

Standard number 3 applied. [20.000]
Correlation coefficient: 0.99838 Slope: 0.0025 Int: 0.001

Se ID: STD 4 Seq. No.: 00005 A/S Pos.: 40 Date: 02/19/94

Standard number 4 applied. [30.000]
Correlation coefficient: 0.98691 Slope: 0.0032 Int: -0.002

Se ID: STD 4 Seq. No.: 00006 A/S Pos.: 40 Date: 02/19/94

Se ID: STD 5 Seq. No.: 00007 A/S Pos.: 40 Date: 02/19/94

Standard number 5 applied. [40.000]
Correlation coefficient: 0.99357 Slope: 0.0032 Int: -0.003

Se ID: STD 5 Seq. No.: 00008 A/S Pos.: 40 Date: 02/19/94

Se ID: STD 6 Seq. No.: 00009 A/S Pos.: 40 Date: 02/19/94

Standard number 6 applied. [50.000]
Correlation coefficient: 0.99612 Slope: 0.0032 Int: -0.003

Se ID: STD 3 Seq. No.: 00010 A/S Pos.: 40 Date: 02/19/94

Se ID: ICV-0793 Seq. No.: 00011 A/S Pos.: 37 Date: 02/19/94

Analytical Report Date: 02/20/94

Se	ID: ICB	Seq. No.: 00012	A/S Pos.: 0	Date: 02/19/94
Se	ID: CRA-0795	Seq. No.: 00013	A/S Pos.: 36	Date: 02/19/94
Se	ID: PBL-N7R37~~91~~ 77 ~~80~~ 2-20-94	Seq. No.: 00014	A/S Pos.: 3	Date: 02/19/94
Se	ID: PBL-N7R37~~91~~ 77 ~~80~~ 2-20-94	Seq. No.: 00015	A/S Pos.: 3	Date: 02/19/94
Se	ID: 7XX-JM3193 SS22	Seq. No.: 00016	A/S Pos.: 22	Date: 02/19/94
Se	ID: 7XX-JM3193 SS22	Seq. No.: 00017	A/S Pos.: 22	Date: 02/19/94

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 02/19/94 Time: 10:33 Slit: 0.70 L
Data File: A021994.DAT ID/Wt File: B021894.IDW
Technique: HGA Calib. Type: Linear Energy: 55

Se	ID: 7XX-JM3193 SS22	Seq. No.: 00018	A/S Pos.: 22	Date: 02/19/94
Se	ID: 7XX-JM3193 SS22	Seq. No.: 00019	A/S Pos.: 22	Date: 02/19/94
Se	ID: 7XX-JM3193 SS22	Seq. No.: 00020	A/S Pos.: 22	Date: 02/19/94
Se	ID: 7XX-JM3193 DUP	Seq. No.: 00021	A/S Pos.: 23	Date: 02/19/94
Se	ID: 7XX-JM3193 DUP	Seq. No.: 00022	A/S Pos.: 23	Date: 02/19/94
Se	ID: 7XX-JM3184 SS13	Seq. No.: 00023	A/S Pos.: 24	Date: 02/19/94
Se	ID: 7XX-JM3184 SS13	Seq. No.: 00024	A/S Pos.: 24	Date: 02/19/94
Se	ID: CCV-0793	Seq. No.: 00025	A/S Pos.: 38	Date: 02/19/94
Se	ID: CCB	Seq. No.: 00026	A/S Pos.: 0	Date: 02/19/94
Se	ID: CCV-0793	Seq. No.: 00027	A/S Pos.: 38	Date: 02/19/94

Analytical Report Date: 02/20/94

Se	ID: CCB	Seq. No.: 00028	A/S Pos.: 0	Date: 02/19/94
Se	ID: 7XX-JM3185 SS14	Seq. No.: 00029	A/S Pos.: 25	Date: 02/19/94
Se	ID: 7XX-JM3185 SS14	Seq. No.: 00030	A/S Pos.: 25	Date: 02/19/94
Se	ID: 7XX-JM3186 SS15	Seq. No.: 00031	A/S Pos.: 26	Date: 02/19/94
Se	ID: 7XX-JM3186 SS15	Seq. No.: 00032	A/S Pos.: 26	Date: 02/19/94
Se	ID: 7XX-JM3187 SS16	Seq. No.: 00033	A/S Pos.: 27	Date: 02/19/94
Se	ID: 7XX-JM3187 SS16	Seq. No.: 00034	A/S Pos.: 27	Date: 02/19/94
Se	ID: 7XX-JM3188 SS17	Seq. No.: 00035	A/S Pos.: 28	Date: 02/19/94
Se	ID: 7XX-JM3188 SS17	Seq. No.: 00036	A/S Pos.: 28	Date: 02/19/94
Se	ID: 7XX-JM3189 SS18	Seq. No.: 00037	A/S Pos.: 29	Date: 02/19/94
Se	ID: 7XX-JM3189 SS18	Seq. No.: 00038	A/S Pos.: 29	Date: 02/19/94
Se	ID: 7XX-JM3189 SS18	Seq. No.: 00039	A/S Pos.: 29	Date: 02/19/94
Se	ID: CCV-0793	Seq. No.: 00040	A/S Pos.: 38	Date: 02/19/94
Se	ID: CCV-0793	Seq. No.: 00042	A/S Pos.: 38	Date: 02/19/94
Se	ID: CCB	Seq. No.: 00043	A/S Pos.: 0	Date: 02/19/94
Se	ID: 7XX-JM3190 SS19	Seq. No.: 00044	A/S Pos.: 30	Date: 02/19/94
Se	ID: 7XX-JM3190 SS19	Seq. No.: 00045	A/S Pos.: 30	Date: 02/19/94
Se	ID: 7XX-JM3190 SS19	Seq. No.: 00046	A/S Pos.: 30	Date: 02/19/94
Se	ID: 7XX-JM3191 SS20	Seq. No.: 00047	A/S Pos.: 31	Date: 02/19/94

Analytical Report Date: 02/20/94

Se	ID: 7XX-JM3191 SS20	Seq. No.: 00048	A/S Pos.: 31	Date: 02/19/94
Se	ID: 7XX-JM3191 SS20	Seq. No.: 00049	A/S Pos.: 31	Date: 02/19/94
Se	ID: 7XX-JM31~~91~~ 92 SS21 SB 2-20-94	Seq. No.: 00050	A/S Pos.: 32	Date: 02/19/94
Se	ID: 7XX-JM3192 SS21	Seq. No.: 00051	A/S Pos.: 32	Date: 02/19/94
Se	ID: CCV-0793	Seq. No.: 00052	A/S Pos.: 38	Date: 02/19/94
Se	ID: CCB	Seq. No.: 00053	A/S Pos.: 0	Date: 02/19/94
Se	ID: CRA-0795	Seq. No.: 00054	A/S Pos.: 36	Date: 02/19/94

Element File: SERLS.GEL
Element: Se Analyst: RLS
Print Data: Main+Suppl. Peak Storage: All
Print: Calib. Curve+Elem. Params.

INSTRUMENT: 5100 Technique: HGA Version: 7.10
Wavelength: 196.0 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 6.0 Read Delay: 3.0 BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	CAL BLANK	----------	0	35	15	5	
Standard 1	STD 1 IN-0782	4.0	40	2	38	5	
Standard 2	STD 2	10.0	40	5	35	5	
Standard 3	STD 3	20.0	40	10	30	5	
Standard 4	STD 4	30.0	40	15	25	5	
Standard 5	STD 5	40.0	40	20	20	5	
Standard 6	STD 6	50.0	40	25	15	5	
Samples	----------	----------	--------	25	15	5	

Diluent Location: 0
Modifier #1 Location: 30 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	40	300		Norm
2	130	10	10	300		Norm
3	800	10	30	300		Norm
4	20	1	15	300		Norm
5	2300	0	5	1	*	Norm
6	2600	2	5	300		Norm

Injection Temp: 20 Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet modifier 1 + diluent + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 10
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
5 uL of 50 ug/L Standard at Location 40 Gives 10.0 ug/L
Measure Recovery on Samples: 1-2,3-17,20-25
Add to QC Samples: No % Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	37	ICV-0793	35.2	42.0	X			
2	0	ICB/CCB			X	X	X	
3	38	CCV-0793	21.1	25.8		X	X	
4	36	CRA-0795	3.81	6.35	X		X	

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: Yes Locations: 1,2
% Recovery for Spike: Yes Locations: 3,4 Conc: 20 ug/L

Element File: SERLS.TEL Element: Se Wavelength: 196.0
Date: 02/17/94 Time: 10:31 Slit: 0.70 L
Data File: A021794.DAT ID/Wt File: A021794.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 54

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Se ID: CAL BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 1 (Peak Stored) Time: 10:34
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.6

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 2 (Peak Stored) Time: 10:37
Peak Area (A-s): 0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -0.9

Mean Conc (ug/L): -0.7 SD: 0.21 RSD(%): 29.02

Auto-zero performed.

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Se ID: STD 1 IN-0782 Seq. No.: 00002 A/S Pos.: 40 Date: 02/17/94

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 1 (Peak Stored) Time: 10:41
Peak Area (A-s): 0.022 Peak Height (A): 0.035
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 5.3

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 2 (Peak Stored) Time: 10:44
Peak Area (A-s): 0.024 Peak Height (A): 0.039
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 5.7

Mean Conc (ug/L): 5.5 SD: 0.32 RSD(%): 5.82

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000 Slope: 0.0055 Int: 0.000

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Se ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/17/94

uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 1 (Peak Stored) Time: 10:48
Peak Area (A-s): 0.046 Peak Height (A): 0.066
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 8.3
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uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 2 (Peak Stored) Time: 10:51
Peak Area (A-s): 0.046 Peak Height (A): 0.071
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 8.3

Mean Conc (ug/L): 8.3 SD: 0.03 RSD(%): 0.31

Standard number 2 applied. [10.0]
Correlation coefficient: 0.99540 Slope: 0.0045 Int: 0.002

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uL dispensed: 5 from 39, 20 from 0, 20 from 40
Replicate 1 (Peak Stored) Time: 11:09
Peak Area (A-s): 0.166 Peak Height (A): 0.240
Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 39.8

uL dispensed: 5 from 39, 20 from 0, 20 from 40
Replicate 2 (Peak Stored) Time: 11:12
Peak Area (A-s): 0.169 Peak Height (A): 0.244
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 40.7

Mean Conc (ug/L): 40.3 SD: 0.67 RSD(%): 1.67

Standard number 5 applied. [40.0]
Correlation coefficient: 0.99945 Slope: 0.0041 Int: 0.003

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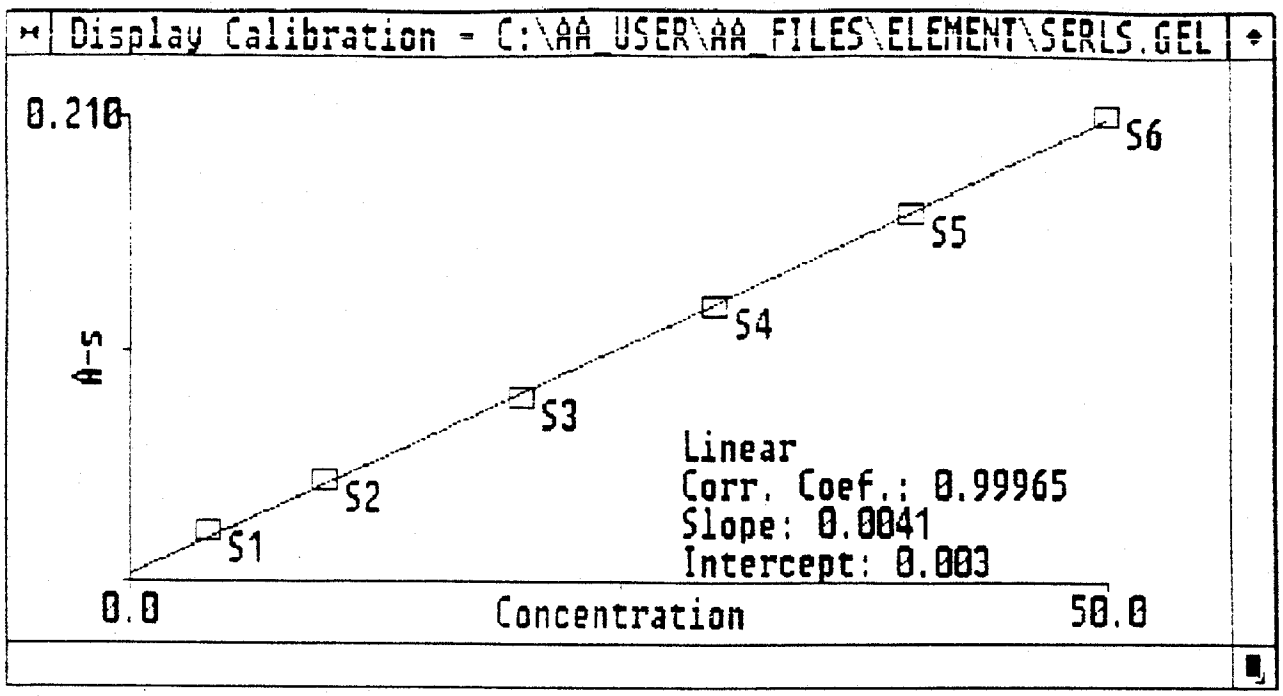

Autosampler ABORTED

SB 2-17-94

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uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 12:13
Peak Area (A-s): 0.003 Peak Height (A): 0.013
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.2

Mean Conc (ug/L): -0.4 SD: 0.30 RSD(%): 77.26

QC sample is within range

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Concentration (ug/L): 9.6

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 1
Replicate 2 (Peak Stored) Time: 12:34
Peak Area (A-s): 0.045 Peak Height (A): 0.071
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.044
Concentration (ug/L): 10.1

Mean Conc (ug/L): 9.9 SD: 0.37 RSD(%): 3.74

Recovery is 100.8%

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Se ID: LCSL-N7R3773 Seq. No.: 00014 A/S Pos.: 2 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 2
Replicate 1 (Peak Stored) Time: 12:38
Peak Area (A-s): 0.089 Peak Height (A): 0.133
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 20.7

uL dispensed: 5 from 39, 15 from 0, 25 from 2
Replicate 2 (Peak Stored) Time: 12:41
Peak Area (A-s): 0.087 Peak Height (A): 0.126
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 20.3

Mean Conc (ug/L): 20.5 Q SD: 0.29 RSD(%): 1.41

~~The difference between locations 1 and 2 = 3002.9 %~~ 2-17-94

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Se ID: LCSL-N7R3773 Seq. No.: 00015 A/S Pos.: 2 Date: 02/17/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2
Replicate 1 (Peak Stored) Time: 12:45
Peak Area (A-s): 0.131 Peak Height (A): 0.192
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.130
Concentration (ug/L): 31.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 2
Replicate 2 (Peak Stored) Time: 12:48
Peak Area (A-s): 0.133 Peak Height (A): 0.192
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.133
Concentration (ug/L): 31.6

Mean Conc (ug/L): 31.3 SD: 0.45 RSD(%): 1.45

Recovery is 107.6%

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Se ID: 7SM-JM3178 MTXS Seq. No.: 00016 A/S Pos.: 3 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 3
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Replicate 1 (Peak Stored) Time: 12:52
Peak Area (A-s): 0.071 Peak Height (A): 0.111
Background Pk Area (A-s): 0.602 Background Pk Height (A): 0.186
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 16.4

uL dispensed: 5 from 39, 15 from 0, 25 from 3
Replicate 2 (Peak Stored) Time: 12:55
Peak Area (A-s): 0.068 Peak Height (A): 0.110
Background Pk Area (A-s): 0.607 Background Pk Height (A): 0.182
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 15.8

Mean Conc (ug/L): 16.1 Q SD: 0.41 RSD(%): 2.55

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Replicate 1 (Peak Stored) Time: 13:13
Peak Area (A-s): 0.035 Peak Height (A): 0.064
Background Pk Area (A-s): 0.622 Background Pk Height (A): 0.184
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 7.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 5
Replicate 2 (Peak Stored) Time: 13:16
Peak Area (A-s): 0.038 Peak Height (A): 0.061
Background Pk Area (A-s): 0.622 Background Pk Height (A): 0.187
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 8.5

Mean Conc (ug/L): 8.2 SD: 0.51 RSD(%): 6.25

Recovery is 76.1% (outside of specified limits)

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Mean Conc (ug/L): 21.8 SD: 3.43 RSD(%): 1.98

QC sample is within range 21.1 - 23.4

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Se ID: 7XX-JM3169 DS01 Seq. No.: 00025 A/S Pos.: 7 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 7

REJECTED SB 2-17-94

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Se ID: 7XX-JM3170 01A Seq. No.: 00026 A/S Pos.: 8 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8

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Se ID: CCV-0793 Seq. No.: 00027 A/S Pos.: 38 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38
Replicate 1 (Peak Stored) Time: 14:02
Peak Area (A-s): 0.105 Peak Height (A): 0.143
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.104
Concentration (ug/L): 24.7

uL dispensed: 5 from 39, 15 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 14:06
Peak Area (A-s): 0.102 Peak Height (A): 0.142
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 24.1

Mean Conc (ug/L): 24.4 SD: 1.46 RSD(%): 1.87

QC sample is within range 21.1 - 23.4

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Se ID: CCB Seq. No.: 00028 A/S Pos.: 0 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 1 (Peak Stored) Time: 14:09
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.5

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 14:12
Peak Area (A-s): 0.001 Peak Height (A): 0.019
Background Pk Area (A-s): 0.174 Background Pk Height (A): 0.248
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.6

Mean Conc (ug/L): -0.1 SD: 0.81 RSD(%): 1413.97

QC sample is within range

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Se ID: 7XX-JM3170 01A Seq. No.: 00029 A/S Pos.: 8 Date: 02/17/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8
Replicate 1 (Peak Stored) Time: 14:16
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Peak Area (A-s): 0.008 Peak Height (A): 0.018
Background Pk Area (A-s): 0.622 Background Pk Height (A): 0.189
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 1.1

uL dispensed: 5 from 39, 15 from 0, 25 from 8
Replicate 2 (Peak Stored) Time: 14:19
Peak Area (A-s): 0.001 Peak Height (A): 0.015
Background Pk Area (A-s): 0.626 Background Pk Height (A): 0.188
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.5

Mean Conc (ug/L): 0.3 Q SD: 1.07 RSD(%): 356.73

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Peak Area (A-s): 0.040 Peak Height (A): 0.070
Background Pk Area (A-s): 0.645 Background Pk Height (A): 0.193
Blank Corrected Pk Area (A-s): 0.040
Concentration (ug/L): 9.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 9
Replicate 2 (Peak Stored) Time: 14:40
Peak Area (A-s): 0.043 Peak Height (A): 0.072
Background Pk Area (A-s): 0.638 Background Pk Height (A): 0.189
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 9.8

Mean Conc (ug/L): 9.4 SD: 0.54 RSD(%): 5.75

Recovery is 91.1%

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uL dispensed: 5 from 39, 15 from 0, 25 from 11
Replicate 1 (Peak Stored) Time: 14:57
Peak Area (A-s): 0.007 Peak Height (A): 0.018
Background Pk Area (A-s): 0.646 Background Pk Height (A): 0.198
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.0

uL dispensed: 5 from 39, 15 from 0, 25 from 11
Replicate 2 (Peak Stored) Time: 15:00
Peak Area (A-s): 0.000 Peak Height (A): 0.013
Background Pk Area (A-s): 0.645 Background Pk Height (A): 0.198
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.7

Mean Conc (ug/L): 0.1 Q SD: 1.15 RSD(%): 843.80

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uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12
Replicate 1 (Peak Stored) Time: 15:17
Peak Area (A-s): 0.039 Peak Height (A): 0.064
Background Pk Area (A-s): 0.638 Background Pk Height (A): 0.193
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 8.7

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 12
Replicate 2 (Peak Stored) Time: 15:21
Peak Area (A-s): 0.038 Peak Height (A): 0.056
Background Pk Area (A-s): 0.645 Background Pk Height (A): 0.200
Blank Corrected Pk Area (A-s): 0.037
Concentration (ug/L): 8.4

Mean Conc (ug/L): 8.5 SD: 0.24 RSD(%): 2.82

Recovery is 97.3%

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Element File: SERLS.GEL
Element: Se
Analyst: RLS
Print Data: Main-Suppl.
Peak Storage: All
Print: Calib. Curve--Elem. Params.

INSTRUMENT: 5100
Technique: HGA
Version: 7.10
Wavelength: 196.0 Peak
Slit: 0.70 Low
Signal Type: Zeeman AA
Signal Measurement: Peak Area
Read Time: 8.0
Read Delay: 0.0
BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier =1	Modifier =2
Calib. Blank	CAL BLANK	----------	0	35	15	5	
Standard 1	STD 1 IN-0782	4.0	40	2	38	5	
Standard 2	STD 2	10.0	40	5	35	5	
Standard 3	STD 3	20.0	40	10	30	5	
Standard 4	STD 4	30.0	40	15	25	5	
Standard 5	STD 5	40.0	40	20	20	5	
Standard 6	STD 6	50.0	40	25	15	5	
Samples	----------	----------	--------	25	15	5	

Diluent Location: 0
Modifier =1 Location: 39
Modifier =2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	40	300		Norm
2	130	10	10	300		Norm
3	800	10	30	300		Norm
4	20	1	15	300		Norm
5	2800	0	5	0	*	Norm
6	2600	2	5	300		Norm

Injection Temp: 20
Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet modifier 1 + diluent + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 10
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
5 uL of 50 ug/L Standard at Location 40 Gives 10.0 ug/L
Measure Recovery on Samples: 1-11,14-19,22-32
Add to QC Samples: No
% Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	37	ICV-0793	35.2	43.0	X			
2	0	ICB			X			
3	38	CCV-0793	21.1	25.8		X		X
4	0	CCB				X		X
5	36	CRA-0795	3.81	6.35	X			X

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: Yes Locations: 1,2
% Recovery for Spike: Yes Locations: 3,4 Conc: 20 ug/L

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 02/18/94 Time: 13:12 Slit: 0.70 L
Data File: B021894.DAT ID/Wt File: B021894.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 53

Se ID: CAL BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 1 (Peak Stored) Time: 13:15
Peak Area (A-s): 0.010 Peak Height (A): 0.021
Background Pk Area (A-s): 0.101 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 1.3

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 2 (Peak Stored) Time: 13:18
Peak Area (A-s): 0.005 Peak Height (A): 0.017
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.1

Mean Conc (ug/L): 0.7 SD: 0.84 RSD(%): 113.52

Auto-zero performed.

Se ID: STD 1 IN-0782 Seq. No.: 00002 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 1 (Peak Stored) Time: 13:22
Peak Area (A-s): 0.031 Peak Height (A): 0.040
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 5.0

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 2 (Peak Stored) Time: 13:25
Peak Area (A-s): 0.022 Peak Height (A): 0.039
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 2.9

Mean Conc (ug/L): 3.9 SD: 1.48 RSD(%): 37.85

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000 Slope: 0.0049 Int: 0.000

Se ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 1 (Peak Stored) Time: 13:29
Peak Area (A-s): 0.048 Peak Height (A): 0.070
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.041
Concentration (ug/L): 8.4

uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 2 (Peak Stored) Time: 13:32
Peak Area (A-s): 0.042 Peak Height (A): 0.065
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 7.1

Mean Conc (ug/L): 7.7 SD: 0.89 RSD(%): 11.54

Standard number 2 applied. [10.0]
Correlation coefficient: 0.99108 Slope: 0.0037 Int: 0.002

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uL dispensed: 5 from 39, 20 from 0, 20 from 40
Replicate 1 (Peak Stored) Time: 13:49
Peak Area (A-s): 0.139 Peak Height (A): 0.193
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.131
Concentration (ug/L): 39.7

uL dispensed: 5 from 39, 20 from 0, 20 from 40
Replicate 2 (Peak Stored) Time: 13:52
Peak Area (A-s): 0.133 Peak Height (A): 0.194
Background Pk Area (A-s): 0.102 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.126
Concentration (ug/L): 38.0

Mean Conc (ug/L): 38.8 SD: 1.21 RSD(%): 3.13

Standard number 5 applied. [40.0]
Correlation coefficient: 0.99847 Slope: 0.0031 Int: 0.005

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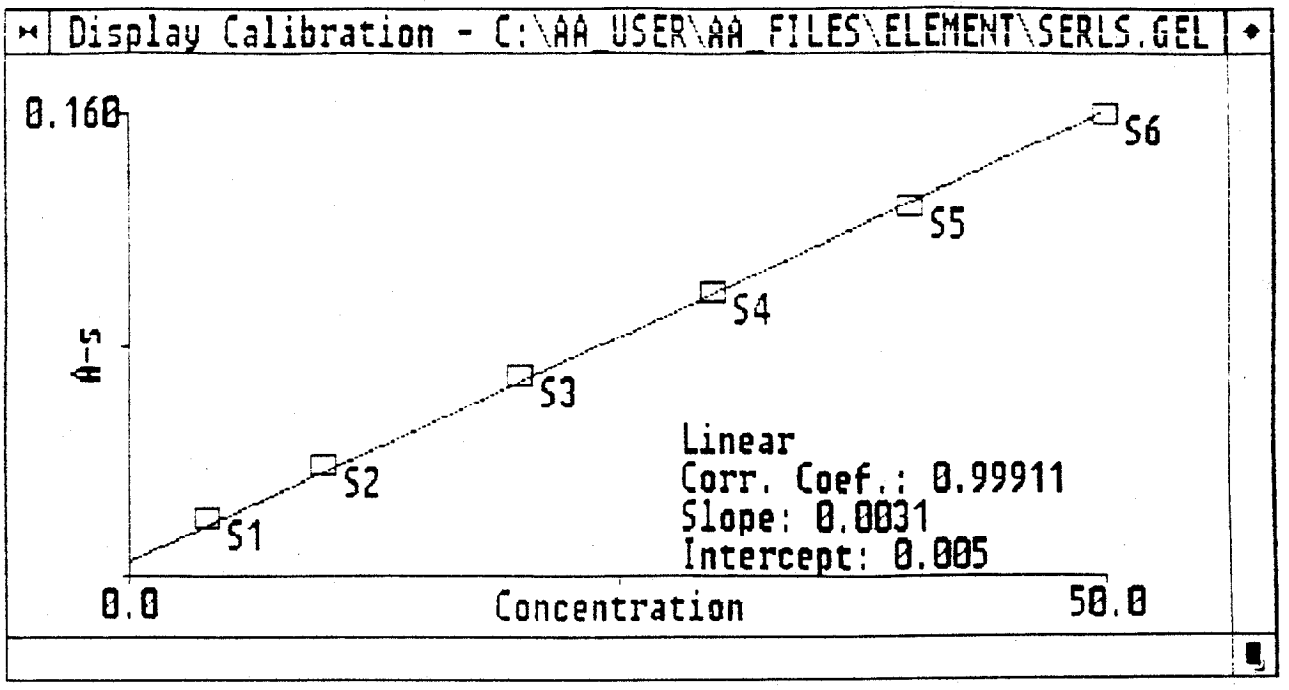
Display Calibration - C:\AA_USER\AA_FILES\ELEMENT\SERLS.GEL
0.160
A-S
S1
S2
S3
S4
S5
S6
Linear
Corr. Coef.: 0.99911
Slope: 0.0031
Intercept: 0.005
0.0
Concentration
50.0

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Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -2.9

Mean Conc (ug/L): -2.4 SD: 0.77 RSD(%): 32.20

QC sample is within range

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Se ID: CRA-0795 Seq. No.: 00010 A/S Pos.: 36 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 1 (Peak Stored) Time: 14:31
Peak Area (A-s): 0.020 Peak Height (A): 0.037
Background Pk Area (A-s): 0.183 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 2.7

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 2 (Peak Stored) Time: 14:35
Peak Area (A-s): 0.019 Peak Height (A): 0.032
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.0

Mean Conc (ug/L): 2.7 SD: 0.29 RSD(%): 11.74

QC sample is out of range 3.81 - 6.35

JAD 2-18-94

SB 2-18-94 Replace CRA w/ fresh

Rerun

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Se ID: PBL-N7R3777 Seq. No.: 00011 A/S Pos.: 1 Date: 02/18/94

SB 2-18-94

uL dispensed: 5 from 39, 15 from 0, 25 from 1
Replicate 1 (Peak Stored) Time: 14:38
Peak Area (A-s): -0.004 Peak Height (A): 0.017
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): -0.011
Concentration (ug/L): -5.0

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Se ID: CRA-0795 Seq. No.: 00012 A/S Pos.: 36 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 1 (Peak Stored) Time: 14:44
Peak Area (A-s): 0.025 Peak Height (A): 0.035
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 4.1

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 2 (Peak Stored) Time: 14:48
Peak Area (A-s): 0.023 Peak Height (A): 0.034
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.016
Concentration (ug/L): 3.5

Mean Conc (ug/L): 3.8 SD: 0.45 RSD(%): 11.98

QC sample is out of range 3.81 - 6.35

SB 2-18-94
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~~The difference between locations 1 and 2 = 568.1 %~~ SB 2-18-94

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high Need to LS SB remove 2-18-94

Mean Conc (ug/L): 8.1 SD: 0.84 RSD(%): 10.35

Recovery is 120.3% (outside of specified limits)

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W

Background Pk Area (A-s): 0.498 Background Pk Height (A): 0.180
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.7

Mean Conc (ug/L): -0.3 Q SD: 0.23 RSD(%): 26.43

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Replicate 2 (Peak Stored) Time: 16:11
Peak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -3.1

Mean Conc (ug/L): -2.6 SD: 0.80 RSD(%): 31.18

QC sample is within range

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Se ID: TCLP BLK 3791 Seq. No.: 09025 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 6
Replicate 1 (Peak Stored) Time: 16:13
Peak Area (A-s): 0.007 Peak Height (A): 0.018
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.209
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.6

uL dispensed: 5 from 39, 15 from 0, 25 from 6
Replicate 2 (Peak Stored) Time: 16:18
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.222
Blank Corrected Pk Area (A-s): -0.[illegible]
Concentration (ug/L): -2.6

Mean Conc (ug/L): -2.1 Q SD: 1.03 RSD(%): 32.08

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Se ID: TCLP BLK 3791 Seq. No.: 09026 A/S Pos.: 6 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6
Replicate 1 (Peak Stored) Time: 16:22
Peak Area (A-s): 0.030 Peak Height (A): 0.030
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.225
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 5.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 6
Replicate 2 (Peak Stored) Time: 16:26
Peak Area (A-s): 0.031 Peak Height (A): 0.046
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.226
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 6.0

Mean Conc (ug/L): 5.9 SD: 0.15 RSD(%): 2.55

Recovery is 80.3% (outside of specified limits)

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Se ID: 7XX-JM3169 DS01 Seq. No.: 09027 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 7
Replicate 1 (Peak Stored) Time: 16:39
Peak Area (A-s): 0.009 Peak Height (A): 0.031
Background Pk Area (A-s): 0.724 Background Pk Height (A): 0.615
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.8
~~~~~~

uL dispensed: 5 from 39, 15 from 0, 25 from 7
Replicate 2 (Peak Stored) Time: 16:42
Peak Area (A-s): 0.005 Peak Height (A): 0.021
Background Pk Area (A-s): 0.605 Background Pk Height (A): 0.186
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -2.4

Mean Conc (ug/L): -1.6Q SD: 1.09 RSD(%): 67.66

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Se ID: 7XX-JM3169 DS01 Seq. No.: 00028 A/S Pos.: 7 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7
Replicate 1 (Peak Stored) Time: 16:46
Peak Area (A-s): 0.036 Peak Height (A): 0.049
Background Pk Area (A-s): 0.602 Background Pk Height (A): 0.187
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 7.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 7
Replicate 2 (Peak Stored) Time: 16:49
Peak Area (A-s): 0.037 Peak Height (A): 0.056
Background Pk Area (A-s): 0.603 Background Pk Height (A): 0.194
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 8.2

Mean Conc (ug/L): 8.0 SD: 0.24 RSD(%): 3.02

Recovery is 96.1%

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Se ID: 7XX-JM3174 SS03 Seq. No.: 00029 A/S Pos.: 8 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 8
Replicate 1 (Peak Stored) Time: 16:53
Peak Area (A-s): -0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.753 Background Pk Height (A): 0.232
Blank Corrected Pk Area (A-s): -0.009
Concentration (ug/L): -4.4

uL dispensed: 5 from 39, 15 from 0, 25 from 8
Replicate 2 (Peak Stored) Time: 16:56
Peak Area (A-s): -0.002 Peak Height (A): 0.018
Background Pk Area (A-s): 0.785 Background Pk Height (A): 0.242
Blank Corrected Pk Area (A-s): -0.009
Concentration (ug/L): -4.4

Mean Conc (ug/L): -4.4 SD: 0.04 RSD(%): 0.96

was QTon 2-17-94 Run SB 2-19-94

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Se ID: 7XX-JM3174 SS03 Seq. No.: 00030 A/S Pos.: 8 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8
Replicate 1 (Peak Stored) Time: 16:59
Peak Area (A-s): 0.031 Peak Height (A): 0.054
Background Pk Area (A-s): 0.772 Background Pk Height (A): 0.232
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 6.2
~~~~~~

QT on 2-17-94 Run

SB 2-18-94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 8
Replicate 2 (Peak Stored) Time: 17:03
Peak Area (A-s): 0.034 Peak Height (A): 0.057
Background Pk Area (A-s): 0.784 Background Pk Height (A): 0.252
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 6.9

Mean Conc (ug/L): 6.6 SD: 0.51 RSD(%): 7.76

Recovery is 109.7%

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Concentration (ug/L): -0.5

uL dispensed: 5 from 39, 15 from 0, 25 from 10
Replicate 2 (Peak Stored) Time: 17:24
Peak Area (A-s): 0.006 Peak Height (A): 0.021
Background Pk Area (A-s): 0.778 Background Pk Height (A): 0.340
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.9

Mean Conc (ug/L): -1.2 Q SD: 0.97 RSD(%): 78.98

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Se ID: 7XX-JM3176 SS05 Seq. No.: 00034 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10
Replicate 1 (Peak Stored) Time: 17:27
Peak Area (A-s): 0.026 Peak Height (A): 0.046
Background Pk Area (A-s): 0.859 Background Pk Height (A): 0.396
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 4.5

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10
Replicate 2 (Peak Stored) Time: 17:31
Peak Area (A-s): 0.031 Peak Height (A): 0.051
Background Pk Area (A-s): 0.809 Background Pk Height (A): 0.412
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 6.2

Mean Conc (ug/L): 5.4 SD: 1.24 RSD(%): 23.12 too high Rerun SB 2-18-94

Recovery is 65.9% (outside of specified limits)

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Se ID: 7XX-JM3176 SS05 Seq. No.: 00035 A/S Pos.: 10 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10
Replicate 1 (Peak Stored) Time: 17:34
Peak Area (A-s): 0.027 Peak Height (A): 0.056
Background Pk Area (A-s): 0.827 Background Pk Height (A): 0.445
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 4.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 10
Replicate 2 (Peak Stored) Time: 17:38
Peak Area (A-s): 0.037 Peak Height (A): 0.049
Background Pk Area (A-s): 0.812 Background Pk Height (A): 0.450
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 8.1

Mean Conc (ug/L): 6.5 SD: 2.25 RSD(%): 34.83

Recovery is 76.8% (outside of specified limits)

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Se ID: CCV-0793 Seq. No.: 00036 A/S Pos.: 38 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 38
Replicate 1 (Peak Stored) Time: 17:41
Peak Area (A-s): 0.087 Peak Height (A): 0.096
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Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.079
Concentration (ug/L): 23.9

uL dispensed: 5 from 39, 15 from 0, 25 from 38
Replicate 2 (Peak Stored) Time: 17:44
Peak Area (A-s): 0.082 Peak Height (A): 0.097
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 22.4

Mean Conc (ug/L): 23.2 SD: 1.02 RSD(%): 4.39

QC sample is within range 21.1 - 25.8

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Se ID: CCB Seq. No.: 00037 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 1 (Peak Stored) Time: 17:48
Peak Area (A-s): 0.001 Peak Height (A): 0.019
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -3.4

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 17:51
Peak Area (A-s): 0.002 Peak Height (A): 0.015
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -3.1

Mean Conc (ug/L): -3.2 SD: 0.19 RSD(%): 5.98

QC sample is within range

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Se ID: 7XX-JM3177 SS06 Seq. No.: 00038 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 11
Replicate 1 (Peak Stored) Time: 17:54
Peak Area (A-s): 0.010 Peak Height (A): 0.023
Background Pk Area (A-s): 0.508 Background Pk Height (A): 0.230
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.7

uL dispensed: 5 from 39, 15 from 0, 25 from 11
Replicate 2 (Peak Stored) Time: 17:58
Peak Area (A-s): 0.001 Peak Height (A): 0.019
Background Pk Area (A-s): 0.513 Background Pk Height (A): 0.244
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -3.6

Mean Conc (ug/L): -2.1 BB 2-18-94 SD: 2.07 RSD(%): 97.83

Rerun after new calibration
BB 2-19-94

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Se ID: 7XX-JM3177 SS06 Seq. No.: 00039 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11
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[illegible] Seq. No.: 30047 [illegible] Date: 02/18/94

[illegible] dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 1 (Peak Stored) Time: 20:07
Peak Area (A-s): -0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.177 Background Pk Height (A): 0.258
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.1

[illegible] dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 2 (Peak Stored) Time: 20:10
Peak Area (A-s): -0.000 Peak Height (A): 0.016
Background Pk Area (A-s): 0.175 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.6

Mean Conc (ug/L): -1.9 SD: 0.40 RSD(%): 21.12

Autozero performed.

[illegible] ID: STD 1 [illegible] Seq. No.: 30050 A/D Pos.: 40 Date: 02/18/94

[illegible] dispensed: 5 from 39, 35 from 0, 0 from 40
Replicate 1 (Peak Stored) Time: 20:14
Peak Area (A-s): 0.017 Peak Height (A): 0.037
Background Pk Area (A-s): 0.177 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 4.3

[illegible] dispensed: 5 from 39, 35 from 0, 0 from 40
Replicate 2 (Peak Stored) Time: 20:17
Peak Area (A-s): 0.014 Peak Height (A): 0.041
Background Pk Area (A-s): 0.184 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 3.1

Mean Conc (ug/L): 3.7 SD: 0.83 RSD(%): 22.22

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000 Slope: 0.0041 Int: 0.000

Sa[illegible] ID: STD 2 Seq. No.: 30051 A/D Pos.: 40 Date: 02/18/94

[illegible] dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 1 (Peak Stored) Time: 20:21
Peak Area (A-s): 0.028 Peak Height (A): 0.061
Background Pk Area (A-s): 0.182 Background Pk Height (A): 0.266
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 7.1

[illegible] dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 2 (Peak Stored) Time: 20:24

Peak Area (A-s): [illegible] Peak Height (A): 0.064
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): [illegible]

Mean Conc. (ug/L): [illegible] SD: 0.27 RSD(%): 3.85

Standard number 2 applied. [10.0]
Correlation coefficient: 0.97851 Slope: 0.0028 Int: 0.002

Se ID: STD 3 Seq. No.: 00052 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 30 from 0, 10 from 40
Replicate 1 (Peak Stored) Time: 20:27
Peak Area (A-s): 0.068 Peak Height (A): 0.144
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 24.2

uL dispensed: 5 from 39, 30 from 0, 10 from 40
Replicate 2 (Peak Stored) Time: 20:31
Peak Area (A-s): [illegible] Peak Height (A): 0.103
Background Pk Area (A-s): 0.134 Background Pk Height (A): 0.233
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 13.2

Mean Conc. (ug/L): 20.3 SD: 5.74 RSD(%): 29.74 Too high Rerun

SB 2-19-94

Se ID: STD 3 Seq. No.: 00053 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 30 from 0, 10 from 40
Replicate 1 (Peak Stored) Time: 20:34
Peak Area (A-s): [illegible] Peak Height (A): 0.128
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 24.8

uL dispensed: 5 from 39, 30 from 0, 10 from 40
Replicate 2 (Peak Stored) Time: 20:38
Peak Area (A-s): 0.067 Peak Height (A): 0.136
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 23.9

Mean Conc. (ug/L): 24.4 SD: 0.67 RSD(%): 2.76

Standard number 3 applied. [20.0]
Correlation coefficient: 0.99206 Slope: 0.0034 Int: -0.000

Se ID: STD 4 Seq. No.: 00054 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 25 from 0, 15 from 40
Replicate 1 (Peak Stored) Time: 20:41
Peak Area (A-s): 0.106 Peak Height (A): 0.200
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.107

Concentration (ug/L): 31.8

uL dispensed: 5 from 39, 15 from 0. 25 from 40
Replicate (1 Peak Stored) Time: 20:45
Peak Area (A-s): 0.109 Peak Height (A): 0.191
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.110
Concentration (ug/L): 32.8

Mean Conc (ug/L): 32.3 SD: 0.72 RSD(%): 2.23

Standard number 4 applied. [30.0]
Correlation coefficient: 0.99616 Slope: 0.0036 Int: -0.001

Sample ID: 373 5 Seq. No.: 00055 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 20 from 0. 20 from 40
Replicate (1 Peak Stored) Time: 20:48
Peak Area (A-s): 0.133 Peak Height (A): 0.251
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.134
Concentration (ug/L): 37.8

uL dispensed: 5 from 39, 20 from 0. 20 from 40
Replicate (1 Peak Stored) Time: 20:52
Peak Area (A-s): 0.137 Peak Height (A): 0.263
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.138
Concentration (ug/L): 38.9

Mean Conc (ug/L): 38.3 SD: 0.74 RSD(%): 1.92

Standard number 5 applied. [40.0]
Correlation coefficient: 0.99749 Slope: 0.0035 Int: -0.001

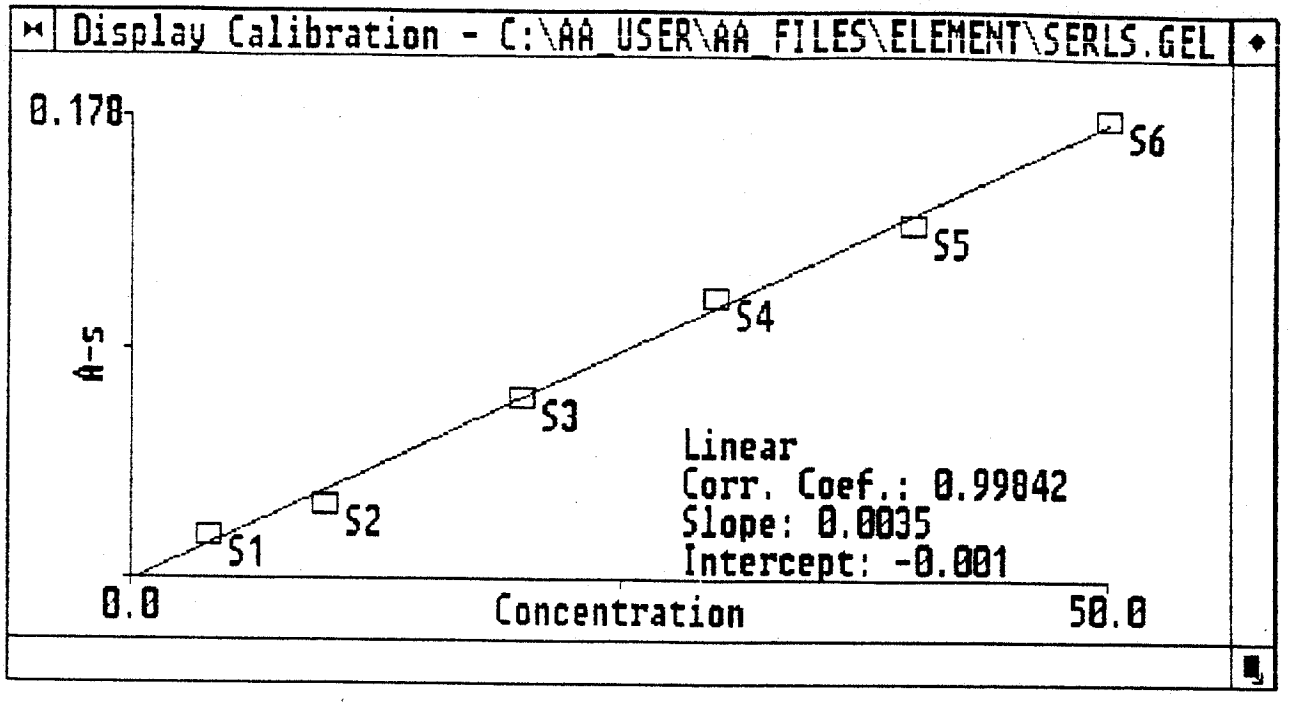
Sample ID: 373 6 Seq. No.: 00056 A/S Pos.: 40 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0. 25 from 40
Replicate (1 Peak Stored) Time: 20:55
Peak Area (A-s): 0.173 Peak Height (A): 0.314
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.174
Concentration (ug/L): 50.2

uL dispensed: 5 from 39, 15 from 0. 25 from 40
Replicate (1 Peak Stored) Time: 20:59
Peak Area (A-s): 0.180 Peak Height (A): 0.333
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.181
Concentration (ug/L): 52.4

Mean Conc (ug/L): 51.3 SD: 1.57 RSD(%): 3.05

Standard number 6 applied. [50.0]
Correlation coefficient: 0.99842 Slope: 0.0035 Int: -0.001



Se ID: [illegible] Seq. No.: 00057 A/S Pos.: 37 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 37
Replicate 1 (Peak Stored) Time: 21:03
Peak Area (A-s): 0.146 Peak Height (A): 0.255
Background Pk Area (A-s): 0.106 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.149
Concentration (ug/L): 41.9

uL dispensed: 5 from 39, 15 from 0, 25 from 37
Replicate 2 (Peak Stored) Time: 21:07
Peak Area (A-s): 0.146 Peak Height (A): 0.244
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 41.8

Mean Conc (ug/L): 42.2 SD: 0.53 RSD(%): 1.27

QC sample is within range 39.2 - 43.0

Se ID: ICB Seq. No.: 00058 A/S Pos.: 0 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 1 (Peak Stored) Time: 21:10
Peak Area (A-s): 0.009 Peak Height (A): 0.016
Background Pk Area (A-s): 0.186 Background Pk Height (A): 0.302
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 3.3

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 21:13
Peak Area (A-s): -0.000 Peak Height (A): 0.014
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.034

Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.5

Mean [illegible] 1.9 SD: 1.96 RSD(%): 103.20

QC sample is within range

Se ID: IFA-0[illegible] Seq. No.: 00059 A/S Pos.: 36 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 1 (Peak Stored) Time: 21:17
Peak Area (A-s): 0.022 Peak Height (A): 0.041
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 6.3

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 2 (Peak Stored) Time: 21:20
Peak Area (A-s): 0.023 Peak Height (A): 0.042
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): [illegible]

GRL 5B 2-19-94

Mean Conc (ug/L): [illegible] SD: 0.14 RSD(%): 2.07

QC sample is out of range 3.8 - 4.35

Se ID: [illegible] Seq. No.: 00060 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 11
Replicate 1 (Peak Stored) Time: 21:24
Peak Area (A-s): 0.007 Peak Height (A): 0.021
Background Pk Area (A-s): 0.472 Background Pk Height (A): 0.147
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 2.5

uL dispensed: 5 from 39, 15 from 0, 25 from 11
Replicate 2 (Peak Stored) Time: 21:27
Peak Area (A-s): 0.001 Peak Height (A): 0.014
Background Pk Area (A-s): 0.477 Background Pk Height (A): 0.149
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 1.0

Mean Conc (ug/L): 1.7 Q SD: 1.07 RSD(%): 62.29

Se ID: 7XX-JH3177 3306 Seq. No.: 00061 A/S Pos.: 11 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11
Replicate 1 (Peak Stored) Time: 21:31
Peak Area (A-s): 0.023 Peak Height (A): 0.046
Background Pk Area (A-s): 0.492 Background Pk Height (A): 0.156
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 7.0

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 11
Replicate 2 (Peak Stored) Time: 21:34

SE

Peak Area (A-s): 0.115 Peak Height (A): 0.132
Background Pk Area (A-s): 0.438 Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 8.0

Mean Conc (ug/L): 7.5 SD: 0.71 RSD(%): 9.40

Recovery is 58.0% (outside of specified limits)

Se ID: TSM-IM3183 MTXS Seq. No.: 00063 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 12
Replicate 1 (Peak Stored) Time: 21:38
Peak Area (A-s): 0.044 Peak Height (A): 0.117
Background Pk Area (A-s): 0.633 Background Pk Height (A): 0.181
Blank Corrected Pk Area (A-s): 0.045
Concentration (ug/L): 13.0

uL dispensed: 5 from 39, 15 from 0, 25 from 12
Replicate 2 (Peak Stored) Time: 21:41
Peak Area (A-s): 0.056 Peak Height (A): 0.119
Background Pk Area (A-s): 0.616 Background Pk Height (A): 0.185
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 16.3

Mean Conc (ug/L): 14.7 SD: 2.34 RSD(%): 15.91

SB 2-19-94 too High Automatic Rerun

Se ID: TSM-IM3183 MTXS Seq. No.: 00063 A/S Pos.: 12 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 12
Replicate 1 (Peak Stored) Time: 21:44
Peak Area (A-s): 0.054 Peak Height (A): 0.118
Background Pk Area (A-s): 0.624 Background Pk Height (A): 0.183
Blank Corrected Pk Area (A-s): 0.055
Concentration (ug/L): 15.9

uL dispensed: 5 from 39, 15 from 0, 25 from 12
Replicate 2 (Peak Stored) Time: 21:48
Peak Area (A-s): 0.064 Peak Height (A): 0.118
Background Pk Area (A-s): 0.623 Background Pk Height (A): 0.181
Blank Corrected Pk Area (A-s): 0.065
Concentration (ug/L): 18.7

Mean Conc (ug/L): 17.3 Q SD: 1.98 RSD(%): 11.47

Se ID: TSD-IM3183 MTXR Seq. No.: 00064 A/S Pos.: 13 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 13
Replicate 1 (Peak Stored) Time: 21:51
Peak Area (A-s): 0.061 Peak Height (A): 0.115
Background Pk Area (A-s): 0.628 Background Pk Height (A): 0.187
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 17.8

uL dispensed: 5 from 39, 15 from 0, 25 from 13
Replicate 2 (Peak Stored) Time: 21:54

SE

Peak Area (A-s): 0.017 Peak Height (A): 0.111
Background Pk Area (A-s): 0.629 Background Pk Height (A): 0.181
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 10.8

mean Conc (ug/L): 17.2 Q SD: 0.34 RSD(%): 4.87

Se ID: 7XX-JM3183 SS12 Seq. No.: 00065 A/S Pos.: 14 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 14
Replicate 1 (Peak Stored) Time: 21:58
Peak Area (A-s): 0.008 Peak Height (A): 0.024
Background Pk Area (A-s): 0.600 Background Pk Height (A): 0.185
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 2.9

uL dispensed: 5 from 39, 15 from 0, 25 from 14
Replicate 2 (Peak Stored) Time: 22:01
Peak Area (A-s): 0.002 Peak Height (A): 0.018
Background Pk Area (A-s): 0.603 Background Pk Height (A): 0.185
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.5

mean Conc (ug/L): 2.2 Q SD: 0.98 RSD(%): 43.39

Se ID: 7XX-JM3183 SS12 Seq. No.: 00066 A/S Pos.: 14 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14
Replicate 1 (Peak Stored) Time: 22:05
Peak Area (A-s): 0.022 Peak Height (A): 0.063
Background Pk Area (A-s): 0.601 Background Pk Height (A): 0.176
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 6.8

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 14
Replicate 2 (Peak Stored) Time: 22:08
Peak Area (A-s): 0.025 Peak Height (A): 0.055
Background Pk Area (A-s): 0.602 Background Pk Height (A): 0.176
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 7.7

mean Conc (ug/L): 7.2 SD: 0.67 RSD(%): 9.23

Recovery is 49.8% (outside of specified limits)

Se ID: 7XX-JM3183 DUP Seq. No.: 00067 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 15
Replicate 1 (Peak Stored) Time: 22:12
Peak Area (A-s): 0.005 Peak Height (A): 0.020
Background Pk Area (A-s): 0.613 Background Pk Height (A): 0.183
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.9

uL dispensed: 5 from 39, 15 from 0, 25 from 15
Replicate 2 (Peak Stored) Time: 22:15

Peak Area (A-s): 0.006 Peak Height (A): 0.018
Background Pk Area (A-s): 0.610 Background Pk Height (A): 0.177
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): 2.3

mean Conc (ug/L): 2.1 Q SD: 0.27 RSD(%): 12.78

Se ID: TXX-JM3183 DUP Seq. No.: 00068 A/S Pos.: 15 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15
Replicate 1 (Peak Stored) Time: 22:18
Peak Area (A-s): 0.024 Peak Height (A): 0.053
Background Pk Area (A-s): 0.618 Background Pk Height (A): 0.181
Blank Corrected Pk Area (A-s): 0.025
Concentration (ug/L): 7.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 15
Replicate 2 (Peak Stored) Time: 22:22
Peak Area (A-s): 0.030 Peak Height (A): 0.059
Background Pk Area (A-s): 0.613 Background Pk Height (A): 0.177
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 9.1

mean Conc (ug/L): 8.2 SD: 1.14 RSD(%): 13.91

Recovery is 80.4% (outside of specified limits)

Se ID: TXX-JM3179 SS08 Seq. No.: 00069 A/S Pos.: 16 Date: 02/18/94

uL dispensed: 5 from 39, 15 from 0, 25 from 16
Replicate 1 (Peak Stored) Time: 22:25
Peak Area (A-s): 0.000 Peak Height (A): 0.018
Background Pk Area (A-s): 0.598 Background Pk Height (A): 0.175
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): 0.7

uL dispensed: 5 from 39, 15 from 0, 25 from 16
Replicate 2 (Peak Stored) Time: 22:29
Peak Area (A-s): 0.009 Peak Height (A): 0.018
Background Pk Area (A-s): 0.581 Background Pk Height (A): 0.178
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 3.2

mean Conc (ug/L): 1.9 Q SD: 1.78 RSD(%): 93.02

Se ID: TXX-JM3179 SS08 Seq. No.: 00070 A/S Pos.: 16 Date: 02/18/94

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16
Replicate 1 (Peak Stored) Time: 22:32
Peak Area (A-s): 0.028 Peak Height (A): 0.066
Background Pk Area (A-s): 0.587 Background Pk Height (A): 0.167
Blank Corrected Pk Area (A-s): 0.029
Concentration (ug/L): 8.4

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 16
Replicate 2 (Peak Stored) Time: 22:36

Peak Area (A-s): 0.037 Peak Height (A): 0.160
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.171
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 7.1

Mean Conc (ug/L): 7.3 SD: 0.90 RSD(%): 11.57

Recovery is 59.8% (outside of specified limits)

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Concentration (ug/L): -0.3

ul dispensed: 5 from 39, 15 from 0, 25 from 17
Replicate 1 (Peak Stored) Time: 22:51
Peak Area (A-s): -0.002 Peak Height (A): 0.017
Background Pk Area (A-s): 0.643 Background Pk Height (A): 0.189
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.1

Mean Conc (ug/L): -0.5 Q SD: 0.52 RSD(%): 110.93

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SB

Concentration (ug/L): 8.3

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 18
Replicate 1 (Peak Stored) Time: 23:17
Peak Area (A-s): 0.032 Peak Height (A): 0.059
Background Pk Area (A-s): 0.646 Background Pk Height (A): 0.185
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 9.8

Mean Conc (ug/L): 8.3 SD: 2.09 RSD(%): 25.28

too high
Rerun
SB
2-19-9

Recovery is 73.4% (outside of specified limits)

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Background Pk Area (A-s): 0.656 Background Pk Height (A): 0.187
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 7.1

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 19
Replicate 2 (Peak Stored) Time: 23:38
Peak Area (A-s): 0.031 Peak Height (A): 0.069
Background Pk Area (A-s): 0.662 Background Pk Height (A): 0.183
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 9.5

Mean Conc (ug/L): 8.3 SD: 1.66 RSD(%): 19.98

SB 2-18-94 too high Rerun

Recovery is 85.0% (outside of specified limits)

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Replicate 1 (Peak Stored) Time: 13:56
Peak Area (A-s): 0.052 Peak Height (A): 0.105
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.186
Blank Corrected Pk Area (A-s): 0.054
Concentration (ug/L): 15.6

uL dispensed: 5 from 39, 15 from 0, 25 from 21
Replicate 2 (Peak Stored) Time: 00:00
Peak Area (A-s): 0.055 Peak Height (A): 0.116
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.179
Blank Corrected Pk Area (A-s): 0.056
Concentration (ug/L): 16.1

Mean Conc (ug/L): 15.9 Q SD: 0.30 RSD(%): 1.90

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Element File: SERLS.GEL
Element: Se
Analyst: RLS
Print Data: Main+Suppl.
Peak Storage: All
Print: Calib. Curve+Elem. Params.

INSTRUMENT: 5100
Technique: HGA
Version: 7.10
Wavelength: 196.0 Peak
Slit: 0.70 Low
Signal Type: Zeeman AA
Signal Measurement: Peak Area
Read Time: 6.0
Read Delay: 0.0
BOC Time: 2
Sample Replicates: 2
Standard Replicates: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	CAL BLANK	----------	0	35	15	5	
Standard 1	STD 1 IN-0782	4.0	40	2	38	5	
Standard 2	STD 2	10.0	40	5	35	5	
Standard 3	STD 3	20.0	40	10	30	5	
Standard 4	STD 4	30.0	40	15	25	5	
Standard 5	STD 5	40.0	40	20	20	5	
Standard 6	STD 6	50.0	40	25	15	5	
Samples	----------	----------	--------	25	15	5	

Diluent Location: 0
Modifier #1 Location: 39
Modifier #2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	110	5	40	300		Norm
2	150	10	10	300		Norm
3	800	10	30	300		Norm
4	20	1	15	300		Norm
5	2300	0	5	0	*	Norm
6	2600	2	5	300		Norm

Injection Temp: 20
Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet modifier 1 + diluent + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Autozero Only
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After 1 Rep
Alternate Sample Volumes (uL): 10
Run Alternate Volume Blanks: No

If %RSD > 15.0 and Concentration > 4 then Retry 1 times
Check %RSD on: Samples + Standards + Spikes + QC Samples

Recovery Measurements:
5 uL of 50 ug/L Standard at Location 40 Gives 10.0 ug/L
Measure Recovery on Samples: 1-11,14-19,22-32
Add to QC Samples: No
% Recovery Limits: 85 to 115

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	37	ICV-0793	35.2	43.0	X			
2	0	ICB			X			
3	38	CCV-0793	21.1	25.8		X	X	
4	0	CCB				X	X	
5	36	CRA-0795	3.81	6.35	X		X	

Run Periodic QC Samples: Every 10
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: Yes Locations: 1,2
% Recovery for Spike: Yes Locations: 3,4 Conc: 20 ug/L

Element File: SERLS.GEL Element: Se Wavelength: 196.0
Date: 02/19/94 Time: 08:24 Slit: 0.70 L
Data File: A021994.DAT ID/Wt File: B021894.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 55

Se ID: CAL BLANK Seq. No.: 00001 A/S Pos.: 0 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 1 (Peak Stored) Time: 08:27
Peak Area (A-s): 0.003 Peak Height (A): 0.023
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.7

uL dispensed: 5 from 39, 15 from 0, 35 from 0
Replicate 2 (Peak Stored) Time: 08:30
Peak Area (A-s): -0.002 Peak Height (A): 0.013
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.1

Mean Conc (ug/L): -0.2 SD: 1.24 RSD(%): 702.93

Auto-zero performed.

Se ID: STD 1 IN-0782 Seq. No.: 00002 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 1 (Peak Stored) Time: 08:34
Peak Area (A-s): 0.010 Peak Height (A): 0.028
Background Pk Area (A-s): 0.178 Background Pk Height (A): 0.238
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 3.3

uL dispensed: 5 from 39, 38 from 0, 2 from 40
Replicate 2 (Peak Stored) Time: 08:37
Peak Area (A-s): 0.016 Peak Height (A): 0.035
Background Pk Area (A-s): 0.183 Background Pk Height (A): 0.250
Blank Corrected Pk Area (A-s): 0.015
Concentration (ug/L): 5.2

Mean Conc (ug/L): 4.3 SD: 1.36 RSD(%): 31.89

Standard number 1 applied. [4.0]
Correlation coefficient: 1.00000 Slope: 0.0031 Int: 0.000

Se ID: STD 2 Seq. No.: 00003 A/S Pos.: 40 Date: 02/19/94

uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 1 (Peak Stored) Time: 08:40
Peak Area (A-s): 0.026 Peak Height (A): 0.065
Background Pk Area (A-s): 0.180 Background Pk Height (A): 0.223
Blank Corrected Pk Area (A-s): 0.026
Concentration (ug/L): 8.3

uL dispensed: 5 from 39, 35 from 0, 5 from 40
Replicate 2 (Peak Stored) Time: 08:44
Peak Area (A-s): 0.030 Peak Height (A): 0.058
Background Pk Area (A-s): 0.186 Background Pk Height (A): 0.218
Blank Corrected Pk Area (A-s): 0.030
Concentration (ug/L): 9.7

Mean Conc (ug/L): 9.0 SD: 0.99 RSD(%): 11.03

Standard number 2 applied. [10.0]
Correlation coefficient: 0.99874 Slope: 0.0028 Int: 0.000

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Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 37.7

uL dispensed: 5 from 39, 25 from 0, 15 from 40
Replicate 2 (Peak Stored) Time: 09:05
Peak Area (A-s): 0.103 Peak Height (A): 0.190
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.103
Concentration (ug/L): 40.3

Mean Conc (ug/L): 39.0 SD: 1.84 RSD(%): 4.71

Standard number 4 applied. [30.0]
Correlation coefficient: 0.98691 Slope: 0.0032 Int: -0.002

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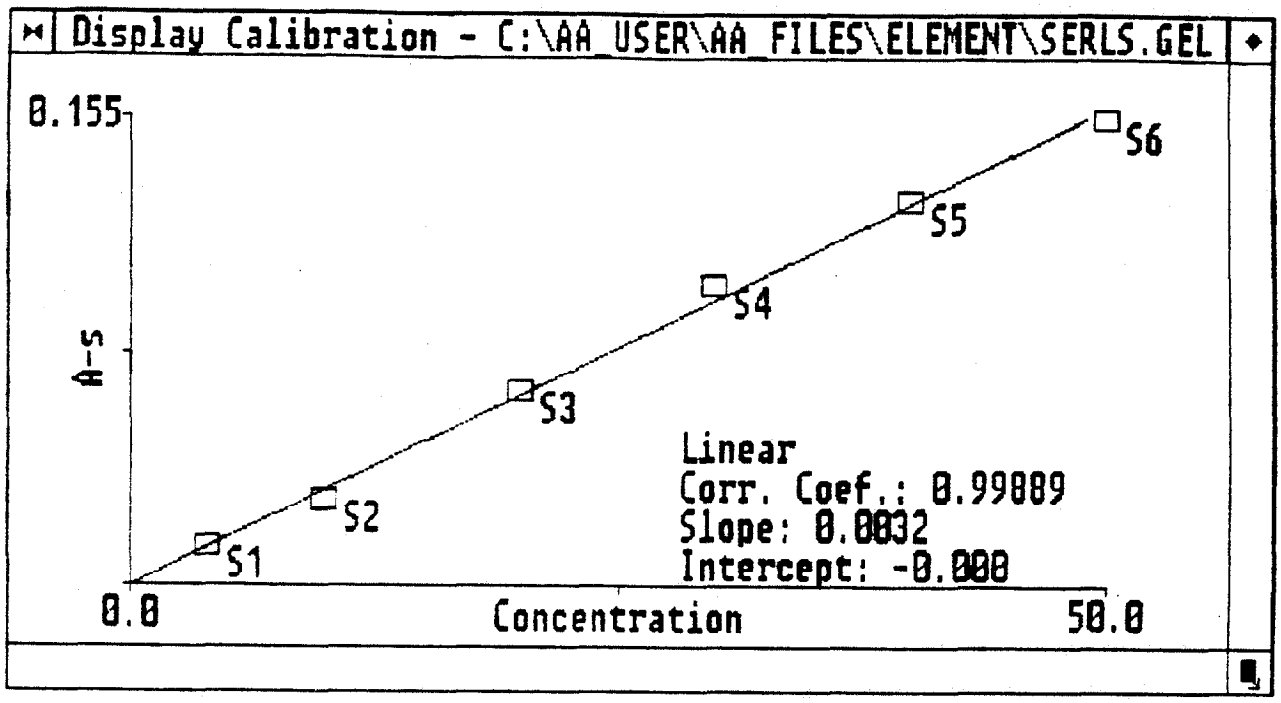
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 22.0

Mean Conc (ug/L): 21.2 SD: 1.21 RSD(%): 5.72

Standard number 3 applied. [20.0]
Correlation coefficient: 0.99889 Slope: 0.0032 Int: -0.000

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Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 1.1

uL dispensed: 5 from 39, 15 from 0, 25 from 0
Replicate 2 (Peak Stored) Time: 09:56
Peak Area (A-s): 0.005 Peak Height (A): 0.014
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 1.4

Mean Conc (ug/L): 1.2 SD: 0.21 RSD(%): 16.50

QC sample is within range

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Se ID: CRA-0795 Seq. No.: 00013 A/S Pos.: 36 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 1 (Peak Stored) Time: 09:59
Peak Area (A-s): 0.020 Peak Height (A): 0.036
Background Pk Area (A-s): 0.147 Background Pk Height (A): 0.163
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 6.2

uL dispensed: 5 from 39, 15 from 0, 25 from 36
Replicate 2 (Peak Stored) Time: 10:03
Peak Area (A-s): 0.021 Peak Height (A): 0.037
Background Pk Area (A-s): 0.166 Background Pk Height (A): 0.169
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 6.7

Mean Conc (ug/L): 6.4 SD: 0.37 RSD(%): 5.70

QC sample is out of range 3.81 - 6.35 SB

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Se ID: PBL-N7R37~~91~~ 77 SB 2-20-94 Seq. No.: 00014 A/S Pos.: 3 Date: 02/19/94

uL dispensed: 5 from 39, 15 from 0, 25 from 3
Replicate 1 (Peak Stored) Time: 10:06
Peak Area (A-s): 0.001 Peak Height (A): 0.014
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): 0.1

uL dispensed: 5 from 39, 15 from 0, 25 from 3
Replicate 2 (Peak Stored) Time: 10:10
Peak Area (A-s): 0.004 Peak Height (A): 0.016
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 1.1

Mean Conc (ug/L): 0.6 Q SD: 0.68 RSD(%): 116.91

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Se ID: PBL-N7R37~~91~~ 77 2-20-94 Seq. No.: 00015 A/S Pos.: 3 Date: 02/19/94
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uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 3
Replicate 1 (Peak Stored) Time: 10:13
Peak Area (A-s): 0.035 Peak Height (A): 0.067
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 10.9

uL dispensed: 5 from 39, 10 from 0, 5 from 40, 25 from 3
Replicate 2 (Peak Stored) Time: 10:17
Peak Area (A-s): 0.035 Peak Height (A): 0.080
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 10.9

Mean Conc (ug/L): 10.9 SD: 0.03 RSD(%): 0.28

Recovery is 103.2%

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QC BATCH # N7B3773

Analyst: BJF Date: 2/9/94 Method #: 3020 Notebook: _____

Reagent Codes:

HNO_3 G41050 H_2SO_4 _____ NH_2OH HCL _____

HCl _____ $KMNO_4$ _____ NaCl _____

H_2O_2 G17802 $K_2S_2O_8$ _____ $SnCl_2$ _____

DI _____

Spike Codes:

ICP _____ mL ____

HGA 0768 mL 5.0

Stock Hg _____

TCLP _____ mL ____

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JM3169	15226N	CLW-D501					
2 3170		01A					
3 3171		01B					
4 3172		CLW-C501					
5 3173		02					
6 3174		03					
7 3175		04					
8 3176		05					
9 3177		06					
10 3178		07					
11							Replicate
12	TCLP	BSK					
13							
14							
15							
16							
17							
18							
19							
20							Bruce J. Firestone 2-9-94
MTX SPK	15226N	CLW-C507	50	50			
JM3178							
MTX SPK DUP							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By Date

QC BATCH # N7M3777

Analyst: MJF Date: ~~2/8/94~~ 2/9/94 RJF Method #: 3020 Notebook: _____

Reagent Codes:

HNO_3 G41050 H_2SO_4 _____ NH_2OH HCL _____

HCl _____ $KMNO_4$ _____ NaCl _____

H_2O_2 G7802 $K_2S_2O_8$ _____ $SnCl_2$ _____

DI _____

Spike Codes:

ICP _____ mL ____

HGA 07168 mL 5.0

Stock Hg _____

TCLP _____ mL ____

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JN3179	15226N	CLJC5508					
2 3180		09					
3 3181		10					
4 3182		11					
5 3183		12					
6 ~~3184~~		13					
7 ~~3185~~		14					
8 3186		15				NOT Ready	
9 ~~3187~~		16					
10 ~~3188~~		17					
11 ~~3189~~		18					
12 3183		12					Replicate.
13							
14							
15							
16							
17							
18							
19							
20							Presence of Firestone 2-9-94
MTX SPK	15226N	CLJC5508	50	50			
~~JN3189~~ RJF		12					
MTX SPK DUP							
JM 3183							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					See prev Batch for (N7R3773)
#2					TCLP Blank
#3					Samples marked out
#4					were not yet tumbled
#5					

Water Bath Temp.: _____

Read and Understood By Date

QC BATCH # N7B3791

Analyst: BJF Date: 2/14/94 Method #: 3020 Notebook: _____

Reagent Codes:

HNO_3 G41C50 H_2SO_4 _____ NH_2OH HCL _____

HCl _____ $KMNO_4$ _____ NaCl _____

H_2O_2 G17802 $K_2S_2O_8$ _____ $SnCl_2$ _____

DI _____

Spike Codes:

ICP _____ mL ____

HGA 07768 mL 5.0n

Stock Hg _____

TCLP _____ mL ____

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JN3184	15226N	CLKSS13					
2 3185		14					
3 3186		15					
4 3187		16					
5 3188		17					
6 3189		18					
7 3190		19					
8 3191		20					
9 3192		21					
10 3193		22				Replicate	
11 ↓	↓	↓	↓	↓			
12 —	TCLP	BLK	50	50			
13							
14							
15							
16							
17							
18							
19							
20							Renee J. Jenestone 2-14-94
MTX SPK	15226N	CLKSS22	50	50			
JM3193							
MTX SPK DUP	↓	↓	↓	↓			

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By Date

HG Daily Run Log -- Leeman PS2000

Date: 2/9/94 Method: 7470 Analyst: SBB

Calibration STD: 0774 Aperture Test: (accept 0 - 100) 7

Correlation: .999868 Slope: 3.76115×10^{-5} Int: 7.19635×10^{-3}

Data File: HG020994

Run #		Job ID #	Project #	Sample #	Batch #	Dilutions
SBB 2/9/94	3	STD 1	0 ppm Hg			
2	4	↓	↓			
3	5	↓	↓			
4	6	STD 2	0.20 ppm Hg			
5	7	↓	↓			
6	8	↓	↓			
7	9	STD 3	0.50 ppm Hg			
8	10	↓	↓			
9	11	↓	↓			
10	12	STD 4	2.0 ppm Hg			
11	13	↓	↓			
12	14	↓	↓			
13	15	STD 5	5.0 ppm Hg			
14	16	↓	↓			
15	17	↓	↓			
16	18	STD 6	10.0 ppm Hg			
17	19	↓	↓			
18	20	↓	↓			
19	21	STD 4	5.0 ppm Hg			
20	22	↓	↓			
21	23	↓	↓			
22	25	STD 1	0 ppm Hg			

COMMENTS/MAINTENANCE:
First attempted calibration failed (Run 3-23), recalibrated OK

HG Daily Run Log -- Leeman PS2000

Date: 2/9/94 cont Method: 7470 Analyst: SBB

Calibration STD: _____ Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: HG020994

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
28	STD 1	0 ppm Hg			
27 SB 2.9.94	↓	↓			
28	STD 2	0.20 ppm Hg			
29	↓	↓			
29 30	↓	↓			
30 SB 2.9.94	STD 3	0.50 ppm Hg			
32	↓	↓			
33	↓	↓			
34	STD 4	2.0 ppm Hg			
35	↓	↓			
36	↓	↓			
37	STD 5	5.0 ppm Hg			
38	↓	↓			
39	↓	↓			
40	STD 6	10 ppm Hg			
41	↓	↓			
42	↓	↓			
43	Chk STD 1	ICB (0 ppm)	pass		
44	Chk STD 2	ICV (5 ppm)	pass		
45	Chk STD 3	LLC (0.2 ppm)	pass		
46	Q1G3769G	—	MET BLK	Q1G3769	1x
47	Q1G3769G	—	MET BLK	↓	1x

COMMENTS/MAINTENANCE:

HG Daily Run Log -- Leeman PS2000

Date: 2/9/94 cont. Method: 7470 Analyst: SBB

Calibration STD: _____ Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: HG020994

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
48	Q1G3769GS	—	MET SPK	Q1G3769	1x
49	JM3159GS	15725T	002A MTX SPK	↓	100x ~~1000x~~ SB 2-9-
50	JM3159GR	↓	002A MTX SPK REP	↓	100x
51	JM3159G	↓	002A	↓	100x
52	JM ~~3160G~~ 3153G SB 2-9-94	↓	008A	↓	100x
~~53~~	~~JM 3153G~~	SB 2-9-94	~~008A~~	↓	~~5000x~~
53	Chk Std 1	CCB (0 ppm)	pass		
54	JM3153G	15725T	008A	Q1G3769	5000x
55	JM3160G	↓	004A	↓	100x
56	Chk Std 1	CCB (0 ppm)	pass		
57	Chk Std 2	CCV (5 ppm)	pass		
58	JM3160G	15725T	004A	Q1G3769	5000x
59	Q7G3770G	—	MET BLK	Q7G3770	1x
60	Q7G3770GS	—	MET SPK	↓	1x
61	JM3197GS	300553	2 MTX SPK	↓	1x
62	JM3197GR	↓	2 MTX SPK REP	↓	1x
63	JM3197G	↓	2	↓	1x
64	~~JM 3196G~~ JM 3197GG SB 2-9-94	↓	2 DUPLICATE	↓	1x
~~65~~	~~—~~	~~TCLP BLK~~	~~2-9-94~~	SB 2-9-94	~~1x~~
65	JM3196G	300553	1	Q7G3770	1x
66	—	TCLP BLK	2-9-94	↓	1x
67	N7G3772G	—	MET BLK	N7G3772	1x

COMMENTS/MAINTENANCE:

HG Daily Run Log -- Leeman PS2000

Date: 2/9/94 cont. Method: 7470 Analyst: SEB

Calibration STD: _____ Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: HG020994

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
68	Chk Std 1	CCB (0 ppm)	pass		
69	Chk Std 2	CCV (5 ppm)	pass		
70	N7G3772GS	—	MET SPK	N7G3772	1x
71	JM3178GS	15226N	MTX SPK CLJ-CSS-07		1x
72	JM3178GR		MTX SPK REP CLJ-CSS-07		1x
73	JM3178G		CLJ-CSS-07		1x
74	JM3178G		CLJ-CSS-07		10x
75	JM3178GS		MTX SPK CLJ-CSS-07		10x
76	Chk Std 1	CCB (0 ppm)	pass		
77	Chk Std 2	CCV (5 ppm)	pass		
78	N7G3775G	—	MET BLK	N7G3775 2-9-94 1	1x
79	N7G3775GS	—	MET SPK		1x
80	JM3183GS	15226N	MTX SPK CLJ-CSS-12		1x
81	JM3183GR		MTX SPK REP CLJ-CSS-12		1x
82	JM3183G		CLJ-CSS-12		1x
83	JM3183GG		DUPLICATE CLJ-CSS-12		1x
84	JM3179G		CLJ-CSS-08		1x
85	JM3180G		CLJ-CSS-09		1x
86	JM3181G		CLJ-CSS-10		1x
87	JM3182G		CLJ-CSS-11		1x
88	Chk Std 1	CCB (0 ppm)	pass		
89	Chk Std 2	CCV (5 ppm)			

COMMENTS/MAINTENANCE:

Sent N7G3772 back for redo (matrix spk does not agree with sample)

HG Daily Run Log -- Leeman PS2000

Page: 0490 020

Date: 2/9/94 cont. Method: 7470 Analyst: SBB

Calibration STD: _____ Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: HG02C994

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
90	Chk Std 3	LLC (0.3ppm)			
91	JM 3178GG	7 confirming contaminated bottle / redo			
92	JM 3178G	5 DO NOT QUANT			

COMMENTS/MAINTENANCE: Susan Bentz 2-9-94

(c:\WP51\FORMS\HG-RUNLG.630) (REVISED: 5/20/93)

HG Daily Run Log -- Leeman PS2000

Date: 2/10/94 Method: 7470 Analyst: SBB

Calibration STD: 0774 Aperture Test: (accept 0 - 100) 20

Correlation: .999539 Slope: 3.95192×10^{-5} Int: -5.42231×10^{-2}

Data File: HG021C94

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
1	STD 1	0ppm Hg			
2	↓	↓			
3	↓	↓			
4	STD 2	0.20 ppm Hg			
5	↓	↓			
6	↓	↓			
7	STD 3	0.50 ppm Hg			
8	↓	↓			
9	↓	↓			
10	STD 4	2.0 ppm Hg			
11	↓	↓			
12	↓	↓			
13	STD 5	5.0 ppm Hg			
14	↓	↓			
15	↓	↓			
16	STD 6	10.0 ppm Hg			
17	↓	↓			
18	↓	↓			
19	Chk Std 1	ICB (0ppm)	pass		
20	Chk Std 2	ICV (5ppm)	pass		
21	Chk Std 3	LLC (0.2ppm)	pass		
22	Q7G3781G	—	MET BLK	Q7G3781	1x

COMMENTS/MAINTENANCE:

HG Daily Run Log -- Leeman PS2000

Date: 2/10/94 cont. Method: 7470 Analyst: SBB

Calibration STD: _____ Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: HG021094

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
23	Q7G3781GS	—	MET SPK	Q7G3781	1x
24	JM3226GS	14344C	11031 MTX SPK		
25	JM3226GR		11031 MTX SPK BGP		
26	JM3226G		11031		
27	JM3226GG		11031 DUPLICATE		
28	JM3220G		11030		
29	TCLP BLK	—	2-10-94		
30	N7G3772G	SP 2-10-94 ~~N7G3772R~~	MET BLK	N7G3772R	1x
31	N7G3772GS	—	MET SPK		
32	Chk Std 1	CCB (0 ppm)	pass		
33	Chk Std 2	CCV (5 ppm)	pass		
34	JM3178GS	15226N	MTX SPK CLJ-CSS-07	N7G3772R	1x
35	JM3178GR		MTX SPK REP CLJ-CSS-07		
36	JM3178G		CLJ-CSS-07		
37	JM3178GG		DUPLICATE CLJ-CSS-07		
38	JM3169G		CLJ-DS-01		
39	JM3170G		CLJ-DS-01A		
40	JM3171G		CLJ-DS-01B		
41	JM3172G		CLJ-CSS-01		
42	JM3173G		CLJ-CSS-02		
43	JM3174G		CLJ-CSS-03		
44	Chk Std 1	CCB (0 ppm)	pass		

COMMENTS/MAINTENANCE:

HG Daily Run Log -- Leeman PS2000

Date: 2/10/94 cont. Method: 7470 Analyst: SBB

Calibration STD: 0774 Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: HG021094

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
45	Chk Std 2	CCV (5 ppm)	pass		
46	JM 3175G	15226N	CLJ-CSS-04	N7G3772R	1x
47	JM 3176G	↓	CLJ-CSS-05	↓	↓
48	JM 3177G	↓	CLJ-CSS-06	↓	↓
49	TCLP BLK	—	2-9-94	↓	↓
50	Chk Std 1	CCB (0 ppm)	pass		
51	Chk Std 2	CCV (5 ppm)	pass		
52	Chk Std 3	LLC (0.2 ppm)	pass		

Susan Bentz 2-10-94

COMMENTS/MAINTENANCE:

HG Daily Run Log -- Leeman PS2000

Page: 0027

Date: 2/14/94 Method: 7470 Analyst: ~~BOS~~ 0027

Calibration STD: 0774 Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: HG021494

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
1	STD 1				
2	↓				
3	↓				
4	STD 2				
5	↓				
6	↓				
7	STD 3				
8	↓				
9	↓				
10	STD 4				
11	↓				
12	↓				
13	STD 5				
14	↓				
15	↓				
16	STD 6				
17	↓				
18	↓				
19	CK STD 1	ICB	(PASS)		
20	CK STD 2	ICV	(PASS)		
21	CK STD 3	LLC	(PASS)		
22	N7G3792G	METBLK		N7G3792	1

COMMENTS/MAINTENANCE:

Cont.

HG Daily Run Log -- Leeman PS2000

Page: ~~0028~~

Date: ~~R~~ 02/14/94 Method: 7470 Analyst: RJF

Calibration STD: 0774 Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: _____

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
23	N7G3792GS	MET SPIKE		N7G3792	
24	JM3193 GS	MTX SPIKE	15226N-CLJCSS22		
25	↓ GB	MTX SPK Dup	↓		
26	↓ G	15226N-CLJCSS 22			
27	GD	↓	Replicate		
28	JM3184G	↓	13		
29	3185G	↓	14		
30	3186G	↓	15		
31	3187G	↓	16		
32	3188G	↓	17		
33	CK STD1	CCB	(PASS)		
34	CKSTD2	CCV	(PASS)		
35	~~CK STD3~~	~~LLC~~	N/A		
36	JM 3189G	15226N	CLJCSS18		
37	3190G	↓	↓ 19		
38	3191G	↓	↓ 20		
39	3192G	↓	↓ 21		
40	TCLP BLK			↓	
41	Q7G3789G	MET BLK		Q7G3789G	
42	↓ GS	MET SPK		↓	
43	JM3036GS	MTX SPK	15372-1741		
44	↓ GB	MTX SPK Dup	↓	↓	

COMMENTS/MAINTENANCE:

Cont.

HG Daily Run Log -- Leeman PS2000

Date: 2/14/94 Method: 7470 Analyst: BJF

Calibration STD: 0774 Aperture Test: (accept 0 - 100) _____

Correlation: _____ Slope: _____ Int: _____

Data File: Hg021494

Run #	Job ID #	Project #	Sample #	Batch #	Dilutions
45 ~~JM3036G~~	JM3036G ~~15372 RF~~	15372	1741	Q763792	
46	CCB	CK STD1			
47 ~~RF~~	CCV	CK STD2			
48 ~~RF~~	~~LLC~~	~~CK STD3~~	N/A		
49 ~~RF~~	JM3036	15372-1741	Replicate		
50 ~~RF~~	3039G	↓ 1744			
51 ~~RF~~	3045G	↓ 1750			
52 ~~RF~~	3046G	↓ 1751			
53 ~~RF~~	3231G	15699G-	LS-001		
54 ~~RF~~	3232G	↓	LW-002		
55 ~~RF~~	TCLP	Blank		↓	
56 ~~RF~~	CCB	CK STD 1	PASS		
57 ~~RF~~	CCV	↓ 2	PASS		
58 ~~RF~~	LLC	↓ 3	See rerun		
59 ~~RF~~	↓	CK STD3	Pass		
60 ~~RF~~					
61 ~~RF~~					
62 ~~RF~~					
63 ~~RF~~					
64 ~~RF~~					
65					
66					

Beverly Freestone 2-14-94

COMMENTS/MAINTENANCE:

```
Protocol: ASCHG
                    Rev: 2.008   Time: 09:36:57  09 Feb 1994
Folder: HG020994    Seq: 2                      Print: On
User:               Batch:            Id:            Cup:      Gas:    0.30 LPM
State: Idle                                          Xmit: Off Autosampler: On
```

AUTOSAMPLER: Rack entry Rack FRED Range 1 -44 Clear seQ Undo eXit

cup	Id	Extended id	Weight	Volume	Macro checK Help
1	Q1G3769G	MET BLK	1.0000	1.0000	
2	Q1G3769GS	MET SPK	1.0000	1.0000	
3	JM3159GS	MTX SPK	1.0000	1.0000	
4	JM3159GR	MTX SPK REP	1.0000	1.0000	
5	JM3159G	002A	1.0000	1.0000	
6	JM3153G	008A	1.0000	1.0000	
7	JM3160G	004A	1.0000	1.0000	
8	Q7G3770G	MET BLK	1.0000	1.0000	
9	Q7G3770GS	MET SPK	1.0000	1.0000	
10	JM3197GS	MTX SPK	1.0000	1.0000	
11	JM3197GR	MTX SPK REP	1.0000	1.0000	
12	JM3197G	2	1.0000	1.0000	
13	JM3197GG	DUPLICATE	1.0000	1.0000	
14	JM3196G	1	1.0000	1.0000	
15	TCLP BLK	2-9-94	1.0000	1.0000	

PgDn

Column entry, Ins to switch

Protocol: ASCHG

Rev: 2.008 Time: 09:38:35 09 Feb 1994

Folder: HG020994 Seq: 2 Print: On

User: Batch: Id: Cup: Gas: 0.30 LPM

State: Idle Xmit: Off Autosampler: On

AUTOSAMPLER: Rack entry Rack FRED Range 1 -44 Clear seQ Undo eXit PgUp

cup	Id	Extended id	Weight	Volume	Macro checK Help
16	N7G3772G	MET BLK	1.0000	1.0000	
17	N7G3772GS	MET SPK	1.0000	1.0000	
18	JM3178GS	MTX SPK	1.0000	1.0000	
19	JM3178GR	MTX SPK REP	1.0000	1.0000	
20	JM3178G	CLJ-CSS-07	1.0000	1.0000	
21	JM3178GG	DUPLICATE	1.0000	1.0000	
22	JM3169G	CLJ-DS-01	1.0000	1.0000	
23	JM3170G	CLJ-DS-01A	1.0000	1.0000	
24	JM3171G	CLJ-DS-01B	1.0000	1.0000	
25	JM3172G	CLJ-CSS-01	1.0000	1.0000	
26	JM3173G	CLJ-CSS-02	1.0000	1.0000	
27	JM3174G	CLJ-CSS-03	1.0000	1.0000	
28	JM3175G	CLJ-CSS-04	1.0000	1.0000	
29	JM3176G	CLJ-CSS-05	1.0000	1.0000	
30	JM3177G	CLJ-CSS-06	1.0000	1.0000	

Sent back for redo SB 2-9-94

PgDn

Column entry, Ins to switch

Protocol: ASCHG

Rev: 2.008 Time: 12:55:19 09 Feb 1994

Folder: HG020994 Seq: 56 Print: On

User: Batch: Id: JM3160G Cup: 1 07 Gas: 0.30 LPM

State: Idle Xmit: Off Autosampler: On

AUTOSAMPLER: Rack entry Rack FRED Range 1 -41 Clear seQ Undo eXit PgUp

cup	Id	Extended id	Weight	Volume	Macro checK Help
~~31~~	~~TCLP BLK~~	~~2-9-94~~	~~1.0000~~	~~1.0000~~	Redo 2-4-94
32	N7G3775G	MET BLK	1.0000	1.0000	
33	N7G3775GS	MET SPK	1.0000	1.0000	
34	JM3183GS	MTX SPK	1.0000	1.0000	
35	JM3183GR	MTX SPK REP	1.0000	1.0000	
36	JM3183G	CLJ-CSS-12	1.0000	1.0000	
37	JM3183GG	DUPLICATE	1.0000	1.0000	
38	JM3179G	CLJ-CSS-08	1.0000	1.0000	
39	JM3180G	CLJ-CSS-09	1.0000	1.0000	
40	JM3181G	CLJ-CSS-10	1.0000	1.0000	
41	JM3182G	CLJ-CSS-11	1.0000	1.0000	
42			1.0000	1.0000	
43			1.0000	1.0000	
44			1.0000	1.0000	

Column entry, Ins to switch

09:47:16 09 Feb 1994 Folder: HG020994 Protocol: ASCHG Page 1

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 3 09:47:16 09 Feb 1994 HG

Hg .000 ppb -308
Ave. Int. = -308 S. D. = 0

*** Standard: 1 Rep: 2 Seq: 4 09:50:38 09 Feb 1994 HG

Hg .000 ppb 2279
Ave. Int. = 2279 S. D. = 0

*** Standard: 1 Rep: 3 Seq: 5 09:54:00 09 Feb 1994 HG

Hg .000 ppb 1709
Ave. Int. = 1709 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 6 09:57:22 09 Feb 1994 HG

Hg .200 ppb 5118
Ave. Int. = 5118 S. D. = 0

*** Standard: 2 Rep: 2 Seq: 7 10:00:44 09 Feb 1994 HG

Hg .200 ppb 5526
Ave. Int. = 5526 S. D. = 0

*** Standard: 2 Rep: 3 Seq: 8 10:04:06 09 Feb 1994 HG

Hg .200 ppb 3271
Ave. Int. = 3271 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 9 10:07:28 09 Feb 1994 HG

Hg .500 ppb 12868
Ave. Int. = 12868 S. D. = 0

*** Standard: 3 Rep: 2 Seq: 10 10:10:50 09 Feb 1994 HG

Hg .500 ppb 11112
Ave. Int. = 11112 S. D. = 0

*** Standard: 3 Rep: 3 Seq: 11 10:14:12 09 Feb 1994 HG

Hg .500 ppb 10609
Ave. Int. = 10609 S. D. = 0

VOID
2-9-94

10:17:34 09 Feb 1994 Folder: HG020994 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 1 Seq: 12 10:17:34 09 Feb 1994 HG

Hg 2.00 ppb 74787
Ave. Int. = 74787 S. D. = 0

*** Standard: 4 Rep: 2 Seq: 13 10:20:58 09 Feb 1994 HG

Hg 2.00 ppb 73486
Ave. Int. = 73486 S. D. = 0

*** Standard: 4 Rep: 3 Seq: 14 10:24:21 09 Feb 1994 HG

Hg 2.00 ppb 75828
Ave. Int. = 75828 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 15 10:27:43 09 Feb 1994 HG

Hg 5.00 ppb 131302
Ave. Int. = 131302 S. D. = 0

*** Standard: 5 Rep: 2 Seq: 16 10:31:06 09 Feb 1994 HG

Hg 5.00 ppb 130033
Ave. Int. = 130033 S. D. = 0

*** Standard: 5 Rep: 3 Seq: 17 10:34:29 09 Feb 1994 HG

Hg 5.00 ppb 130124
Ave. Int. = 130124 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 18 10:37:51 09 Feb 1994 HG

Hg 10.0 ppb 268124
Ave. Int. = 268124 S. D. = 0

*** Standard: 6 Rep: 2 Seq: 19 10:41:13 09 Feb 1994 HG

Hg 10.0 ppb 264680
Ave. Int. = 264680 S. D. = 0

*** Standard: 6 Rep: 3 Seq: 20 10:44:37 09 Feb 1994 HG

Hg 10.0 ppb 267080
Ave. Int. = 267080 S. D. = 0

VOID
SB 2-9-94

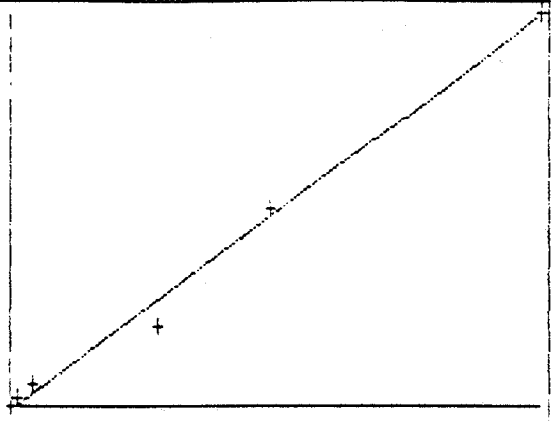
Protocol: ASCHG
Rev: 2.000 Time: 10:44:47 09 Feb 1994
Folder: HG020994 Seq: 21 Print: On
User: Batch: Id: Std6Rep3 Cup: Gas: 0.30 LPM
State: Idle Macro ASCCLP 109 : F3 Print Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear	
S1	.000	-.073	-.073	Quadratic	
S2	.200	.055	-.145	WtdLinear	
S3	.500	.315	-.186		C
S4	2.00	2.69	.693	Accept	o
S5	5.00	4.79	-.207		n
S6	10.0	9.92	-.082	StdAdd	c

A .0000000 r .996164
B 3.76469e-5 C -1.19533e-1



	Mean	%RSD		Relative Absorbance	
S1	1226	110.81	-300	2279	1709
S2	4638	25.91	5118	5526	3271
S3	11529	10.29	12868	11112	10609
S4	74700	1.57	74787	73486	75828
S5	130486	0.54	131302	130033	130124
S6	266628	0.66	268124	264600	267000

New cal coefficients stored

VOID
SB 2-9-94

Folder: HG020994 Page 3
10:49:22 09 Feb 1994 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 1 Seq: 21 10:49:22 09 Feb 1994 HG

Hg 2.00 ppb 73282
Ave. Int. = 73282 S. D. = 0

*** Standard: 4 Rep: 2 Seq: 22 10:52:44 09 Feb 1994 HG

Hg 2.00 ppb 73099
Ave. Int. = 73099 S. D. = 0

*** Standard: 4 Rep: 3 Seq: 23 10:56:07 09 Feb 1994 HG

Hg 2.00 ppb 74111
Ave. Int. = 74111 S. D. = 0

*** Standard: 1 Rep: 1 Seq: 25 11:07:12 09 Feb 1994 HG

Hg .000 ppb -1825
Ave. Int. = -1825 S. D. = 0

*** Standard: 1 Rep: 2 Seq: 26 11:10:34 09 Feb 1994 HG

Hg .000 ppb 893
Ave. Int. = 893 S. D. = 0

*** Standard: 1 Rep: 3 Seq: 27 11:13:57 09 Feb 1994 HG

Hg .000 ppb -649
Ave. Int. = -649 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 28 11:17:18 09 Feb 1994 HG

Hg .200 ppb 5451
Ave. Int. = 5451 S. D. = 0

*** Standard: 2 Rep: 2 Seq: 29 11:20:41 09 Feb 1994 HG

Hg .200 ppb 5280
Ave. Int. = 5280 S. D. = 0

*** Standard: 2 Rep: 3 Seq: 30 11:24:04 09 Feb 1994 HG

Hg .200 ppb 5353
Ave. Int. = 5353 S. D. = 0

VOID SB 2-9-94

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 3 Rep: 1 Seq: 31 11:27:26 09 Feb 1994 HG

Hg .500 ppb 10720
Ave. Int. = 10720 S. D. = 0

*** Standard: 3 Rep: 2 Seq: 32 11:30:48 09 Feb 1994 HG

Hg .500 ppb 11595
Ave. Int. = 11595 S. D. = 0

*** Standard: 3 Rep: 3 Seq: 33 11:34:11 09 Feb 1994 HG

Hg .500 ppb 9116
Ave. Int. = 9116 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 34 11:37:34 09 Feb 1994 HG

Hg 2.00 ppb 49789
Ave. Int. = 49789 S. D. = 0

*** Standard: 4 Rep: 2 Seq: 35 11:40:56 09 Feb 1994 HG

Hg 2.00 ppb 48583
Ave. Int. = 48583 S. D. = 0

*** Standard: 4 Rep: 3 Seq: 36 11:44:19 09 Feb 1994 HG

Hg 2.00 ppb 47565
Ave. Int. = 47565 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 37 11:47:41 09 Feb 1994 HG

Hg 5.00 ppb 131289
Ave. Int. = 131289 S. D. = 0

*** Standard: 5 Rep: 2 Seq: 38 11:51:03 09 Feb 1994 HG

Hg 5.00 ppb 130253
Ave. Int. = 130253 S. D. = 0

*** Standard: 5 Rep: 3 Seq: 39 11:54:30 09 Feb 1994 HG

Hg 5.00 ppb 129739
Ave. Int. = 129739 S. D. = 0

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 6 Rep: 1 Seq: 40 11:57:53 09 Feb 1994 HG

Hg 10.0 ppb 265952
Ave. Int. = 265952 S. D. = 0

*** Standard: 6 Rep: 2 Seq: 41 12:01:16 09 Feb 1994 HG

Hg 10.0 ppb 263684
Ave. Int. = 263684 S. D. = 0

*** Standard: 6 Rep: 3 Seq: 42 12:04:39 09 Feb 1994 HG

Hg 10.0 ppb 264576
Ave. Int. = 264576 S. D. = 0

Protocol: ASCHG

Rev: 2.000 Time: 12:04:49 09 Feb 1994

Folder: HG020994 Seq: 43 Print: On

User: Batch: Id: Std6Rep3 Cup: Gas: 0.30 LPM

State: Idle Macro ASCCLP 109 : F3 Print Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

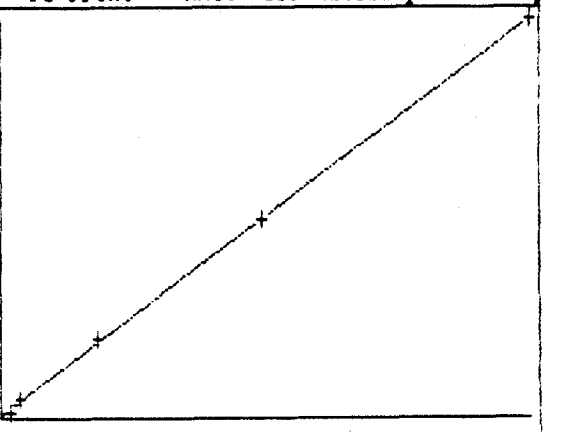
Line: Hg

	Conc.	Calc.	Dev.	Accepted
S1	.000	.052	.052	LiNear
S2	.200	.274	.074	Quadratic
S3	.500	.466	-.034	WtdLinear
S4	2.00	1.90	-.098	Accept
S5	5.00	4.98	-.022	
S6	10.0	10.0	.029	StdAdd

A .0000000 r .999868

B 3.76115e-5 C 7.19635e-2

Conc



	Mean	%RSD		Relative Absorbance	
S1	-527	-258.65	-1825	893	-649
S2	5361	1.6	5451	5280	5353
S3	10477	12	10720	11595	9116
S4	48645	2.29	49789	48583	47565
S5	130427	0.61	131289	130253	129739
S6	264737	0.43	265952	263684	264576

New cal coefficients stored

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1 Seq: 43 12:08:00 09 Feb 1994 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .113 .200 ppb .000

*** Check Standard: 2 Ck2 Seq: 44 12:11:20 09 Feb 1994 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 86.0 4.30 5.00 ppb .000

*** Check Standard: 3 Ck3 Seq: 45 12:14:40 09 Feb 1994 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 75.6 .151 .200 ppb .000

*** Sample ID: Q1G3769G Seq: 46 12:20:45 09 Feb 1994 HG
MET BLK
Hg .058 ppb .000 .058

*** Sample ID: Q1G3769G Seq: 47 12:24:32 09 Feb 1994 HG
MET BLK
Hg .050 ppb .000 .050

*** Sample ID: Q1G3769GS Seq: 48 12:27:49 09 Feb 1994 HG
MET SPK
Hg 1.95 ppb .000 1.95

*** Sample ID: JM3159GS Seq: 49 12:31:06 09 Feb 1994 HG
MTX SPK
Hg 1.68 ppb .000 1.68

SB 2-9-94 100X

*** Sample ID: JM3159GR Seq: 50 12:34:59 09 Feb 1994 HG
MTX SPK REP
Hg 1.64 ppb .000 1.64

*** Sample ID: JM3159G Seq: 51 12:38:17 09 Feb 1994 HG
002A
Hg 1.59 ppb .000 1.59

*** Sample ID: JM3153G Seq: 52 12:41:34 09 Feb 1994 HG
008A
~~Hg 100. H ppb .000 100.~~ VOID SB 2-9-94

*** Check Standard: 1 Ck1 Seq: 53 12:46:35 09 Feb 1994 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .005 .200 ppb .000 To check for carryover SB 2-9-94

*** Sample ID: JM3153G Seq: 54 12:49:54 09 Feb 1994 HG
008A
Hg 2.42 ppb .000 2.42

SB 2-9-94 5000X

Folder: HG020994 Page 7

12:53:13 09 Feb 1994 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: JM3160G Seq: 55 12:53:13 09 Feb 1994 HG

SB 2-9-94 100%

			004A			
~~Hg~~	~~101.~~	~~H ppb~~	~~.000~~	~~101.~~		VOID

Folder: HG020994 Page 8
12:59:09 09 Feb 1994 Protocol: ASCHG

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1 Seq: 56 12:59:09 09 Feb 1994 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .094 .200 ppb .000

*** Check Standard: 2 Ck2 Seq: 57 13:02:29 09 Feb 1994 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 87.2 4.36 5.00 ppb .000

*** Sample ID: JM3160G Seq: 58 13:05:50 09 Feb 1994 HG
004A
Hg 2.44 ppb .000 2.44

SB 2-9-94 5000x

*** Sample ID: Q7G3770G Seq: 59 13:09:09 09 Feb 1994 HG
MET BLK
Hg .035 ppb .000 .035

*** Sample ID: Q7G3770GS Seq: 60 13:12:27 09 Feb 1994 HG
MET SPK
Hg 1.89 ppb .000 1.89

*** Sample ID: JM3197GS Seq: 61 13:15:46 09 Feb 1994 HG
MTX SPK
Hg 2.04 ppb .000 2.04

*** Sample ID: JM3197GR Seq: 62 13:19:04 09 Feb 1994 HG
MTX SPK REP
Hg 2.31 ppb .000 2.31

*** Sample ID: JM3197G Seq: 63 13:22:21 09 Feb 1994 HG
2
Hg .060 ppb .000 .060

*** Sample ID: JM3197GG Seq: 64 13:25:36 09 Feb 1994 HG
DUPLICATE
Hg .180 ppb .000 .180

*** Sample ID: JM3196G Seq: 65 13:28:52 09 Feb 1994 HG
1
Hg .081 ppb .000 .081

*** Sample ID: TCLP BLK Seq: 66 13:32:07 09 Feb 1994 HG
2-9-94
Hg .105 ppb .000 .105

*** Sample ID: N7G3772G Seq: 67 13:35:23 09 Feb 1994 HG
MET BLK
Hg .058 ppb .000 .058

G3772 sent back for redo SB 2-9-94

Folder: HG020994 Page 9
13:38:41 09 Feb 1994 Protocol: ASCHG

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1 Seq: 68 13:38:41 09 Feb 1994 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .115 .200 ppb .000

*** Check Standard: 2 Ck2 Seq: 69 13:42:01 09 Feb 1994 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 89.0 4.45 5.00 ppb .000

*** Sample ID: N7G3772GS Seq: 70 13:45:19 09 Feb 1994 HG
MET SPK
Hg 1.93 ppb .000 1.93

*** Sample ID: JM3178GS Seq: 71 13:48:36 09 Feb 1994 HG
MTX SPK
Hg 1.34 ppb .000 1.34

N7G3772 Sent back or redo

*** Sample ID: JM3178GR Seq: 72 13:51:52 09 Feb 1994 HG
MTX SPK REP
Hg 1.44 ppb .000 1.44

*** Sample ID: JM3178G Seq: 73 13:55:08 09 Feb 1994 HG
CLJ-CSS-07
~~Hg 34.4 H ppb .000 34.4~~ JOD SB 2-9-94

SB 2-9-94 10x

*** Sample ID: JM3178G Seq: 74 14:03:26 09 Feb 1994 HG
CLJ-CSS-07
Hg 3.52 ppb .000 3.52

*** Sample ID: JM3178GS Seq: 75 14:09:08 09 Feb 1994 HG
MTX SPK
Hg .207 ppb .000 .207

*** Check Standard: 1 Ck1 Seq: 76 14:17:42 09 Feb 1994 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .123 .200 ppb .000

*** Check Standard: 2 Ck2 Seq: 77 14:21:02 09 Feb 1994 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 86.2 4.31 5.00 ppb .000

*** Sample ID: N7G3775G Seq: 78 14:26:14 09 Feb 1994 HG
MET BLK
Hg .007 ppb .000 .007

*** Sample ID: N7G3775GS Seq: 79 14:29:30 09 Feb 1994 HG
MET SPK
Hg 1.93 ppb .000 1.93

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: JM3183GS Seq: 80 14:32:45 09 Feb 1994 HG
MTX SPK
Hg 1.86 ppb .000 1.86

*** Sample ID: JM3183GR Seq: 81 14:36:01 09 Feb 1994 HG
MTX SPK REP
Hg 2.16 ppb .000 2.16

*** Sample ID: JM3183G Seq: 82 14:39:16 09 Feb 1994 HG
CLJ-CSS-12
Hg .073 ppb .000 .073

*** Sample ID: JM3183GG Seq: 83 14:42:31 09 Feb 1994 HG
DUPLICATE
Hg .162 ppb .000 .162

*** Sample ID: JM3179G Seq: 84 14:45:46 09 Feb 1994 HG
CLJ-CSS-08
Hg .116 ppb .000 .116

*** Sample ID: JM3180G Seq: 85 14:49:01 09 Feb 1994 HG
CLJ-CSS-09
Hg .088 ppb .000 .088

*** Sample ID: JM3181G Seq: 86 14:52:17 09 Feb 1994 HG
CLJ-CSS-10
Hg .115 ppb .000 .115

*** Sample ID: JM3182G Seq: 87 14:55:33 09 Feb 1994 HG
CLJ-CSS-11
Hg .573 ppb .000 .573

*** Check Standard: 1 Ck1 Seq: 88 14:58:52 09 Feb 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.128	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 89 15:02:11 09 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		89.5	4.47	5.00	ppb	.000

*** Check Standard: 3 Ck3 Seq: 90 15:11:54 09 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		138.	.276	.200	ppb	.000

SB 2-9-94
DO NOT QUANT
CONFIRMING REDO ONLY

*** Sample ID: JM3178GG Seq: 91 15:15:13 09 Feb 1994 HG
DUPLICATE
Hg .039 ppb .000 .039

2-9-94
CONFIRMED CONTAMINATED BOTTLE ONLY
DO NOT QUANT

15:20:47 09 Feb 1994 Folder: HG020994 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JM3178G					Seq: 92	15:20:47 09 Feb 1994 HG		
				CLJ-CSS-07				
Hg	34.1	H ppb	.000	34.1				

Protocol: ASCHG
Rev: 2.008 Time: 10:55:09 10 Feb 1994
Folder: HG021094 Seq: 22 Print: On
User: Batch: Id: Ck3 Cup: Gas: 0.30 LPM
State: Idle Xmit: Off Autosampler: On

AUTOSAMPLER: Rack entry Rack FRED

cup	Id	Extended id	Weight	Volume	Macro	checK	Help
1	Q7G3781G	MET BLK	1.0000	1.0000			
2	Q7G3781GS	MET SPK	1.0000	1.0000			
3	JM3226GS	MTX SPK	1.0000	1.0000			
4	JM3226GR	MTX SPK REP	1.0000	1.0000			
5	JM3226G	11031	1.0000	1.0000			
6	JM3226GG	DUPLICATE	1.0000	1.0000			
7	JM3220G	11030	1.0000	1.0000			
8	TCLP BLK	2-10-94	1.0000	1.0000			
9	N7G3772G	MET BLK	1.0000	1.0000			
10	N7G3772GS	MET SPK	1.0000	1.0000			
11	JM3178GS	MTX SPK	1.0000	1.0000			
12	JM3178GR	MTX SKP REP	1.0000	1.0000			
13	JM3178G	CLJ-CSS-07	1.0000	1.0000			
14	JM3178GG	DUPLICATE	1.0000	1.0000			
15	JM3169G	CLJ-DS-01	1.0000	1.0000			

PgDn

Cup 1 extended ID: MET BLK Cell entry, Ins to switch

J7R3772R
This is
a Redone
Batch
SB
2-10-94

```
Protocol: ASCHG
                    Rev: 2.008   Time: 10:55:34  10 Feb 1994
Folder: HG021094    Seq: 22                     Print: On
User:               Batch:            Id: Ck3       Cup:      Gas:    0.30 LPM
State: Idle                                         Xmit: Off Autosampler: On
```

```
AUTOSAMPLER:  Rack entry   Rack FRED                                        PgUp
cup Id         Extended id          Weight Volume Macro checK Help
16 JM3170G     CLJ-DS-01A           1.0000 1.0000
17 JM3171G     CLJ-DS-01B           1.0000 1.0000
18 JM3172G     CLJ-CSS-01           1.0000 1.0000
19 JM3173G     CLJ-CSS-02           1.0000 1.0000
20 JM3174G     CLJ-CSS-03           1.0000 1.0000
21 JM3175G     CLJ-CSS-04           1.0000 1.0000
22 JM3176G     CLJ-CSS-05           1.0000 1.0000
23 JM3177G     CLJ-CSS-06           1.0000 1.0000
24 TCLP BLK    2-9-94               1.0000 1.0000
25                                  1.0000 1.0000
26                                  1.0000 1.0000
27                                  1.0000 1.0000
28                                  1.0000 1.0000
29                                  1.0000 1.0000
30                                  1.0000 1.0000
                                                                           PgDn
```

```
Cup 16 extended ID: CLJ-DS-01A '                Cell entry, Ins to switch
```

09:42:09 10 Feb 1994 Folder: HG021094 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 09:42:09 10 Feb 1994 HG

Hg .000 ppb -566
Ave. Int. = -566 S. D. = 0

*** Standard: 1 Rep: 2 Seq: 2 09:45:30 10 Feb 1994 HG

Hg .000 ppb -902
Ave. Int. = -902 S. D. = 0

*** Standard: 1 Rep: 3 Seq: 3 09:48:53 10 Feb 1994 HG

Hg .000 ppb 15
Ave. Int. = 15 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 4 09:52:15 10 Feb 1994 HG

Hg .200 ppb 6415
Ave. Int. = 6415 S. D. = 0

*** Standard: 2 Rep: 2 Seq: 5 09:55:37 10 Feb 1994 HG

Hg .200 ppb 7100
Ave. Int. = 7100 S. D. = 0

*** Standard: 2 Rep: 3 Seq: 6 09:59:00 10 Feb 1994 HG

Hg .200 ppb 4697
Ave. Int. = 4697 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 7 10:02:22 10 Feb 1994 HG

Hg .500 ppb 11350
Ave. Int. = 11350 S. D. = 0

*** Standard: 3 Rep: 2 Seq: 8 10:05:44 10 Feb 1994 HG

Hg .500 ppb 11989
Ave. Int. = 11989 S. D. = 0

*** Standard: 3 Rep: 3 Seq: 9 10:09:06 10 Feb 1994 HG

Hg .500 ppb 11210
Ave. Int. = 11210 S. D. = 0

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 4 Rep: 1 Seq: 10 10:12:28 10 Feb 1994 HG

Hg 2.00 ppb 56720
Ave. Int. = 56720 S. D. = 0

*** Standard: 4 Rep: 2 Seq: 11 10:15:51 10 Feb 1994 HG

Hg 2.00 ppb 58638
Ave. Int. = 58638 S. D. = 0

*** Standard: 4 Rep: 3 Seq: 12 10:19:14 10 Feb 1994 HG

Hg 2.00 ppb 58024
Ave. Int. = 58024 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 13 10:22:36 10 Feb 1994 HG

Hg 5.00 ppb 129113
Ave. Int. = 129113 S. D. = 0

*** Standard: 5 Rep: 2 Seq: 14 10:25:59 10 Feb 1994 HG

Hg 5.00 ppb 126747
Ave. Int. = 126747 S. D. = 0

*** Standard: 5 Rep: 3 Seq: 15 10:29:21 10 Feb 1994 HG

Hg 5.00 ppb 128555
Ave. Int. = 128555 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 16 10:32:43 10 Feb 1994 HG

Hg 10.0 ppb 257376
Ave. Int. = 257376 S. D. = 0

*** Standard: 6 Rep: 2 Seq: 17 10:36:05 10 Feb 1994 HG

Hg 10.0 ppb 252200
Ave. Int. = 252200 S. D. = 0

*** Standard: 6 Rep: 3 Seq: 18 10:39:27 10 Feb 1994 HG

Hg 10.0 ppb 249667
Ave. Int. = 249667 S. D. = 0

Protocol: ASCHG

Rev: 2.000 Time: 10:39:37 10 Feb 1994

Folder: HG021094 Seq: 19 Print: On

User: Batch: Id: Std6Rep3 Cup: Gas: 0.30 LPM

State: Idle Macro ASCCLP 109 : F3 Print Xmit: Off Autosampler: On

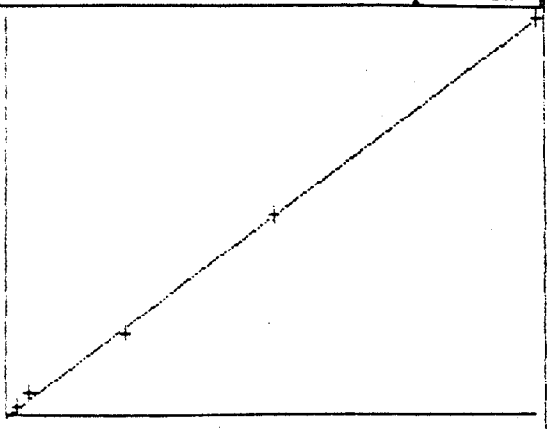
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear / Quadratic / WtdLinear / Accept / StdAdd
S1	.000	-.073	-.073	
S2	.200	.186	-.014	
S3	.500	.401	-.099	
S4	2.00	2.23	.230	
S5	5.00	5.01	.010	
S6	10.0	9.95	-.053	

A .0000000 r .999539

B 3.95192e-5 C -5.42231e-2



	Mean	%RSD		Relative Absorbance	
S1	-484	-95.79	-566	-902	15
S2	6070	20.39	6415	7100	4697
S3	11516	3.61	11350	11989	11210
S4	57794	1.69	56720	58638	58024
S5	128130	0.97	129113	126747	128555
S6	253081	1.55	257376	252200	249667

New cal coefficients stored

Folder: HG021094 Page 3
10:42:48 10 Feb 1994 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1 Seq: 19 10:42:48 10 Feb 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.155	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 20 10:46:09 10 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.4	4.62	5.00	ppb	.000

*** Check Standard: 3 Ck3 Seq: 21 10:49:29 10 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		55.9	.112	.200	ppb	.000

Folder: HG021094 Page 4
11:04:07 10 Feb 1994 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Q7G3781G Seq: 22 11:04:07 10 Feb 1994 HG
MET BLK
Hg -.088 ppb .000 -.088

*** Sample ID: Q7G3781GS Seq: 23 11:07:24 10 Feb 1994 HG
MET SPK
Hg 1.82 ppb .000 1.82

*** Sample ID: JM3226GS Seq: 24 11:10:41 10 Feb 1994 HG
MTX SPK
Hg 2.35 ppb .000 2.35

*** Sample ID: JM3226GR Seq: 25 11:13:58 10 Feb 1994 HG
MTX SPK REP
Hg 2.67 ppb .000 2.67

*** Sample ID: JM3226G Seq: 26 11:17:17 10 Feb 1994 HG
11031
Hg -.050 ppb .000 -.050

*** Sample ID: JM3226GG Seq: 27 11:20:34 10 Feb 1994 HG
DUPLICATE
Hg .070 ppb .000 .070

*** Sample ID: JM3220G Seq: 28 11:23:52 10 Feb 1994 HG
11030
Hg .016 ppb .000 .016

*** Sample ID: TCLP BLK Seq: 29 11:27:10 10 Feb 1994 HG
2-10-94
Hg .071 ppb .000 .071

*** Sample ID: N7G3772G Seq: 30 11:30:28 10 Feb 1994 HG
MET BLK
Hg -.101 ppb .000 -.101

*** Sample ID: N7G3772GS Seq: 31 11:33:46 10 Feb 1994 HG
MET SPK
Hg 1.79 ppb .000 1.79

*** Check Standard: 1 Ck1 Seq: 32 11:37:05 10 Feb 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.030	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 33 11:40:25 10 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.7	4.64	5.00	ppb	.000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: JM3178GS Seq: 34 11:43:44 10 Feb 1994 HG
MTX SPK

Hg	1.92	ppb	.000	1.92

*** Sample ID: JM3178GR Seq: 35 11:47:01 10 Feb 1994 HG
MTX SKP REP

Hg	1.88	ppb	.000	1.88

*** Sample ID: JM3178G Seq: 36 11:50:17 10 Feb 1994 HG
CLJ-CSS-07

Hg	.404	ppb	.000	.404

*** Sample ID: JM3178GG Seq: 37 11:53:32 10 Feb 1994 HG
DUPLICATE

Hg	.018	ppb	.000	.018

*** Sample ID: JM3169G Seq: 38 11:56:48 10 Feb 1994 HG
CLJ-DS-01

Hg	.513	ppb	.000	.513

*** Sample ID: JM3170G Seq: 39 12:00:04 10 Feb 1994 HG
CLJ-DS-01A

Hg	-.028	ppb	.000	-.028

*** Sample ID: JM3171G Seq: 40 12:03:20 10 Feb 1994 HG
CLJ-DS-01B

Hg	-.085	ppb	.000	-.085

*** Sample ID: JM3172G Seq: 41 12:06:36 10 Feb 1994 HG
CLJ-CSS-01

Hg	.006	ppb	.000	.006

*** Sample ID: JM3173G Seq: 42 12:09:52 10 Feb 1994 HG
CLJ-CSS-02

Hg	.202	ppb	.000	.202

*** Sample ID: JM3174G Seq: 43 12:13:08 10 Feb 1994 HG
CLJ-CSS-03

Hg	-.041	ppb	.000	-.041

*** Check Standard: 1 Ck1 Seq: 44 12:16:26 10 Feb 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.090	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 45 12:19:47 10 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.5	4.62	5.00	ppb	.000

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: JM3175G Seq: 46 12:23:05 10 Feb 1994 HG
CLJ-CSS-04

Hg	.300	ppb	.000	.300

*** Sample ID: JM3176G Seq: 47 12:26:21 10 Feb 1994 HG
CLJ-CSS-05

Hg	-.038	ppb	.000	-.038

*** Sample ID: JM3177G Seq: 48 12:29:39 10 Feb 1994 HG
CLJ-CSS-06

Hg	.324	ppb	.000	.324

*** Sample ID: TCLP BLK Seq: 49 12:32:55 10 Feb 1994 HG
2-9-94

Hg	-.069	ppb	.000	-.069

*** Check Standard: 1 Ck1 Seq: 50 12:36:12 10 Feb 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.038	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 51 12:39:32 10 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		91.6	4.58	5.00	ppb	.000

*** Check Standard: 3 Ck3 Seq: 52 12:50:22 10 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		72.7	.145	.200	ppb	.000

```
Protocol: ASCHG
                    Rev: 2.008   Time: 08:15:20  14 Feb 1994
Folder: HG021494    Seq: 0                      Print: On
User:               Batch:            Id:            Cup:      Gas:    0.30 LPM
State: Idle                                          Xmit: Off Autosampler: On
```

AUTOSAMPLER: Rack entry Rack FRED

cup	Id	Extended id	Weight	Volume	Macro	checK	Help
1	N7G3792G	MET BLANK	1.0000	1.0000			
2	N7G3792GS	MET SPIKE	1.0000	1.0000			
3	JM3193GS	MTX SPIKE	1.0000	1.0000			
4	JM3193GR	MTX SPIKE DUP	1.0000	1.0000			
5	JM3193G	15226N-CLJCSS22	1.0000	1.0000			
6	JM3193	REPLICATE	1.0000	1.0000			
7	JM3184G	CLJ-CSS13	1.0000	1.0000			
8	JM3185G	CLJ-CSS14	1.0000	1.0000			
9	JM3186G	CLJ-CSS15	1.0000	1.0000			
10	JM3187G	CLJ-CSS16	1.0000	1.0000			
11	JM3188G	CLJ-CSS17	1.0000	1.0000			
12	JM3189G	CLJ-CSS19	1.0000	1.0000			
13	JM3190G	CLJCSS19	1.0000	1.0000			
14	JM3191G	CLJ-CSS20	1.0000	1.0000			
15	JM2192G	CLJ-CSS21	1.0000	1.0000			

PgDn

Cup 15 weight: 1.0000 Row entry, Ins to switch

Protocol: ASCHG
Rev: 2.008 Time: 08:18:45 14 Feb 1994
Folder: HG021494 Seq: 0 Print: On
User: Batch: Id: Cup: Gas: 0.30 LPM
State: Idle Xmit: Off Autosampler: On

AUTOSAMPLER: Rack entry Rack FRED PgUp

cup	Id	Extended id	Weight	Volume	Macro	checK	Help
16	TCLP BLANK	N7G3792	1.0000	1.0000			
17	Q7G3789G	MET BLANK	1.0000	1.0000			
18	Q7G3789GS	MET SPIKE	1.0000	1.0000			
19	JM3036GS	MTX SPIKE	1.0000	1.0000			
20	JM3036GR	MTX SPIKE DUP	1.0000	1.0000			
21	JM3036G	15372-1741	1.0000	1.0000			
22	JM3036G	REPLICATE	1.0000	1.0000			
23	JM3039G	1744	1.0000	1.0000			
24	JM3045G	1750	1.0000	1.0000			
25	JM3046G	1751	1.0000	1.0000			
26	JM3231G	15699G-LS-001	1.0000	1.0000			
27	JM3232G	LW002	1.0000	1.0000			
28	TCLP BLANK	Q7G3789	1.0000	1.0000			
29			1.0000	1.0000			
30			1.0000	1.0000			

PgDn

Cup 28 weight: 1.0000 Row entry, Ins to switch

*** Standard: 1 Rep: 1 Seq: 5 09:47:01 14 Feb 1994 HG

Hg .000 ppb 37
Ave. Int. = 37 S. D. = 0

*** Standard: 1 Rep: 2 Seq: 6 09:50:23 14 Feb 1994 HG

Hg .000 ppb 990
Ave. Int. = 990 S. D. = 0

*** Standard: 1 Rep: 3 Seq: 7 09:53:45 14 Feb 1994 HG

Hg .000 ppb -1173
Ave. Int. = -1173 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 8 09:57:06 14 Feb 1994 HG

Hg .200 ppb 6635
Ave. Int. = 6635 S. D. = 0

*** Standard: 2 Rep: 2 Seq: 9 10:00:28 14 Feb 1994 HG

Hg .200 ppb 7903
Ave. Int. = 7903 S. D. = 0

*** Standard: 2 Rep: 3 Seq: 10 10:03:50 14 Feb 1994 HG

Hg .200 ppb 6203
Ave. Int. = 6203 S. D. = 0

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 3 Rep: 1 Seq: 11 10:07:13 14 Feb 1994 HG

Hg .500 ppb 13513
Ave. Int. = 13513 S. D. = 0

*** Standard: 3 Rep: 2 Seq: 12 10:10:35 14 Feb 1994 HG

Hg .500 ppb 14241
Ave. Int. = 14241 S. D. = 0

*** Standard: 3 Rep: 3 Seq: 13 10:13:58 14 Feb 1994 HG

Hg .500 ppb 13224
Ave. Int. = 13224 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 14 10:17:20 14 Feb 1994 HG

Hg 2.00 ppb 50459
Ave. Int. = 50459 S. D. = 0

*** Standard: 4 Rep: 2 Seq: 15 10:20:43 14 Feb 1994 HG

Hg 2.00 ppb 51406
Ave. Int. = 51406 S. D. = 0

*** Standard: 4 Rep: 3 Seq: 16 10:24:05 14 Feb 1994 HG

Hg 2.00 ppb 49387
Ave. Int. = 49387 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 17 10:27:28 14 Feb 1994 HG

Hg 5.00 ppb 124320
Ave. Int. = 124320 S. D. = 0

*** Standard: 5 Rep: 2 Seq: 18 10:30:50 14 Feb 1994 HG

Hg 5.00 ppb 128523
Ave. Int. = 128523 S. D. = 0

*** Standard: 5 Rep: 3 Seq: 19 10:34:13 14 Feb 1994 HG

Hg 5.00 ppb 125864
Ave. Int. = 125864 S. D. = 0

Folder: HG021494
10:37:35 14 Feb 1994 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 6 Rep: 1 Seq: 20 10:37:35 14 Feb 1994 HG

Hg 10.0 ppb 251372
Ave. Int. = 251372 S. D. = 0

*** Standard: 6 Rep: 2 Seq: 21 10:40:57 14 Feb 1994 HG

Hg 10.0 ppb 255387
Ave. Int. = 255387 S. D. = 0

*** Standard: 6 Rep: 3 Seq: 22 10:44:21 14 Feb 1994 HG

Hg 10.0 ppb 253956
Ave. Int. = 253956 S. D. = 0

Protocol: ASCHG

Rev: 2.000 Time: 10:44:31 14 Feb 1994

Folder: HG021494 Seq: 23 Print: On

User: Batch: Id: Std6Rep3 Cup: Gas: 0.30 LPM

State: Idle Macro ASCCLP 109 : F3 Print Xmit: Off Autosampler: On

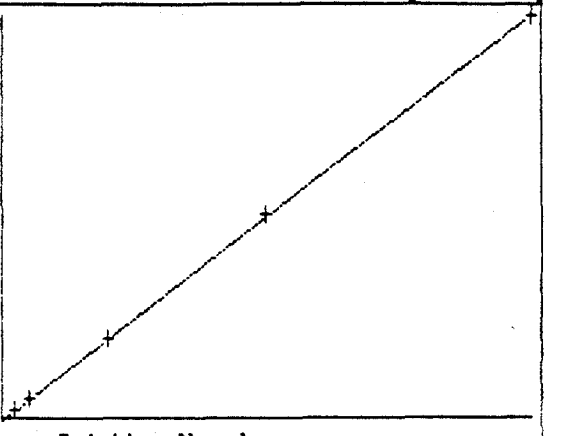
CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear	
S1	.000	-.027	-.027	Quadratic	
S2	.200	.249	.049	MtdLinear	
S3	.500	.516	.016		C
S4	2.00	1.97	-.028	Accept	o
S5	5.00	4.97	-.026		n
S6	10.0	10.0	.016	StdAdd	c

A .0000000 r .999967

B 3.95995e-5 C -2.49077e-2



	Mean	%RSD		Relative Absorbance	
S1	-48	-2227.48	37	990	-1173
S2	6913	12.78	6635	7903	6203
S3	13659	3.84	13513	14241	13224
S4	50417	2	50459	51406	49387
S5	126235	1.68	124320	128523	125864
S6	253571	0.8	251372	255387	253956

New cal coefficients stored

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1 Seq: 23 10:47:42 14 Feb 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.023	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 24 10:51:01 14 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.9	4.70	5.00	ppb	.000

*** Check Standard: 3 Ck3 Seq: 25 10:54:23 14 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.2	.190	.200	ppb	.000

*** Sample ID: N7G3792G Seq: 26 10:57:42 14 Feb 1994 HG
MET BLANK

Hg	.002	ppb	.000	.002

*** Sample ID: N7G3792GS Seq: 27 11:00:59 14 Feb 1994 HG
MET SPIKE

Hg	2.01	ppb	.000	2.01

*** Sample ID: JM3193GS Seq: 28 11:04:16 14 Feb 1994 HG
MTX SPIKE

Hg	2.39	ppb	.000	2.39

*** Sample ID: JM3193GR Seq: 29 11:07:33 14 Feb 1994 HG
MTX SPIKE DUP

Hg	2.18	ppb	.000	2.18

*** Sample ID: JM3193G Seq: 30 11:10:50 14 Feb 1994 HG
15226N-CLJCSS22

Hg	.029	ppb	.000	.029

*** Sample ID: JM3193GG Seq: 31 11:14:07 14 Feb 1994 HG
REPLICATE

Hg	.123	ppb	.000	.123

*** Sample ID: JM3184G Seq: 32 11:17:25 14 Feb 1994 HG
CLJ-CSS13

Hg	.035	ppb	.000	.035

*** Sample ID: JM3185G Seq: 33 11:20:43 14 Feb 1994 HG
CLJ-CSS14

Hg	.097	ppb	.000	.097

*** Sample ID: JM3186G Seq: 34 11:24:02 14 Feb 1994 HG
CLJ-CSS15

Hg	.493	ppb	.000	.493

11:27:20 14 Feb 1994 Folder: HG021494 Protocol: ASCHG

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: JM3187G Seq: 35 11:27:20 14 Feb 1994 HG
CLJ-CSS16

Hg	.177	ppb	.000	.177

*** Check Standard: 1 Ck1 Seq: 36 11:30:39 14 Feb 1994 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.010	.200	ppb	.000

*** Check Standard: 2 Ck2 Seq: 37 11:34:00 14 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.4	4.62	5.00	ppb	.000

*** Sample ID: JM3188G Seq: 38 11:37:19 14 Feb 1994 HG
CLJ-CSS17

Hg	.122	ppb	.000	.122

*** Sample ID: JM3189G Seq: 39 11:40:36 14 Feb 1994 HG
CLJ-CSS19

Hg	-.044	ppb	.000	-.044

*** Sample ID: JM3190G Seq: 40 11:43:51 14 Feb 1994 HG
CLJCSS19

Hg	.092	ppb	.000	.092

*** Sample ID: JM3191G Seq: 41 11:47:07 14 Feb 1994 HG
CLJ-CSS20

Hg	.133	ppb	.000	.133

B 50 2-2-94

*** Sample ID: JM~~2~~192G Seq: 42 11:50:23 14 Feb 1994 HG
CLJ-CSS21

Hg	-.037	ppb	.000	-.037

*** Sample ID: TCLP BLANK Seq: 43 11:53:39 14 Feb 1994 HG
N7G3792

Hg	.167	ppb	.000	.167

*** Sample ID: Q7G3789G Seq: 44 11:56:55 14 Feb 1994 HG
MET BLANK

Hg	.078	ppb	.000	.078

*** Sample ID: Q7G3789GS Seq: 45 12:00:11 14 Feb 1994 HG
MET SPIKE

Hg	1.78	ppb	.000	1.78

*** Sample ID: JM3036GS Seq: 46 12:03:27 14 Feb 1994 HG
MTX SPIKE

Hg	2.41	ppb	.000	2.41

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: JM3036GR                Seq:  47     12:06:43 14 Feb 1994 HG
                              MTX SPIKE DUP
Hg    5.99    ppb        .000      5.99

*** Check Standard: 1  Ck1            Seq:  48     12:10:01 14 Feb 1994 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          -.087     .200     ppb        .000

*** Check Standard: 2  Ck2            Seq:  49     12:13:21 14 Feb 1994 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          91.7     4.58    5.00   ppb        .000

*** Sample ID: JM3036G                 Seq:  50     12:16:40 14 Feb 1994 HG
                              15372-1741
Hg    .091    ppb        .000      .091

*** Sample ID: JM3036G                 Seq:  51     12:19:56 14 Feb 1994 HG
                              REPLICATE
Hg    .075    ppb        .000      .075

*** Sample ID: JM3039G                 Seq:  52     12:23:11 14 Feb 1994 HG
                              1744
Hg    .159    ppb        .000      .159

*** Sample ID: JM3045G                 Seq:  53     12:26:24 14 Feb 1994 HG
                              1750
Hg    .115    ppb        .000      .115

*** Sample ID: JM3046G                 Seq:  54     12:29:39 14 Feb 1994 HG
                              1751
Hg    .161    ppb        .000      .161

*** Sample ID: JM3231G                 Seq:  55     12:32:54 14 Feb 1994 HG
                              15699G-LS-001
Hg    .084    ppb        .000      .084

*** Sample ID: JM3232G                 Seq:  56     12:36:09 14 Feb 1994 HG
                              LW002
Hg    .106    ppb        .000      .106

*** Sample ID: TCLP BLANK              Seq:  57     12:39:24 14 Feb 1994 HG
                              Q7G3789
Hg    .014    ppb        .000      .014

*** Check Standard: 1  Ck1            Seq:  58     12:42:41 14 Feb 1994 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .032     .200     ppb        .000
```

Folder: HG021494
Protocol: ASCHG

12:46:01 14 Feb 1994

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2 Seq: 59 12:46:01 14 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		90.5	4.52	5.00	ppb	.000

*** Check Standard: 3 Ck3 Seq: 60 12:58:18 14 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		51.1	.102	.200	ppb	.000

*** Check Standard: 3 Ck3 Seq: 61 13:03:40 14 Feb 1994 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		119.	.239	.200	ppb	.000

QC BATCH # N7G3775

0011 0532

Analyst: BJF Date: 2/9/94 Method #: 7470 Notebook: _____

Reagent Codes:

HNO_3 _____ H_2SO_4 308510 $NH_2OH\ HCL$ F3877

HCl _____ $KMNO_4$ G13718 NaCl F49704

H_2O_2 _____ $K_2S_2O_8$ D03710 $SnCl_2$ 926783

DI _____

Spike Codes:

ICP _____ mL ____

HGA _____ mL ____

Stock Hg 074

TCLP _____ mL ____

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JM3179	15226N	CLRSS08					
2 3180		09					
3 3181		10					
4 3182		11					
5 3183		12					
6 ~~3184~~		13					
7 ~~3185~~		14					
8 ~~3186~~		15					BJF Samples not Bendy
9 ~~3187~~		16					
10 ~~3188~~		17					
11 ~~3189~~		18					
12 3183		12					Replicate
13							
14							
15							
16							
17							
18							
19							
20							Reverse Jar Stone
MTX SPK	15226N	CLRSS~~18~~	50	50			
~~JM3189R~~		12					
MTX SPK DUP							
JM3183							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					See Batch N7G3772
#2					for TCLP Blank
#3					samples marked out were
#4					not yet tumbled.
#5					

Water Bath Temp.: _____

Read and Understood By _____ Date

(C:\WP51\FORMS\QC-BATCH.645) (Revised: 2/24/93)

QC BATCH # N7B3772B

0533
0012

Analyst: BJF Date: 2/10/94 Method #: 3470 Notebook: _____

Reagent Codes:

HNO_3 _____ H_2SO_4 30350 $NH_2OH\ HCL$ E38717

HCl _____ $KMNO_4$ G13718 NaCl E49704

H_2O_2 _____ $K_2S_2O_8$ D03710 $SnCl_2$ 926783

DI _____

Spike Codes:

ICP _____ mL ___

HGA _____ mL ___

Stock Hg 0774

TCLP _____ mL ___

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JM3169	15266N	CLJDS01					
2 3170		01A					
3 3171		01B					
4 3172		CLJCSS01					
5 3173		02					
6 3174		03					
7 3175		04					
8 3176		05					
9 3177		06					
10 3178		07					
11						Replicate	
12	TCLP	Blank					
13							
14							
15							
16							
17							
18							
19							
20							Benny Freeman 2-10-94
MTX SPK	15266N	CLJCSS07	50	50			
JM3178							
MTX SPK DUP							

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					Redo because of contamination of the sample
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By Date

(C:\WP51\FORMS\QC-BATCH.645) (Revised: 2/24/93)

QC BATCH # N7G3792

Analyst: BJF Date: 2/14/94 Method #: 7470 Notebook: _____

Reagent Codes:

HNO_3 _____ H_2SO_4 30350 $NH_2OH\ HCL$ 38717 ICP _____ mL ___

HCl _____ $KMNO_4$ G13718 NaCl F49704 HGA _____ mL ___

H_2O_2 _____ $K_2S_2O_8$ D03710 $SnCl_2$ 92683 Stock Hg 0774 ___

DI _____ TCLP _____ mL ___

ASC #	Job #	Sample ID	Vi/Wi	Vf	F	Filtered	Comments
MTH BLK			50	50			
MTH SPK							
1 JM3184	15226N	CLC553					
2 3185		14					
3 3186		15					
4 3187		16					
5 3188		17					
6 3189		18					
7 3190		19					
8 3191		20					
9 3192		21					
10 3193		22					
11 ↓	↓	↓ ↓				Replicate	
12 —	TCLP	BLK	↓	↓			
13							
14							
15							
16							
17							
18							
19							
20						Bernee J. Firestone 2-14-94	
MTX SPK	15226N	CLC522	50	50			
JM3193							
MTX SPK DUP	↓	↓	↓	↓			

Hg Standard	mL Stock	Vf	ug/L	ug/kg	Comments
#1					
#2					
#3					
#4					
#5					

Water Bath Temp.: _____

Read and Understood By _____ Date

CONVENTIONALS

COVER PAGE
CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

DW No.: _____

EPA Sample No.	Lab Sample ID.
CLJ-CSS-01	JM3172
CLJ-CSS-02	JM3173
CLJ-CSS-03	JM3174
CLJ-CSS-04	JM3175
CLJ-CSS-05	JM3176
CLJ-CSS-06	JM3177
CLJ-CSS-07	JM3178
CLJ-CSS-08	JM3179
CLJ-CSS-09	JM3180
CLJ-CSS-10	JM3181
CLJ-CSS-11	JM3182
CLJ-CSS-12	JM3183
CLJ-CSS-13	JM3184
CLJ-CSS-14	JM3185
CLJ-CSS-15	JM3186
CLJ-CSS-16	JM3187
CLJ-CSS-17	JM3188
CLJ-CSS-18	JM3189
CLJ-CSS-19	JM3190
CLJ-CSS-20	JM3191

COMMENTS: See Case Narrative

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 diskette has been authorized by the Laboratory Manager or the Manager's Designee, as verified by the following signature.

Signature: J. Hnatow **Name:** Joe Hnatow

Date: 2/28/94 **Title:** Operations Manager

COVER PAGE
CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

DW No.:

EPA Sample No.	Lab Sample ID.
CLJ-CSS-21	JM3192
CLJ-CSS-22	JM3193

COMMENTS: See Case Narrative

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 diskette has been authorized by the Laboratory Manager or the Manager's Designee, as verified by the following signature.

Signature: J Hnatow **Name:** Joe Hnatow

Date: 2/28/94 **Title:** Operations Manager

CONVENTIONAL ANALYSIS DATA SHEET (I) 0538

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3172

% Solids: 89.6 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	6.35			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1) 0539

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) soil **Level:** (low/med) LOW **Lab Sample ID:** JM3173

% Solids: 87.0 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.53			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1) 0540

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-03

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3174

% Solids: 83.7 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.33			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (i)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-C

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSJ-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3175

% Solids: 93.2 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.41			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

0542

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-C

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3176

% Solids: 92.8 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.80			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1) 0543

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-06

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3177

% Solids: 80.5 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	> 60°C			FP
	pH (Electrode)	6.18			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-01

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3178

% Solids: 95.4 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	> 60°C			FP
	pH (Electrode)	5.80			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-C

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3179

% Solids: 93.1 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.42			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM 3180

% Solids: 80.4 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	6.41			PH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1) 0547

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-1C

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3181

% Solids: 91.0 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.03			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1) 0548

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-11

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3182

% Solids: 91.0 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.42			PH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-1

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3183

% Solids: 98.6 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.97			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-13

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3184

% Solids: 90.0 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.42			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-1

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM 3185

% Solids: 90.7 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.58			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

0552

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-15

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3186

% Solids: 89.5 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.45			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-16

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3187

% Solids: 91.2 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.37			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-1

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3188

% Solids: 82.5 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.34			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

0555

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-18

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3189

% Solids: 95.1 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	6.20			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

0556

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-19

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3190

% Solids: 89.7 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	> 60°C			FP
	pH (Electrode)	5.31			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-2C

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3191

% Solids: 82.8 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.82			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

0558

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-21

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM3192

% Solids: 93.4 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	6.40			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-CSS-22

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Matrix: (soil/water) SOIL **Level:** (low/med) LOW **Lab Sample ID:** JM 3193

% Solids: 86.8 **Date Received:** 02/07/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Reactive Cyanide	10.0	U		RC
	Reactive Sulfide	10.0	U		RS
	Flashpoint, 60°C	>60°C			FP
	pH (Electrode)	5.93			pH

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide											
Reactive Sulfide									0	U	RS

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide											
Reactive Sulfide									0	U	RS

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide									0	U	RC
Reactive Sulfide											

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Reactive Cyanide									0	U	RC
Reactive Sulfide											

SPIKE SAMPLE RECOVERY (5A)

0564

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) SOIL **Level** (low/med): LOW **% Solids for Sample:** 95.4

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide		116		10.0	U	188	61.7		RC
Reactive Sulfide									

COMMENTS:

SPIKE SAMPLE RECOVERY (5A)

0565

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-C

Matrix: (soil/water) SOIL **Level** (low/med): LOW **% Solids for Sample:** 88.5

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide		122		10.0	U	188	64.9		RC
Reactive Sulfide									

COMMENTS:

SPIKE SAMPLE RECOVERY (5A)

0566

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-1

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) SOIL **Level** (low/med): LOW **% Solids for Sample:** 89.5

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide									
Reactive Sulfide		5.99		10.0	U		85.7		RS

COMMENTS:

SPIKE SAMPLE RECOVERY (5A)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DS-01

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) SOIL **Level** (low/med): LOW **% Solids for Sample:** 88.5

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Reactive Cyanide									
Reactive Sulfide		5.64		10.0	U	6.99	80.7		RS

COMMENTS:

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DS-c

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) SOIL **% Solids for Sample:** 88.5

Level (low/med): LOW **% Solids for Duplicate:** 88.5

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide								
Reactive Sulfide		5.64		5.63		.177		RS

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-1

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) SOIL **% Solids for Sample:** 89.5

Level (low/med): LOW **% Solids for Duplicate:** 89.5

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide								
Reactive Sulfide		5.99		5.99		0		RS

DUPLICATES (6)

0570

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DS-0

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) SOIL **% Solids for Sample:** 88.5

Level (low/med): LOW **% Solids for Duplicate:** 88.5

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide		122		113		7.66		RC
Reactive Sulfide								

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-CSS-

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Matrix: (soil/water) SOIL **% Solids for Sample:** 95.4

Level (low/med): LOW **% Solids for Duplicate:** 95.4

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Reactive Cyanide		116		118		1.71		RC
Reactive Sulfide								

LABORATORY CONTROL SAMPLE (7) 0572

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Solid LCS Source: _____ **Aqueous LCS Source:** CV-0039

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide									
Reactive Sulfide	6.99	5.99	85.6						

LABORATORY CONTROL SAMPLE (7) 0573

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-

Solid LCS Source: _____ **Aqueous LCS Source:** CV-0039

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide									
Reactive Sulfide	6.99	5.99	85.6						

LABORATORY CONTROL SAMPLE (7) - 0574

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Solid LCS Source: _____ **Aqueous LCS Source:** CV-0065

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide	188	134	71.2						
Reactive Sulfide									

LABORATORY CONTROL SAMPLE (7) 0575

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** CLJ-CSS-0

Solid LCS Source: _____ **Aqueous LCS Source:** CV0065

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Reactive Cyanide	188	125	66.4						
Reactive Sulfide									

PREPARATION LOG (13)

0576

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS01 **Method:** RS

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
CLJ-DS-01	2-10-94	10.01	
CLJ-DS-01A	2-10-94	10.00	
CLJ-DS-01B	2-10-94	10.03	
CLJ-CSS-01	2-10-94	10.02	
CLJ-CSS-02	2-10-94	10.00	
CLJ-CSS-03	2-10-94	10.03	
CLJ-CSS-04	2-10-94	10.01	
CLJ-CSS-05	2-10-94	10.00	
CLJ-CSS-06	2-10-94	10.02	
CLJ-CSS-07	2-10-94	10.04	
CLJ-CSS-08	2-10-94	10.03	
CLJ-CSS-09	2-10-94	10.00	
CLJ-CSS-10	2-10-94	10.02	
CLJ-CSS-11	2-10-94	10.02	
CLJ-CSS-12	2-10-94	10.01	
CLJ-CSS-13	2-10-94	10.03	
CLJ-CSS-14	2-10-94	10.01	
PBW	2-10-94		10ml
LCS	2-10-94		10ml

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NFESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** BS

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
CLJ-CSS-15	2-11-94	10.01	
CLJ-CSS-16	2-11-94	10.06	
CLJ-CSS-17	2-11-94	10.03	
CLJ-CSS-18	2-11-94	10.00	
CLJ-CSS-19	2-11-94	10.06	
CLJ-CSS-20	2-11-94	10.02	
CLJ-CSS-21	2-11-94	10.01	
CLJ-CSS-22	2-11-94	10.04	
PBW	2-11-94		10 ml
LCS	2-11-94		10 ml

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** RC

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
CLJ-DS-01	2-16-94	10.00	
CLJ-DS-01A	2-16-94	10.01	
CLJ-DS-01B	2-16-94	10.03	
CLJ-CSS-01	2-16-94	10.00	
CLJ-CSS-02	2-16-94	10.01	
CLJ-CSS-03	2-16-94	10.03	
CLJ-CSS-04	2-16-94	10.05	
CLJ-CSS-05	2-16-94	10.03	
CLJ-CSS-06	2-16-94	10.00	
DBW	2-16-94		10 ml
LCS	2-16-94		10 ml

PREPARATION LOG (13)

Lab Name: *Analytical Services Corp* **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** RC

EPA SAMPLE NUMBER	PREPARATION DATE	WEIGHT (GRAM)	VOLUME (mL)
CLJ-CSS-07	2-17-94	10.00	
CLJ-CSS-08	2-17-94	10.06	
CLJ-CSS-09	2-17-94	10.00	
CLJ-CSS-10	2-17-94	10.01	
CLJ-CSS-11	2-17-94	10.03	
CLJ-CSS-12	2-17-94	10.02	
CLJ-CSS-13	2-17-94	10.01	
CLJ-CSS-14	2-17-94	10.04	
CLJ-CSS-15	2-17-94	10.00	
CLJ-CSS-16	2-17-94	10.03	
CLJ-CSS-17	2-17-94	10.05	
CLJ-CSS-18	2-17-94	10.01	
CLJ-CSS-19	2-17-94	10.04	
CLJ-CSS-20	2-17-94	10.01	
CLJ-CSS-21	2-17-94	10.04	
CLJ-CSS-22	2-17-94	10.00	
PBW	2-17-94		10 ml
LCS	2-17-94		10 ml

CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** RS

Instrument ID Number: _____ **Start Date:** 2/10/94 **End Date:** 2/10/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				RC	RS	pH	FP																					
LCS					X																							
PBW					X																							
CLJ-DS-01					X																							
CLJ-DS-01A					X																							
CLJ-DS-01B					X																							
CLJ-CSS-01					X																							
CLJ-CSS-02					X																							
CLJ-CSS-03					X																							
CLJ-CSS-04					X																							
CLJ-CSS-05					X																							
CLJ-CSS-06					X																							
CLJ-CSS-07					X																							
CLJ-CSS-08					X																							
CLJ-CSS-09					X																							
CLJ-CSS-10					X																							

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CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** BS

Instrument ID Number: _____ **Start Date:** 2/10/94 **End Date:** 2/10/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				RC	RS	pH	FP																					
CLJ-CSS-11					X																							
CLJ-CSS-12					X																							
CLJ-CSS-13					X																							
CLJ-CSS-14					X																							
CLJ-DS-01S					X																							
CLJ-DS-01D					X																							

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CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** EP

Instrument ID Number: _____ **Start Date:** 2/10/94 **End Date:** 2/11/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
ICV		0910					X																				
CLJ-DS-01		1000					X																				
CLJ-DS-01A		1003					X																				
CLJ-DS-01B		1010					X																				
CLJ-CSS-01		1014					X																				
CLJ-CSS-02		1016					X																				
CLJ-CSS-03		1020					X																				
CLJ-CSS-04		1022					X																				
CLJ-CSS-05		1025					X																				
CLJ-CSS-06		1028					X																				
XXXXX		1045					X																				
XXXXX		1050					X																				
CLJ-CSS-07		1305					X																				
CLJ-CSS-08		1308					X																				
CLJ-CSS-09		1314					X																				

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CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** FP

Instrument ID Number: _____ **Start Date:** 2/10/94 **End Date:** 2/11/94

EPA Sample Number	D/F	Time	% R	Analytes																								
				RC	RS	pH	FP																					
CLJ-CSS-10		1317					X																					
CLJ-CSS-11		1322					X																					
CLJ-CSS-12		1330					X																					
CLJ-CSS-13		1332					X																					
CLJ-CSS-14		1335					X																					
CCV		1305					X																					
CLJ-CSS-15		1318					X																					
CLJ-CSS-16		1321					X																					
CLJ-CSS-17		1330					X																					
CLJ-CSS-18		1345					X																					
CLJ-CSS-19		1349					X																					
CLJ-CSS-20		1355					X																					
CLJ-CSS-21		1400					X																					
CLJ-CSS-22		1410					X																					
XXXXX		1418					X																					

FORM XIV - IN

CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** RS

Instrument ID Number: _____ **Start Date:** 2/11/94 **End Date:** 2/11/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
LCS					X																						
PBW					X																						
CLJ-CSS-15					X																						
CLJ-CSS-15S					X																						
CLJ-CSS-15D					X																						
CLJ-CSS-16					X																						
CLJ-CSS-17					X																						
CLJ-CSS-18					X																						
CLJ-CSS-19					X																						
CLJ-CSS-20					X																						
CLJ-CSS-21					X																						
CLJ-CSS-22					X																						

FORM XIV - IN

CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** pH

Instrument ID Number: _____ **Start Date:** 2/15/94 **End Date:** 2/15/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
CLJ-CSS-11		1119				X																					
CLJ-CSS-12		1122				X																					
CLJ-CSS-13		1124				X																					
CLJ-CSS-14		1126				X																					
CLJ-CSS-15		1127				X																					
CLJ-CSS-16		1129				X																					
CLJ-CSS-17		1131				X																					
CLJ-CSS-18		1133				X																					
CLJ-CSS-19		1134				X																					
CLJ-CSS-20		1137				X																					
CLJ-CSS-21		1139				X																					
CLJ-CSS-22		1142				X																					
CCV		1145				X																					

FORM XIV - IN

CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** pH

Instrument ID Number: _____ **Start Date:** 2/15/94 **End Date:** 2/15/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
ICV		1020				X																					
CLJ-DS-01		1045				X																					
CLJ-CSS-01		1046				X																					
CLJ-DS-01A		1049				X																					
XXXXX		1051				X																					
CLJ-DS-01B		1054				X																					
CLJ-CSS-02		1055				X																					
CLJ-CSS-03		1057				X																					
CLJ-CSS-04		1100				X																					
CLJ-CSS-05		1106				X																					
CLJ-CSS-06		1108				X																					
CLJ-CSS-07		1110				X																					
CLJ-CSS-08		1113				X																					
CLJ-CSS-09		1116				X																					
CLJ-CSS-10		1118				X																					

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CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA
Case #: NA **SAS #:** NA **SDG #:** _____ **Method:** BC
Instrument ID Number: _____ **Start Date:** 2/16/94 **End Date:** 2/16/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
CLJ-DS-01S				X																							
CLJ-DS-01D				X																							
CLJ-DS-01				X																							
LCS				X																							
CLJ-DS-01A				X																							
CLJ-DS-01B				X																							
CLJ-CSS-01				X																							
CLJ-CSS-02				X																							
CLJ-CSS-03				X																							
CLJ-CSS-04				X																							
CLJ-CSS-05				X																							
CLJ-CSS-06				X																							
PBW				X																							

FORM XIV - IN

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CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** RC

Instrument ID Number: _____ **Start Date:** 2/17/94 **End Date:** 2/17/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
PBW				X																							
LCS				X																							
CLJ-CSS-07S				X																							
CLJ-CSS-07D				X																							
CLJ-CSS-08				X																							
CLJ-CSS-09				X																							
CLJ-CSS-10				X																							
CLJ-CSS-11				X																							
CLJ-CSS-12				X																							
CLJ-CSS-13				X																							
CLJ-CSS-14				X																							
CLJ-CSS-15				X																							
CLJ-CSS-16				X																							
CLJ-CSS-17				X																							
CLJ-CSS-18				X																							

FORM XIV - IN

CONVENTIONAL ANALYSIS RUN LOG (14)

Lab Name: Analytical Services Corp **Lab Code:** NA **Contract:** NEESA

Case #: NA **SAS #:** NA **SDG #:** CLJ-CSS-01 **Method:** BC

Instrument ID Number: _____ **Start Date:** 2/17/94 **End Date:** 2/17/94

EPA Sample Number	D/F	Time	% R	Analytes																							
				RC	RS	pH	FP																				
CLJ-CSS-19				X																							
CLJ-CSS-20				X																							
CLJ-CSS-21				X																							
CLJ-CSS-22				X																							

FORM XIV - IN

0586

REACTIVE SULFIDE

Book No:
Date: 2-10-94
Initials: SED

Batch # N2I3266
~~Q2I3266~~ WTD

JD NUMBER	PROJECT NUMBER	SAMPLE NUMBER	SAMPLE WEIGHT	FLOW	ACID	RX TIME	DRAGGARD	RESULTS
		SPK =	18mm x	3.33 / .2ml	299 / 360	= 83%		
		Blank	QC	60ml/min	3ml	30min	0mm	ND
Jm3169	15226N	CLJ-DS-01	10.01	60ml/min	3ml	30min	0 mm	ND
Jm3170		CLJ-DS01A	10.00				0mm	
Jm3171		CLJ-DS-01B	10.03				0mm	
Jm3172		CLJ-CSS-01	10.02				0mm	
Jm3173		CLJ-CSS-02	10.00				0 mm	
Jm3174		CLJ-CSS-03	10.03				0 mm	
Jm3175		CLJ-CSS-04	10.01				0 mm	
Jm3176		CLJ-CSS-05	10.00				0 mm	
Jm3177		CLJ-CSS-06	10.02				0 mm	
Jm3178		CLJ-CSS-07	10.04				0mm	
Jm3179		CLJ-CSS-08	10.03				0mm	
Jm3180		CLJ-CSS-09	10.00				0mm	
Jm3181		CLJ-CSS-10	10.02				0 mm	
Jm3182		CLJ-CSS11	10.02				0 mm	
Jm3183		CLJ-CSS-12	10.01				0 mm	
Jm3184		CLJ-CSS-13	10.03				0 mm	
Jm3185		CLJ-CSS-14	10.01				0mm	
Jm3169	DUP		10.04				17mm	~~78.6~~ 5.63 2-22-94
Jm3169	MTX		10.06				17mm	~~78.6~~ 5.63 2-22-94

Reagents:

.005N H_2SO_4 - 280067

SPK = CV0039

200 ml spike added

Wade T. DeLong
Read and Understood By

2-2-94
(Date)

(C:\WP50\FORMS\SULFIDE.201)

REACTIVE SULFIDE

Book No:
Date: 2-11-94
Initials: SED

Batch # N2I ~~3286~~ 3289 2-21-94

JD NUMBER	PROJECT NUMBER	SAMPLE NUMBER	SAMPLE WEIGHT	FLOW	ACID	RX TIME	DRAGGARD	RESULTS
		SPK =	18 mm x	3.3.3 / .2 ml x	299 / 300 x	100 = 83%		
		Blank	10.00 g	60 ml / min	3 ml	30 min	0 mm	
JM 3186	015226N	CLJ CSS-15	10.01 g	60 ml / min	3 ml	30 min	0 mm	
JM 3186		MTX	10.00 g				18 mm	
JM 3186		DUP	10.00 g				18 mm	
JM 3187		CLJ-CSS-16	10.06 g				0 mm	
JM 3188		CLJ-CSS-17	10.03 g				0 mm	
JM 3189		CLJ CSS-18	10.00 g				0 mm	
JM 3190		CLJ-CSS-19	10.06 g				0 mm	
JM 3191		CLJ CSS20	10.02 g				0 mm	
JM 3192		CLJ-CSS 21	10.01 g				0 mm	
JM 3193		CLJ-CSS-22	10.04 g				0 mm	

Steven Dates 2-11-94

Reagents:

(.005N H_2SO_4) CR0067

SPK = CV0039

200 ml spike added

Wade T. DeLong
Read and Understood By

2-21-94
(Date)

(C:\WP50\FORMS\SULFIDE.201)

REACTIVE CYANIDE ANALYSIS

Date: 2/16/94
Analyst: SED
QC Batch #: N2I3287
PARM #: B059
Curve ID: CVSTD

Spike Lot: CU0065
Spike Vol Added: 10ml

Reagents Lot #

Rhodanine Ind.: CR0069
H_2SO_4: CR0068
NaOH: CR0053
$AgNO_3$: CV0069
ThymolBlue Ind.: CR0077

ASC Project Number	Sample Point	Facility Code	Initial Vol./Wt.	Final Volume	Volume to Titrate	Volume of Titrant	Normality of Titrant	Time On/Time Off	Results
Jm 3169	MTX	15226N	10.01	250ml	100ml	2.05ml	.0141	8:40am - 10:10am	122.1 ~~126.1~~
Jm 3169	Dup		10.03			1.90 ml			112.3 ~~115.7~~
Jm 3169	~~Blank~~ CLJ-DS-01		10.00 g			0.05ml			ND
	Spike		10 ml			2.25ml			134.4
Jm 3170	CLJ-DS-01A		10.01 g			.05ml		10:26am - 11:57	ND
Jm 3171	CLJ-DS-01B		10.03 g			.05ml			ND
Jm 3172	CLJ-CSS-01		10.00 g			.05ml			ND
Jm 3173	CLJ-CSS-02		10.01 g			.05ml			ND
Jm 3174	CLJ-CSS-03		10.03 g			.05ml		1:10pm - 2:43	ND
Jm 3175	CLJ-CSS-04		10.05 g			.05ml			ND
Jm 3176	CLJ-CSS-05		10.03 g			.05ml			ND
Jm 3177	CLJ-CSS-06		10.00 g			.05ml			ND
	Blank	QC		250ml	100ml	.05ml			ND
								[illegible]	2-16-94

Comments: Used 10ml of CN SPK (Stock) For MTX & Dup

Wade T. DeLong 2-21-94
Read and Understood by Date

(C:\WP51\FORMS\REACTIVE.645)

(Revised: 2/08/94)

REACTIVE C[illegible]NIDE ANALYSIS

Date: 2/17/94
Analyst: SED
QC Batch #: N2F3288
PARM #: B059
Curve ID: CVSTD

Spike Lot: CV0065
Spike Vol Added: 10ml

Reagents Lot #

Rhodanine Ind.: CR0069
H_2SO_4: CR0068
NaOH: CR0079
$AgNO_3$: CV0069
ThymolBlue Ind.: CR0077

ASC Project Number	Sample Point	Facility Code	Initial Vol./Wt.	Final Volume	Volume to Titrate	Volume of Titrant	Normality of Titrant	Time On/Time Off	Results
	Blank	QC		250ml	100ml	.05ml	.0141	—	ND
	Spike		10.0ml			2.10 ml		7:38am-9:10am	125
JM3178	MTY	15226N	10.01 g			1.95ml			116
JM 3178	Dup		10.03 g			2.00 ml			118
JM 3178	CLJ-CSS-07		10.00 g			.05ml			ND
JM 3179	CLJ-CSS-08		10.06 g			.05ml		9:20am-10:52	
JM 3180	CLJ-CSS-09		10.00 g			.05ml			
JM 3181	CLJ-CSS-10		10.01 g			.05ml			
JM 3182	CLJ-CSS-11		10.03 g			.05ml			
JM 3183	CLJ-CSS-12		10.02 g			.05ml		11:04am-12:38	
JM 3184	CLJ-CSS-13		10.01 g			.05ml			
JM 3185	CLJ-CSS-14		10.04 g			.05ml			
JM 3186	CLJ-CSS-15		10.00 g			.05ml			
JM 3187	CLJ-CSS-16		10.03 g			.05ml		1:05-2:37p.m	
JM 3188	CLJ-CSS-17		10.05 g			.05ml			
JM 3189	CLJ-CSS-18		10.01 g			.05ml			
JM 3190	CLJ-CSS-19		10.04 g			.05ml			

Comments: * Page 1 of 2

Wade T. DeLong 2-21-94
Read and Understood by Dat

(C:\WP51\FORMS\REACTIVE.645)

(Revised: 2/08/9

REACTIVE C NIDE ANALYSIS

010

Date: 2/17/94
Analyst: SED
QC Batch #: N2I3288
PARM #: B059
Curve ID: CVSTD

Spike Lot: CV0065
Spike Vol Added: 10ml

Reagents Lot #

Rhodanine Ind.: CR0069
H_2SO_4: CR0068
NaOH: CR0079
$AgNO_3$: CV0069
ThymolBlue Ind.: CR0077

ASC Project Number	Sample Point	Facility Code	Initial Vol./Wt.	Final Volume	Volume to Titrate	Volume of Titrant	Normality of Titrant	Time On/Time Off	Results
Jm 3191	CLJ-CSS-20	15226N	10.01 g	250ml	100ml	.05ml	.0141	2:45pm – 4:15	ND
Jm 3192	CLJ-CSS-21	↓	10.04 g	250ml	100ml	.05ml	.0141	↓	ND
Jm 3193	CLJ-CSS-22	↓	10.00 g	250ml	100ml	.05ml	.0141	↓	ND

2-17-94

Comments: * Page 2 of 2

Wade T. DeLong 2-21-94
Read and Understood by Date

(C:\WP51\FORMS\REACTIVE.645)

059

(Revised: 2/08/94)

FLASH POINT - SETA FLASH

Sample ID	Project #	Sample Point	Analyst	Time	Date
P-Xylene	CV0063	QC	SED	910	2/10/94

Unit Setpoint Temperature: 26 °C

p-Xylene Reaction: Positive Flash [X] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [ ]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3169	15226N	CLJ-DS-01	SED	10:00	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3170	15226N	CLJ-DS-01A	SED	10:03	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3171	15226N	CLJ-DS-01B	SED	10:10	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94
(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3172	15226N	CLJ-CSS-01	SED	10:14	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [✓]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3173	15226N	CLJ-CSS-02	SED	10:16	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [✓]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3174	15226N	CLJ-CSS-~~05~~ 03	SED	10:20	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [✓]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3175	15226N	CLJ-CSS-04	SED	10:22	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [✓]

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94
(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3176	152261V	CLJ-CSS-05	SED	10:25	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3177	152261V	CLJ-CSS-06	SED	10:28	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [ ]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3197 (3197)	300553	2	SED	10:45	2/10/~~93~~ 94 SD

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3196 (3196)	300553	1	SED	10:50	2/10/94

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94
(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3178	015226N	CLJ-CSS-07	SED	1:05	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
~~JM 313~~ JM 3179	015226N	CLJ-CSS-08	SED	1:08	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3180	015226N	CLJ-CSS-09	SED	1:14	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3181	015226N	CLJ-CSS-10	SED	1:17	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94
(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH

Sample ID	Project #	Sample Point	Analyst	Time	Date
SM 3182	015226N	CLJ-CSS-11	SED	1:22	2/10/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
SM 3183	015226N	CLJ-CSS-12	SED	1:30	2/20/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
SM 3184	015226N	CLJ-CSS-13	SED	1:32	2/20/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
SM 3185	015226N	CLJ-CSS-14	SED	1:35	2/20/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-21-94
(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH

Sample ID	Project #	Sample Point	Analyst	Time	Date
p Xylene	CV0063	QC	SED	105	2/11/94

Unit Setpoint Temperature: ~~60~~ °C 27 SD

p-Xylene Reaction: Positive Flash [X] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [ ]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3186	015226N	CLJ-CSS-15	SED	1:18	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3187	015226N	CLJ-CSS-16	SED	1:21	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3188	15226N	CLJ-CSS-~~16~~ 17 SD	SED	1:30	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. Dolany Date: 2-21-94

(C:\WP50\FORMS\SETA.201)

FLASH POINT - SETA FLASH QC is in Previous Book

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3189	15226N	CLJ-CSS-18	SED	1:45	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [✓]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM 3190	15226N	CLJ-CSS-~~18~~ 19 SD	SED	1:49	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3191	15226N	CLJ-CSS-20 SD	SED	1:55	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3192	15226N	CLJ-CSS-~~20~~ 21 SD	SED	2:00	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. Doheny Date: 2-24-94
(M:\WPCORP\FORMS\SETA.201)

FLASH POINT - SETA FLASH

Sample ID	Project #	Sample Point	Analyst	Time	Date
SM 3193	15226N	CLS-CSS-22	SED	2:10	2/11/94

Unit Setpoint Temperature: 60 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
SM 3034	15742	008	SED	2:18	2/11/94

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
SM 3220	14344C	11030	SED	2:30	2/11/94

Unit Setpoint Temperature: 93 °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [X]

Sample ID	Project #	Sample Point	Analyst	Time	Date
					/ /

Unit Setpoint Temperature: ____ °C

p-Xylene Reaction: Positive Flash [ ] Negative Flash [ ]

Sample Reaction: Positive Flash [ ] Negative Flash [ ]

WD 2-24-94

Reference: USEPA SW-846; 2nd Edition; 1982; Method 1020

Read and Understood by: Wade T. DeLong Date: 2-24-94

(M:\WPCORP\FORMS\SETA.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
		QC	CP	10:17	2/15/94

pH 4.0 [ ] pH 7.0 [✓] 7.01 pH 10.0 [✓] 10.04 Sample pH 7.01

Slope: 92.6 mV Temperature: 22.3 °C Ph Meter: Beckman

Comments: PL # 7.00 buffer - CV 0050 - 10 buffer - CV. 0051

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3345	12358	RW-1	CP	10:51	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.45

Slope: 100.9 mV Temperature: 17.4 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3169	15226N	CLS-DS-01	CP	10:45	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.03

Slope: 101.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3176	15226N	CLS-DS-01A	CP	10:49	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.24

Slope: 100.9 mV Temperature: 21.8 °C Ph Meter: Beckman

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade R. DeLong Date: 2-24-94
(C:\WP50\FORMS\pH.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3171	15226N	CLS·DS·01B	CP	10:54	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.89

Slope: 100.9 mV Temperature: 21.6 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3172	15226N	CLS·CSS·01	CP	10:46	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.35

Slope: 100.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3173	15226N	CLS·CSS·02	CP	10:55	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.53

Slope: 100.9 mV Temperature: 21.1 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3174	15226N	CLS·CSS03	CP	10:57	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.33

Slope: 100.9 mV Temperature: 19.6 °C Ph Meter: Beckman

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2-24-94

(C:\WP50\FORMS\pH.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3175	15226N	CLJ-CSS-04	CP	11:00	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.41

Slope: 100.9 mV Temperature: 21.2 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3176	15226N	CLJ-CSS05	CP	11:06	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.80

Slope: 100.9 mV Temperature: 21.7 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3177	15226N	CLJ-CSS06	CP	11:08	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.18

Slope: 100.9 mV Temperature: 21.8 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3178	15226N	CLJ-CSS07	CP	11:10	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.80

Slope: 100.9 mV Temperature: 21.2 °C Ph Meter: Beckman

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2-24-94
(C:\WP50\FORMS\pH.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3179	15226N	CLJ-CSS-08	CP	11:13	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.42

Slope: 100.9 mV Temperature: 20.9 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3180	15226N	CLJ-CSS-09	CP	11:16	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.41

Slope: 100.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3181	15226N	CLJ-CSS-10	CP	11:18	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.03

Slope: 100.9 mV Temperature: 21.3 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3182	15226N	CLJ-CSS-11	CP	11:19	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.42

Slope: 100.9 mV Temperature: 21.2 °C Ph Meter: Beckman

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2.24.94

(C:\WP50\FORMS\pH.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3183	15226N	CLJ.CSS.12	CP	11:22	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.97

Slope: 100.9 mV Temperature: 22.8 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3184	15226N	CLJ.CSS.13	CP	11:24	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.42

Slope: 100.9 mV Temperature: 20.9 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3185	15226N	CLJ.CSS.14	CP	11:26	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.58

Slope: 100.9 mV Temperature: 21.0 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3186	15226N	CLJ.CSS-15	CP	11:27	2/15/94 ↓

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [✓] CP Sample pH 5.45

Slope: 100.9 mV Temperature: 21.0 °C Ph Meter: Beckman

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2-24-94

(C:\WP50\FORMS\pH.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3187	15226N	CLS·CSS·16	CP	11:29	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.37

Slope: 100.9 mV Temperature: 19.8 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3188	15226N	CLS CSS17	CP	11:31	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.34

Slope: 101.9 mV Temperature: 21.6 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3189	15226N	CLS·CSS·18	CP	11:33	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.28

Slope: 100.9 mV Temperature: 22.1 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3198	15226N	CLS. CSS·19	CP	11:34	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.31

Slope: 100.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments:

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2-24-94
(C:\WP50\FORMS\pH.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3/91	15226N	CLB·CSS·20	CP	11:37	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.82

Slope: 110.9 mV Temperature: 21.9 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3/92	15226N	CLB·CSS-21	CP	11:39	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 6.40

Slope: 110.9 mV Temperature: 22.1 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date
JM3/93	15226N	CLB·CSS·22	CP	11:42	2/15/94

pH 4.0 [✓] pH 7.0 [✓] pH 10.0 [ ] Sample pH 5.93

Slope: 110.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments:

Sample ID	Project #	Sample Point	Analyst	Time	Date

pH 4.0 [ ] pH 7.0 [ ] pH 10.0 [ ] Sample pH ____

Slope: ____ mV Temperature: ____ °C Ph Meter: ____

Comments: Cindy Polan 2.15.94

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2-24-94
(C:\WP50\FORMS\pH.201)

pH

Sample ID	Project #	Sample Point	Analyst	Time	Date
		QC	CP	10:19	2/15/94

pH 4.0 [ ] pH 7.0 [✓] pH 10.0 [✓] Sample pH 7.03

Slope: 92.6 mV Temperature: 21.4 °C Ph Meter: Beckman

Comments: PH buffer # 7 · CV0050 - # 10 buffer CV0051

Sample ID	Project #	Sample Point	Analyst	Time	Date
		QC	CP	~~10:20~~ (CP)	2/15/94

pH 4.0 [✓] 4.04 pH 7.0 [✓] 7.01 pH 10.0 [ ] Sample pH 4.04

Slope: 100.9 mV Temperature: 21.5 °C Ph Meter: Beckman

Comments: PH buffer # 4 - CV.0049. PH buffer # 7. CV0050

Sample ID	Project #	Sample Point	Analyst	Time	Date
		QC	CP	~~10:45~~ 11:45 (CP)	2/15/94

pH 4.0 [✓] 4.01 pH 7.0 [✓] 7.04 pH 10.0 [ ] Sample pH 4.01

Slope: 100.9 mV Temperature: 21.0 °C Ph Meter: Beckman

Comments: PH buffer # 4. CV0049 · PH buffer # 7 CV0050

Sample ID	Project #	Sample Point	Analyst	Time	Date
					/ /

pH 4.0 [ ] pH 7.0 [ ] pH 10.0 [ ] Sample pH ____

Slope: ____ mV Temperature: ____ °C Ph Meter: ____

Comments: Cecily Polan 2.15.94

Reference: USEPA EPA-600/4-79-020; 1983 Revised; Method 150.1

Read and Understood by: Wade T. DeLong Date: 2-24-94

(C:\WP50\FORMS\pH.201)

TOTAL SOLIDS

Sample #	Project #	Sample Point	B = Weight of dry dish	C = Weight of wet sample + dry dish	A = Weight of dry sample + dry dish	Percent Total Solids
JM 3170	15236 N	CLJ-DS-01A	1.59	7.23 5.64	6.66	89.9
3171		CLJ-DS-01B	1.58	~~1.58~~ 7.12 5.54	6.51	89.0
3172		CLJ-CSS-01	1.59	7.34 5.75	6.74	89.6
3173		CLJ-CSS-02	1.59	7.19 5.60	6.46	87.0
3174		CLJ-CSS-03	1.60	7.12 5.52	6.22	83.7
3175		CLJ-CSS-04	1.58	7.16 5.58	6.78	93.2
3176		CLJ-CSS-05	1.59	7.11 5.52	6.71	92.8
3177		CLJ-CSS-06	1.58	7.11 5.53	6.03	80.5
3178		CLJ-CSS-07	1.57	7.02 5.45	6.77	95.4
3179		CLJ-CSS-08	1.57	7.08 5.51	6.70	93.1
3180		CLJ-CSS-09	1.58	7.08 5.50	6.00	80.4
3181		CLJ-CSS-10	1.59	7.17 5.58	6.67	91.0
3182		CLJ-CSS-11	1.60	7.15 5.55	6.65	91.0
3183		CLJ-CSS-12	1.59	7.37 5.78	7.29	98.6

$$\% \text{ Total Solids} = \frac{A - B}{C - B} \times 100$$

Drying Temperature: 103°C - 105°C

Reference: Standard Methods, 16th edition, 1985. Method 209F.

RECORDED BY: AS, CC

DATE: 2-12-94

READ AND UNDERSTOOD BY: CW Wade T. DeLong 2-18-94

DATE: 2-13-94

(C:\WP50\FORMS\%SOLIDS.201)

(Created: 5-16-91)

0611

TOTAL SOLIDS

Sample #	Project #	Sample Point	B = Weight of dry dish	C = Weight of wet sample + dry dish	A = Weight of dry sample + dry dish	Percent Total Solids
JM 3184	15226N	CLJ-CSS-13	1.61	7.10 5.49	6.55	90.0
3185		CLJ-CSS-14	1.61	7.11 5.50	6.60	90.7
3186		CLJ-CSS-15	1.60	7.05 5.45	6.48	89.5
3187		CLJ-CSS-16	1.59	7.07 5.48	6.59	91.2
3188		CLJ-CSS-17	1.60	7.19 5.59	6.21	82.5
3189		CLJ-CSS-18	1.59	7.11 5.52	6.84	95.1
3190		CLJ-CSS-19	1.60	7.12 5.52	6.55	89.7
3191		CLJ-CSS-20	1.62	7.03 5.41	6.10	82.8
3192		CLJ-CSS-21	1.59	7.06 5.47	6.70	93.4
3193		CLJ-CSS-22	1.59	7.12 5.53	6.39	86.8

Angela C. Schiermeyer 2-12-94

$$\% \text{ Total Solids} = \frac{A - B}{C - B} \times 100$$

Drying Temperature: 103°C - 105°C

Reference: Standard Methods, 16th edition, 1985. Method 209F.

RECORDED BY: AS, CC

DATE: 2-12-94

READ AND UNDERSTOOD BY: CW Wade T. DeLong 2-18-94

DATE: 2-13-94

(C:\WP50\FORMS\%SOLIDS.201)

(Created: 5-16-91)

0612

TOTAL SOLIDS

Sample #	Project #	Sample Point	B = Weight of dry dish	C = Weight of wet sample + dry dish	A = Weight of dry sample + dry dish	Percent Total Solids
JM3044	15372	1749	1.60	7.17 5.57	6.43	86.7
3045		1750	1.59	7.51 5.92	6.57	84.1
3046		1751	1.59	7.09 5.50	6.44	88.1
3047		1752	1.60	8.11 6.50	7.78	95.0
3048		1753	1.58	7.13 5.55	6.41	87.0
3049		1754	1.61	7.63 6.02	6.72	84.8
3050		1755	1.62	7.34 5.72	6.03	77.0
3015	13407C	GCLF-1	1.60	7.93 6.33	7.38	91.3%
3017	14416C	~~14416~~ MS-023	1.59	7.96 6.37	6.93	83.8%
3124	15230	B-2	1.61	8.15 6.54	7.64	92.2
JM3169	15226	CLJ-DS-01	1.61	7.66 6.05	6.97	88.5
						Wade T. DeLong 2-22-94

$$\% \text{ Total Solids} = \frac{A - B}{C - B} \times 100$$

Drying Temperature: 103°C - 105°C

Reference: Standard Methods, 16th edition, 1985. Method 209F.

RECORDED BY: AS CC. DATE: 2-4-94

READ AND UNDERSTOOD BY: Wade T. DeLong DATE: 2-23-94

(C:\WP50\FORMS\%SOLIDS.201) (Created: 5-16-91)

SECTION 2

(DG)

DATA SUMMARY REPORT

DATE: 11/02/94

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DG-01**
ASC Sample Number: JM3970
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Semivolatile Tentatively Identified Compounds, GC/MS, (CL1F)		
Unk hydrocarbon	mg/kg	369 J
Unk hydrocarbon	mg/kg	399 J
Unk hydrocarbon	mg/kg	509 J
Unk hydrocarbon	mg/kg	478 J
Unk hydrocarbon	mg/kg	610 J
Unk hydrocarbon	mg/kg	547 J
Unk hydrocarbon	mg/kg	385 J
Unk hydrocarbon	mg/kg	489 J
Unk hydrocarbon	mg/kg	515 J
Unk hydrocarbon	mg/kg	529 J
Unk hydrocarbon	mg/kg	844 J
Unk hydrocarbon	mg/kg	562 J
Unk hydrocarbon	mg/kg	501 J
Unk hydrocarbon	mg/kg	568 J
Unk hydrocarbon	mg/kg	575 J
Unk hydrocarbon	mg/kg	548 J
Unk hydrocarbon	mg/kg	646 J
Unk hydrocarbon	mg/kg	677 J
Unk hydrocarbon	mg/kg	771 J
Unk hydrocarbon	mg/kg	796 J
Conventional Data (CV10)		
BTU/lb	BTU/lb	17500
Chloride	mg/kg	<5.00
Density	gm/cc	.958
Nitrate as N	mg/kg	<2.50
Phosphate, Dissolved	mg/kg	<3.26
Sulfate as SO4	mg/kg	15.0

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DG-01**
ASC Sample Number: JM3970
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Total Pesticide and PCB Analysis, GC, (GS05)		
Aldrin	mg/kg	<.255
Alpha-BHC	mg/kg	<.255
Beta-BHC	mg/kg	<.255
Chlordane	mg/kg	<1.28
4,4'-DDD	mg/kg	<.255
4,4'-DDE	mg/kg	<.255
4,4'-DDT	mg/kg	<.255
Delta-BHC	mg/kg	<.255
Dieldrin	mg/kg	<.255
Endosulfan sulfate	mg/kg	<.255
Endosulfan I	mg/kg	<.255
Endosulfan II	mg/kg	<.255
Endrin	mg/kg	<.255
Endrin aldehyde	mg/kg	<.255
Endrin ketone	mg/kg	<.255
Gamma-BHC	mg/kg	<.255
Heptachlor	mg/kg	<.255
Heptachlor epoxide	mg/kg	<.255
Methoxychlor	mg/kg	<.255
Toxaphene	mg/kg	<5.11
Aroclor 1016	mg/kg	<2.55
Aroclor 1221	mg/kg	<2.55
Aroclor 1232	mg/kg	<2.55
Aroclor 1242	mg/kg	<2.55
Aroclor 1248	mg/kg	<2.55
Aroclor 1254	mg/kg	<2.55
Aroclor 1260	mg/kg	<2.55
alpha-Chlordane	mg/kg	<.255
gamma-Chlordane	mg/kg	<.255

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DG-01**
ASC Sample Number: JM3970
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Target Analyte List Total Metals Analysis, (ME20)		
Aluminum	mg/kg	285
Antimony	mg/kg	<1.98
Arsenic	mg/kg	<4.95
Barium	mg/kg	32.7
Beryllium	mg/kg	<.990
Cadmium	mg/kg	<.990
Calcium	mg/kg	118
Chromium	mg/kg	1.73
Cobalt	mg/kg	<4.95
Copper	mg/kg	4.58
Iron	mg/kg	5200
Lead	mg/kg	50.7
Magnesium	mg/kg	<24.8
Manganese	mg/kg	14.7
Mercury	mg/kg	<.051
Nickel	mg/kg	3.00
Potassium	mg/kg	57.2
Selenium	mg/kg	<4.95
Silver	mg/kg	<.990
Sodium	mg/kg	636
Thallium	mg/kg	<4.95
Vanadium	mg/kg	<4.95
Zinc	mg/kg	5.77
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)		
Acenaphthene	mg/kg	<600
Acenaphthylene	mg/kg	<600
Anthracene	mg/kg	<600
Benzo(a)anthracene	mg/kg	<600
Benzo(b)fluoranthene	mg/kg	<600
Benzo(k)fluoranthene	mg/kg	<600
Benzo(a)pyrene	mg/kg	<600
bis(2-Chloroethoxy)methane	mg/kg	<600
bis(2-Ethylhexyl)phthalate	mg/kg	<600
Carbazole	mg/kg	<600

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DG-01**
ASC Sample Number: JM3970
Sample Date: 940224
Facility Code: 015226N

Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)

Parameters	Units	
4-Chloroaniline	mg/kg	<600
2-Chloronaphthalene	mg/kg	<600
2-Chlorophenol	mg/kg	<600
Chrysene	mg/kg	<600
Dibenzo(a,h)anthracene	mg/kg	<600
Dibenzofuran	mg/kg	<600
1,2-Dichlorobenzene	mg/kg	<600
1,3-Dichlorobenzene	mg/kg	<600
1,4-Dichlorobenzene	mg/kg	<600
3,3'-Dichlorobenzidine	mg/kg	<600
2,4-Dichlorophenol	mg/kg	<600
2,4-Dimethylphenol	mg/kg	<600
2,4-Dinitrophenol	mg/kg	<3000
2,4-Dinitrotoluene	mg/kg	<600
2,6-Dinitrotoluene	mg/kg	<600
Fluoranthene	mg/kg	<600
Fluorene	mg/kg	<600
Hexachlorobenzene	mg/kg	<600
Hexachlorobutadiene	mg/kg	<600
Hexachlorocyclopentadiene	mg/kg	<600
Hexachloroethane	mg/kg	<600
Isophorone	mg/kg	<600
2-Methylnaphthalene	mg/kg	<600
2-Methylphenol	mg/kg	<600
4-Methylphenol	mg/kg	<600
N-Nitrosodiphenylamine	mg/kg	<600
Naphthalene	mg/kg	<600
2-Nitroaniline	mg/kg	<600
3-Nitroaniline	mg/kg	<600
4-Nitroaniline	mg/kg	<600
Nitrobenzene	mg/kg	<600
2-Nitrophenol	mg/kg	<600
4-Nitrophenol	mg/kg	<3000
Pentachlorophenol	mg/kg	<600
Phenanthrene	mg/kg	<600

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DG-01**
ASC Sample Number: JM3970
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Target Compound List Base/Neutral/Acid Analysis, MS, (MS22)		
Phenol	mg/kg	<600
Pyrene	mg/kg	<600
1,2,4-Trichlorobenzene	mg/kg	<600
2,4,5-Trichlorophenol	mg/kg	<600
2,4,6-Trichlorophenol	mg/kg	<600
Target Compound List Volatile Analysis, MS, (MV20)		
Acetone	mg/kg	<.625
Benzene	mg/kg	<.625
Bromoform	mg/kg	<.625
Carbon disulfide	mg/kg	<.625
Carbon tetrachloride	mg/kg	<.625
Chlorobenzene	mg/kg	<.625
Chlorodibromomethane	mg/kg	<.625
Chloroethane	mg/kg	<.625
Chloroform	mg/kg	<.625
Dichlorobromomethane	mg/kg	<.625
1,1-Dichloroethane	mg/kg	<.625
1,2-Dichloroethane	mg/kg	<.625
1,1-Dichloroethylene	mg/kg	<.625
1,2-Dichloropropane	mg/kg	<.625
cis-1,3-Dichloropropylene	mg/kg	<.625
trans-1,3-Dichloropropylene	mg/kg	<.625
Ethylbenzene	mg/kg	<.625
2-Hexanone	mg/kg	<.625
Methyl bromide	mg/kg	<.625
Methyl chloride	mg/kg	<.625
Methylene chloride	mg/kg	<.625
Methyl ethyl ketone	mg/kg	<1.25
Methyl-iso-butyl ketone	mg/kg	<1.25
Styrene	mg/kg	<.625
1,1,2,2-Tetrachloroethane	mg/kg	<.625
Tetrachloroethylene	mg/kg	<.625
Toluene	mg/kg	<.625
1,2-Trans-dichloroethylene	mg/kg	<.625

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DG-01**
ASC Sample Number: JM3970
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Target Compound List Volatile Analysis, MS, (MV20)		
1,1,1-Trichloroethane	mg/kg	<.625
1,1,2-Trichloroethane	mg/kg	<.625
Trichloroethylene	mg/kg	<.625
Vinyl chloride	mg/kg	<.625
Xylenes	mg/kg	<.625

Analytical Services Corp.

ANALYTICAL REPORT

REVISED 7/1/94

Client: OHM Remediation Services Corporation
Southern Region (Morrisville, NC)

Attn: Kent Geis
Bill Perry

Project: 15226N - NEESA; Camp LeJuene, Jacksonville, NC

Sample(s): CLJ-DG-01

Sample Type(s): Organic

Analysis Performed: Conventionals, Metals and Organics

Date Sample Received: February 25, 1994

Date Order Received: February 25, 1994

Joblink(s): 615260

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: J. Hrutkay for *Thomas E. Gran, Ph.D., Vice President* *Date:* 7-5-94

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Conventionals		
BTU/lb	ASTM	D240-76
Bulk Density	ASTM	D5057
Anions by IC (Cl, NO_3, PO_4 and SO_4)	CAWW	300.0
Metals		
Metals (except mercury)	SW-846	6010
Mercury by Cold Vapor	SW-846	7470
Organics		
Volatile Compounds by GC/MS	SW-846	8240
Semi-volatile Compounds by GC/MS	SW-846	8270
Pesticides and PCBs by GC	SW-846	8080

SDG NARRATIVE

Conventionals

The method qualifier for Anions by Ion Chromatography is "IC", BTU/lb is "BT" and Density is "D", the CLP manual does not address these methods for reporting. The RPD for BTU/lb is not reported due to the acceptance criteria listed in ASTM D240-76 which is a difference of <55 BTU/lb.

Metals

Due to sample matrix problems, all metals except Mercury, were analyzed by ICP.

Spike recoveries were outside QC limits for Antiomny, Chromium and Copper. The Lead spike recovery was outside limits due to high level of analyte present in the unspiked sample. All metals listed above resulted in acceptable spike recoveries for the Post Spike Sample.

Pesticides/PCBs

The surrogate Tetrachloro-m-xylene (TCX) was outside the advisory limits for Sample #CLJ-DG-01. This surrogate was also outside the limits, in the same direction, in the matrix spike/matrix spike duplicate (MS/MSD). The same Sample #CLJ-DG-01 was utilizied for the MS/MSD demonstrating matrix interferences.

Lindane was outside QC limits in both the matrix spike and matrix spike duplicate. The method blank spike for Lindane resulted in 92% recovery which is well within the QC acceptability limits. This demonstrates potential matrix interferences with respect to this compound.

Semi-volatile Organics

Due to high levels of non-target compounds present, Sample #CLJ-DG-01 was diluted by a factor of 20. This dilution factor was also applied on Sample #CLJ-DG-01 matrix spike/matrix spike duplicate. As a result, elevated detection limits are reported for the target compound list. Two surrogate recoveries were outside QC limits in the matrix spike and six surrogates were outside QCF limits in the matrix spike duplicate. Thirteen out of twenty-two spike recoveries were outside QC lmits. All compounds that were outside QC lmits in the MS/MSD were within QC lmits in the method spike. This demonstrates that the method was "in-control" and that poor recoveries in the MS/MSD are attributable to matrix interferences and dilution factors.

All initial and continuing calibration criteria were met.

SDG NARRATIVE

Volatile Organics

Sample #CLJ-DG-01 was initially analyzed on 3/4/94 at too high of a dilution factor. The holding time for this sample expired on 3/10/94. The sample was subsequently analyzed on 3/30/94 at a more concentrated dilution factor. The results of this analysis have been reported. The chromatograms from the 3/4/94 analysis have also been included for your review.

All initial and continuing calibration criteria were met.

Reason for Revision:

- This report was revised to include BTU and Density in the Conventional Analyses Section.

COVER PAGE
CONVENTIONAL ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** NA

DW No.: NA

EPA Sample No.	Lab Sample ID.
CLJ-DG-01	JM3970

COMMENTS: See SDG NARATIVE

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

Signature: J. Hnatour **Name:** Joseph Hnatour

Date: 5/06/94 **Title:** Operations Manager

CONVENTIONAL ANALYSIS DATA SHEET (1)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA SAMPLE #:** CLJ-DG-01

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** NA

Matrix: (soil/water) OIL **Level:** (low/med) MED **Lab Sample ID:** JM3970

% Solids: _____ **Date Received:** 2/25/94

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

CAS NO.	ANALYTE	CONCENTRATION	C	Q	M
	Chloride	5.00	B		IC
	Nitrate as N	2.50	B		IC
	Phosphate as P	3.26	U		IC
	Sulfate	15.0			IC
	BTU/lb	17500			BT
	Density	0.958			D

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

COMMENTS: _____

INITIAL AND CONTINUING CALIBRATION VERIFICATION (2A)

005

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** ~~BLT 06~~ NA

Initial Calibration Source: Alltech AIC-143 **Continuing Calibration Source:** Alltech AIC-143

Concentration Units: ug/L

Analyte	INITAL CALIBRATION			CONTINUING CALIBRATION					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chloride	4.00	4.06	101	4.00	4.12	103			IC
Nitrate as N	.904	.845	93.5	.904	.878	97.1			IC
Phosphate as P	1.96	1.83	93.4	1.96	1.80	91.8			IC
Sulfate	6.00	5.76	96.0	6.00	5.87	97.8			IC

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

BLANKS (3)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **Lab Code:** NA

Case #: NA **SAS #:** NA **SDG #:** ~~CLI-DG-01~~ NA

Prep Blank Matrix: (soil/water) WATER

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

ANALYTE	Init Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Chloride									.153	B	IC
Nitrate as N									0	U	IC
Phosphate as P									0	U	IC
Sulfate									.293	B	IC

SPIKE SAMPLE RECOVERY (5A)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DG-01

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** ~~CLJ-DG-01~~ NA

Matrix: (soil/water) OIL **Level** (low/med): MED **% Solids for Sample:** _____

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

ANALYTE	CONTROL LIMIT %R	SPIKE SAMPLE RESULT (SSR)	C	SAMPLE RESULT (SR)	C	SPIKE ADDED (SA)	% R	Q	M
Chloride		59.2		4.97	B	50.0	108		IC
Nitrate as N		11.3		.699	B	11.3	92.9		IC
Phosphate as P		16.6		1.27	B	16.3	94.0		IC
Sulfate		66.7		15.0		50.0	103		IC

COMMENTS: _____

DUPLICATES (6)

Lab Name: *Analytical Services Corp* **Contract:** NEESA **EPA Sample #:** CLJ-DG-C

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** NA

Matrix: (soil/water) OIL **% Solids for Sample:** ____

Level (low/med): MED **% Solids for Duplicate:** ____

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

ANALYTE	CONTROL LIMIT	SAMPLE(s)	C	DUPLICATE (D)	C	RPD	Q	M
Chloride		59.2		59.1		.169		IC
Nitrate as N		11.2		11.3		.889		IC
Phosphate as P		16.6		16.7		.601		IC
Sulfate		66.7		66.9		.229		IC
BTU/lb		1125		1169				BT

LABORATORY CONTROL SAMPLE (7)

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** ~~CLJ-D6-01~~ NA

Liquid LCS Source: AIC-146 **Aqueous LCS Source:** _____

ANALYTE	AQUEOUS (ug/L)			SOLID (mg/kg)					
	True	Found	% R	True	Found	C	Limits		% R
Chloride	5.00	4.83	93.0						
Nitrate as N	1.13	1.18	104						
Phosphate as P	1.63	1.67	102						
Sulfate	5.00	5.23	98.7						

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: *Analytical Services Corp* **Contract:** NEESA

Lab Code: NA **Case #:** NA **SAS #:** NA **SDG #:** NA

DW No.: NA

EPA Sample No.	Lab Sample ID.
CLJ-DG-01	JM3970

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: See SDG Narrative

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 diskette has been authorized by the Laboratory Manager or the Manager's Designee, as verified by the following signature.

Signature: J. Hnatow **Name:** Joseph Hnatow

Date: 5/26/94 **Title:** Operations Manager

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix (soil/water): SOIL Lab Sample ID: JM3970

Level (low/med): LOW Date Received: 2/25/94

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	285			P
7440-36-0	Antimony	0.661	U		P
7440-38-2	Arsenic	0.611	U		P
7440-39-3	Barium	32.7			P
7440-41-7	Beryllium	0.064	B		P
7440-43-9	Cadmium	0.027	U		P
7440-70-2	Calcium	118			P
7440-47-3	Chromium	1.73			P
7440-48-4	Cobalt	0.463	B		P
7440-50-8	Copper	4.58			P
7439-89-6	Iron	5200			P
7439-92-1	Lead	50.7			P
7439-95-4	Magnesium	19.7	B		P
7439-96-5	Manganese	14.7			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.00			P
7440-09-7	Potassium	57.2			P
7782-49-2	Selenium	1.16	B		P
7440-22-4	Silver	0.198	U		P
7440-23-5	Sodium	636			P
7440-28-0	Thallium	0.557	U		P
7440-62-2	Vanadium	1.27	B		P
7440-66-6	Zinc	5.77			P
	Cyanide				

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Analytical Services Corp Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Initial Calibration Source: NIST

Continuing Calibration Source: NIST

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	9630	9849	102	4800	SBS-11-94 ~~24~~ 4936	103			P
Antimony	4620	4709	102	2300	2424	105			P
Arsenic	4410	4718	107	2330	2441	105			P
Barium	9240	9443	102	4790	4880	102			P
Beryllium	248	251	101	125	127	102			P
Cadmium	2530	2547	101	1290	1320	102			P
Calcium	23100	23980	104	11950	12440	104			P
Chromium	973	991	102	487	508	104			P
Cobalt	2510	2546	101	1280	1323	103			P
Copper	1260	1285	102	606	645	106			P
Iron	4670	4.762	102	2390	2464	103			P
Lead	4680	4702	100	2400	2483	103			P
Magnesium	23300	23540	101	12300	12650	103			P
Manganese	2500	2.580	103	1280	1307	102			P
Mercury	5.00	4.45	88.9	5.00	4.43	88.6	4.38	87.5	CV
Nickel	2500	2574	103	1310	1329	101			P
Potassium	23800	24330	102	11920	12630	106			P
Selenium	4590	4693	102	2360	2432	103			P
Silver	1260	1275	101	588	623	106			P
Sodium	23800	24220	102	12140	12440	102			P
Thallium	4510	4525	100	2350	2392	102			P
Vanadium	4730	4777	101	2410	2474	103			P
Zinc	2480	2522	102	1240	1277	103			P
Cyanide									

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

3
BLANKS

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
									17.8		
Aluminum	16.1	U	6.8	U					~~17.8~~ SB 3-11-94	U	P
Antimony	2.3	U	-20.0	U					-18.6	U	P
Arsenic	5.0	U	4.4	U					-10.9	U	P
Barium	1.3	U	1.2	U					2.0	U	P
Beryllium	0	U	0.1	U					0	U	P
Cadmium	0.1	U	-0.2	U					0.9	U	P
Calcium	4.6	U	4.6	U					50.1	B	P
Chromium	-0.8	U	-0.8	U					-0.1	U	P
Cobalt	2.4	U	1.3	U					1.9	U	P
Copper	1.8	U	0	U					6.7	U	P
Iron	-0.9	U	6.8	B					-2.2	U	P
Lead	9.4	U	9.8	U					-7.5	U	P
Magnesium	13.7	U	-6.5	U					14.5	U	P
Manganese	0.4	U	0.1	U					1.7	B	P
Mercury	-0.095	U	-0.076	U	-0.046	U			-0.066	U	CV
Nickel	3.4	U	4.1	U					5.5	U	P
Potassium	638	U	255	U					128	U	P
Selenium	10.2	U	4.0	U					17.0	U	P
Silver	0.8	U	1.5	U					0.3	U	P
Sodium	40.3	U	86.1	U					-69.2	U	P
Thallium	6.5	U	8.2	U					13.0	U	P
Vanadium	1.8	U	2.0	U					0	U	P
Zinc	0.7	U	0.3	U					2.6	U	P
Cyanide											

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Analytical Services Corp Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

ICP ID Number: 61 ICS Source: Ventures

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	487000	481000	494000	482000	100	496000	489000	102
Antimony		895	20.8	917	102	2.1	931	104
Arsenic		932	-14.7	954	102	13.9	964	103
Barium		471	1.9	468	99.4	1.9	472	100
Beryllium		465	0.1	465	100	-0.1	474	102
Cadmium		874	-5.8	900	103	-5.5	924	106
Calcium	184000	227000	188000	227000	100	190000	231200	102
Chromium		462	-5.2	467	101	-6.5	472	102
Cobalt		432	-2.5	440	102	-3.0	449	104
Copper		472	7.6	483	102	2.1	489	104
Iron	177000	172000	181000	174000	101	181000	176000	102
Lead		883	-23.2	868	98.3	-36.8	907	103
Magnesium	243000	490000	248000	500000	102	251000	512000	104
Manganese		406	-1.9	453	112	-2.6	456	112
Mercury								
Nickel		872	1.5	878	101	4.4	893	102
Potassium								
Selenium		885	27.0	917	104	17.6	907	102
Silver		923	-6.0	925	100	-4.8	941	102
Sodium		963	-60.6	988	103	-43.3	1011	105
Thallium		864	23.1	843	97.6	22.8	882	102
Vanadium		446	0.6	447	100	0.5	455	102
Zinc		923	25.9	937	102	17.5	953	103

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ANALYTICAL SERVICES CORP. Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

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

% Solids for Sample: _____

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	564		285		257	109		P
Antimony	75-125	4.22		0	U	12.4	34.0	N	P
Arsenic	75-125	40.0		0.255	B	51.6	77.0		P
Barium	75-125	78.3		32.7		50.7	89.9		P
Beryllium	75-125	1.13		0.064	B	1.27	83.9		P
Cadmium	75-125	0.972		-0.052	B	1.28	80.0		P
Calcium	75-125	398		118		259	108		P
Chromium	75-125	9.01		1.73		5.39	135	N	P
Cobalt	75-125	11.2		0.463	B	13.1	82.0		P
Copper	75-125	16.1		4.58		6.87	168	N	P
Iron		5201		5200		253	0		P
Lead	75-125	118		50.7		13.0	518	N	P
Magnesium	75-125	227		19.7	B	254	81.6		P
Manganese	75-125	27.1		14.7		12.9	96.1		P
Mercury	75-125	247		0	U	253	102		CV
Nickel	75-125	14.7		3.00		12.9	90.7		P
Potassium	75-125	276		57.2		262	83.5		P
Selenium	75-125	43.1		1.16	B	52.1	80.5		P
Silver	75-125	1.01		0	U	1.24	81.5		P
Sodium	75-125	895		636		271	95.6		P
Thallium	75-125	41.4		0	U	51.6	80.2		P
Vanadium	75-125	12.2		1.27	B	12.9	84.7		P
Zinc	75-125	17.2		5.77		12.8	89.3		P
Cyanide									

Comments:

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

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

Concentration Units: ~~ug/L~~ MG/KG 5B 5-12-94

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	522		257		265	100		P
Antimony	75-125	12.2		0	U	12.0	102		P
Arsenic	75-125	50.9		0.230	B	53.2	95.2		P
Barium	75-125	82.1		29.4		52.3	101		P
Beryllium	75-125	1.33		0.058	B	1.31	97.1		P
Cadmium	75-125	1.25		-0.047	B	1.32	98.3		P
Calcium	75-125	429		106		267	121		P
Chromium	75-125	7.43		156		5.55	106		P
Cobalt	75-125	13.4		0.417	B	13.5	96.2		P
Copper	75-125	11.7		4.12		7.08	107		P
Iron		4074		4680		261	0		P
Lead	75-125	58.8		45.6		13.4	98.5		P
Magnesium	75-125	267		17.7	B	262	95.2		P
Manganese	75-125	32.4		13.2		13.3	144	N	P
Mercury									
Nickel	75-125	15.6		2.70		13.3	97.0		P
Potassium	75-125	308		51.5		270	95.0		P
Selenium	75-125	53.2		1.04	B	53.7	97.1		P
Silver	75-125	1.24		0	U	1.28	96.9		P
Sodium	75-125	875		572		279	109		P
Thallium	75-125	50.6		0	U	53.2	95.1		P
Vanadium	75-125	14.3		1.14	B	13.3	98.9		P
Zinc	75-125	18.0		5.19		13.2	97.0		P
Cyanide									

Comments:

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6
DUPLICATES

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ANALYTICAL SERVICES CORP Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

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

% Solids for Sample: _____ % Solids for Duplicate: _____

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		285		315		10.0		P
Antimony		0.324	U	-0.283	U			P
Arsenic	0.248	0.255	B	0.783	B	101	*	P
Barium		32.7		36.5		10.9		P
Beryllium	0.017	0.064	B	0.076	B	17.1		P
Cadmium	0.027	-0.052	B	-0.012	U	125	*	P
Calcium	124	118		286		83.2	*	P
Chromium		1.73		1.97		13.0		P
Cobalt	1.24	0.463	B	0.443	B	4.4		P
Copper	2.48	4.58		5.62		20.4		P
Iron		5200		2960		54.9	*	P
Lead		50.7		51.7		2.0		P
Magnesium		19.7	B	21.6	B	9.2		P
Manganese		14.7		13.1		11.5		P
Mercury	10.1	~~0.035~~ 1.77	U	~~0.267~~ 11.7		147		CV
Nickel	0.990	3.00		2.99		0.3		P
Potassium		57.2		66.4		14.9		P
Selenium		1.16	B	0.958	B	19.1		P
Silver		-0.060	U	-0.067	U	11.0		P
Sodium		636		726		13.2		P
Thallium		0.228	U	0.037	U	144	*	P
Vanadium	1.24	1.27	B	1.30	B	2.3		P
Zinc		577		5.06		13.1		P
Cyanide								

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N4P40197P

Sample wt/vol: 2.00 (g/mL) g Lab File ID: ^Z4201

% Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94

Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94

Concentrated Extract Volume: 6000 (uL) Date Analyzed: 3-25-94

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	300	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	6000	
12674-11-2	Aroclor-1016	3000	U
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PSPK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N4P40197PS

Sample wt/vol: 2.00 (g/mL) g Lab File ID: ^Z4202

% Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94

Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94

Concentrated Extract Volume: 6000 (uL) Date Analyzed: 3-25-94

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	1670	
319-85-7	beta-BHC	1510	
319-86-8	delta-BHC	1330	
58-89-9	gamma-BHC (Lindane)	1600	
76-44-8	Heptachlor	1380	
309-00-2	Aldrin	1540	
1024-57-3	Heptachlor epoxide	1460	
959-98-8	Endosulfan I	1700	
60-57-1	Dieldrin	1640	
72-55-9	4,4'-DDE	1710	
72-20-8	Endrin	1840	
33213-65-9	Endosulfan II	1600	
72-54-8	4,4'-DDD	1580	
1031-07-8	Endosulfan sulfate	1360	
50-29-3	4,4'-DDT	1620	
72-43-5	Methoxychlor	2030	
53494-70-5	Endrin ketone	1510	
7421-36-3	Endrin aldehyde	1150	
5103-71-9	alpha-Chlordane	1320	
5103-74-2	gamma-Chlordane	1340	
8001-35-2	Toxaphene	6000	U
12674-11-2	Aroclor-1016	3000	
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01MS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: ~~N-PS~~ JM3970PS

Sample wt/vol: 2.13 (g/mL) g Lab File ID: ^Z4203

% Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94

Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94

Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-25-94

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	589	
319-85-7	beta-BHC	793	
319-86-8	delta-BHC	452	
58-89-9	gamma-BHC (Lindane)	598	
76-44-8	Heptachlor	879	
309-00-2	Aldrin	711	
1024-57-3	Heptachlor epoxide	796	
959-98-8	Endosulfan I	864	
60-57-1	Dieldrin	705	
72-55-9	4,4'-DDE	714	
72-20-8	Endrin	766	
33213-65-9	Endosulfan II	653	
72-54-8	4,4'-DDD	708	
1031-07-8	Endosulfan sulfate	455	
50-29-3	4,4'-DDT	1410	
72-43-5	Methoxychlor	1400	
53494-70-5	Endrin ketone	531	
7421-36-3	Endrin aldehyde	439	
5103-71-9	alpha-Chlordane	742	
5103-74-2	gamma-Chlordane	726	
8001-35-2	Toxaphene	6100	U
12674-11-2	Aroclor-1016	3050	
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-~~DS~~ DG-01MSD

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA DL

Matrix: (soil/water) SOIL Lab Sample ID: 1M3970PR

Sample wt/vol: 2.08 (g/mL) g Lab File ID: ^Z4204

% Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94

Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94

Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-25-94

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
319-84-6	alpha-BHC	594	
319-85-7	beta-BHC	803	
319-86-8	delta-BHC	491	
58-89-9	gamma-BHC (Lindane)	622	
76-44-8	Heptachlor	866	
309-00-2	Aldrin	725	
1024-57-3	Heptachlor epoxide	813	
959-98-8	Endosulfan I	869	
60-57-1	Dieldrin	734	
72-55-9	4,4'-DDE	700	
72-20-8	Endrin	781	
33213-65-9	Endosulfan II	694	
72-54-8	4,4'-DDD	741	
1031-07-8	Endosulfan sulfate	491	
50-29-3	4,4'-DDT	1360	
72-43-5	Methoxychlor	1170	
53494-70-5	Endrin ketone	528	
7421-36-3	Endrin aldehyde	466	
5103-71-9	alpha-Chlordane	622	
5103-74-2	gamma-Chlordane	719	
8001-35-2	Toxaphene	6250	U
12674-11-2	Aroclor-1016	3130	
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970P

Sample wt/vol: 2.35 (g/mL) g Lab File ID: ^Z4205

% Moisture: NA decanted: (Y/N) NA Date Received: 2-25-94

Extraction: (SepF/Cont/Sonc) OIL Date Extracted: 3-4-94

Concentrated Extract Volume: 6000 (uL) Date Analyzed: 3-25-94

Injection Volume: 1.0 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
319-84-6	alpha-BHC	255	U
319-85-7	beta-BHC		
319-86-8	delta-BHC		
58-89-9	gamma-BHC (Lindane)		
76-44-8	Heptachlor		
309-00-2	Aldrin		
1024-57-3	Heptachlor epoxide		
959-98-8	Endosulfan I		
60-57-1	Dieldrin		
72-55-9	4,4'-DDE		
72-20-8	Endrin		
33213-65-9	Endosulfan II		
72-54-8	4,4'-DDD		
1031-07-8	Endosulfan sulfate		
50-29-3	4,4'-DDT		
72-43-5	Methoxychlor		
53494-70-5	Endrin ketone		
7421-36-3	Endrin aldehyde		
5103-71-9	alpha-Chlordane		
5103-74-2	gamma-Chlordane		
8001-35-2	Toxaphene	5110	
12674-11-2	Aroclor-1016	2550	
11104-28-2	Aroclor-1221		
11141-16-5	Aroclor-1232		
53469-21-9	Aroclor-1242		
12672-29-6	Aroclor-1248		
11097-69-1	Aroclor-1254		
11096-82-5	Aroclor-1260		

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

GC Column(1): DB 608 ID: .53 (mm) GC Column(2): DB-5 ID: .53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	90.7	106	95.6	111			0
02	PSPK01	86.3	100	97.3	112			0
03	CLJ-D6 (MS)	56.5*	66.8	74.7	98.4			1
04	CLJ-D6 (MSD)	54.2*	63.4	65.6	70.7			1
05	CLJ-D6-01	52.6*	57.6*	61.5	60.5			2
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

PESTICIDE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.:

Blank Spike - EPA Sample No.:

COMPOUND	SPIKE ADDED (ug/~~L~~ KG)	SAMPLE CONCENTRATION (ug/~~L~~ KG)	MS CONCENTRATION (ug/~~L~~ KG)	MS % REC #	QC LIMITS REC.
gamma-BHC (Lindane)	47.9	U	34.9	72.8	56-120
Heptachlor	37.5	U	27.6	73.5	40-131
Heptachlor Epoxide					30-130
Toxaphene					30-130
Endrin	89.3	U	93.3	104	30-130
Methoxychlor					30-130
gamma-Chlordane					30-130
alpha-Chlordane					30-130
					30-130
					30-103
					30-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 3 outside limits

COMMENTS:

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix Spike - EPA Sample No.: CLJ-D6-01

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	1620	0	598	36.7 *	46-127
Heptachlor	1340	0	879	65.7	35-130
Aldrin	1530	0	711	46.5	34-132
Dieldrin	1530	0	705	46.1	31-134
Endrin	1620	0	766	47.3	42-139
4,4'-DDT	1290	0	1410	109	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	1670	622	37.2 *	3.89	50	46-127
Heptachlor	1370	866	63.2	1.52	31	35-130
Aldrin	1560	725	46.5	1.95	43	34-132
Dieldrin	1570	734	46.8	4.09	38	31-134
Endrin	1660	781	47.0	1.98	45	42-139
4,4'-DDT	1320	1360	103	3.43	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO: PBLK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab Sample ID: N4P40197P Lab File ID:

Matrix: (soil/water) SOIL Extraction: (SepF/Cont/Sonc) OIL

Sulfur Cleanup: (Y/N) N Date Extracted: 3-4-94

Date Analyzed (1): 3-25-94 Date Analyzed (2): 3-25-94

Time Analyzed (1): 11:12 Time Analyzed (2): 11:56

Instrument ID (1): 1 Instrument ID (2): 2

GC Column (1): DB-608 ID: .53 (mm) GC Column (2): DB-5 ID: .53 (mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PSPK01	N4P40197PS	3-25-94	3-25-94
02	CLJ-DG-01MS	JM3970PS	↓	↓
03	CLJ-DG-01MSD	JM3970PR	↓	↓
04	CLJ-DG-01	JM3970P	↓	↓
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PEST 3/90

6D
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Instrument ID: 1 Level (x low): low 1.00 mid ~~2.5~~ 5.00 high 100

GC Column: DB-608 ID: .53 (mm) Date(s) Analyzed: 3-7-94 3-8-94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor	11.42	11.42	11.42	11.42	11.37	11.47
Aldrin						
Heptachlor epoxide	14.47	14.47	14.47	14.47	14.40	14.54
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	17.96	17.96	17.96	17.96	17.89	18.03
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	15.57	15.57	15.57	15.57	15.50	15.64
gamma-Chlordane	15.02	15.02	15.02	15.02	14.95	15.09
Tetrachloro-m-xylene	6.69	6.69	6.69	6.69	6.64	6.74
Decachlorobiphenyl	31.11	31.12	31.13	31.12	31.02	31.22

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.

6D
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

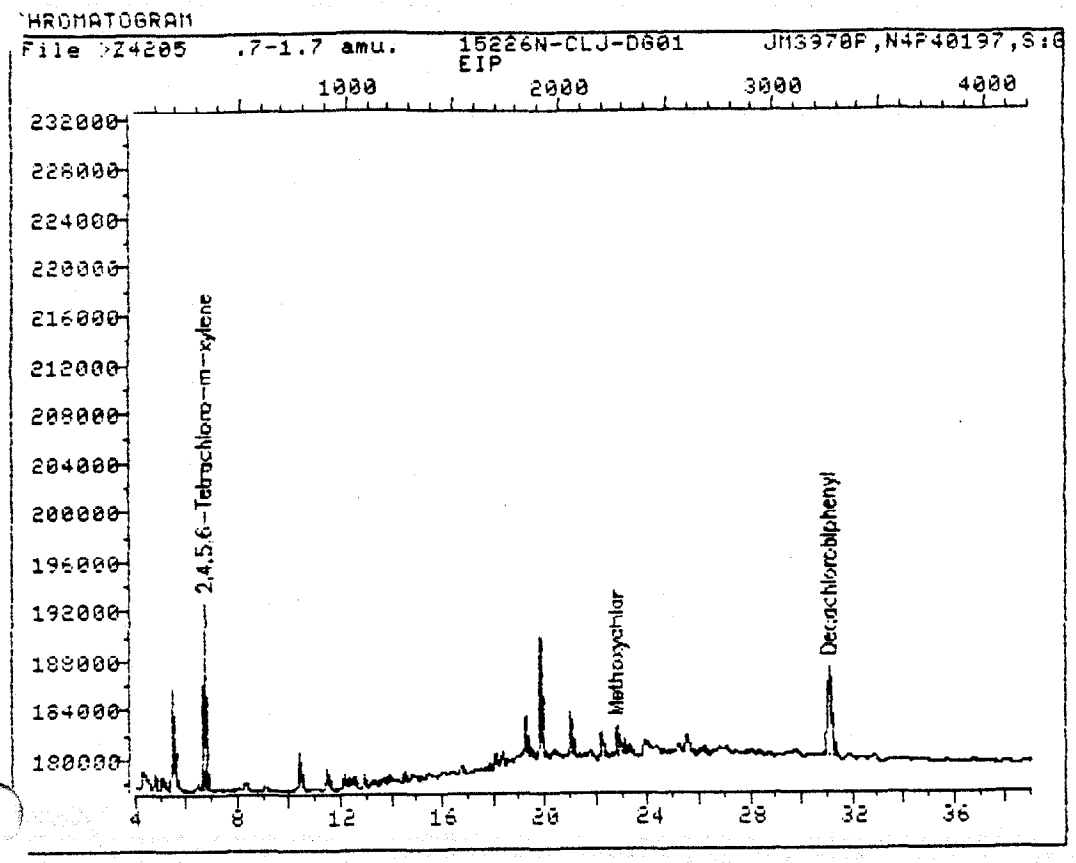
Instrument ID: 2 Level (x low): low 1.00 mid 5.00 high 100

GC Column: DB-5 ID: .53 (mm) Date(s) Analyzed: 3-7-94

COMPOUND	RT OF STANDARDS LOW	MID	HIGH	MEAN RT	RT WINDOW FROM	TO
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC (Lindane)						
Heptachlor	12.65	12.64	12.65	12.65	12.60	12.70
Aldrin						
Heptachlor epoxide	15.13	15.13	15.13	15.13	15.06	15.20
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin	18.02	18.02	18.02	18.02	17.97	18.09
Endosulfan II						
4,4'-DDD						
Endosulfan sulfate						
4,4'-DDT						
Methoxychlor						
Endrin ketone						
Endrin aldehyde						
alpha-Chlordane	16.36	16.36	16.36	16.36	16.29	16.43
gamma-Chlordane	15.91	15.91	15.91	15.91	15.84	15.98
Tetrachloro-m-xylene	7.94	7.90	7.90	7.91	7.86	7.96
Decachlorobiphenyl	32.37	32.38	32.38	32.38	32.28	32.48

* Surrogate retention times are measured from Standard Mix A analyses.

Retention time windows are ± 0.05 minutes for all compounds that elute before Heptachlor epoxide, ±0.07 minutes for all other compounds, except ±0.10 minutes for Decachlorobiphenyl.



Data File: >Z4205::D5 Quant Output File: ^Z4205::D5
Name: 15226N-CLJ-DG01 Instrument ID: Z
Misc: JM3970P,N4P40197,S:G1,2.35,6.5:1, 10X

Id File: IZP307::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 940308 07:26 Last Qcal Time: <none>

Operator ID: USER1
Quant Time : 940325 14:50
Injected at: 940325 14:10

030
BL
3-28-94

QUANT REPORT

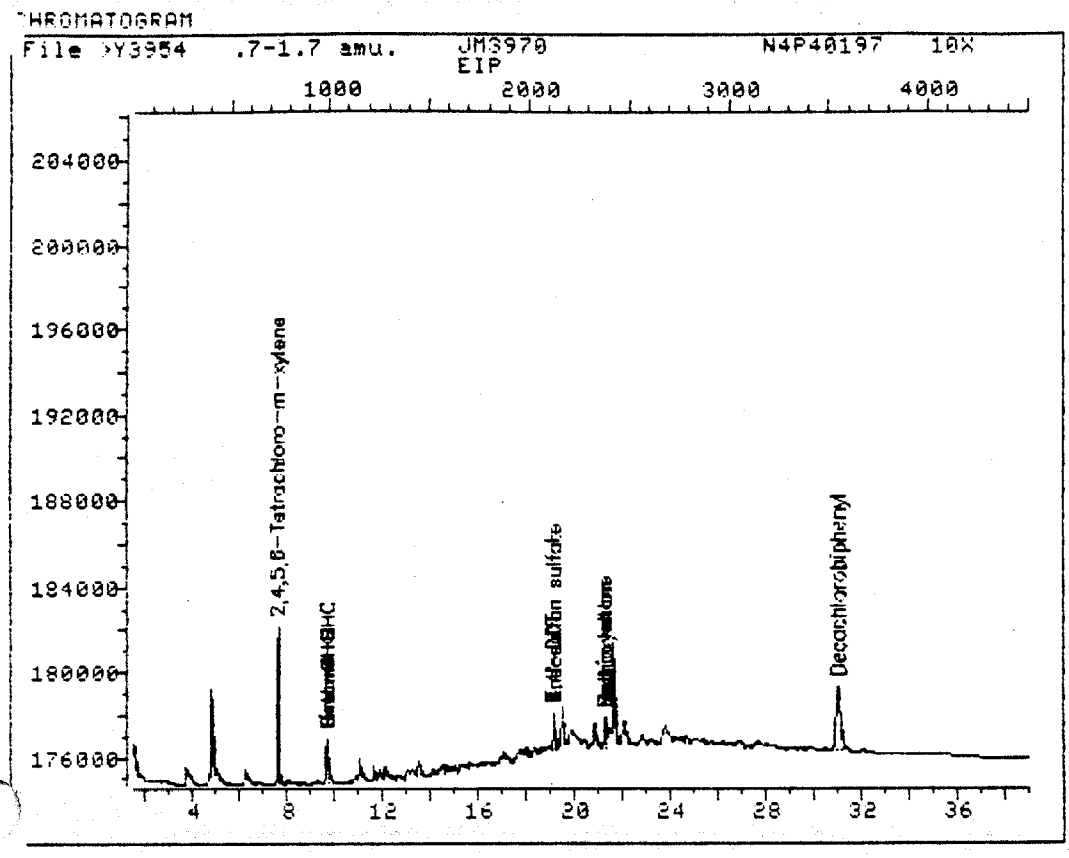
Operator ID: USER1 Quant Rev: 7 Quant Time: 940325 14:50
Output File: ^Z4205::D5 Injected at: 940325 14:10
Data File: >Z4205::D5 Dilution Factor: 10.00000
Name: 15226N-CLJ-DG01 Instrument ID: Z
Misc: JM3970P,N4P40197,S:G1,2.35,6.5:1, 10X

ID File: IZP307::D5
Title: PESTICIDES DB-608 BY GC B2 (FRONT)
Last Calibration: 940308 07:26 Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	6.68	323	63712	.199	ug/ml	100
*21)	#Methoxychlor	22.76	2252	15263	~~.140~~	~~ug/ml~~	100
23)	#Decachlorobiphenyl	31.04	3246	82982	.196	ug/ml	100

Compound uses ESTD

* Confirmed not present on DB-5 (Run Y3954)



Data File: >Y3954::D5 Quant Output File: ^Y3954::D5
Name: JM3970 Instrument ID: Y
Misc: N4P40197 10X

Id File: IYP307::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 940308 07:48 Last Qcal Time: <none>

Operator ID: USER1
Quant Time : 940325 15:34
Injected at: 940325 14:54

DL 3-28-94

QUANT REPORT

Operator ID: USER1
Output File: ^Y3954::D5
Data File: >Y3954::D5
Name: JM3970
Misc: N4P40197 10X

Quant Rev: 7
Quant Time: 940325 15:34
Injected at: 940325 14:54
Dilution Factor: 10.00000
Instrument ID: Y

ID File: IYP307::D5
Title: 8080 PESTICIDES BY GC, COLUMN DB-5, ECD, B2R
Last Calibration: 940308 07:48
Last Qcal Time: <none>

	Compound	R.T.	Scan#	Area	Conc	Units	q
1)	#2,4,5,6-Tetrachloro-m-xylene	7.58	731	30175	.236	ug/ml	100
3)	#Beta-BHC	9.67	982	10239	.118	~~ug/m~~l	100
4)	#Gamma-BHC	9.67	982	10239	.0652	~~ug/~~ml	100
5)	#Lindane	9.67	982	10239	.0652	~~ug~~/ml	100
19)	#4,4'-DDT	19.13	2116	9535	.0950	~~ug~~/ml	100
20)	#Endosulfan sulfate	19.13	2116	9535	.0950	~~ug~~/ml	100
21)	#Endrin ketone	21.24	2370	8480	.0561	~~ug~~/ml	100
[illegible])	#Methoxychlor	21.24	2370	8480	.151	~~ug~~/ml	100
[illegible])	#Decachlorobiphenyl	30.99	3540	34945	.209	ug/ml	100

Compound uses ESTD

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB1K1

Lab Name: ASC Contract: NEESA

Lab Code: NA. Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N4C40196

Sample wt/vol: 2.00 (g/mL) ____ Lab File ID: D8099

Level: (low/med) med Date Received: 02-25-94

% Moisture: ____ decanted: (Y/N) N Date Extracted: 03-04-94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03-11-94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	50000	U
111-44-4	bis(2-Chloroethyl)ether	50000	U
95-57-8	2-Chlorophenol	50000	U
541-73-1	1,3-Dichlorobenzene	50000	U
106-46-7	1,4-Dichlorobenzene	50000	U
95-50-1	1,2-Dichlorobenzene	50000	U
95-48-7	2-Methylphenol	50000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	50000	U
106-44-5	4-Methylphenol	50000	U
621-64-7	N-Nitroso-di-n-propylamine	50000	U
67-72-1	Hexachloroethane	50000	U
98-95-3	Nitrobenzene	50000	U
78-59-1	Isophorone	50000	U
88-75-5	2-Nitrophenol	50000	U
105-67-9	2,4-Dimethylphenol	50000	U
111-91-1	bis(2-Chloroethoxy)methane	50000	U
120-83-2	2,4-Dichlorophenol	50000	U
120-82-1	1,2,4-Trichlorobenzene	50000	U
91-20-3	Naphthalene	50000	U
106-47-8	4-Chloroaniline	50000	U
87-68-3	Hexachlorobutadiene	50000	U
59-50-7	4-Chloro-3-methylphenol	50000	U
91-57-6	2-Methylnaphthalene	50000	U
77-47-4	Hexachlorocyclopentadiene	50000	U
88-06-2	2,4,6-Trichlorophenol	50000	U
95-95-4	2,4,5-Trichlorophenol	50000	U
91-58-7	2-Chloronaphthalene	50000	U
88-74-4	2-Nitroaniline	50000	U
131-11-3	Dimethylphthalate	50000	U
208-96-8	Acenaphthylene	50000	U
606-20-2	2,6-Dinitrotoluene	50000	U
99-09-2	3-Nitroaniline	50000	U
83-32-9	Acenaphthene	50000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 034

SB1K1

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: N4C40196

Sample wt/vol: 2.00 (g/mL) ____ Lab File ID: D8099

Level: (low/med) med Date Received: 02-25-94

% Moisture: ____ decanted: (Y/N) N Date Extracted: 03-04-94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03-11-94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	125 000	U
100-02-7	4-Nitrophenol	125 000	U
132-64-9	Dibenzofuran	50 000	U
121-14-2	2,4-Dinitrotoluene	50 000	U
84-66-2	Diethylphthalate	50 000	U
7005-72-3	4-Chlorophenyl-phenylether	50 000	U
86-73-7	Fluorene	50 000	U
100-01-6	4-Nitroaniline	50 000	U
534-52-1	4,6-Dinitro-2-methylphenol	50 000	U
86-30-6	N-Nitrosodiphenylamine (1)	50 000	U
101-55-3	4-Bromophenyl-phenylether	50 000	U
118-74-1	Hexachlorobenzene	50 000	U
87-86-5	Pentachlorophenol	125 000	U
85-01-8	Phenanthrene	50 000	U
120-12-7	Anthracene	50 000	U
86-74-8	Carbazole	50 000	U
84-74-2	Di-n-butylphthalate	50 000	U
206-44-0	Fluoranthene	50 000	U
129-00-0	Pyrene	50 000	U
85-68-7	Butylbenzylphthalate	50 000	U
91-94-1	3,3'-Dichlorobenzidine	50 000	U
56-55-3	Benzo(a)anthracene	50 000	U
218-01-9	Chrysene	50 000	U
117-81-7	bis(2-Ethylhexyl)phthalate	50 000	U
117-84-0	Di-n-octylphthalate	50 000	U
205-99-2	Benzo(b)fluoranthene	50 000	U
207-08-9	Benzo(k)fluoranthene	50 000	U
50-32-8	Benzo(a)pyrene	50 000	U
193-39-5	Indeno(1,2,3-cd)pyrene	50 000	U
53-70-3	Dibenz(a,h)anthracene	50 000	U
191-24-2	Benzo(g,h,i)perylene	50 000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SB1K1

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: ____

Matrix: (soil/water) soil Lab Sample ID: N4C40196

Sample wt/vol: 2.00 (g/mL) ____ Lab File ID: D8099

Level: (low/med) med Date Received: 02-25-1994

% Moisture: ____ decanted: (Y/N) N Date Extracted: 03-04-1994

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03-11-94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIBS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N4C46196CS

Sample wt/vol: 200 (g/mL) g Lab File ID: D8100

Level: (low/med) MED Date Received: 2-25-94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 3-4-94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3-11-94

Injection Volume: 200 (uL) Dilution Factor: 100

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	176,000	
111-44-4	bis(2-Chloroethyl)ether	93,300	
95-57-8	2-Chlorophenol	186,000	
541-73-1	1,3-Dichlorobenzene	177,000	
106-46-7	1,4-Dichlorobenzene	168,000	
95-50-1	1,2-Dichlorobenzene	169,000	
95-48-7	2-Methylphenol	146,000	
108-60-1	2,2'-oxybis(1-Chloropropane)	50,000	U
106-44-5	4-Methylphenol	139,000	
621-64-7	N-Nitroso-di-n-propylamine	187,000	
67-72-1	Hexachloroethane	168,000	
98-95-3	Nitrobenzene	50,000	U
78-59-1	Isophorone	148,000	
88-75-5	2-Nitrophenol	50,000	U
105-67-9	2,4-Dimethylphenol	50,000	U
111-91-1	bis(2-Chloroethoxy)methane	50,000	U
120-83-2	2,4-Dichlorophenol	206,000	
120-82-1	1,2,4-Trichlorobenzene	161,000	
91-20-3	Naphthalene	2830	
106-47-8	4-Chloroaniline	42,000	
87-68-3	Hexachlorobutadiene	50,000	U
59-50-7	4-Chloro-3-methylphenol	165,000	
91-57-6	2-Methylnaphthalene	153,000	
77-47-4	Hexachlorocyclopentadiene	50,000	U
88-06-2	2,4,6-Trichlorophenol	186,000	
95-95-4	2,4,5-Trichlorophenol	184,000	
91-58-7	2-Chloronaphthalene	2370	
88-74-4	2-Nitroaniline	50,000	U
131-11-3	Dimethylphthalate	50,000	U
208-96-8	Acenaphthylene	166,000	
606-20-2	2,6-Dinitrotoluene	2850	
99-09-2	3-Nitroaniline	1580	
83-32-9	Acenaphthene	134,000	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKIBS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: NHC4096CS

Sample wt/vol: 2.00 (g/mL) g Lab File ID: D8100

Level: (low/med) MED Date Received: 2-25-94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 3-4-94

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 3-11-94

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	197,000	
100-02-7	4-Nitrophenol	365,000	
132-64-9	Dibenzofuran	680	
121-14-2	2,4-Dinitrotoluene	210,000	
84-66-2	Diethylphthalate	50,000	U
7005-72-3	4-Chlorophenyl-phenylether	50,000	U
86-73-7	Fluorene	408	
100-01-6	4-Nitroaniline	206,000	
534-52-1	4,6-Dinitro-2-methylphenol	50,000	U
86-30-6	N-Nitrosodiphenylamine (1)	50,000	U
101-55-3	4-Bromophenyl-phenylether	162,000	
118-74-1	Hexachlorobenzene	3180	
87-86-5	Pentachlorophenol	318,000	
85-01-8	Phenanthrene	142,000	
120-12-7	Anthracene	138,000	
86-74-8	Carbazole	171,000	
84-74-2	Di-n-butylphthalate	110,000	
206-44-0	Fluoranthene	50,000	U
129-00-0	Pyrene	155,000	
85-68-7	Butylbenzylphthalate	148,000	
91-94-1	3,3'-Dichlorobenzidine	142,000	
56-55-3	Benzo(a)anthracene	169,000	
218-01-9	Chrysene	184,000	
117-81-7	bis(2-Ethylhexyl)phthalate	124,000	
117-84-0	Di-n-octylphthalate	293	
205-99-2	Benzo(b)fluoranthene	50,000	U
207-08-9	Benzo(k)fluoranthene	50,000	U
50-32-8	Benzo(a)pyrene	184,000	
193-39-5	Indeno(1,2,3-cd)pyrene	50,000	U
53-70-3	Dibenz(a,h)anthracene	50,000	U
191-24-2	Benzo(g,h,i)perylene	50,000	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-CIMS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970CS

Sample wt/vol: 2.44 (g/mL) g Lab File ID: D8101

Level: (low/med) MED Date Received: 2-25-94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 3-4-94

Concentrated Extract Volume: ~~5000~~ 6500 (uL) Date Analyzed: 3-11-94

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	248,000	J
111-44-4	bis(2-Chloroethyl)ether	93,000	J
95-57-8	2-Chlorophenol	226,000	J
541-73-1	1,3-Dichlorobenzene	194,000	J
106-46-7	1,4-Dichlorobenzene	185,000	J
95-50-1	1,2-Dichlorobenzene	215,000	J
95-48-7	2-Methylphenol	208,000	J
108-60-1	2,2'-oxybis(1-Chloropropane)	1,070,000	U
106-44-5	4-Methylphenol	184,000	J
621-64-7	N-Nitroso-di-n-propylamine	243,000	J
67-72-1	Hexachloroethane	159,000	J
98-95-3	Nitrobenzene	1,070,000	U
78-59-1	Isophorone	240,000	J
88-75-5	2-Nitrophenol	1,070,000	U
105-67-9	2,4-Dimethylphenol	1,070,000	U
111-91-1	bis(2-Chloroethoxy)methane	1,070,000	U
120-83-2	2,4-Dichlorophenol	304,000	J
120-82-1	1,2,4-Trichlorobenzene	214,000	J
91-20-3	Naphthalene	1,070,000	U
106-47-8	4-Chloroaniline	116,000	J
87-68-3	Hexachlorobutadiene	1,070,000	U
59-50-7	4-Chloro-3-methylphenol	234,000	J
91-57-6	2-Methylnaphthalene	253,000	J
77-47-4	Hexachlorocyclopentadiene	1,070,000	U
88-06-2	2,4,6-Trichlorophenol	251,000	J
95-95-4	2,4,5-Trichlorophenol	277,000	J
91-58-7	2-Chloronaphthalene	1,070,000	U
88-74-4	2-Nitroaniline	1,070,000	U
131-11-3	Dimethylphthalate	1,070,000	U
208-96-8	Acenaphthylene	257,000	J
606-20-2	2,6-Dinitrotoluene	1,070,000	U
99-09-2	3-Nitroaniline	1,070,000	U
83-32-9	Acenaphthene	225,000	J

EPA SAMPLE NO.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLJ-DG-01MS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970CS

Sample wt/vol: 2.44 (g/mL) g Lab File ID: D8101

Level: (low/med) MED Date Received: 2-25-94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 3-4-94

Concentrated Extract Volume: ~~5000~~ 6500 pL (uL) Date Analyzed: 3-11-94

Injection Volume: 2.00 (uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	5,350,000	U
100-02-7	4-Nitrophenol	5,350,000	U
132-64-9	Dibenzofuran	1,070,000	U
121-14-2	2,4-Dinitrotoluene	189,000	J
84-66-2	Diethylphthalate	1,070,000	U
7005-72-3	4-Chlorophenyl-phenylether	1,070,000	U
86-73-7	Fluorene	1,070,000	U
100-01-6	4-Nitroaniline	1,070,000	U
534-52-1	4,6-Dinitro-2-methylphenol	1,070,000	U
86-30-6	N-Nitrosodiphenylamine (1)	1,070,000	U
101-55-3	4-Bromophenyl-phenylether	270,000	J
118-74-1	Hexachlorobenzene	1,070,000	U
87-86-5	Pentachlorophenol	159,000	J
85-01-8	Phenanthrene	222,000	J
120-12-7	Anthracene	216,000	J
86-74-8	Carbazole	260,000	J
84-74-2	Di-n-butylphthalate	277,000	J
206-44-0	Fluoranthene	1,070,000	U
129-00-0	Pyrene	208,000	J
85-68-7	Butylbenzylphthalate	250,000	J
91-94-1	3,3'-Dichlorobenzidine	185,000	J
56-55-3	Benzo(a)anthracene	196,000	J
218-01-9	Chrysene	213,000	J
117-81-7	bis(2-Ethylhexyl)phthalate	289,000	J
117-84-0	Di-n-octylphthalate	2,100	J
205-99-2	Benzo(b)fluoranthene	1,070,000	U
207-08-9	Benzo(k)fluoranthene	1,070,000	U
50-32-8	Benzo(a)pyrene	194,000	J
193-39-5	Indeno(1,2,3-cd)pyrene	1,070,000	U
53-70-3	Dibenz(a,h)anthracene	1,070,000	U
191-24-2	Benzo(g,h,i)perylene	1,070,000	U

(1) - Cannot be separated from Diphenylamine

040 OTU

EPA SAMPLE NO.

CLJ-DG-01MSD

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970CR

Sample wt/vol: 2.44 (g/mL) g Lab File ID: D8102

Level: (low/med) MED Date Received: 2-25-94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 3-4-94

Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-11-94

Injection Volume: 2.00 (uL) Dilution Factor: 20

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	315,000	J
111-44-4	bis(2-Chloroethyl)ether	125,000	J
95-57-8	2-Chlorophenol	281,000	J
541-73-1	1,3-Dichlorobenzene	233,000	J
106-46-7	1,4-Dichlorobenzene	223,000	J
95-50-1	1,2-Dichlorobenzene	260,000	J
95-48-7	2-Methylphenol	260,000	J
108-60-1	2,2'-oxybis(1-Chloropropane)	1,070,000	U
106-44-5	4-Methylphenol	230,000	J
621-64-7	N-Nitroso-di-n-propylamine	295,000	J
67-72-1	Hexachloroethane	197,000	J
98-95-3	Nitrobenzene	1,070,000	U
78-59-1	Isophorone	294,000	J
88-75-5	2-Nitrophenol	1,070,000	U
105-67-9	2,4-Dimethylphenol	1,070,000	U
111-91-1	bis(2-Chloroethoxy)methane	1,070,000	U
120-83-2	2,4-Dichlorophenol	387,000	J
120-82-1	1,2,4-Trichlorobenzene	253,000	J
91-20-3	Naphthalene	1,070,000	U
106-47-8	4-Chloroaniline	404,000	J
87-68-3	Hexachlorobutadiene	1,070,000	U
59-50-7	4-Chloro-3-methylphenol	298,000	J
91-57-6	2-Methylnaphthalene	307,000	J
77-47-4	Hexachlorocyclopentadiene	1,070,000	U
88-06-2	2,4,6-Trichlorophenol	321,000	J
95-95-4	2,4,5-Trichlorophenol	346,000	J
91-58-7	2-Chloronaphthalene	1,070,000	U
88-74-4	2-Nitroaniline	1,070,000	U
131-11-3	Dimethylphthalate	1,070,000	U
208-96-8	Acenaphthylene	314,000	J
606-20-2	2,6-Dinitrotoluene	1,070,000	U
99-09-2	3-Nitroaniline	1,070,000	U
83-32-9	Acenaphthene	263,000	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01MSD

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: 1M3970CB

Sample wt/vol: 2.44 (g/mL) g Lab File ID: D8102

Level: (low/med) MED Date Received: 2-25-94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 3-4-94

Concentrated Extract Volume: 6500 (uL) Date Analyzed: 3-11-94

Injection Volume: 2.00 (uL) Dilution Factor: 20

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	5,350,000	U
100-02-7	4-Nitrophenol 52,600	~~5,350,000~~ DL	J
132-64-9	Dibenzofuran	1,070,000	U
121-14-2	2,4-Dinitrotoluene	236,000	J
84-66-2	Diethylphthalate	1,070,000	U
7005-72-3	4-Chlorophenyl-phenylether	1,070,000	U
86-73-7	Fluorene	1,070,000	U
100-01-6	4-Nitroaniline	1,070,000	U
534-52-1	4,6-Dinitro-2-methylphenol	1,070,000	U
86-30-6	N-Nitrosodiphenylamine (1)	1,070,000	U
101-55-3	4-Bromophenyl-phenylether	326,000	J
118-74-1	Hexachlorobenzene	1,070,000	U
87-86-5	Pentachlorophenol	264,000	J
85-01-8	Phenanthrene	265,000	J
120-12-7	Anthracene	258,000	J
86-74-8	Carbazole	350,000	J
84-74-2	Di-n-butylphthalate	340,000	J
206-44-0	Fluoranthene	1,070,000	U
129-00-0	Pyrene	251,000	J
85-68-7	Butylbenzylphthalate	308,000	J
91-94-1	3,3'-Dichlorobenzidine	250,000	J
56-55-3	Benzo(a)anthracene	233,000	J
218-01-9	Chrysene	255,000	J
117-81-7	bis(2-Ethylhexyl)phthalate	326,000	J
117-84-0	Di-n-octylphthalate	1410	J
205-99-2	Benzo(b)fluoranthene	1,070,000	U
207-08-9	Benzo(k)fluoranthene	1,070,000	U
50-32-8	Benzo(a)pyrene	204,000	J
193-39-5	Indeno(1,2,3-cd)pyrene	1,070,000	U
53-70-3	Dibenz(a,h)anthracene	1,070,000	U
191-24-2	Benzo(g,h,i)perylene	1,070,000	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970

Sample wt/vol: 2.00 (g/mL) g Lab File ID: D8095

Level: (low/med) med Date Received: 02-25-94

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03-04-94

Concentrated Extract Volume: 6000 (uL) Date Analyzed: 03-10-94

Injection Volume: 2.0 (uL) Dilution Factor: 20

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
108-95-2	Phenol	600 000	U
111-44-4	bis(2-Chloroethyl)ether	600 000	U
95-57-8	2-Chlorophenol	600 000	U
541-73-1	1,3-Dichlorobenzene	600 000	U
106-46-7	1,4-Dichlorobenzene	600 000	U
95-50-1	1,2-Dichlorobenzene	600 000	U
95-48-7	2-Methylphenol	600 000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	600 000	U
106-44-5	4-Methylphenol	600 000	U
621-64-7	N-Nitroso-di-n-propylamine	600 000	U
67-72-1	Hexachloroethane	600 000	U
98-95-3	Nitrobenzene	600 000	U
78-59-1	Isophorone	600 000	U
88-75-5	2-Nitrophenol	600 000	U
105-67-9	2,4-Dimethylphenol	600 000	U
111-91-1	bis(2-Chloroethoxy)methane	600 000	U
120-83-2	2,4-Dichlorophenol	600 000	U
120-82-1	1,2,4-Trichlorobenzene	600 000	U
91-20-3	Naphthalene	600 000	U
106-47-8	4-Chloroaniline	600 000	U
87-68-3	Hexachlorobutadiene	600 000	U
59-50-7	4-Chloro-3-methylphenol	600 000	U
91-57-6	2-Methylnaphthalene	600 000	U
77-47-4	Hexachlorocyclopentadiene	600 000	U
88-06-2	2,4,6-Trichlorophenol	600 000	U
95-95-4	2,4,5-Trichlorophenol	600 000	U
91-58-7	2-Chloronaphthalene	600 000	U
88-74-4	2-Nitroaniline	600 000	U
131-11-3	Dimethylphthalate	600 000	U
208-96-8	Acenaphthylene	600 000	U
606-20-2	2,6-Dinitrotoluene	600 000	U
99-09-2	3-Nitroaniline	600 000	U
83-32-9	Acenaphthene	600 000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: JM3970

Sample wt/vol: 2.00 (g/mL) ____ Lab File ID: D8095

Level: (low/med) med Date Received: 02-25-94

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03-04-94

Concentrated Extract Volume: 6000 (uL) Date Analyzed: 03-10-94

Injection Volume: 2.0 (uL) Dilution Factor: 20

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
51-28-5	2,4-Dinitrophenol	3000 000	U
100-02-7	4-Nitrophenol	3000 000	U
132-64-9	Dibenzofuran	600 000	U
121-14-2	2,4-Dinitrotoluene	600 000	U
84-66-2	Diethylphthalate	600 000	U
7005-72-3	4-Chlorophenyl-phenylether	600 000	U
86-73-7	Fluorene	600 000	U
100-01-6	4-Nitroaniline	600 000	U
534-52-1	4,6-Dinitro-2-methylphenol	600 000	U
86-30-6	N-Nitrosodiphenylamine (1)	600 000	U
101-55-3	4-Bromophenyl-phenylether	600 000	U
118-74-1	Hexachlorobenzene	600 000	U
87-86-5	Pentachlorophenol	3000 000	U
85-01-8	Phenanthrene	600 000	U
120-12-7	Anthracene	600 000	U
86-74-8	Carbazole	600 000	U
84-74-2	Di-n-butylphthalate	600 000	U
206-44-0	Fluoranthene	600 000	U
129-00-0	Pyrene	600 000	U
85-68-7	Butylbenzylphthalate	600 000	U
91-94-1	3,3'-Dichlorobenzidine	600 000	U
56-55-3	Benzo(a)anthracene	600 000	U
218-01-9	Chrysene	600 000	U
117-81-7	bis(2-Ethylhexyl)phthalate	600 000	U
117-84-0	Di-n-octylphthalate	600 000	U
205-99-2	Benzo(b)fluoranthene	600 000	U
207-08-9	Benzo(k)fluoranthene	600 000	U
50-32-8	Benzo(a)pyrene	600 000	U
193-39-5	Indeno(1,2,3-cd)pyrene	600 000	U
53-70-3	Dibenz(a,h)anthracene	600 000	U
191-24-2	Benzo(g,h,i)perylene	600 000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
CLJ-DG-01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970

Sample wt/vol: 2.00 (g/mL) ____ Lab File ID: D8095

Level: (low/med) med Date Received: 02-25-94

% Moisture: ____ decanted: (Y/N) N Date Extracted: 03-04-94

Concentrated Extract Volume: 6000 (uL) Date Analyzed: 03-10-94

Injection Volume: 2.0 (uL) Dilution Factor: 20

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	0	Unknown hydrocarbon	18.691	369000	J
2.	0	Unk hydrocarbon	19.705	394000	J
3.	0	Unk hydrocarbon	20.652	509000	J
4.	0	Unk hydrocarbon	21.554	478000	J
5.	0	Unk hydrocarbon	22.412	610000	J
6.	0	Unk hydrocarbon	23.224	547000	J
7.	0	Unk hydrocarbon	23.545	385000	J
8.	0	Unk hydrocarbon	24.015	484000	J
9.	0	Unk hydrocarbon	24.761	515000	J
10.	0	Unk hydrocarbon	25.055	529000	J
11.	0	Unk hydrocarbon	25.575	844000	J
12.	0	Unk hydrocarbon	26.434	562000	J
13.	0	Unk hydrocarbon	27.407	501000	J
14.	0	Unk hydrocarbon	28.515	568000	J
15.	0	Unk hydrocarbon	29.781	575000	J
16.	0	Unk hydrocarbon	31.272	548000	J
17.	0	Unk hydrocarbon	33.034	646000	J
18.	0	Unk hydrocarbon	35.090	677000	J
19.	0	Unk hydrocarbon	37.551	771000	J
20.	0	Unk hydrocarbon	40.485	796000	J
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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Level: (low/med) Med

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBIK1	82.1	86.7	86.0	82.7	78.9	120			0
02	SBIK1BS	75.2	58.6	89.6	72.0	78.1	98.2			0
03	CLJ-DG-01	38.9	78.9	72.0	46.4	42.1	55.2			0
04	CLJ-DG-01MS	95.7	*130	112	113	101	*144			2
05	CLJ-DG-01MSD	*127	*153	*139	*143	*133	*190			6
06										
07										
08										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

SEMIVOLATILE BLANK SPIKE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Blank Spike - EPA Sample No.: SBLKIBS

COMPOUND ug/kg	SPIKE ADDED (~~ug/L~~)	BLANK CONCENTRATION ug/kg (~~ug/L~~)	BS CONCENTRATION ug/kg (~~ug/L~~)	BS % REC #	QC LIMITS REC.
Phenol	250,000	0	176,000	70.4	12-110
2-Chlorophenol	250,000	0	186,000	74.4	27-123
1,4-Dichlorobenzene	250,000	0	168,000	67.2	36- 97
N-Nitroso-di-n-Prop.(1)	250,000	0	187,000	74.8	41-116
1,2,4-Trichlorobenzene	250,000	0	161,000	64.4	39- 98
4-Chloro-3-methylphenol	250,000	0	165,000	66.0	23- 97
Acenaphthene	250,000	0	166,000	66.4	46-118
4-Nitrophenol	250,000	0	365,000	146 *	10- 80
2,4-Dinitrotoluene	250,000	0	210,000	84.0	24- 96
Pentachlorophenol	250,000	0	318,000	127 *	9-103
Pyrene	250,000	0	155,000	62.0	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recoveries with an asterisk

* Values outside of QC limits

Spike Recovery: 2 out of 11 outside limits

COMMENTS:

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Matrix Spike - EPA Sample No.: CLJ-DG-01MS Level:(low/med) med

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	76923	0	4660	121 *	26- 90
2-Chlorophenol	76923	0	4250	111 *	25-102
1,4-Dichlorobenzene	76923	0	3480	90.5	28-104
N-Nitroso-di-n-prop.(1)	76923	0	4560	119	41-126
1,2,4-Trichlorobenzene	76923	0	4020	105	38-107
4-Chloro-3-methylphenol	76923	0	4390	114 *	26-103
Acenaphthene	76923	0	4220	110	31-137
4-Nitrophenol	76923	0	* 0	0 *	11-114
2,4-Dinitrotoluene	76923	0	3550	92.3 *	28- 89
Pentachlorophenol	76923	0	2980	77.5	17-109
Pyrene	76923	0	3910	102	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	76923	5910	154 *	23.7	35	26- 90
2-Chlorophenol	76923	5280	137 *	21.6	50	25-102
1,4-Dichlorobenzene	76923	4180	109 *	18.3	27	28-104
N-Nitroso-di-n-prop.(1)	76923	5530	144 *	19.0	28	41-126
1,2,4-Trichlorobenzene	76923	4740	123 *	16.4	23	38-107
4-Chloro-3-methylphenol	76923	5590	145 *	23.9	33	26-103
Acenaphthene	76923	4930	128	15.5	19	31-137
4-Nitrophenol	76923	0988	25.7	* 0	50	11-114
2,4-Dinitrotoluene	76923	4430	115 *	22.1	47	28- 89
Pentachlorophenol	76923	4960	129 *	* 49.9	47	17-109
Pyrene	76923	4710	122.4	18.6	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 11 outside limits
Spike Recovery: 13 out of 22 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBIK1

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Lab File ID: D8099 Lab Sample ID: N4C40196

Instrument ID: MSD Date Extracted: 03-04-94

Matrix: (soil/water) SOIL Date Analyzed: 03-11-94

Level: (low/med) Med. Time Analyzed: 1021

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBIK1BS	N4C40196	DB100	03-11-94
02	CLJ-DG-01	JM3970	D8095	03-10-94
03	CLJ-DG-01MS	JM3970MS	D8101	03-11-94
04	CLJ-DG-01MSD	JM3970MSD	D8102	03-11-94
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COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab File ID: D8005 DFTPP Injection Date: 03-07-94

Instrument ID: MSD-D DFTPP Injection Time: 0716

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	59.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	67.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	40.5
197	Less than 1.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	23.6
365	Greater than 0.75% of mass 198	3.4
441	Present, but less than mass 443	71.2
442	40.0 - 110.0% of mass 198	75.5
443	15.0 - 24.0% of mass 442	14.6 (19.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SStd20	SStd20	D8007	03-07-94	1323
02	SStd50	SStd50	D8008	03-07-94	1417
03	SStd80	SStd80	D8009	03-07-94	1511
04	SStd120	SStd120	D8010	03-07-94	1604
05	SStd160	SStd160	D8011	03-07-94	1658
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Lab File ID: D8097 DFTPP Injection Date: 03-11-94

Instrument ID: MSD-D DFTPP Injection Time: 0712

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.7
68	Less than 2.0% of mass 69	0.9 (1.5)1
69	Mass 69 relative abundance	58.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	37.8
197	Less than 1.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 0.75% of mass 198	2.6
441	Present, but less than mass 443	75.3
442	40.0 - 110.0% of mass 198	54.6
443	15.0 - 24.0% of mass 442	19.1 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SStd50	SStd50	D8098	03-11-94	0924
02	SBLK1	N4C4P196	D8099	03-11-94	1021
03	SBLK1BS	N4C4Q196	D8100	03-11-94	1114
04	CLJ-DS-01MS	JM3970 MS	D8101	03-11-94	1207
05	CLJ-DS-01MSD	JM3970 MSD	D8102	03-11-94	1300
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6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Instrument ID: MSD-D Calibration Date(s): 03-07-94 03-07-94

Calibration Times: 1323 16:58

LAB FILE ID: RRF20 = D8007 RRF50 = D8008

RRF80 = D8009 RRF120= D8010 RRF160= D8011

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol	* 1.75	1.70	1.72	1.60	1.52	1.66	5.82
bis(2-Chloroethyl)ether	* 3.66	3.60	3.42	3.20	3.02	3.38	7.91
2-Chlorophenol	* 1.34	1.35	1.30	1.26	1.24	1.30	3.51
1,3-Dichlorobenzene	* 1.43	1.45	1.30	1.33	1.35	1.37	4.71
1,4-Dichlorobenzene	* 1.51	1.48	1.53	1.33	1.33	1.43	6.05
1,2-Dichlorobenzene	* 1.37	1.29	1.20	1.08	1.08	1.20	10.5
2-Methylphenol	* 1.23	1.18	1.09	1.10	1.07	1.13	5.96
2,2'-oxybis(1-Chloropropane)	3.31	3.23	3.18	3.06	2.95	3.14	4.53
4-Methylphenol	* 1.411	1.39	1.38	1.29	1.23	1.34	5.73
N-Nitroso-di-n-propylamine	* 1.22	1.19	1.13	0.999	0.922	1.09	11.7
Hexachloroethane	* 0.680	0.687	0.648	0.622	0.624	0.652	4.65
Nitrobenzene	* 0.451	0.441	0.411	0.367	0.374	0.409	9.28
Isophorone	* 0.978	0.951	0.890	0.809	0.791	0.884	9.40
2-Nitrophenol	* 0.211	0.214	0.199	0.185	0.182	0.198	7.29
2,4-Dimethylphenol	* 0.401	0.398	0.372	0.334	0.324	0.366	9.70
bis(2-Chloroethoxy)methane	* 0.571	0.534	0.498	0.453	0.421	0.494	10.9
2,4-Dichlorophenol	* 0.281	0.292	0.277	0.252	0.243	0.269	7.72
1,2,4-Trichlorobenzene	* 0.325	0.318	0.294	0.264	0.269	0.294	9.36
Naphthalene	* 1.04	0.980	0.878	0.784	0.777	0.891	12.9
4-Chloroaniline	0.397	0.531	0.511	0.461	0.456	0.471	11.1
Hexachlorobutadiene	0.199	0.199	0.181	0.167	0.169	0.183	8.52
4-Chloro-3-methylphenol	* 0.375	0.388	0.373	0.347	0.343	0.365	5.34
2-Methylnaphthalene	* 0.659	0.637	0.575	0.503	0.485	0.572	13.6
Hexachlorocyclopentadiene	0.021	0.072	0.067	0.105	0.114	0.08	46.6
2,4,6-Trichlorophenol	* 0.348	0.354	0.327	0.307	0.297	0.327	7.68
2,4,5-Trichlorophenol	* 0.369	0.369	0.309	0.268	0.258	0.315	17.0
2-Chloronaphthalene	* 1.06	0.994	0.867	0.783	0.741	0.889	15.3
2-Nitroaniline	0.426	0.477	0.441	0.420	0.414	0.436	5.79
Dimethylphthalate	1.51	1.42	1.26	1.13	1.09	1.28	14.[illegible]
Acenaphthylene	* 1.67	1.57	1.42	1.25	1.20	1.42	14.4
2,6-Dinitrotoluene	* 0.339	0.352	0.334	0.306	0.301	0.326	6.78
3-Nitroaniline	0.247	0.268	0.282	0.281	0.287	0.273	5.98
Acenaphthene	* 1.14	1.06	0.903	0.762	0.712	0.915	20.1
2,4-Dinitrophenol	0	0.050	0.063	0.077	0.093	0.071	26.4
4-Nitrophenol	0	0.059	0.070	0.082	0.094	0.076	20.1
Dibenzofuran	* 1.59	1.45	1.25	1.05	0.977	1.26	20.6
2,4-Dinitrotoluene	* 0.435	0.477	0.424	0.361	0.380	0.409	13.0

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Instrument ID: MSD-D Calibration Date(s) 03-07-94 03-07-94

Calibration Times: 1323 16:58

LAB FILE ID: RRF20 = D8007 RRF50 = D8008
RRF80 = D8009 RRF120= D8010 RRF160= D8010

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Diethylphthalate		1.69	1.56	1.37	1.17	1.14	1.39	17.1
4-Chlorophenyl-phenylether	*	0.675	0.627	0.547	0.482	0.458	0.558	16.7 *
Fluorene	*	1.28	1.16	1.00	0.852	0.810	1.02	19.5 *
4-Nitroaniline		0.283	0.271	0.241	0.226	0.266	0.241	1.6
4,6-Dinitro-2-methylphenol		0.134	0.127	0.125	0.117	0.119	0.112	19.8
N-Nitrosodiphenylamine (1)		0.568	0.502	0.434	0.366	0.346	0.414	21.1
4-Bromophenyl-phenylether	*	0.283	0.261	0.232	0.203	0.193	0.235	16.1 *
Hexachlorobenzene	*	0.334	0.325	0.322	0.282	0.264	0.325	17.0 *
Pentachlorophenol	*		0.079	0.089	0.091	0.112	0.093	15.3 *
Phenanthrene	*	1.16	1.02	0.896	0.759	0.735	0.913	19.5 *
Anthracene	*	1.14	1.07	0.927	0.818	0.781	0.946	16.3
Carbazole		0.967	0.981	0.831	0.731	0.736	0.849	14.3
Di-n-butylphthalate		1.97	1.74	1.46	1.21	1.17	1.51	22.9
Fluoranthene	*	1.12	1.16	0.975	0.825	0.827	0.993	17.3
Pyrene	*	1.42	1.24	1.16	1.01	0.878	1.14	17.9
Butylbenzylphthalate		0.751	0.721	0.625	0.525	0.468	0.638	24.0
3,3'-Dichlorobenzidine		0.399	0.454	0.397	0.379	0.360	0.398	8.78
Benzo(a)anthracene	*	1.16	1.13	1.06	0.995	0.968	1.06	7.87 *
Chrysene	*	1.10	1.10	0.948	0.938	0.929	1.01	8.27 *
bis(2-Ethylhexyl)phthalate		1.29	1.18	1.07	0.929	0.855	1.07	16.8
Di-n-octylphthalate		2.10	1.77	1.73	1.63	1.49	1.76	13.0
Benzo(b)fluoranthene	*	1.20	1.06	1.09	0.899	0.922	1.03	12.0
Benzo(k)fluoranthene	*	1.31	1.26	1.12	1.15	1.03	1.18	9.43 *
Benzo(a)pyrene	*	0.948	0.964	0.917	0.863	0.845	0.907	5.70 *
Indeno(1,2,3-cd)pyrene	*	0.751	0.891	0.833	0.820	0.818	0.823	6.05 *
Dibenz(a,h)anthracene	*	0.565	0.739	0.663	0.668	0.674	0.663	9.38 *
Benzo(g,h,i)perylene	*	0.561	0.716	0.653	0.655	0.663	0.650	8.59 *
Nitrobenzene-d5		0.432	0.454	0.410	0.385	0.388	0.414	7.08 *
2-Fluorobiphenyl	*	1.21	1.06	0.855	0.704	0	0.955	23.1 *
Terphenyl-d14	*	1.11	0.994	0.912	0.794	0.687	0.900	18.5 *
Phenol-d5	*	1.55	1.59	1.53	1.46	1.40	1.51	5.04 *
2-Fluorophenol	*	1.24	1.25	1.23	1.19	1.18	1.22	2.66 *
2,4,6-Tribromophenol		0.268	0.291	0.274	0.246	0.247	0.265	7.19
2-Chlorophenol-d4	*							
1,2-Dichlorobenzene-d4	*							

1; Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Instrument ID: MSD-D Calibration Date: 03-11-94 Time: 0924

Lab File ID: D8098 Init. Calib. Date(s): 03-07-94 03-07-94

Init. Calib. Times: 1323 1658

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Phenol	1.66	1.59	0.800	4.1	25.0
bis(2-Chloroethyl)ether	3.38	3.35	0.700	1.0	25.0
2-Chlorophenol	1.29	1.32	0.800	2.0	25.0
1,3-Dichlorobenzene	1.37	1.41	0.600	2.6	25.0
1,4-Dichlorobenzene	1.43	1.48	0.500	3.0	25.0
1,2-Dichlorobenzene	1.20	1.27	0.400	5.7	25.0
2-Methylphenol	1.13	1.26	0.700	11.4	25.0
2,2'-oxybis(1-Chloropropane)	3.14	3.20		1.7	
4-Methylphenol	1.34	1.42	0.600	6.1	25.0
N-Nitroso-di-n-propylamine	1.09	1.08	0.500	1.5	25.0
Hexachloroethane	0.652	0.672	0.300	3.0	25.0
Nitrobenzene	0.409	0.386	0.200	5.5	25.0
Isophorone	0.884	0.880	0.400	0.5	25.0
2-Nitrophenol	0.198	0.223	0.100	12.8	25.0
2,4-Dimethylphenol	0.366	0.357	0.200	2.5	25.0
bis(2-Chloroethoxy)methane	0.499	0.508	0.300	1.8	25.0
2,4-Dichlorophenol	0.269	0.307	0.200	14.2	25.0
1,2,4-Trichlorobenzene	0.294	0.333	0.200	13.0	25.0
Naphthalene	0.891	0.992	0.700	11.4	25.0
4-Chloroaniline	0.471	0.551		16.9	
Hexachlorobutadiene	0.183	0.210		14.7	
4-Chloro-3-methylphenol	0.365	0.356	0.200	2.50	25.0
2-Methylnaphthalene	0.572	0.626	0.400	9.50	25.0
Hexachlorocyclopentadiene	0.080	0.112		40.9	
2,4,6-Trichlorophenol	0.327	0.377	0.200	15.4	25.0
2,4,5-Trichlorophenol	0.315	0.384	0.200	22.0	25.0
2-Chloronaphthalene	0.889	0.977	0.300	9.90	25.0
2-Nitroaniline	0.436	0.383		12.0	
Dimethylphthalate	1.28	1.38		7.9	
Acenaphthylene	1.42	1.58	1.300	11.4	25.0
2,6-Dinitrotoluene	0.326	0.362	0.200	10.8	25.0
3-Nitroaniline	0.273	0.283		~~3.50~~	3.50 DA
Acenaphthene	0.915	1.034	0.800	13.0	25.0
2,4-Dinitrophenol	0.071	0.092		30.8	
4-Nitrophenol	0.076	0.056		26.4	
Dibenzofuran	1.26	1.52	0.800	20.3	25.0
2,4-Dinitrotoluene	0.409	0.479	0.200	17.1	25.0

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Instrument ID: MSD-D Calibration Date: 03-11-94 Time: 0924

Lab File ID: D8098 Init. Calib. Date(s): 03-07-94 03-07-94

Init. Calib. Times: 1323 1658

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.39	1.53		10.4	
4-Chlorophenyl-phenylether	0.558	0.662	0.400	18.6	25.0
Fluorene	1.02	1.26	0.900	23.1	25.0
4-Nitroaniline	0.241	0.304		25.9	
4,6-Dinitro-2-methylphenol	0.113	0.144		27.8	
N-Nitrosodiphenylamine (1)	0.444	0.503		13.3	
4-Bromophenyl-phenylether	0.235	0.227	0.100	3.4	25.0
Hexachlorobenzene	0.325	0.277	0.100	15.0	25.0
Pentachlorophenol	0.093	0.085	0.050	8.8	25.0
Phenanthrene	0.913	1.04	0.700	13.9	25.0
Anthracene	0.946	1.07	0.700	12.9	25.0
Carbazole	0.849	0.994		17.1	
Di-n-butylphthalate	1.51	1.63		7.90	
Fluoranthene	0.993	1.13	0.600	14.2	25.0
Pyrene	1.14	1.43	0.600	25.3	25.0
Butylbenzylphthalate	0.638	0.770		20.7	
3,3'-Dichlorobenzidine	0.398	0.405		1.9	
Benzo(a)anthracene	1.06	1.22	0.800	14.8	25.0
Chrysene	1.01	1.12	0.700	10.5	25.0
bis(2-Ethylhexyl)phthalate	1.07	1.28		20.5	
Di-n-octylphthalate	1.76	2.04		16.1	
Benzo(b)fluoranthene	1.03	1.13	0.700	9.70	25.0
Benzo(k)fluoranthene	1.18	1.29	0.700	9.60	25.0
Benzo(a)pyrene	0.907	1.03	0.700	14.1	25.0
Indeno(1,2,3-cd)pyrene	0.823	1.05	0.500	28.0	25.0
Dibenz(a,h)anthracene	0.663	0.851	0.400	28.4	25.0
Benzo(g,h,i)perylene	0.650	0.846	0.500	30.2	25.0
Nitrobenzene-d5	0.413	0.402	0.200	2.8	25.0
2-Fluorobiphenyl	0.955	1.04	0.700	8.40	25.0
Terphenyl-d14	0.900	1.01	0.500	12.0	25.0
Phenol-d5	1.51	1.52	0.800	0.7	25.0
2-Fluorophenol	1.22	1.18	0.600	2.90	25.0
2,4,6-Tribromophenol	0.265	0.182		31.2	
2-Chlorophenol-d4			0.800		25.0
1,2-Dichlorobenzene-d4			0.400		25.0

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab File ID (Standard): D8D81 Date Analyzed: 03-10-94

Instrument ID: MSD-D Time Analyzed: 1214

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT
	12 HOUR STD	28947	10.50	109923	13.07	77172	17.00
	UPPER LIMIT	57894	11.00	219846	13.57	154344	17.50
	LOWER LIMIT	14473	10.00	54961	12.57	38586	16.50
	EPA SAMPLE NO.						
01	CLJ-DG-01	26180	10.47	100716	13.04	66363	16.48
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page 1 of 2

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

056

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Lab File ID (Standard): D8081 Date Analyzed: 03-10-94

Instrument ID: MSD-D Time Analyzed: 1214

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	135 369	20.38	108 995	26.74	103478	32.51
UPPER LIMIT	270 738	20.88	217 990	27.24	206956	33.01
LOWER LIMIT	67 684	19.88	54 497	26.24	51739	32.01
EPA SAMPLE NO.						
01 CLJ.DG-01	109073	20.34	89709	26.71	82339	32.47
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
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14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: _____

Lab File ID (Standard): D8098 Date Analyzed: 03-11-94

Instrument ID: MSD-D Time Analyzed: 0924

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT
	12 HOUR STD	49114	10.47	188762	13.04	131098	16.96
	UPPER LIMIT	98228	10.97	377524	13.54	262196	17.46
	LOWER LIMIT	24557	9.97	94381	12.54	65549	16.46
	EPA SAMPLE NO.						
01	SB1K1	49619	10.45	173689	13.04	115846	16.96
02	SB1K1RS	47685	10.46	201267	13.03	135777	16.95
03	CLJDG-01MS	47774	10.45	172119	13.01	120539	16.96
04	CLJ-DG-01MSD	47554	10.45	171542	13.02	122513	16.96
05							
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20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

058

Lab Name: ASC Contract: NEESA

Lab Code: ____ Case No.: ____ SAS No.: ____ SDG No.: ____

Lab File ID (Standard): D8098 Date Analyzed: 03-11-94

Instrument ID: MSD-I Time Analyzed: 0924

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	236451	20.35	186745	26.71	190017	32.44
UPPER LIMIT	472902	20.85	373490	27.21	380034	32.94
LOWER LIMIT	118225	19.85	93372	26.21	95008	31.94
EPA SAMPLE NO.						
01 SBIKI	211293	20.33	202138	26.67	205303	32.42
02 SBIKIBS	265064	20.33	201041	26.70	224293	32.43
03 CLJ-DS.01MS	210139	20.31	186842	26.66	173506	32.41
04 CLJ-DS-01MSD	214168	20.32	189237	26.67	174782	32.41
05						
06						
07						
08						
09						
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11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

page __ of __

Analytical Services Corp.

BASE NEUTRAL QUANT AND RATIO REPORT

Data file : /chem/a900.i/d031094.b/d8095.d
Lab. Id. : Quant Type: ISTD
Inj Date : 10-MAR-94 23:17 Autotune Date: {
Operator : Tom Inst ID: a900.i
Smp Info : 15226N CLJ-DG-01
Misc Info : JM3970C,N4C40196,S:M1,2.00,6:20, BTL#1
Comment :
Method : /chem/a900.i/d031094.b/bnaclpd.m
Meth Date : 10-Mar-1994 13:07
Cal Date : 10-MAR-94 12:14 Cal File: d8081.d
Als bottle: 0
Dil Factor: 1.000 Target Version: Target 3.00
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER

TSC 3-31-94

		Compounds	QUANT SIG MASS	RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/ml)
	3	2-Fluorophenol	112.00	8.441	(0.806)	2806	3.52	1.76(aR)
$	4	Phenol-d5	99.00	9.860	(0.942)	3583	3.44	1.72(aR)
*	9	1,4-Dichlorobenzene-d4	152.00	10.468	(1.000)	26180	40.0	
$	17	Nitrobenzene-d5	82.00	11.594	(0.889)	1926	1.62	0.808(aR)
*	25	Naphthalene-d8	136.00	13.036	(1.000)	100716	40.0	
$	35	2-Fluorobiphenyl	172.00	15.356	(0.904)	5637	3.37	1.68(aR)
*	42	Acenaphthene-d10	164.00	16.978	(1.000)	66363	40.0	
$	54	2,4,6-Tribromophenol	330.00	18.781	(1.106)	2199	4.64	2.32(aR)
	58	Lindane	183.00	20.359	(1.001)	2533	7.21	~~3.61(aQ)~~
*	59	Phenanthrene-d10	188.00	20.337	(1.000)	109073	40.0	
$	67	Terphenyl-d14	244.00	23.857	(0.893)	3247	1.33	0.665(aR)
	70	bis(2-Ethylhexyl)phthalate	149.00	26.231	(0.982)	3598	1.18	~~0.593(aQ)~~
*	73	Chrysene-d12	240.00	26.706	(1.000)	89709	40.0	
	75	Di-n-octylphthalate	149.00	28.108	(0.866)	453	0.0978	~~0.0489(a)~~
*	79	Perylene-d12	264.00	32.469	(1.000)	82339	40.0	

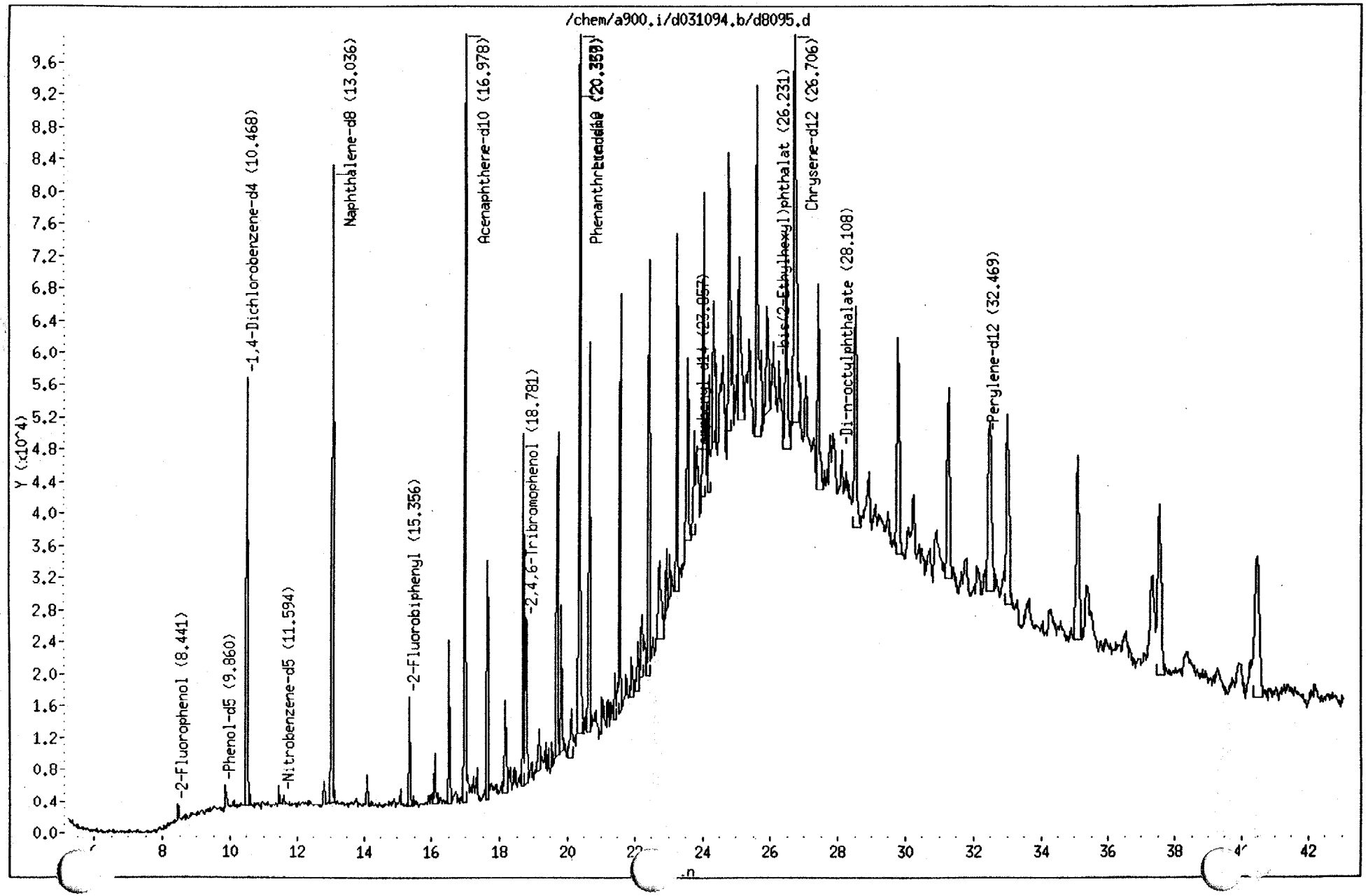
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

060

Data File: /chem/a900.i/d031094.b/d8095.d
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5
Volume Injected (uL) : 2.0

Column diameter : 0.25



Data File: /chem/a900.i/d031094.b/d8095.d

Date : 10-MAR-94 23:17

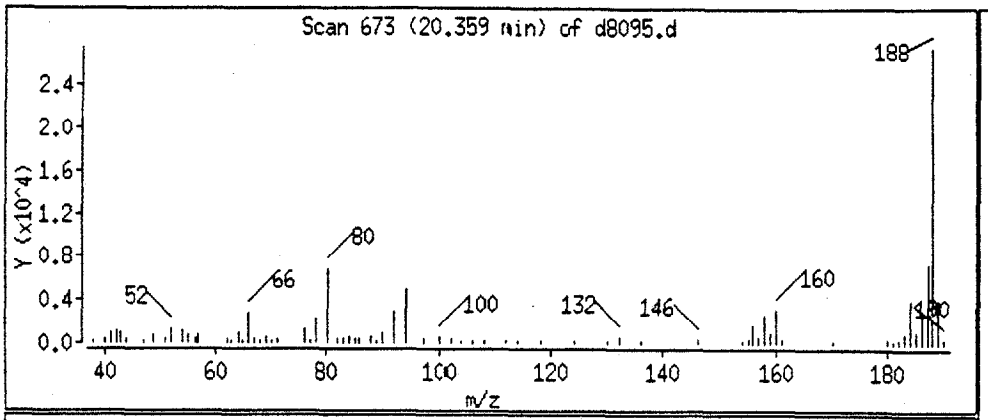
Instrument : a900.i

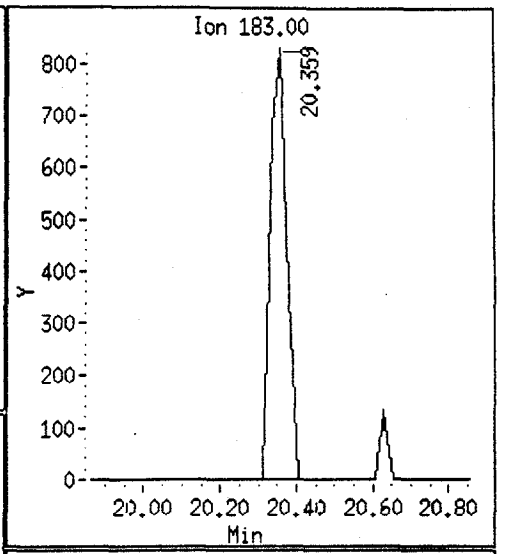
Sample ID :

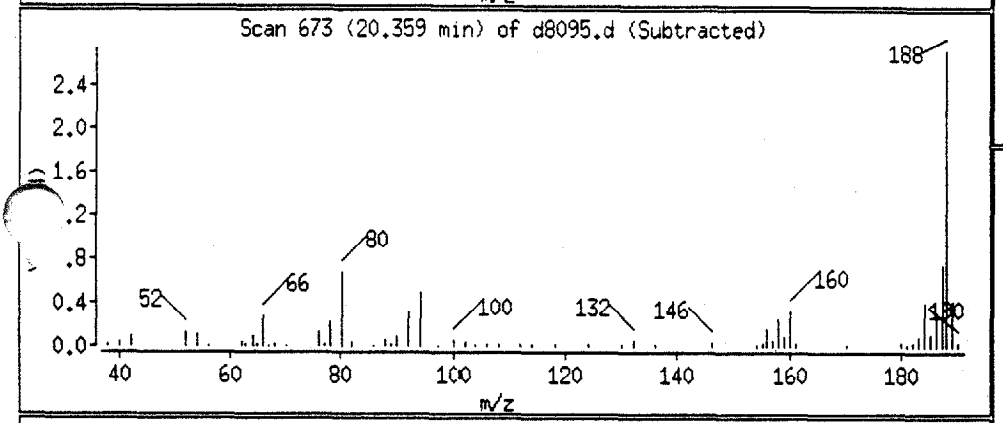
Column phase : J&W DB-5 Column diameter : 0.25

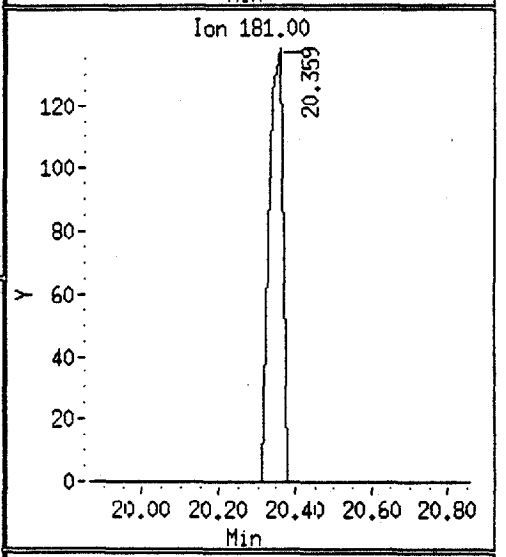
Volume Injected (uL) : 2.0

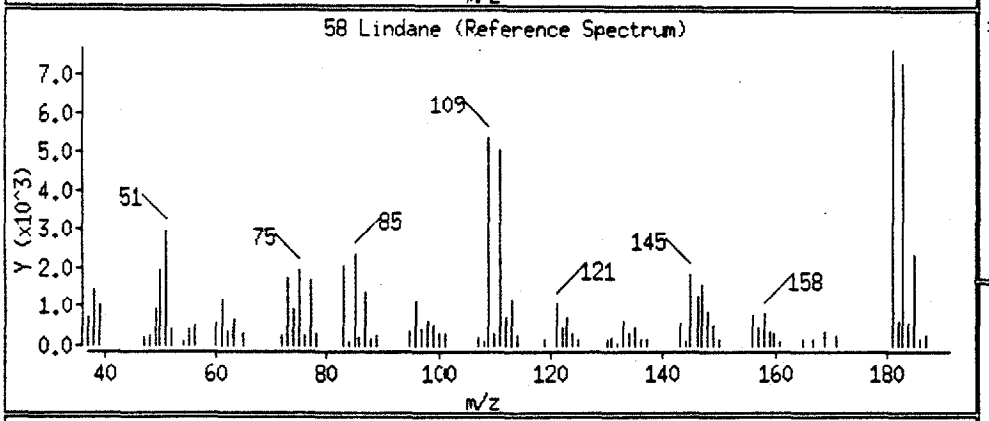
58 Lindane

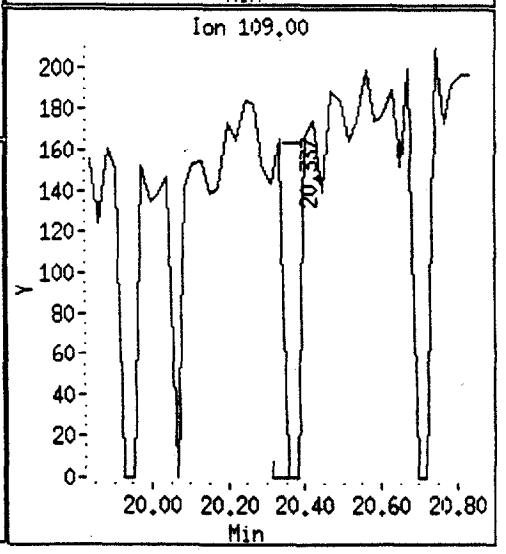


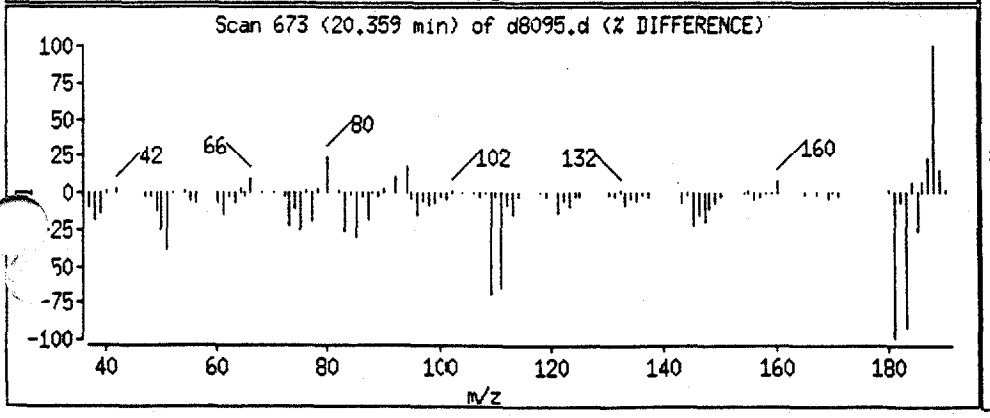












Data File: /chem/a900.i/d031094.b/d8095.d

Date : 10-MAR-94 23:17

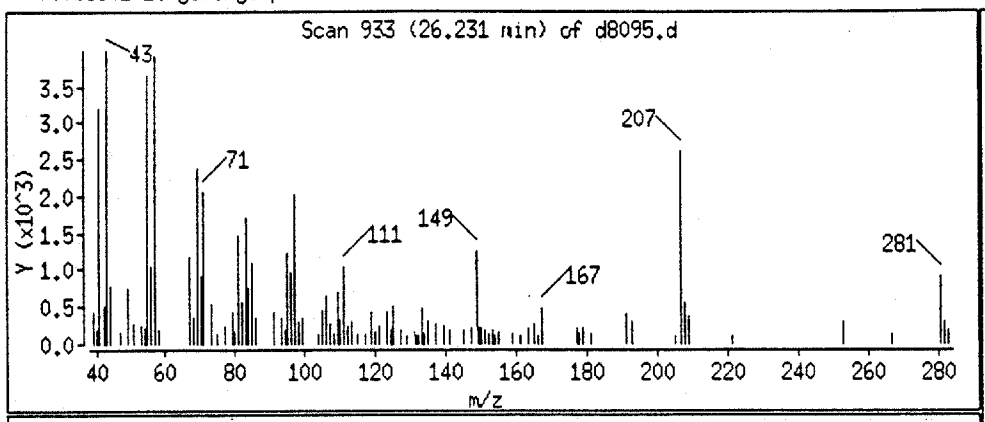
Instrument : a900.i

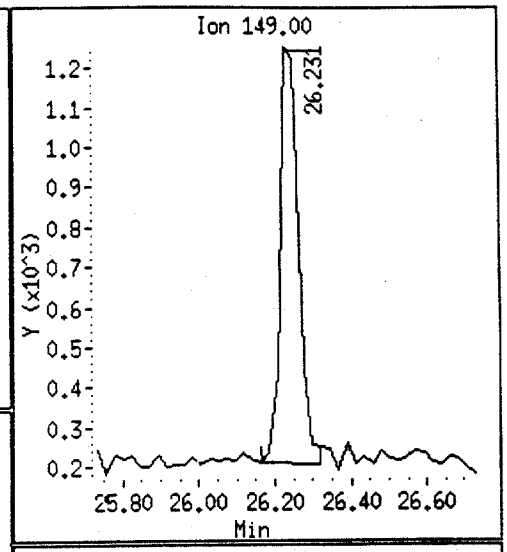
Sample ID :

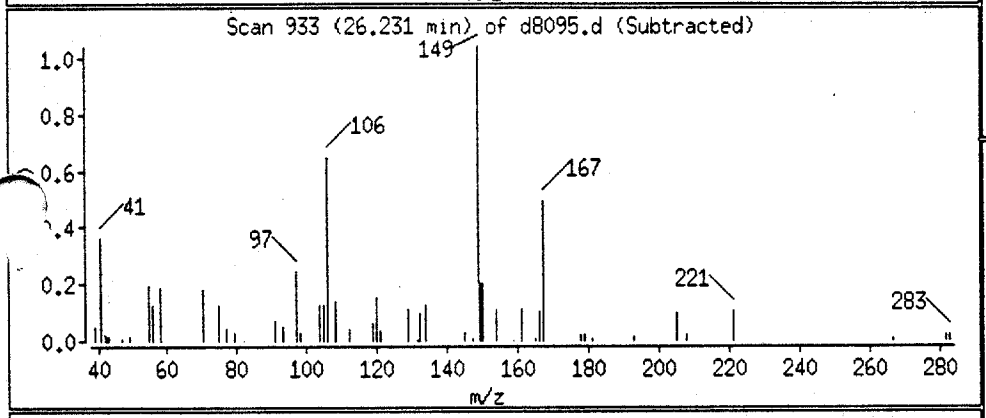
Column phase : J&W DB-5 Column diameter : 0.25

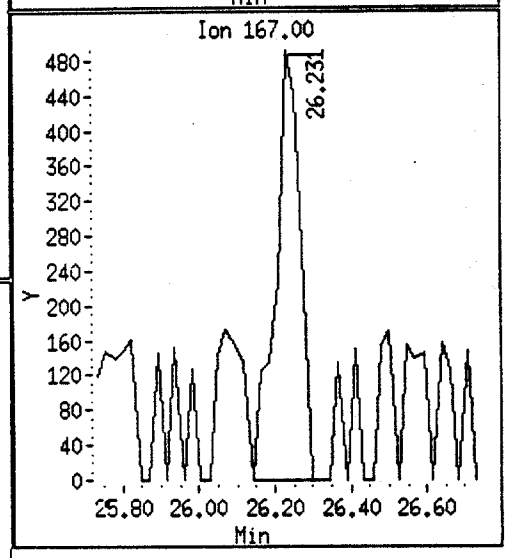
Volume Injected (uL) : 2.0

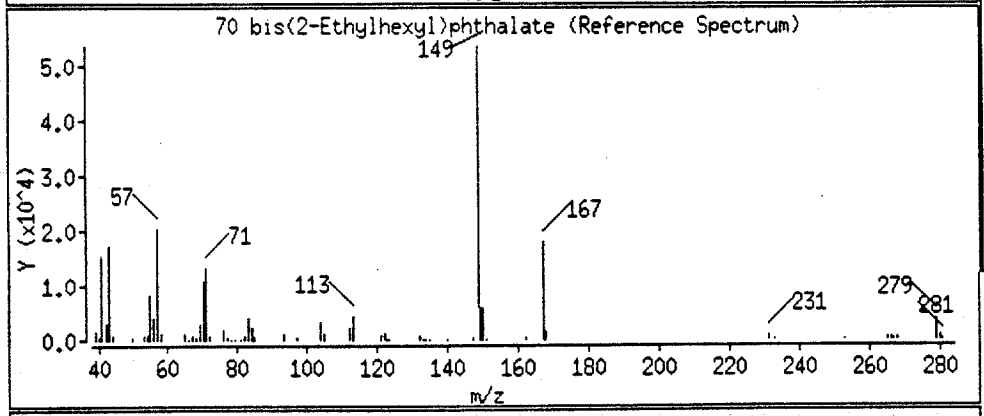
70 bis(2-Ethylhexyl)phthalate

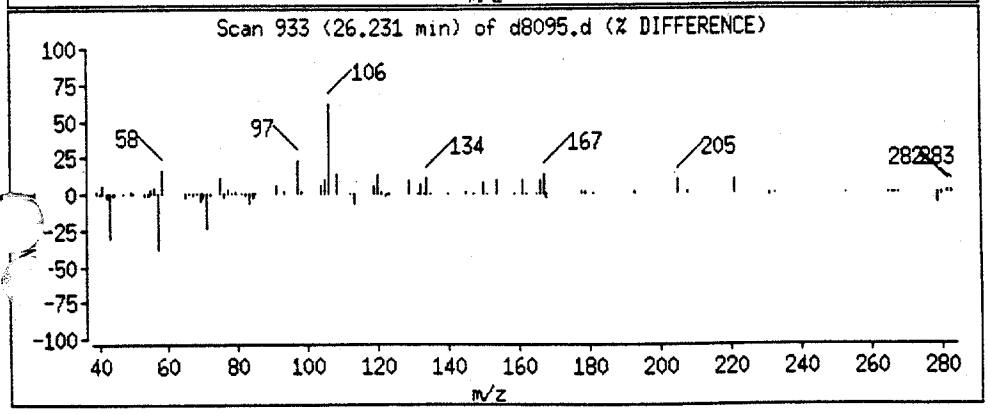






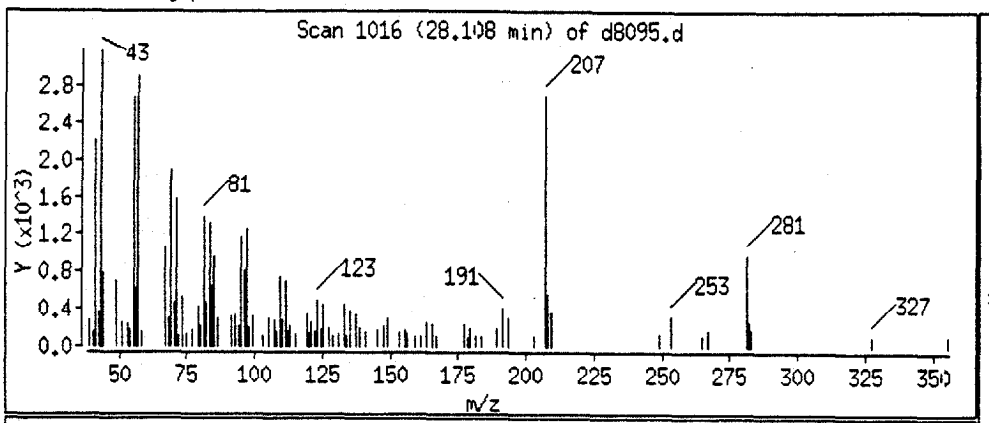


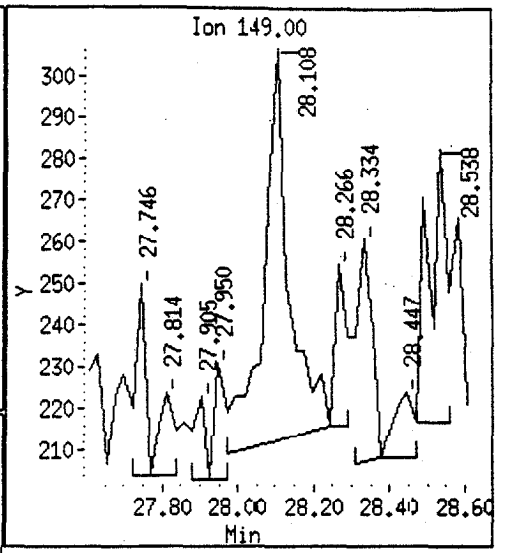


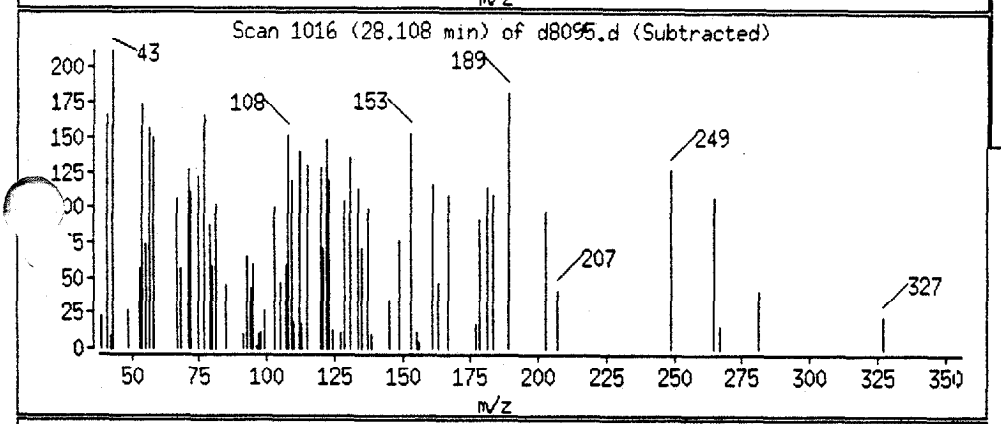


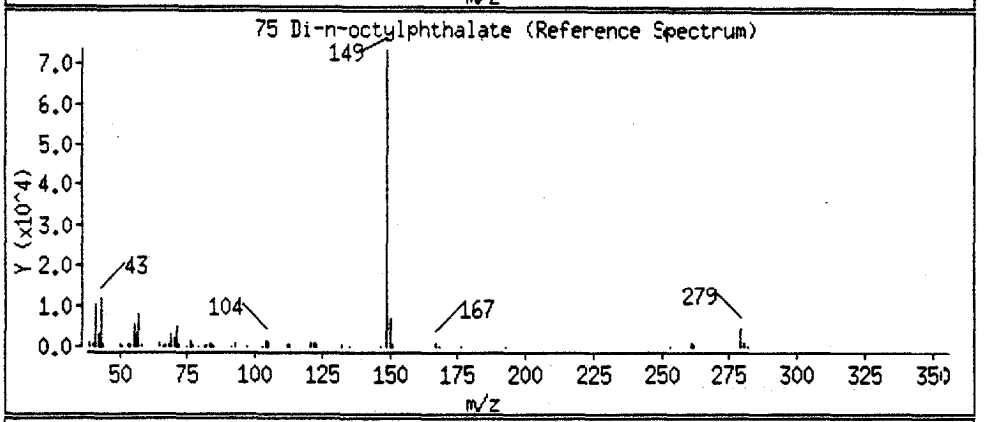
Data File: /chem/a900.i/d031094.b/d8095.d
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

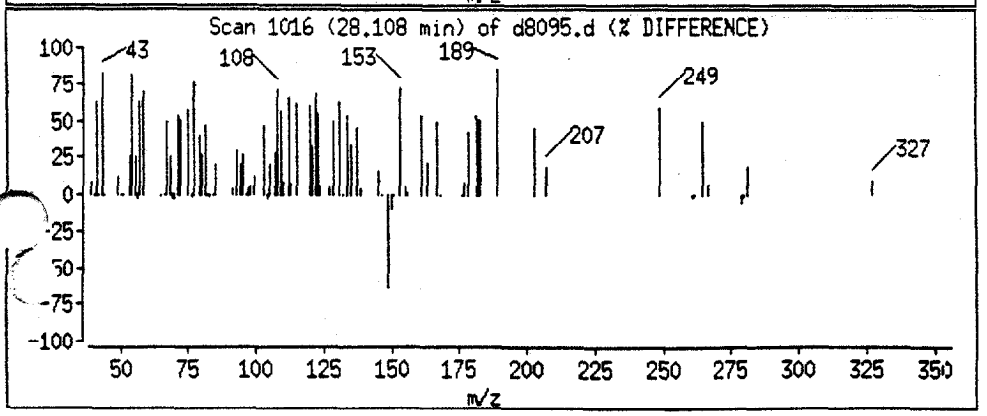
75 Di-n-octylphthalate







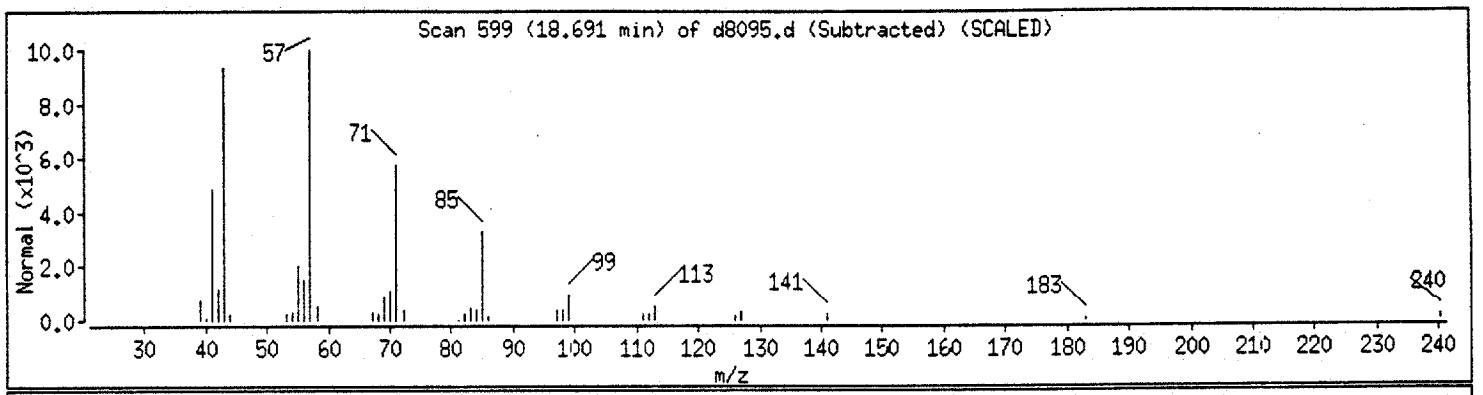


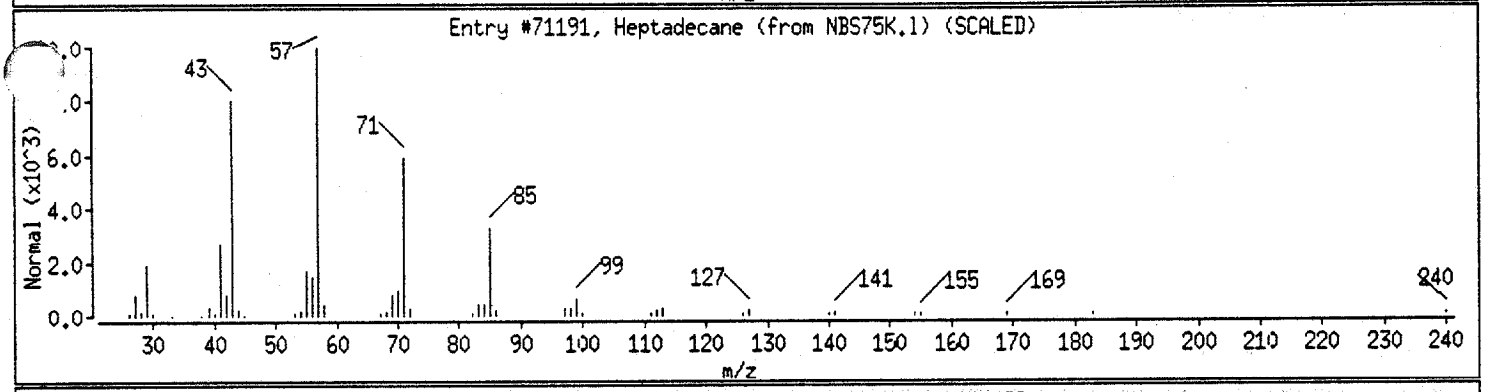


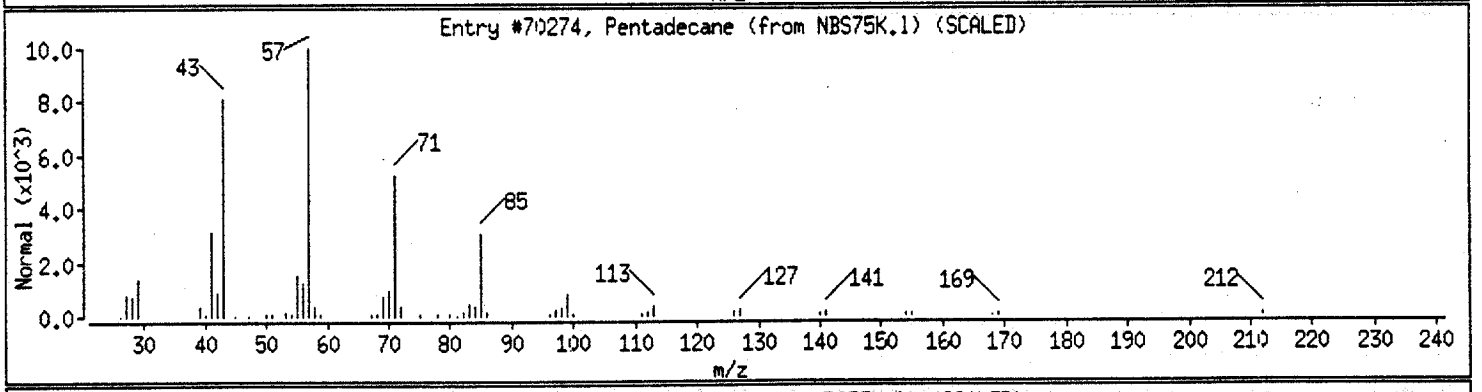
Data File: /chem/a900.i/d031094.b/d8095.d

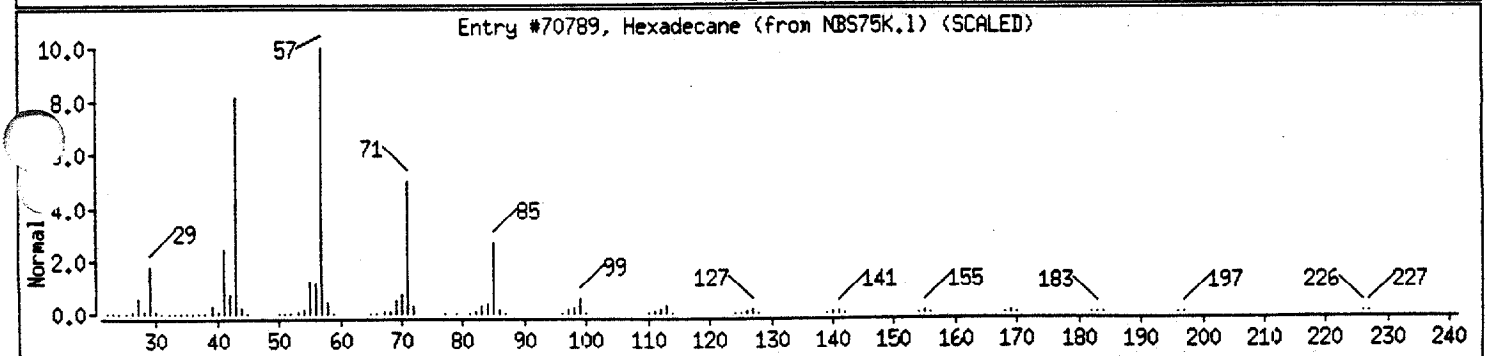
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane	629-78-7	NBS75K.1	71191	95
Pentadecane	629-62-9	NBS75K.1	70274	91
Hexadecane	544-76-3	NBS75K.1	70789	91





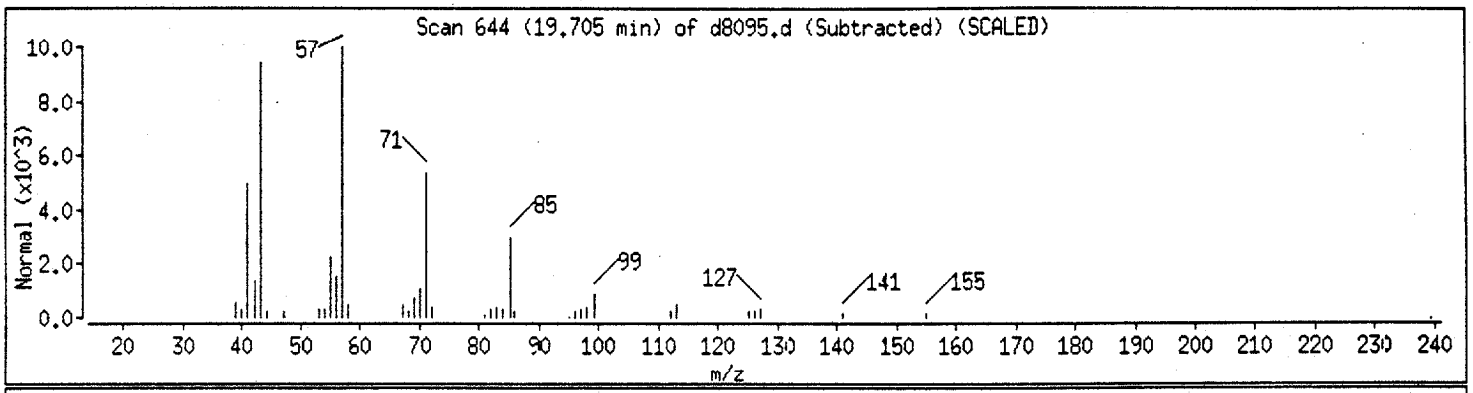


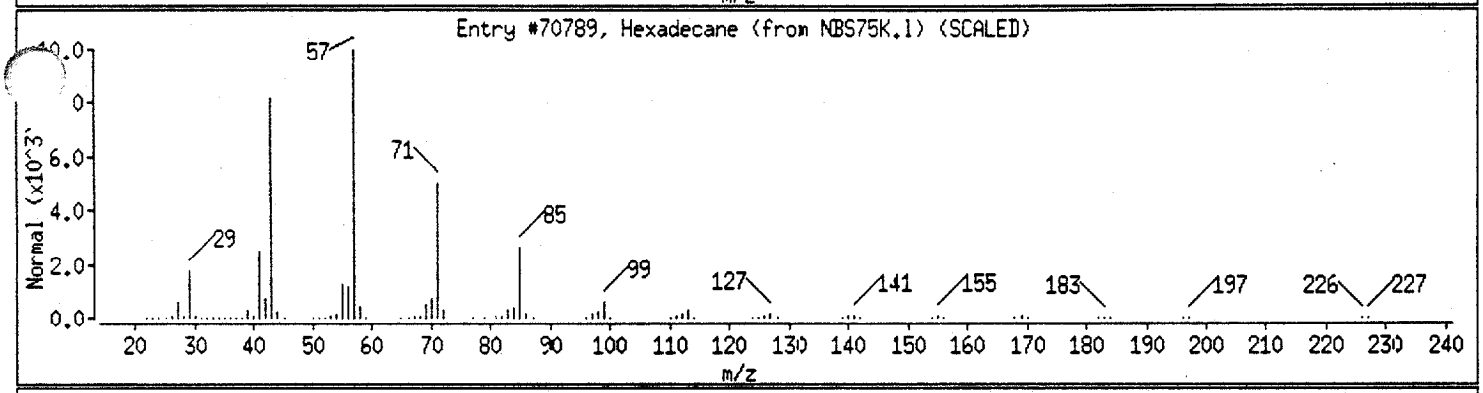


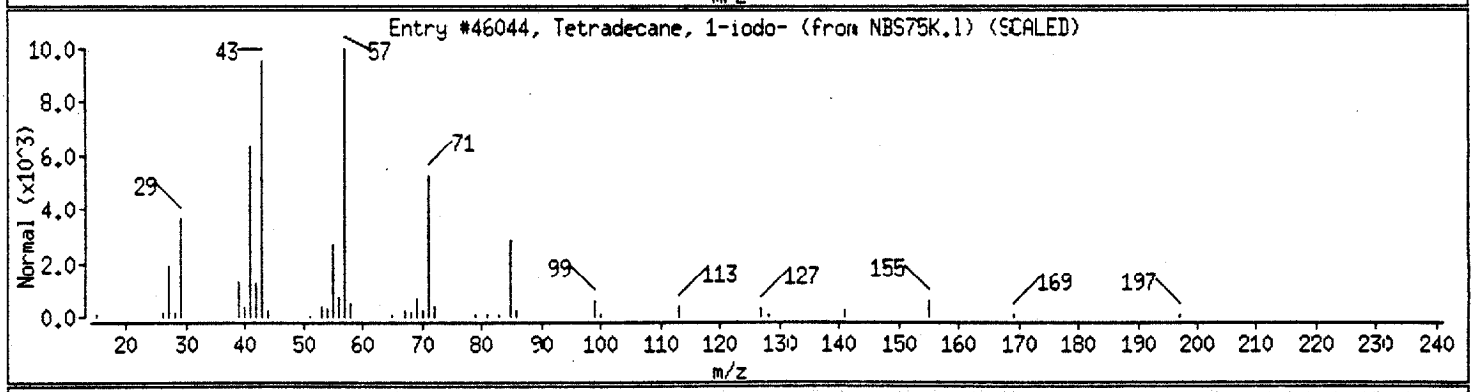
Data File: /chem/a900.i/d031094.b/d8095.d

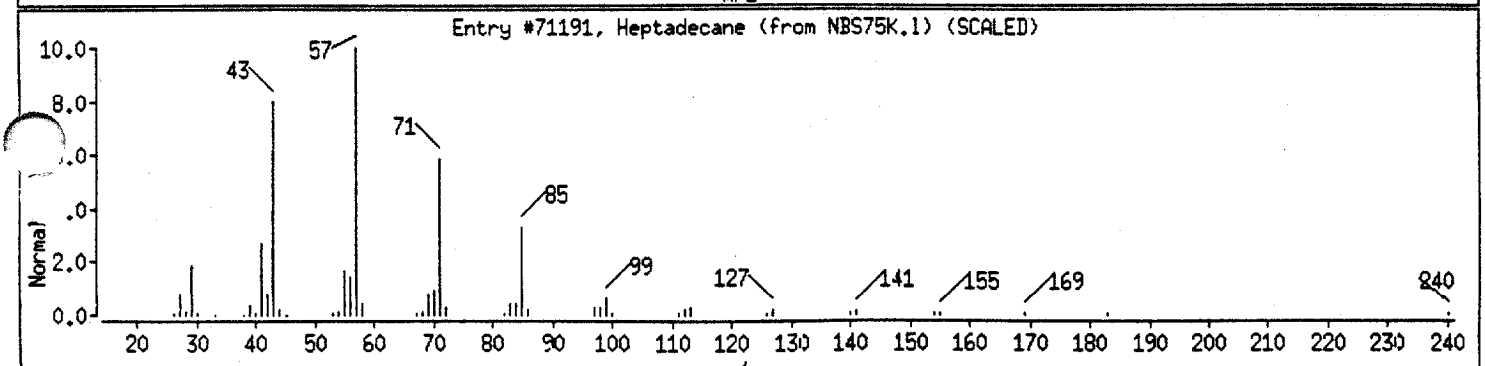
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexadecane	544-76-3	NBS75K.1	70789	91
Tetradecane, 1-iodo-	19218-94-1	NBS75K.1	46044	87
Heptadecane	629-78-7	NBS75K.1	71191	87





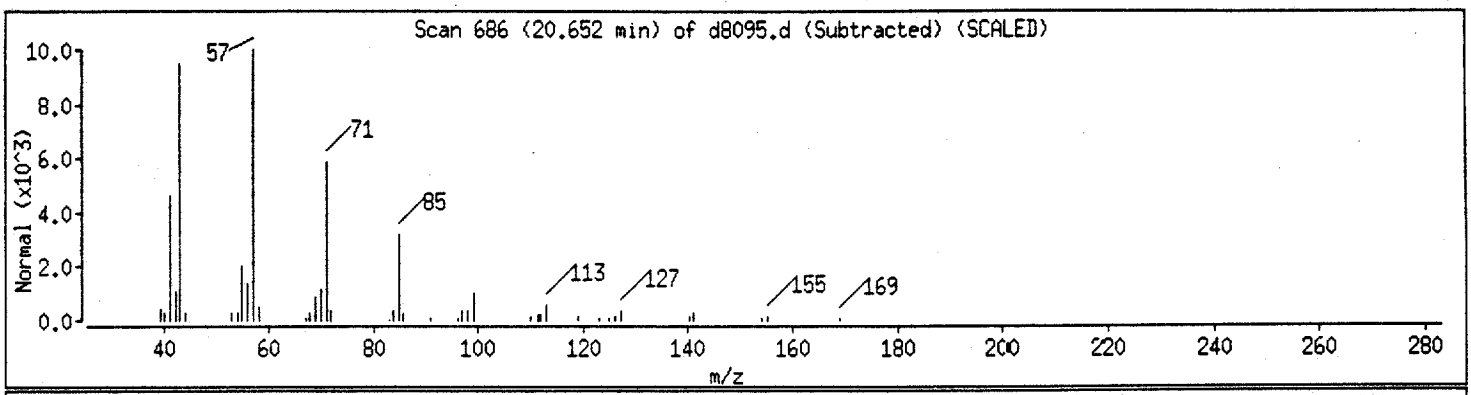


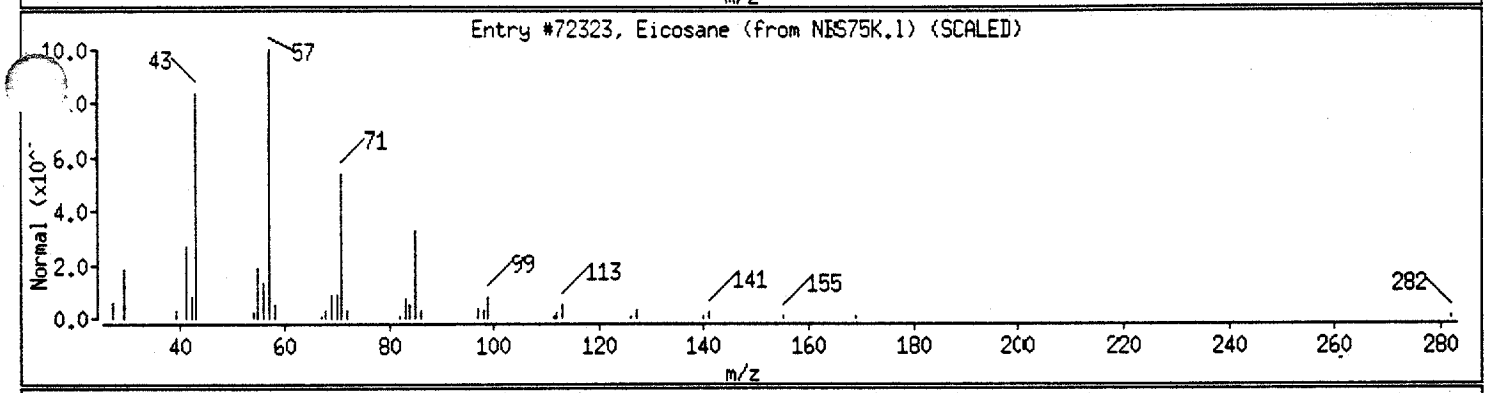


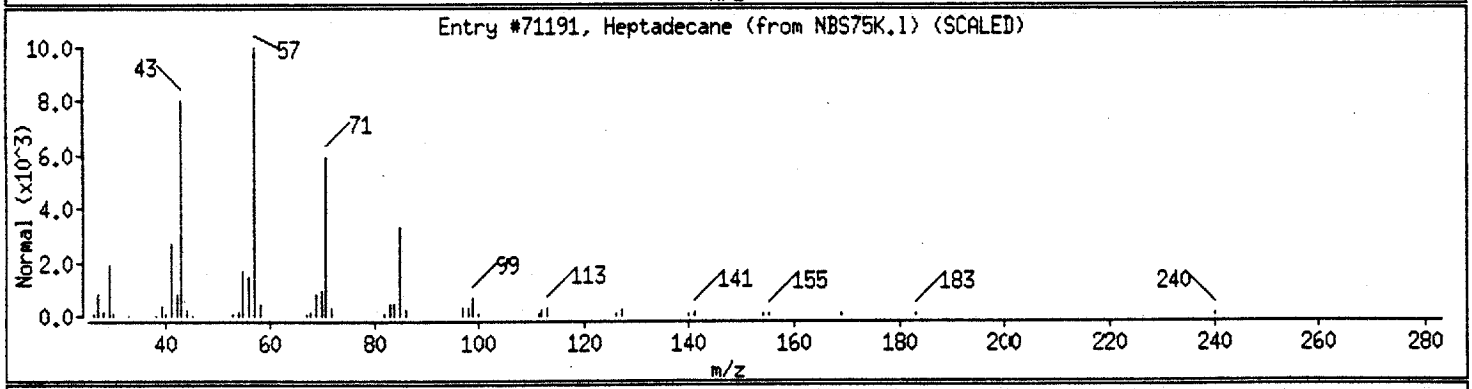
Data File: /chem/a900.i/d031094.b/d8095.d

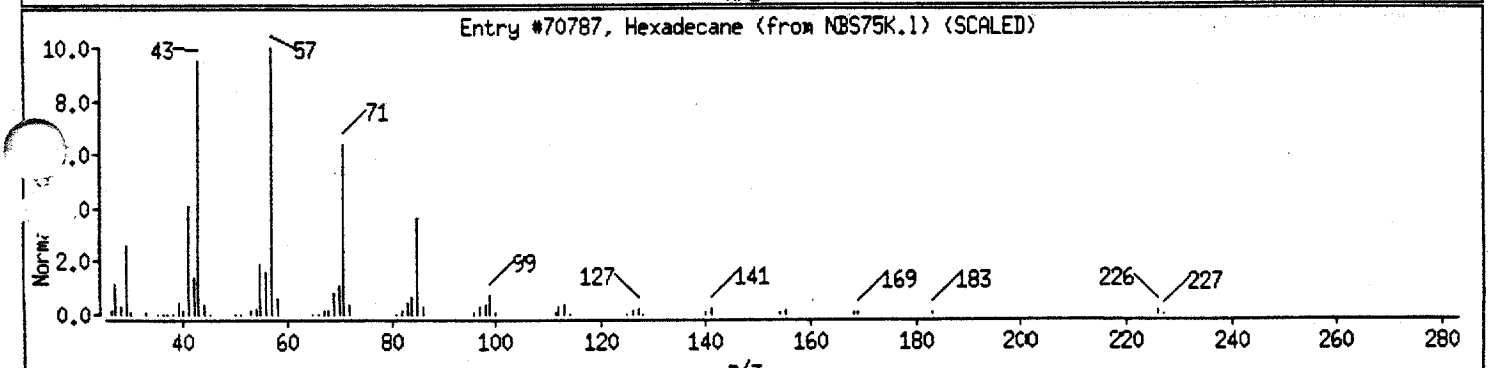
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Eicosane	112-95-8	NBS75K.1	72323	91
Heptadecane	629-78-7	NBS75K.1	71191	91
Hexadecane	544-76-3	NBS75K.1	70787	90





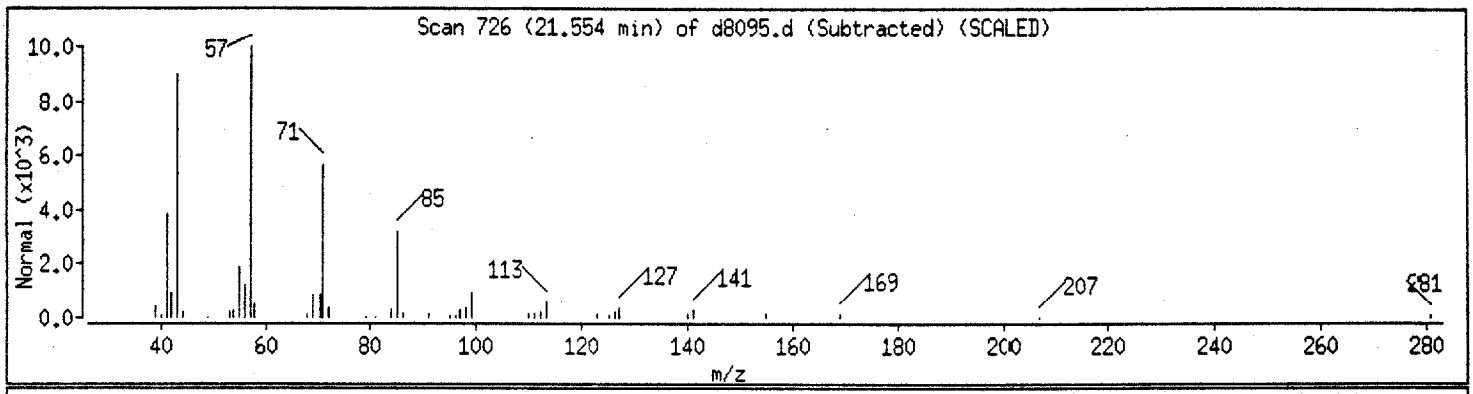


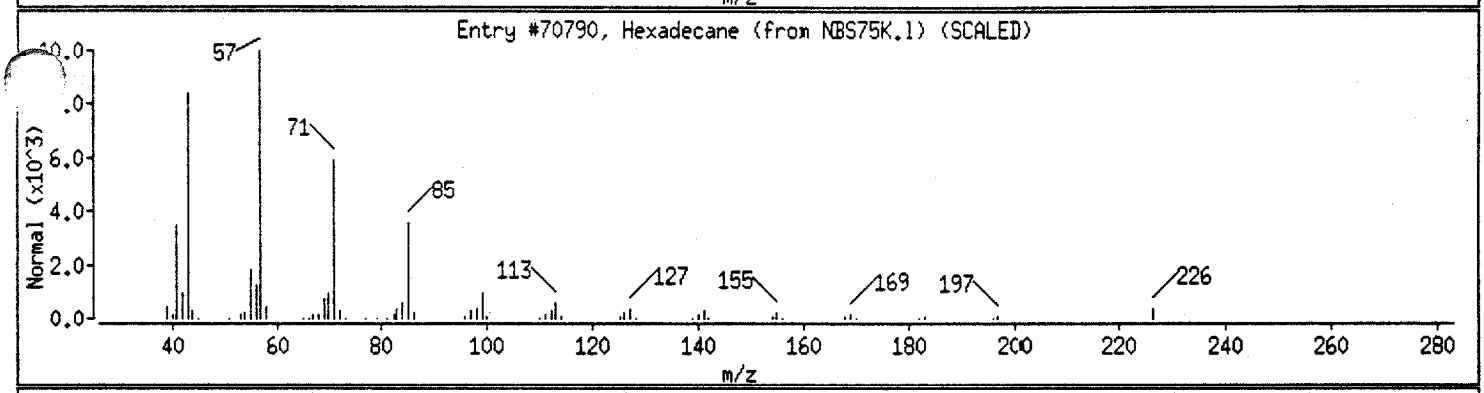


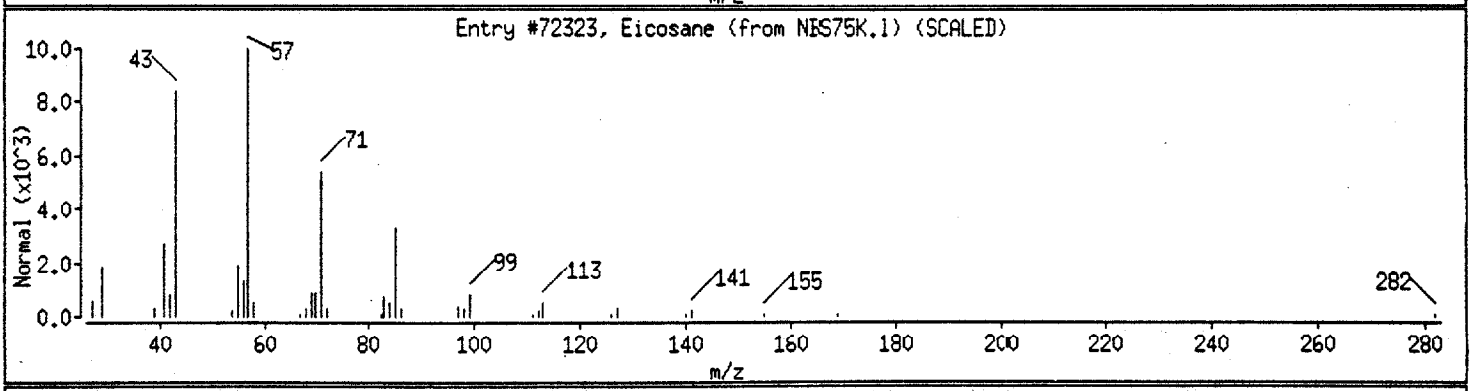
Data File: /chem/a900.i/d031094.b/d8095.d

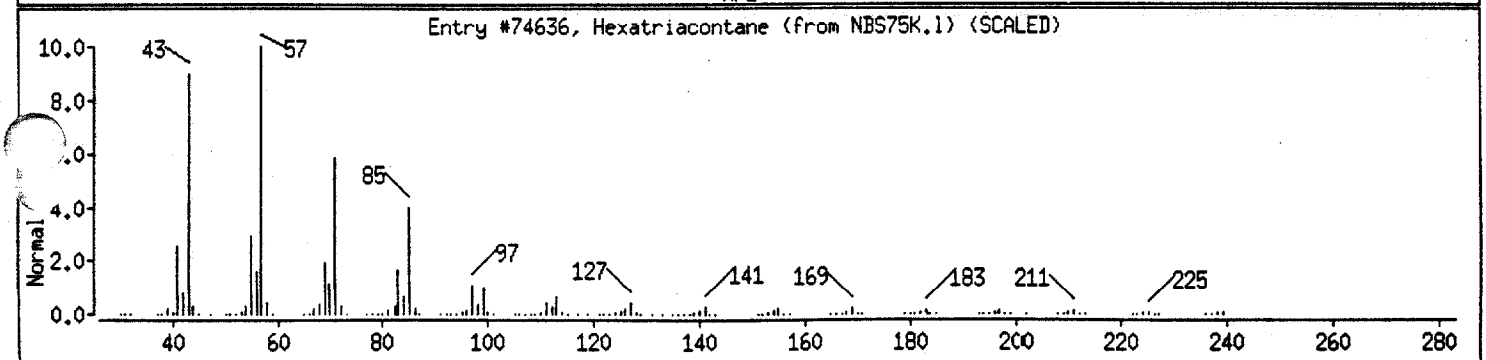
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexadecane	544-76-3	NBS75K.1	70790	91
Eicosane	112-95-8	NBS75K.1	72323	91
Hexatriacontane	630-06-8	NBS75K.1	74636	87





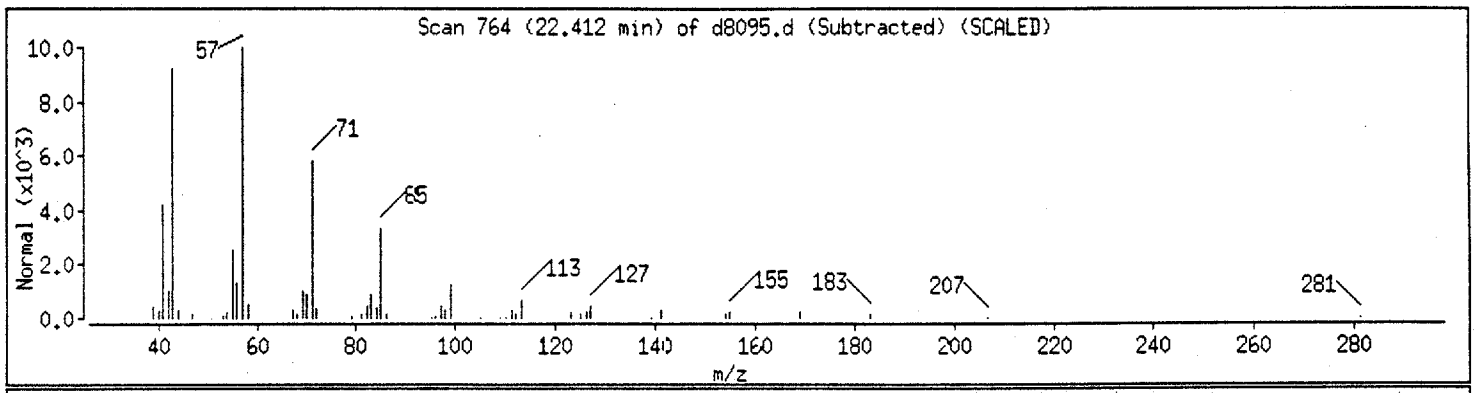


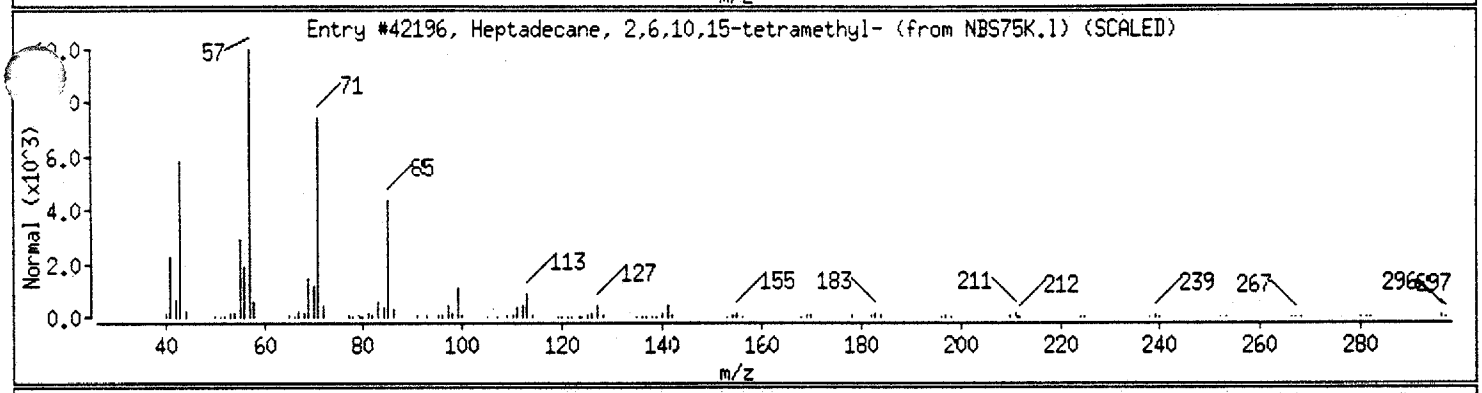


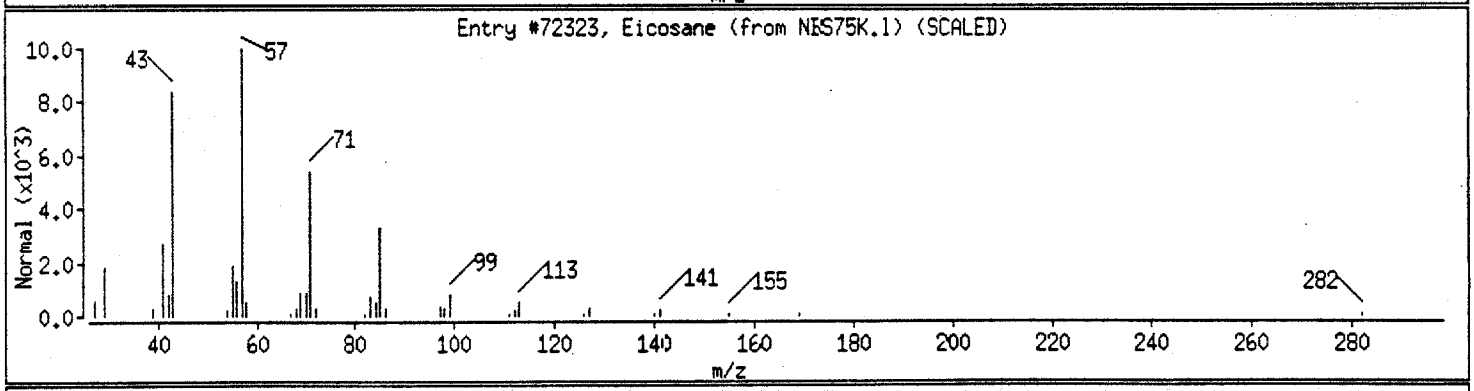
Data File: /chem/a900.i/d031094.b/d8095.d

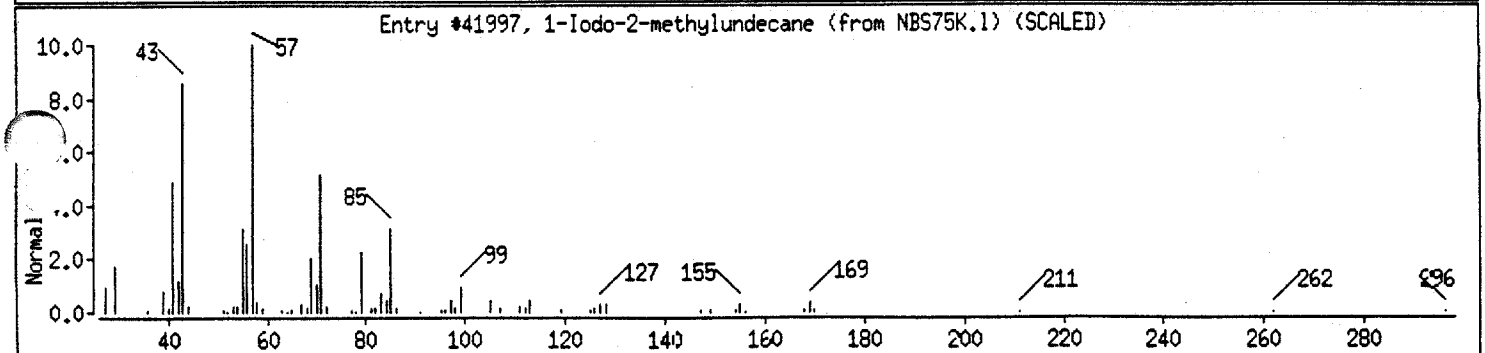
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.l	42196	91
Eicosane	112-95-8	NBS75K.l	72323	91
1-Iodo-2-methylundecane	73105-67-6	NBS75K.l	41997	90





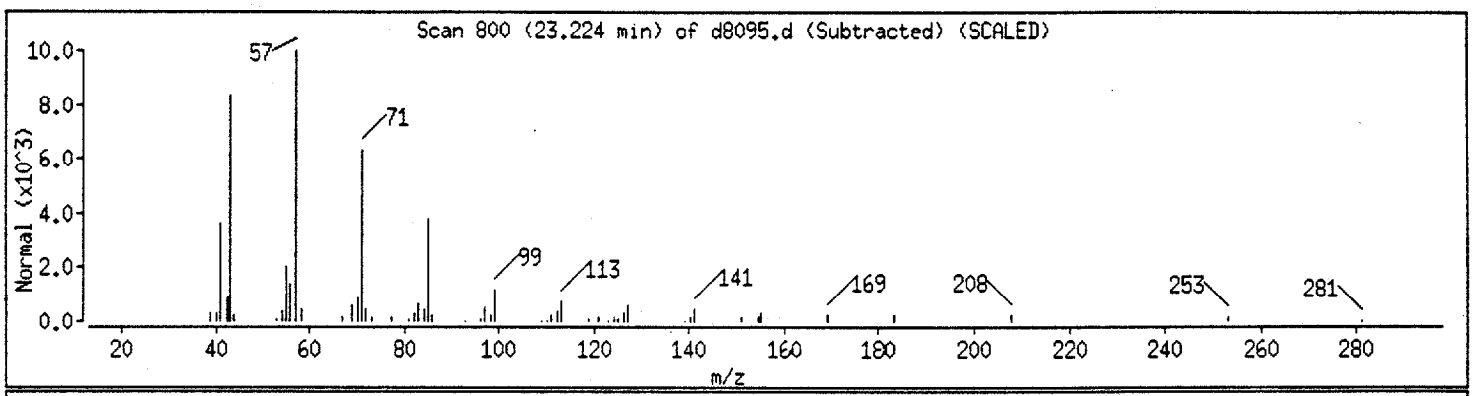


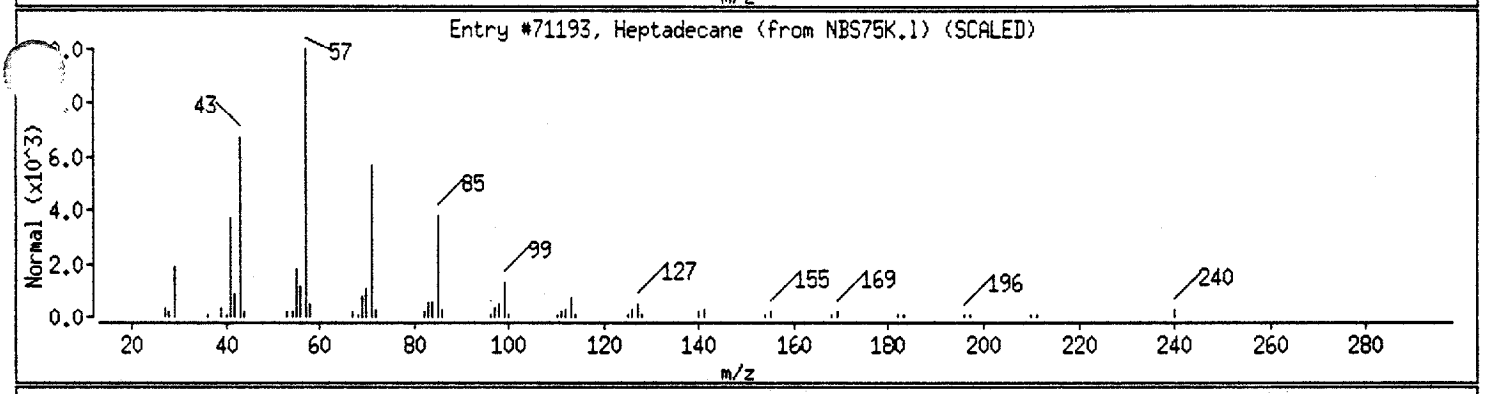


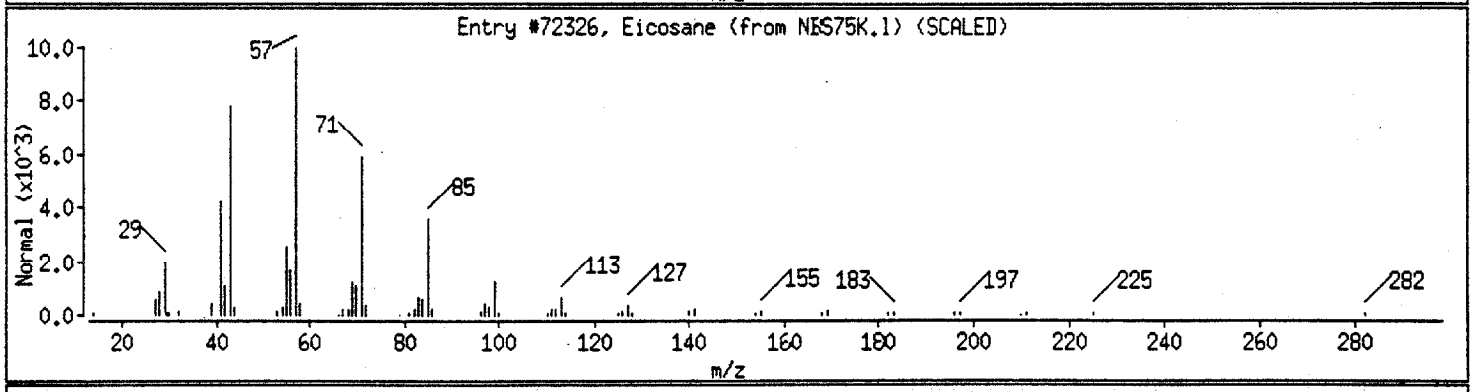
Data File: /chem/a900.i/d031094.b/d8095.d

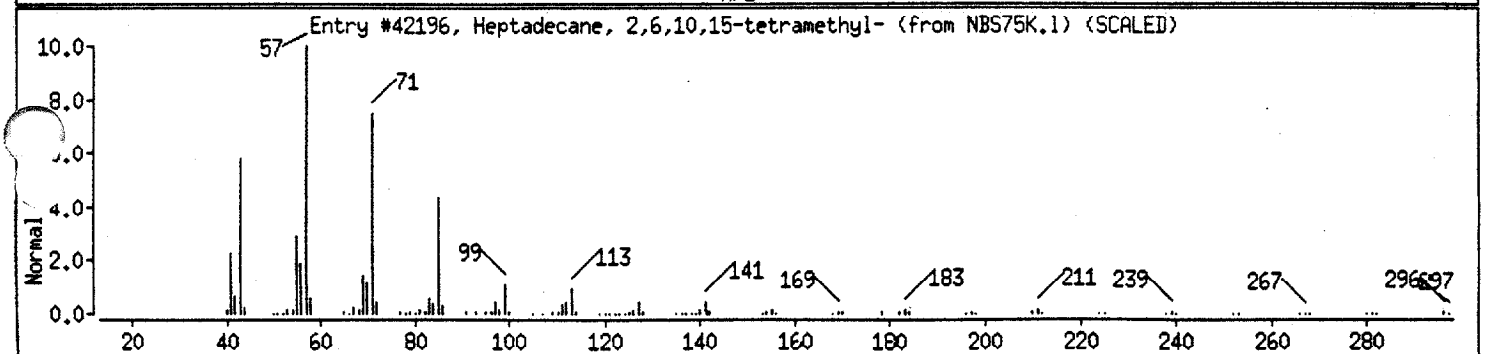
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane	629-78-7	NBS75K.1	71193	90
Eicosane	112-95-8	NBS75K.1	72326	90
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.1	42196	90





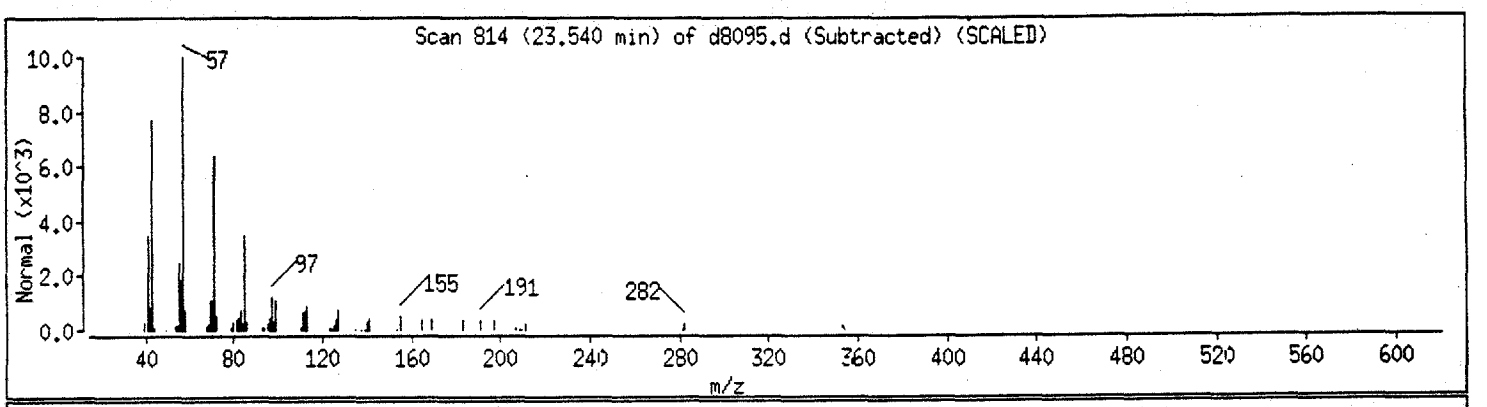


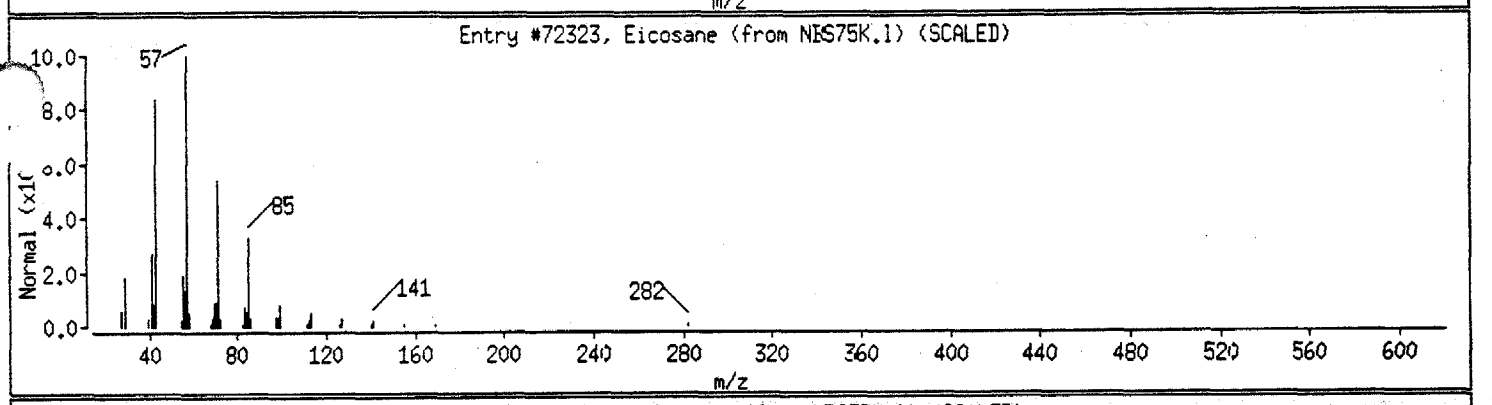


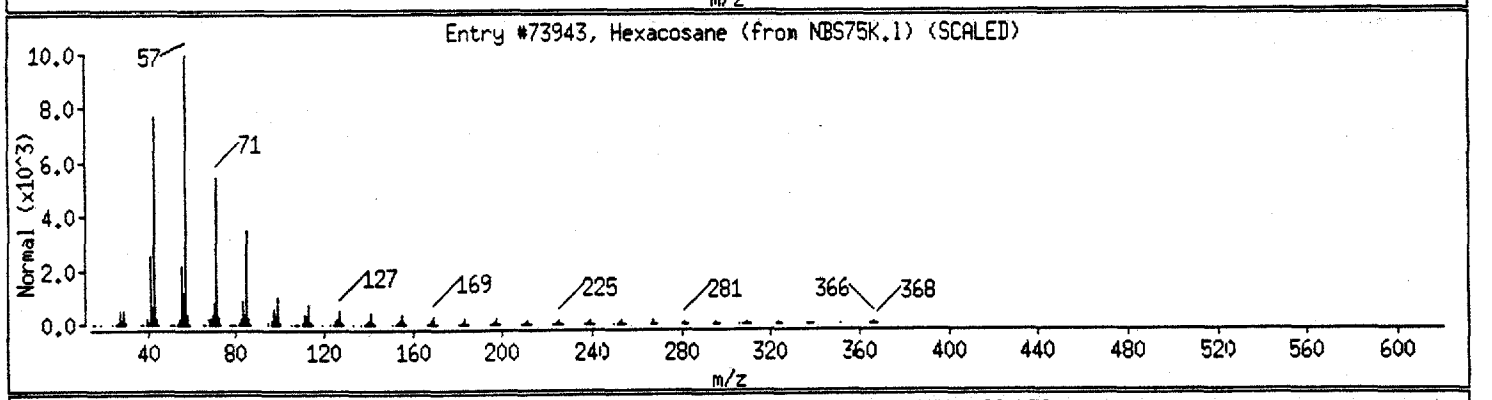
Data File: /chem/a900.i/d031094.b/d8095.d

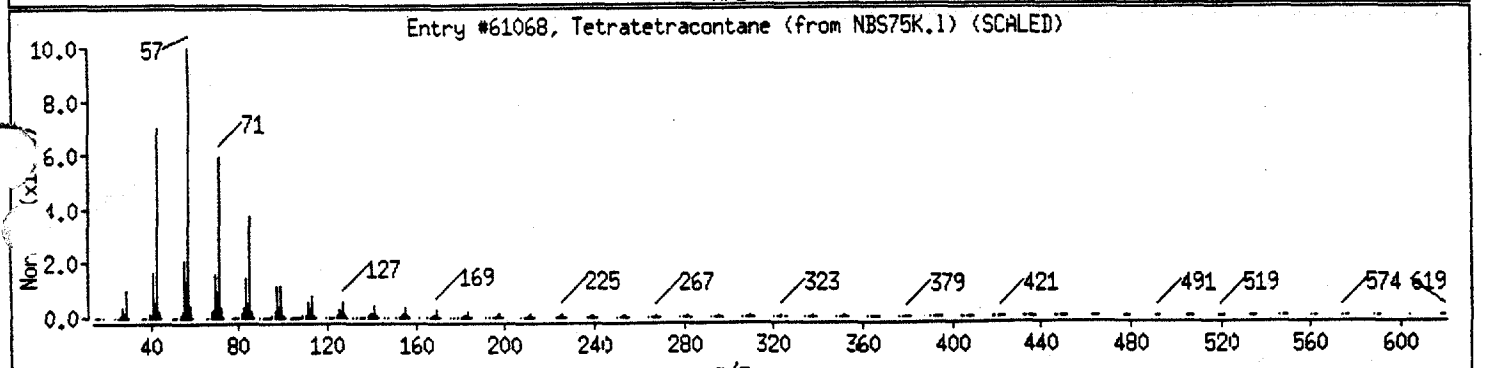
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Eicosane	112-95-8	NBS75K.1	72323	90
Hexacosane	630-01-3	NBS75K.1	73943	86
Tetratetracontane	7098-22-8	NBS75K.1	61068	86



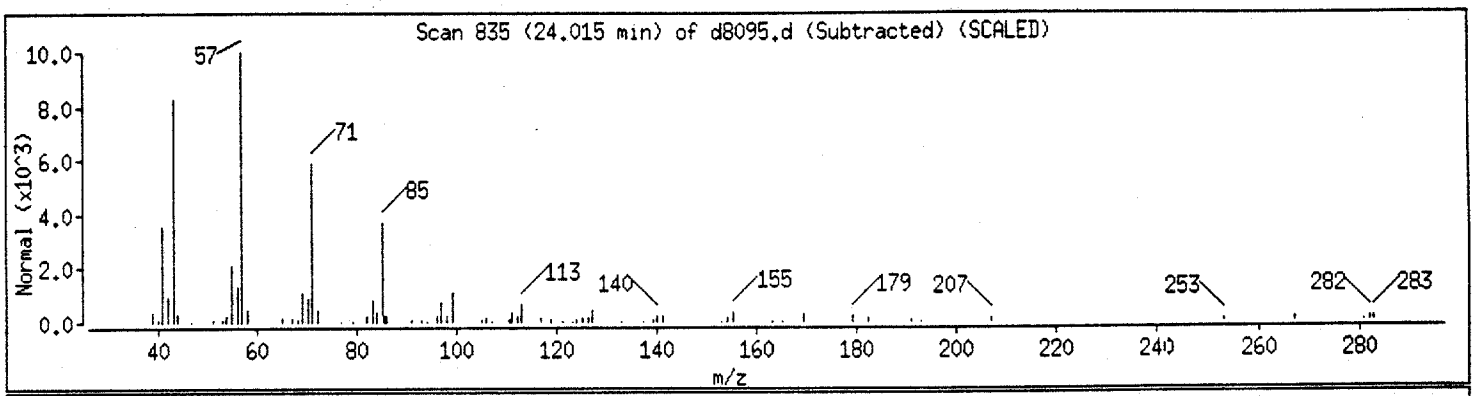


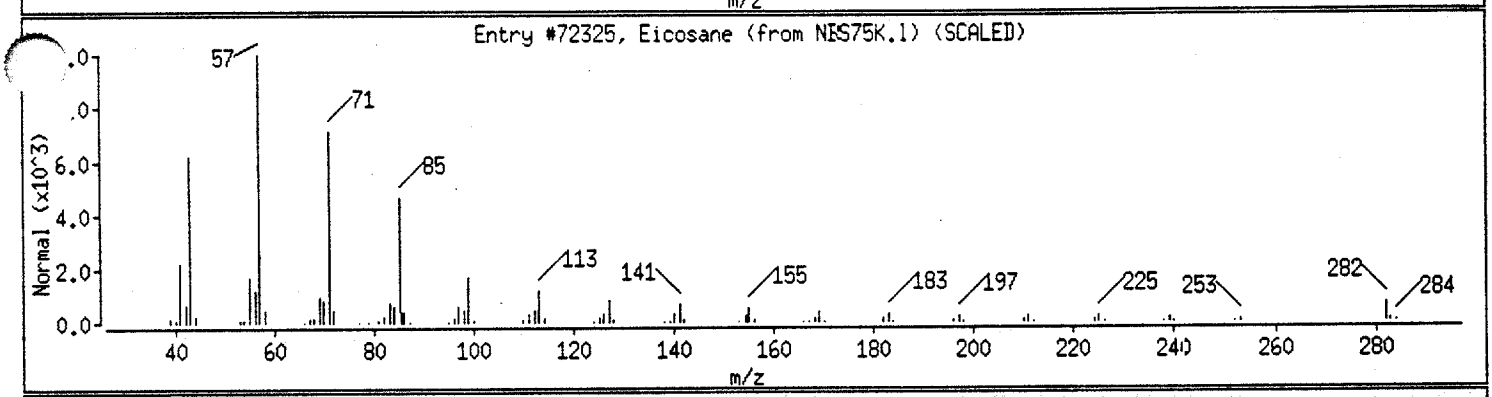


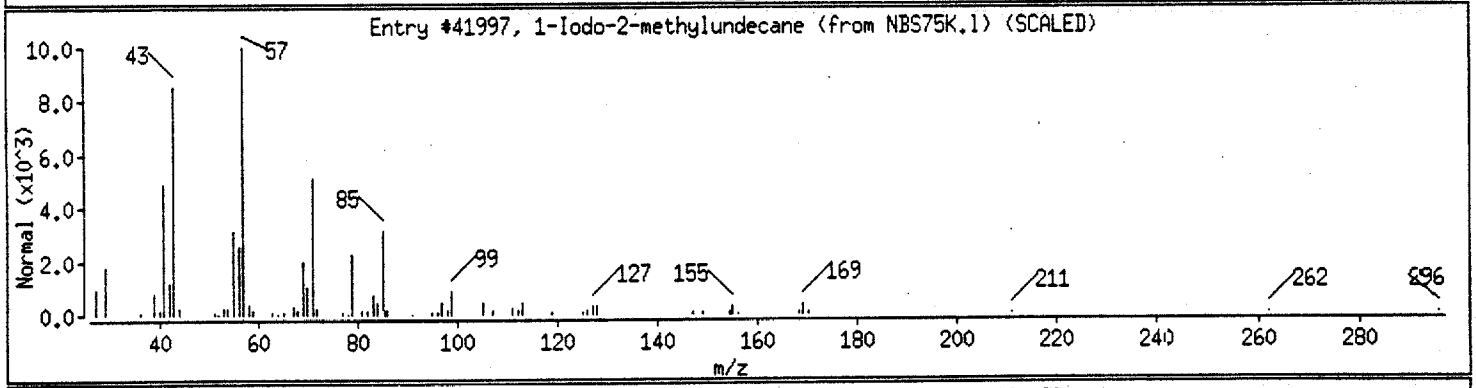


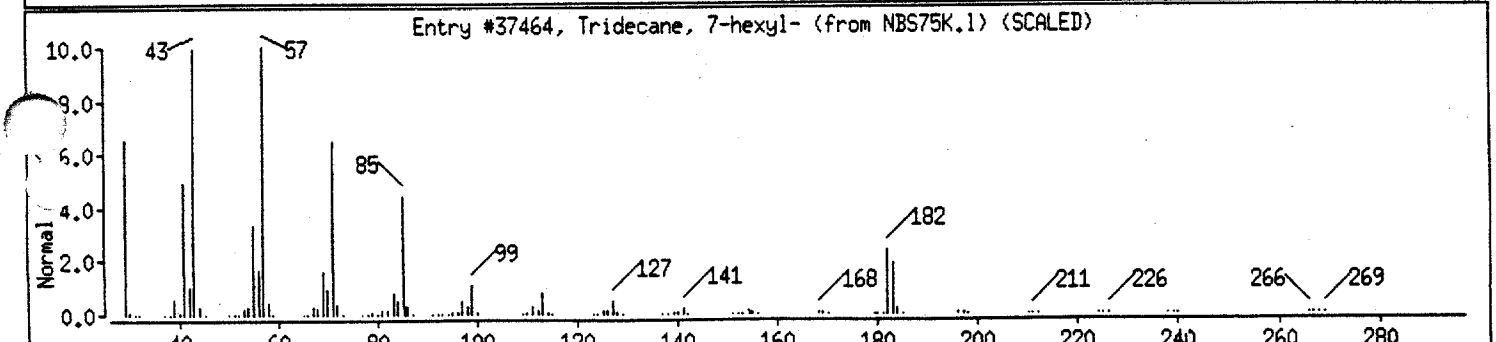
Data File: /chem/a900.i/d031094.b/d8095.d
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Eicosane	112-95-8	NBS75K.1	72325	91
1-Iodo-2-methylundecane	73105-67-6	NBS75K.1	41997	86
Tridecane, 7-hexyl-	7225-66-3	NBS75K.1	37464	86



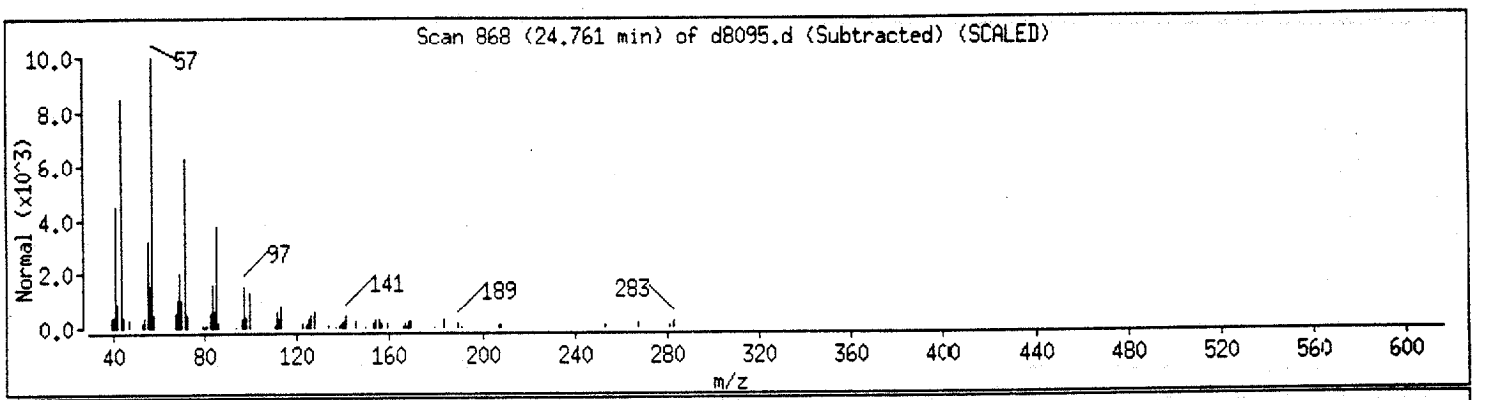


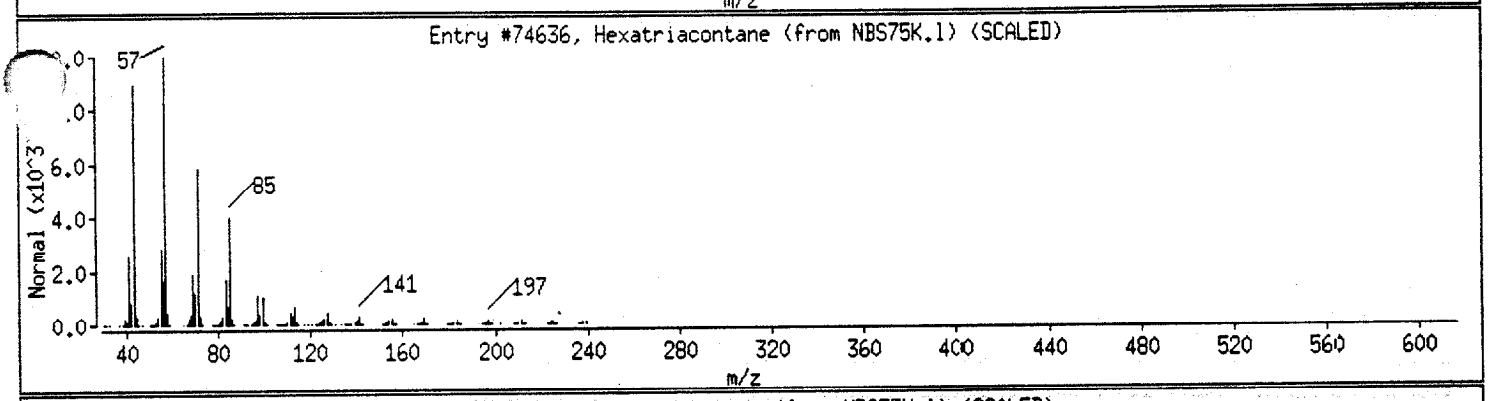


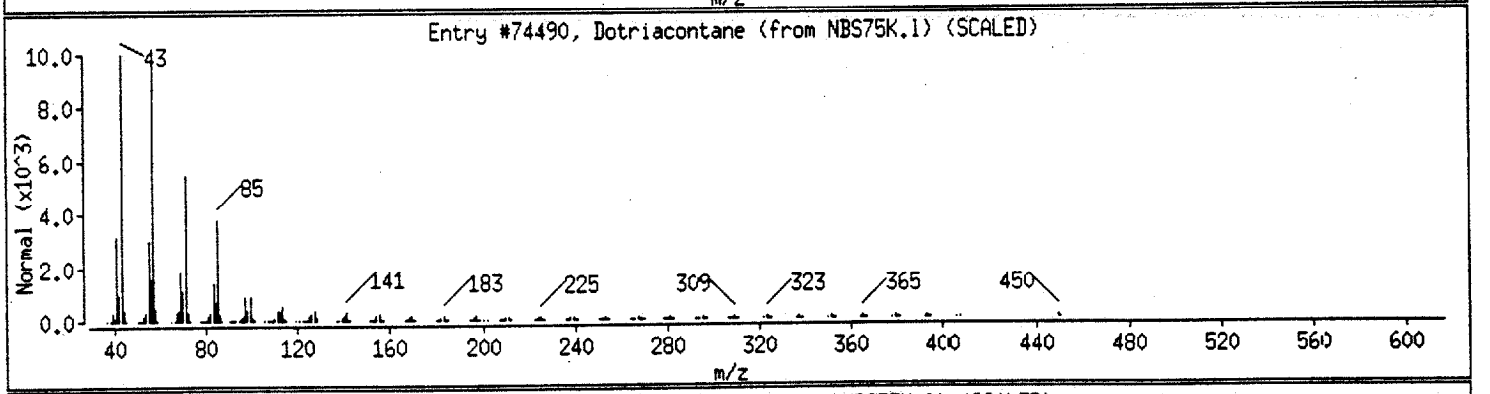


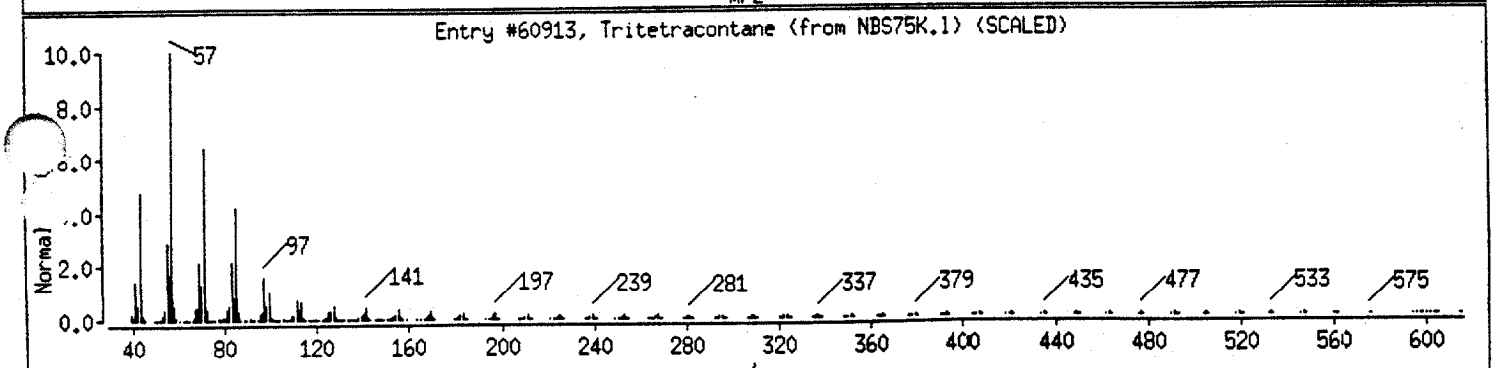
Data File: /chem/a900.i/d031094.b/d8095.d
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexatriacontane	630-06-8	NBS75K.1	74636	91
Dotriacontane	544-85-4	NBS75K.1	74490	90
Tritetracontane	7098-21-7	NBS75K.1	60913	90





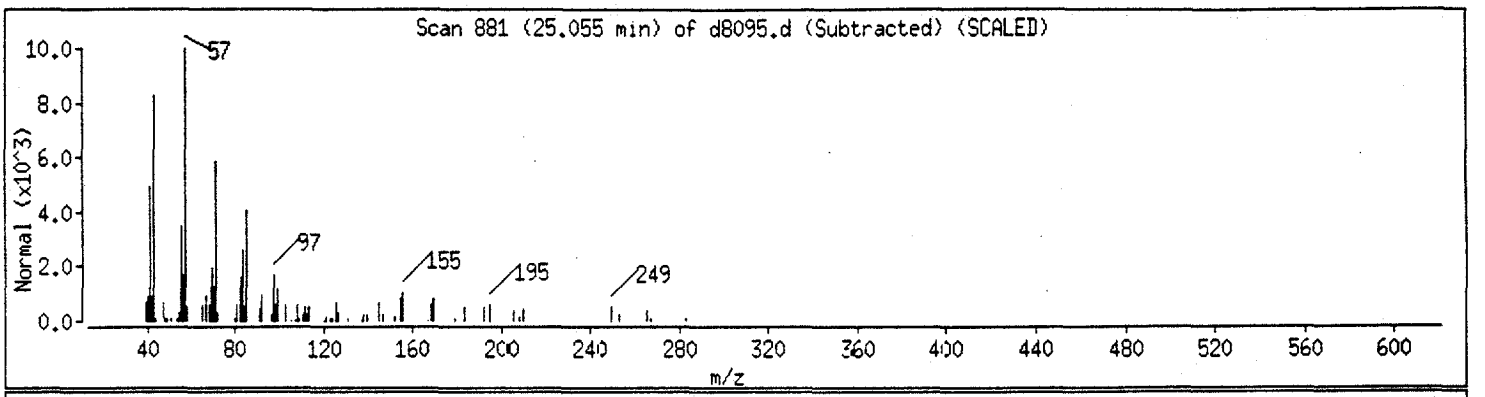


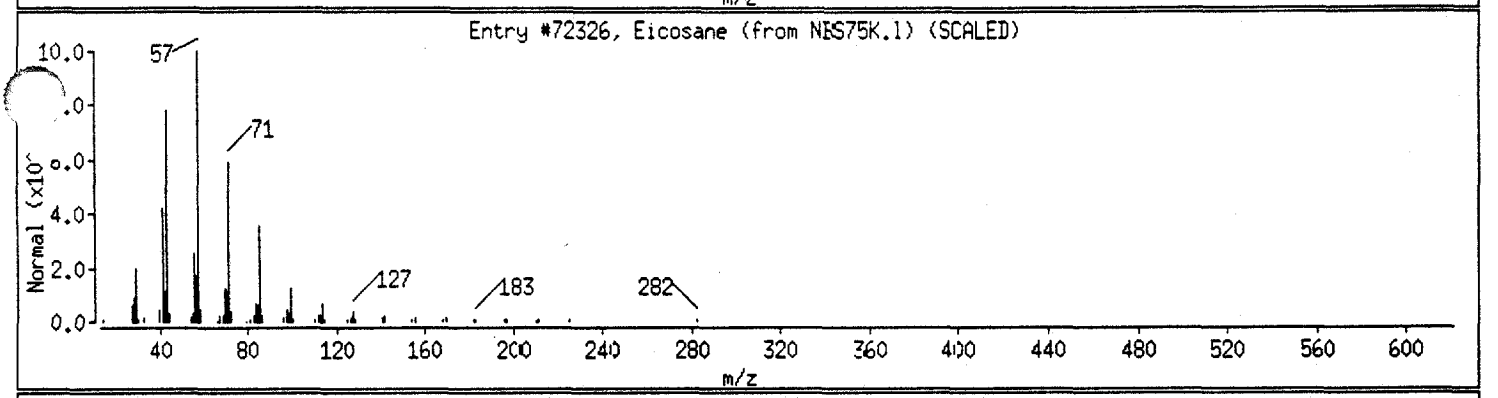


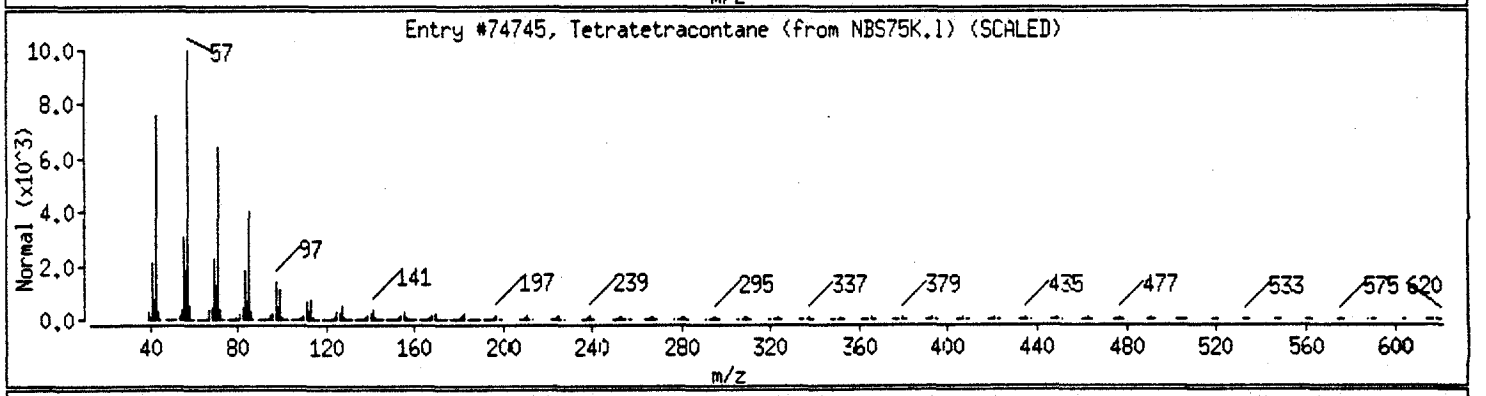
Data File: /chem/a900.i/d031094.b/d8095.d

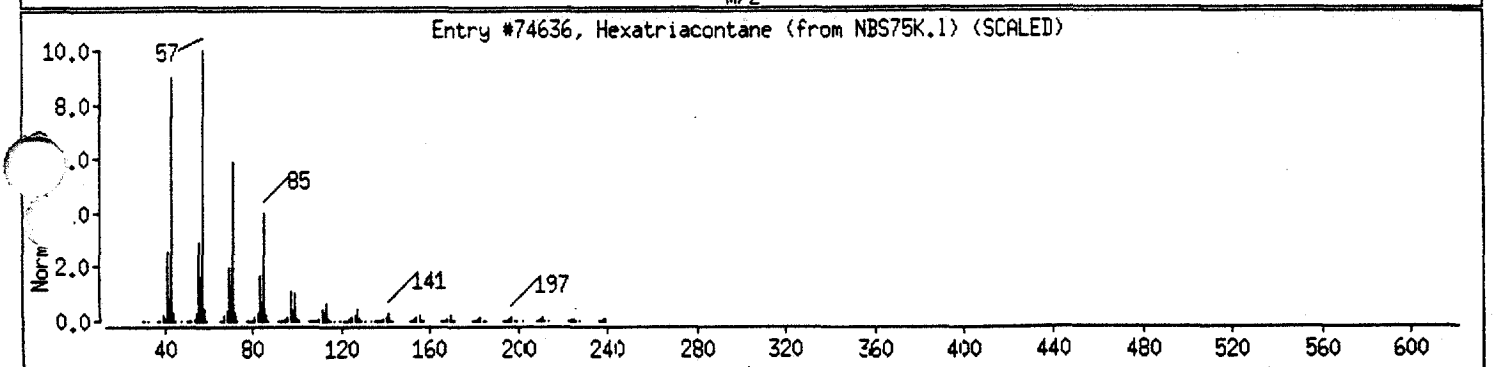
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Eicosane	112-95-8	NBS75K.l	72326	58
Tetratetracontane	7098-22-8	NBS75K.l	74745	58
Hexatriacontane	630-06-8	NBS75K.l	74636	58





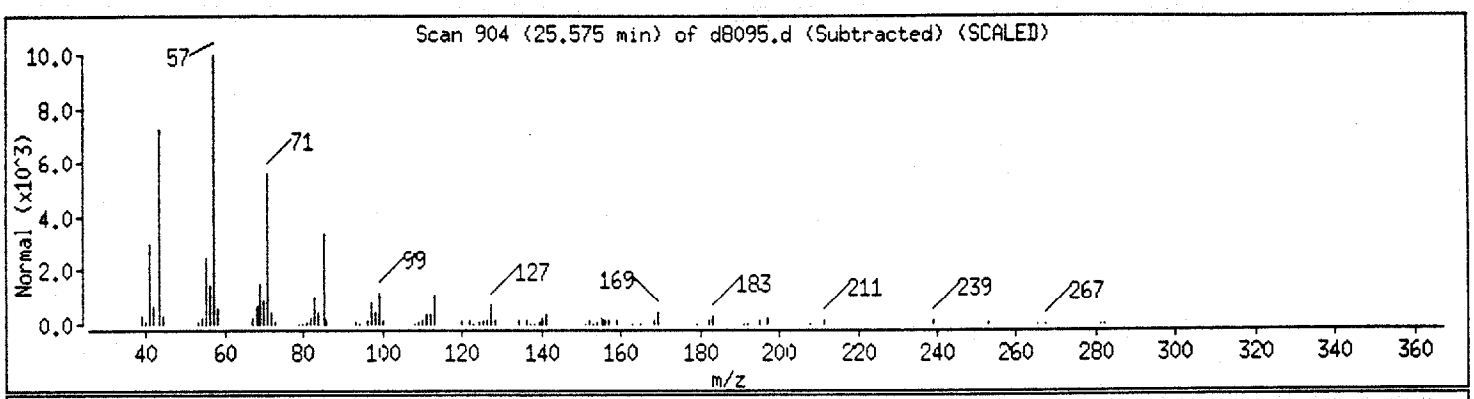


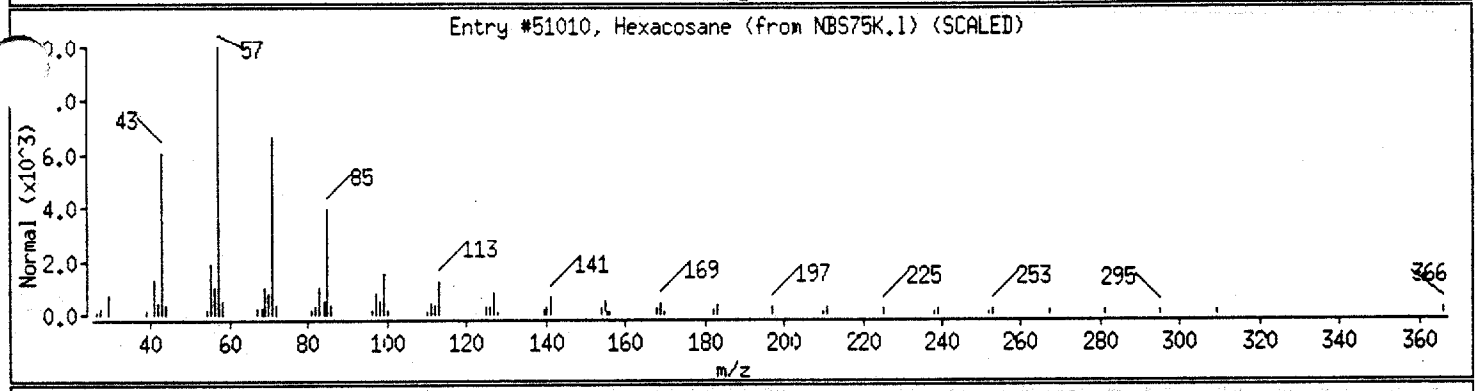


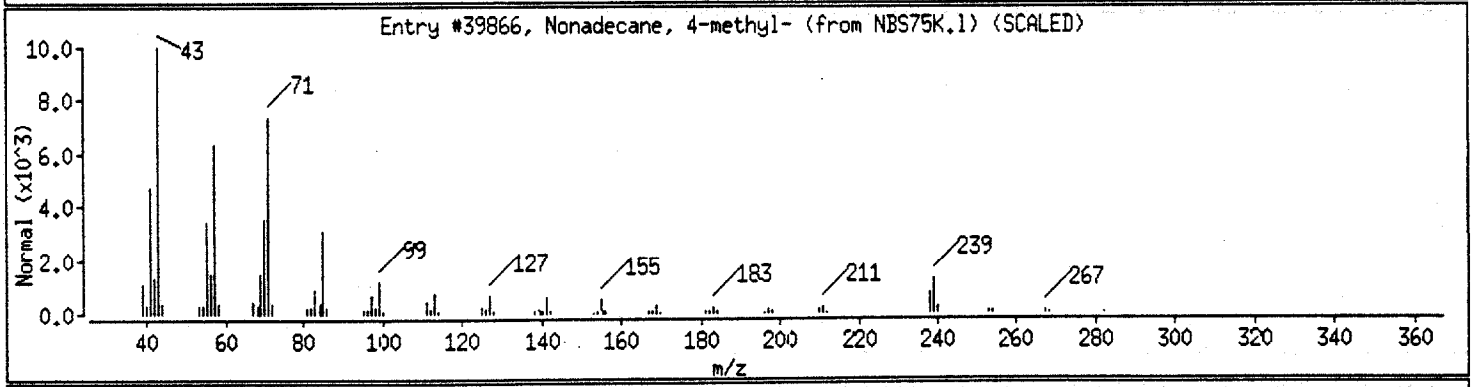
Data File: /chem/a900.i/d031094.b/d8095.d

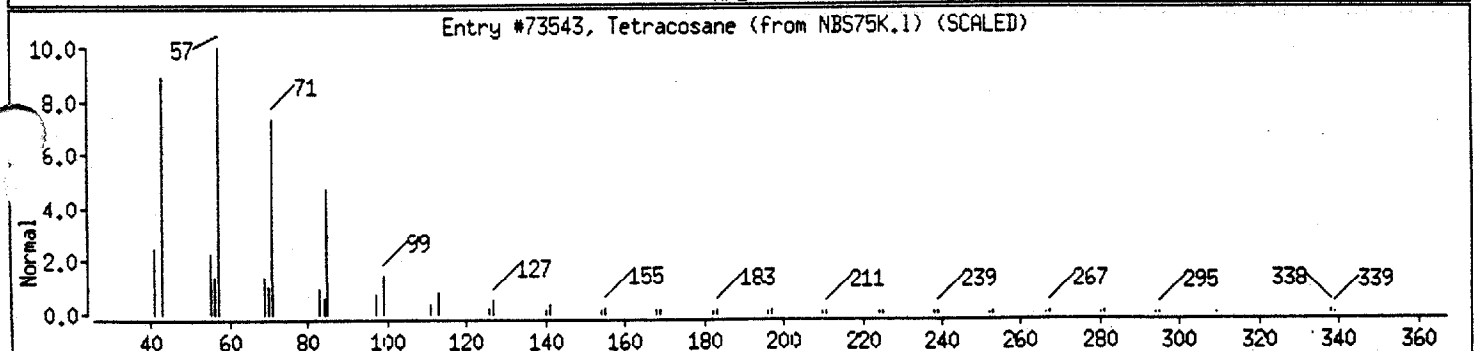
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexacosane	630-01-3	NBS75K.l	51010	91
Nonadecane, 4-methyl-	25117-27-5	NBS75K.l	39866	90
Tetracosane	646-31-1	NBS75K.l	73543	87





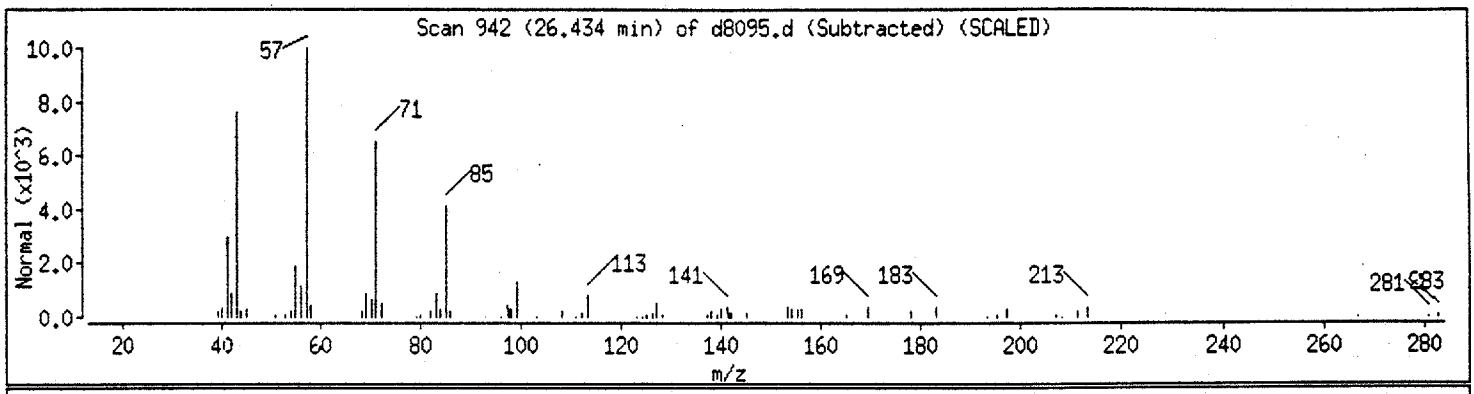


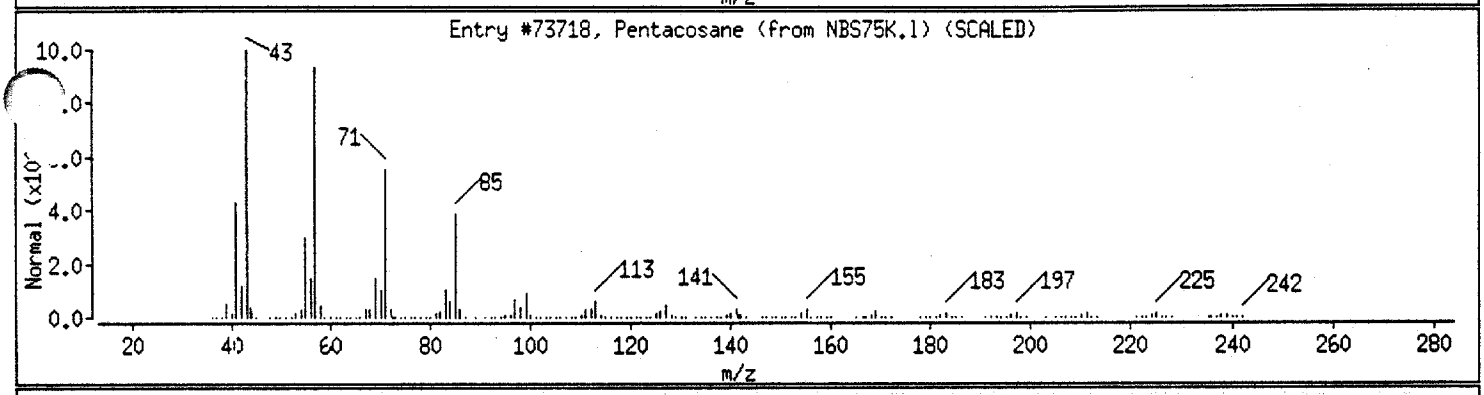


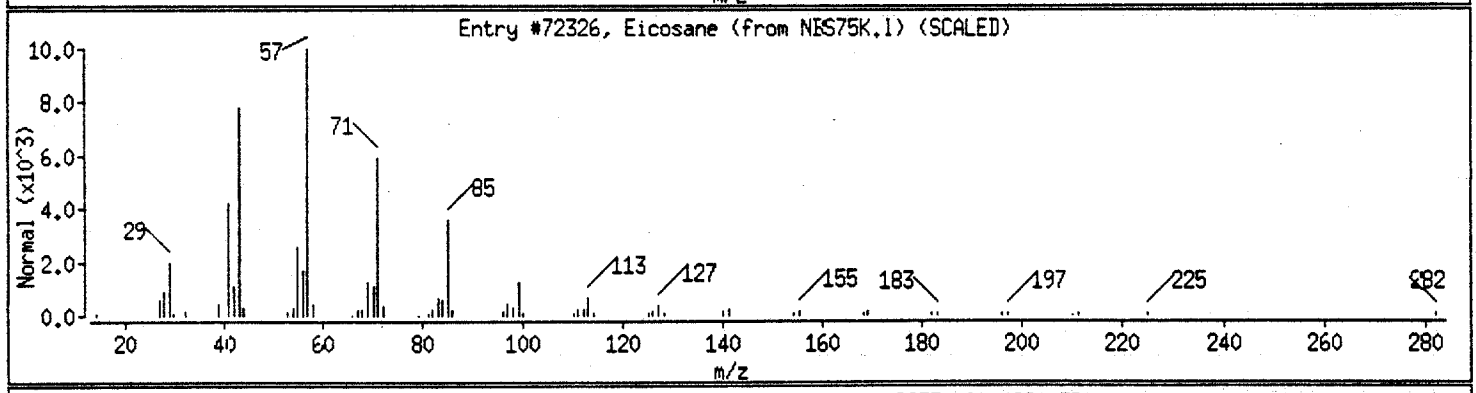
Data File: /chem/a900.i/d031094.b/d8095.d

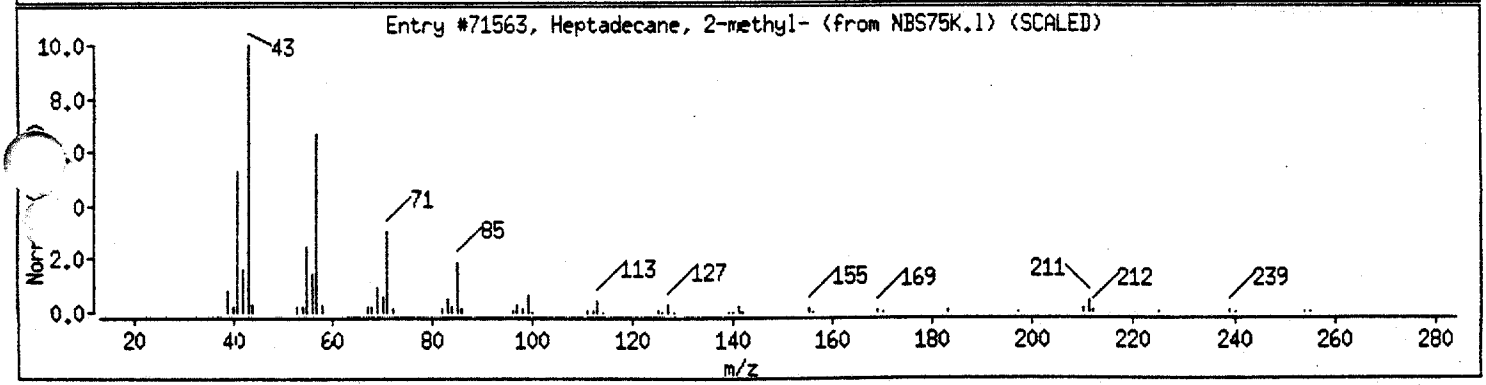
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentacosane	629-99-2	NBS75K.1	73718	83
Eicosane	112-95-8	NBS75K.1	72326	78
Heptadecane, 2-methyl-	1560-89-0	NBS75K.1	71563	72





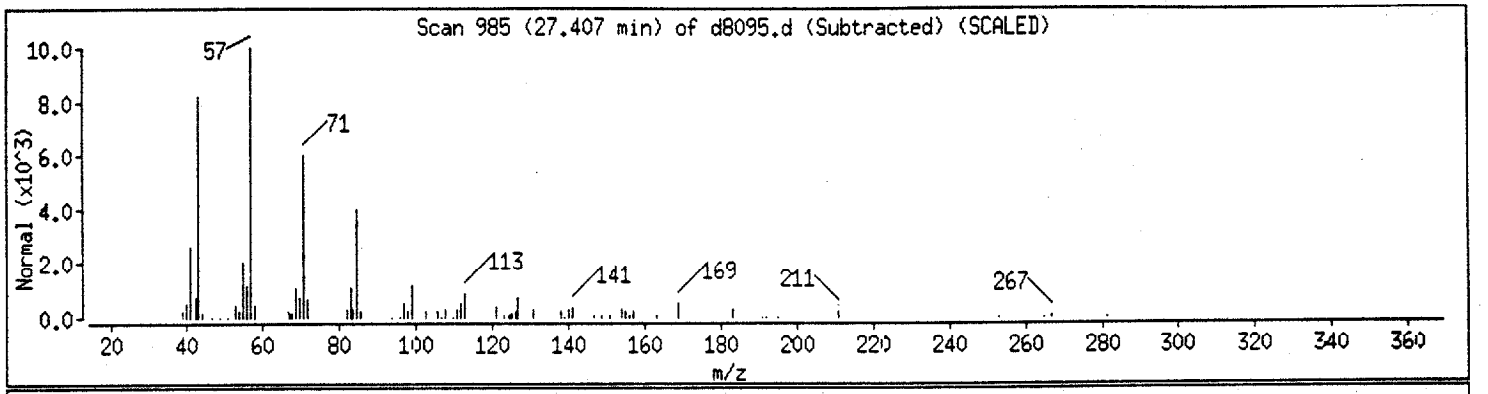


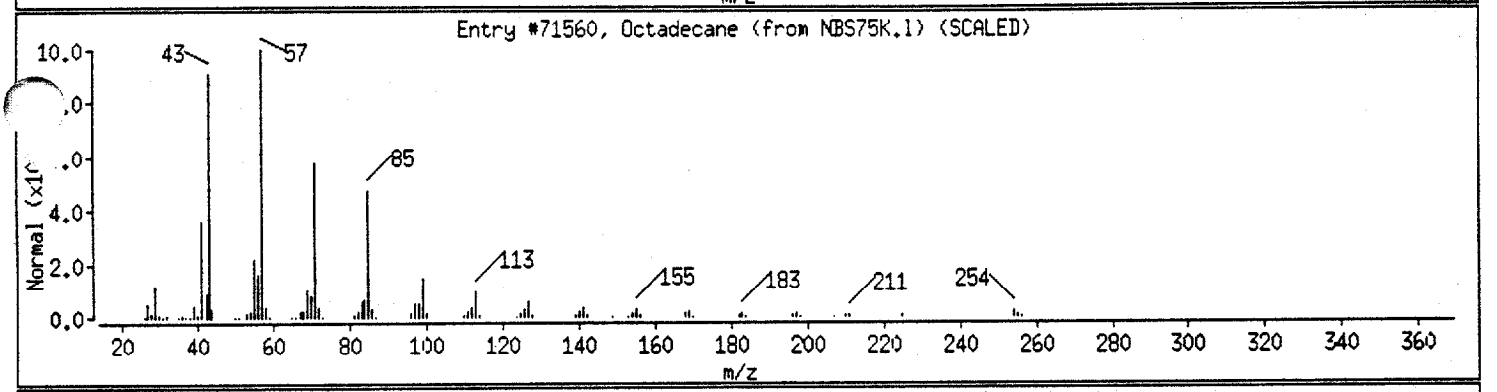


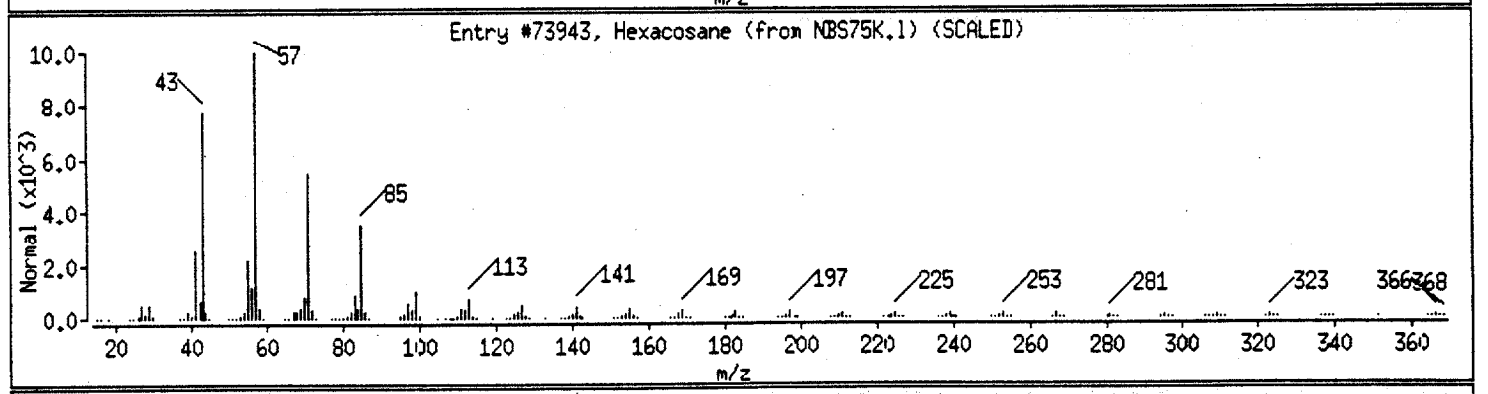
Data File: /chem/a900.i/d031094.b/d8095.d

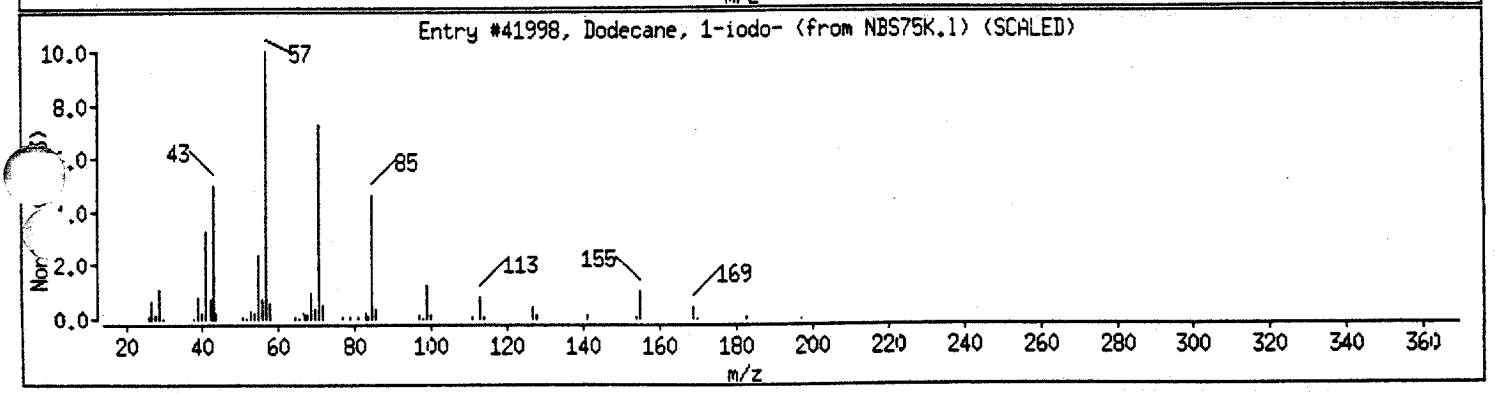
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Octadecane	593-45-3	NBS75K.l	71560	90
Hexacosane	630-01-3	NBS75K.l	73943	86
Dodecane, 1-iodo-	4292-19-7	NBS75K.l	41998	86





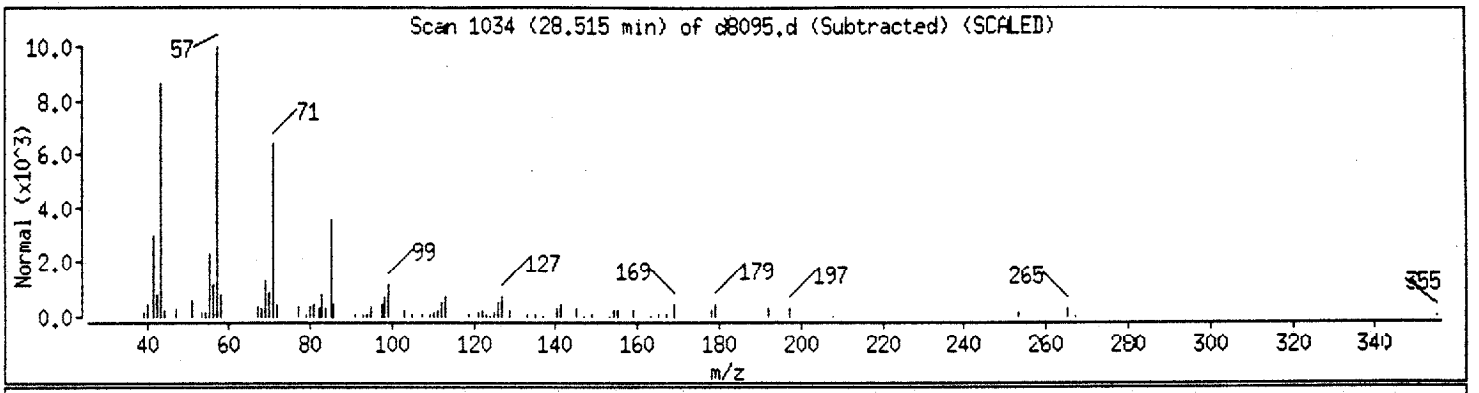


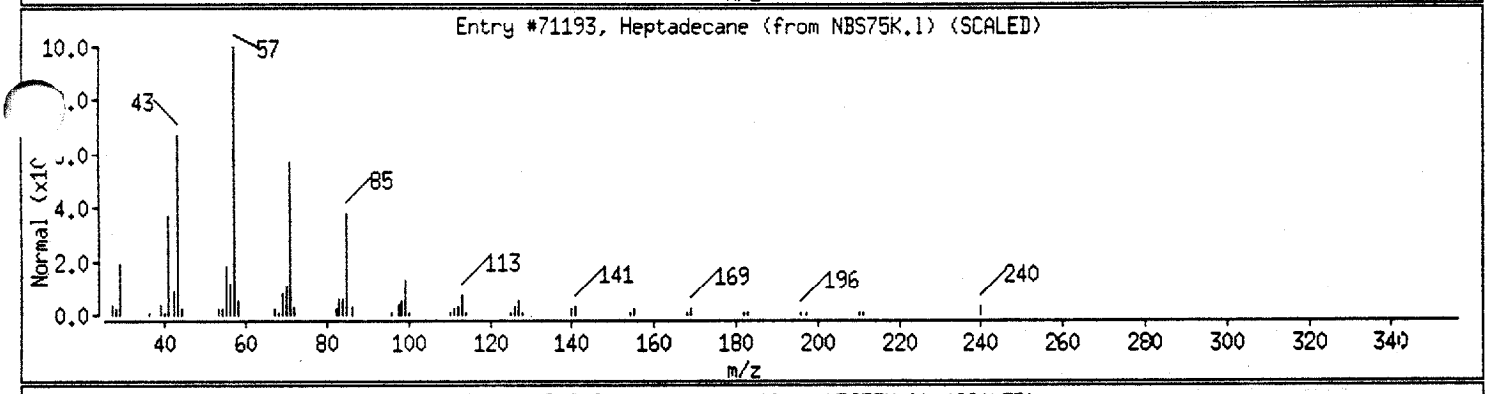


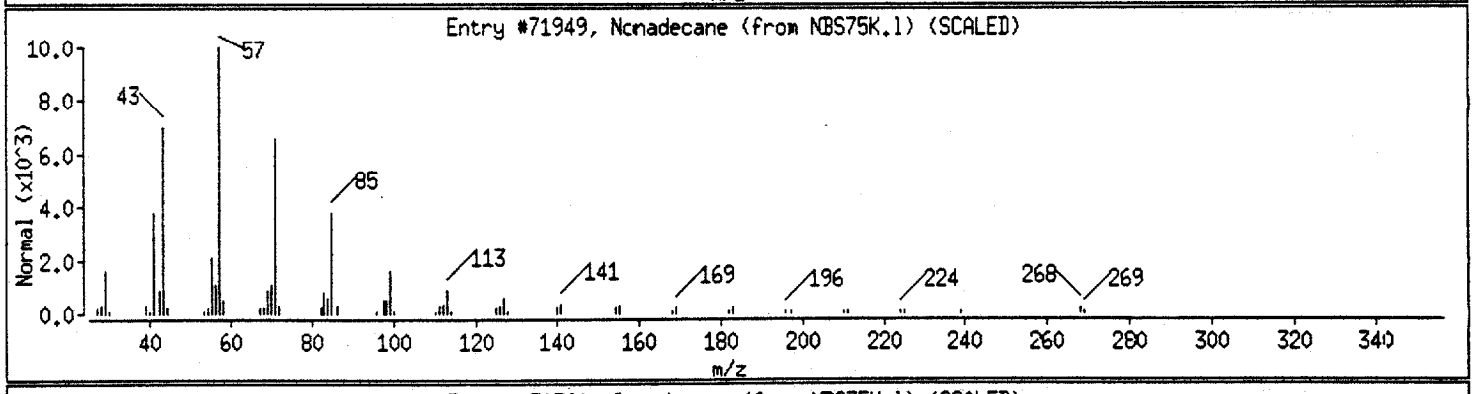
Data File: /chem/a900.i/d031094.b/d8095.d

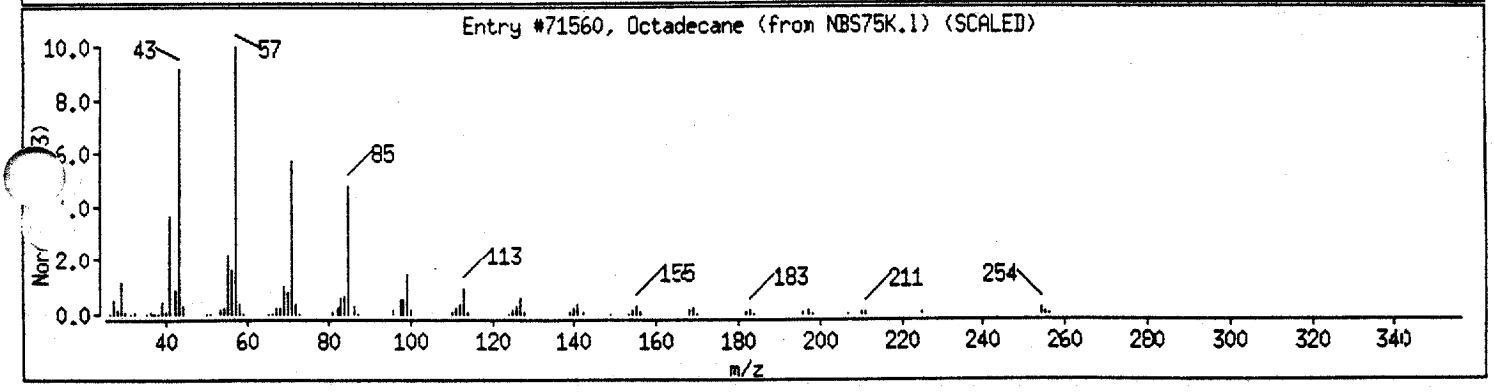
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptadecane	629-78-7	NBS75K.1	71193	87
Nonadecane	629-92-5	NBS75K.1	71949	87
Octadecane	593-45-3	NBS75K.1	71560	86



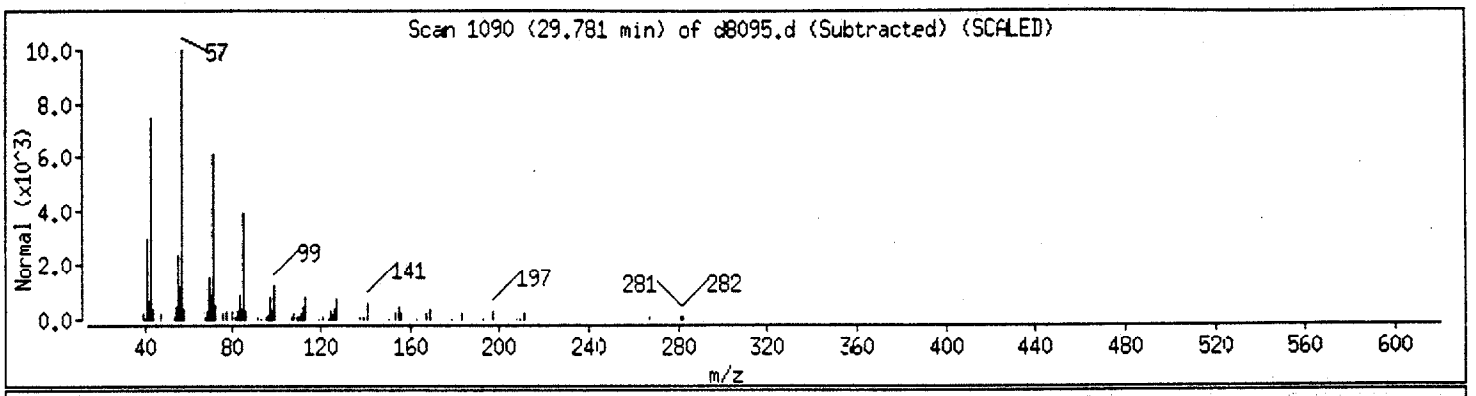


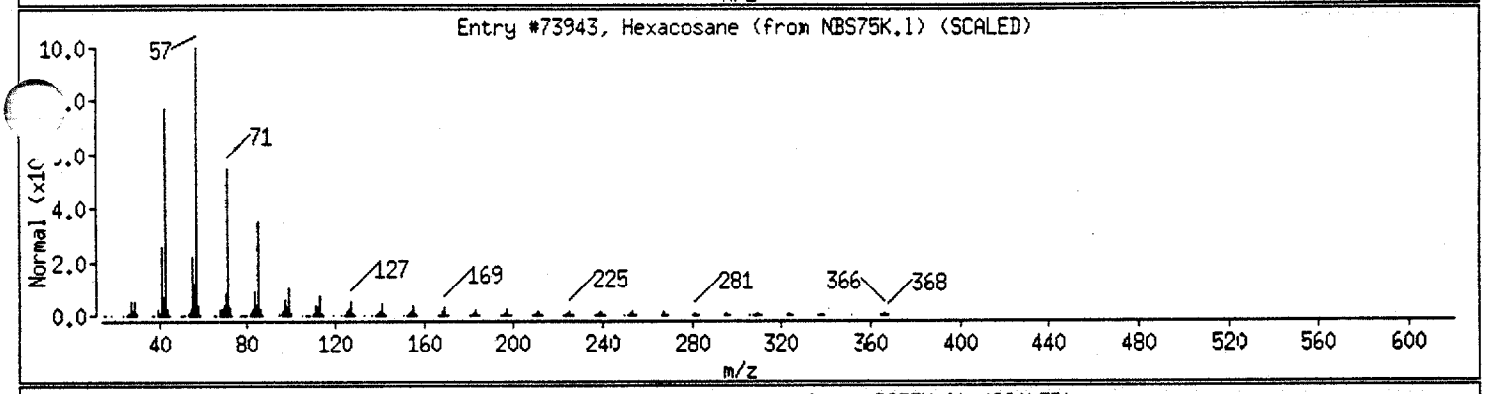


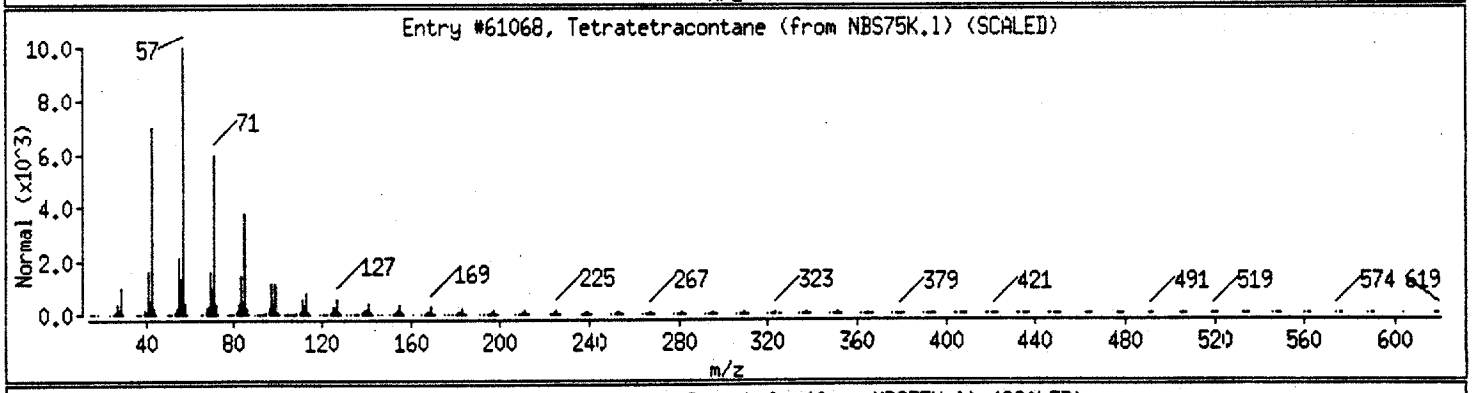


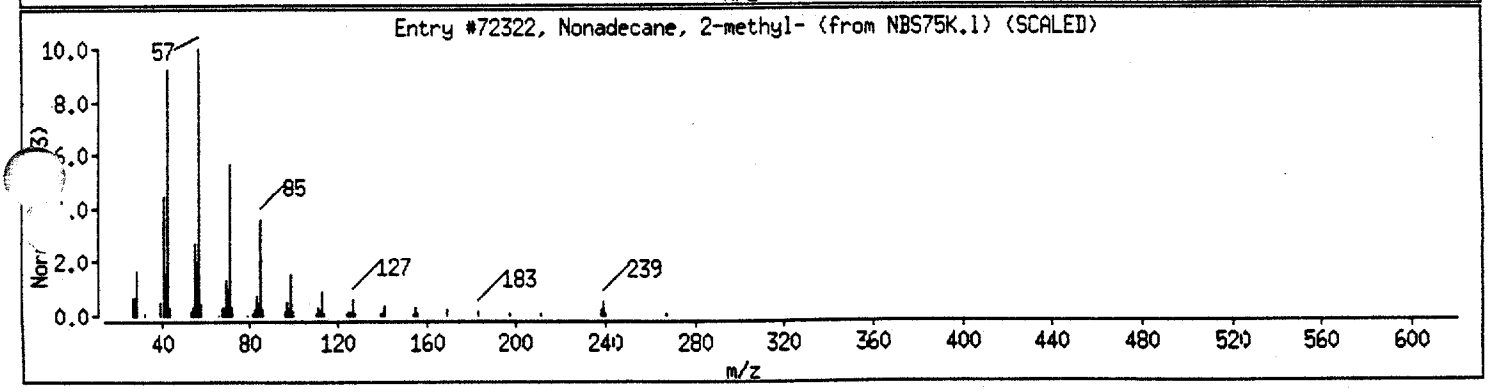
Data File: /chem/a900.i/d031094.b/d8095.d
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexacosane	630-01-3	NBS75K.1	73943	91
Tetratetracontane	7098-22-8	NBS75K.1	61068	91
Nonadecane, 2-methyl-	1560-86-7	NBS75K.1	72322	91





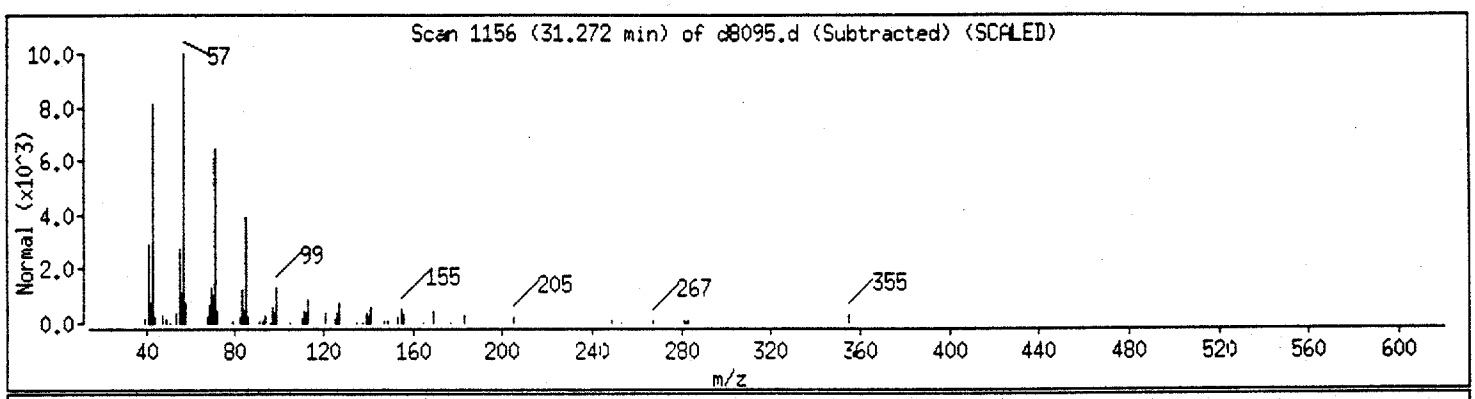


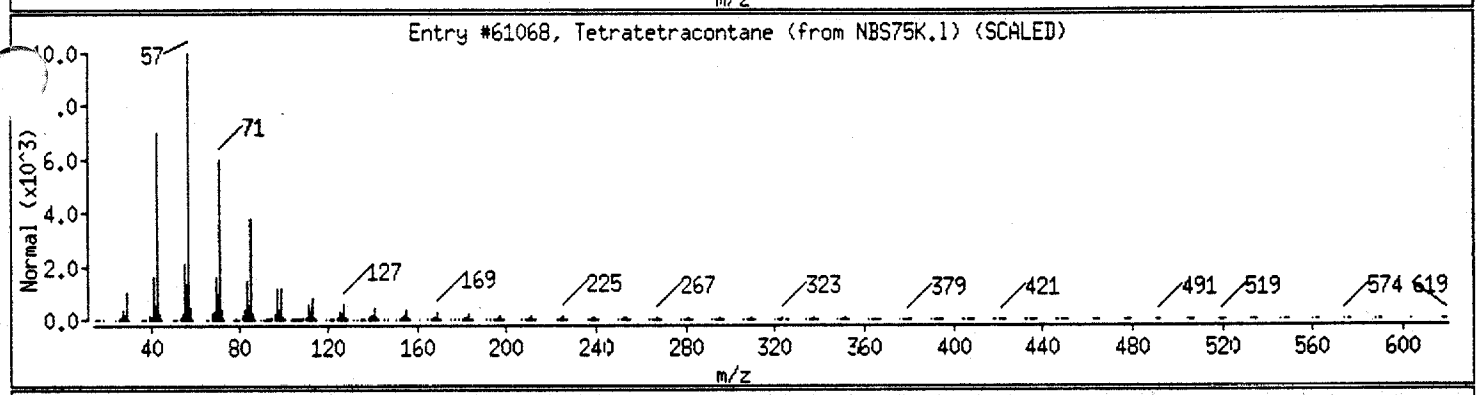


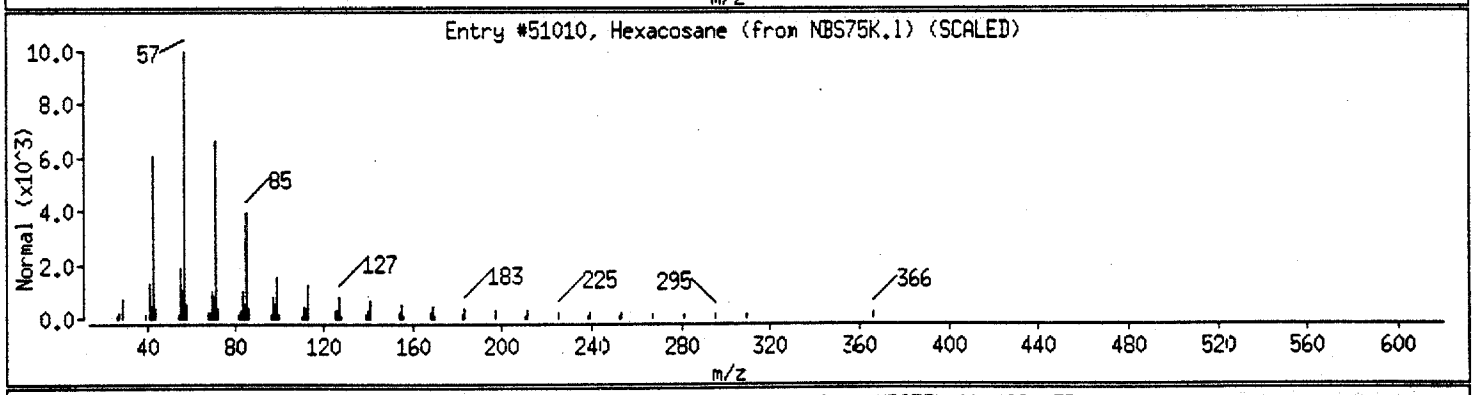
Data File: /chem/a900.i/d031094.b/d8095.d

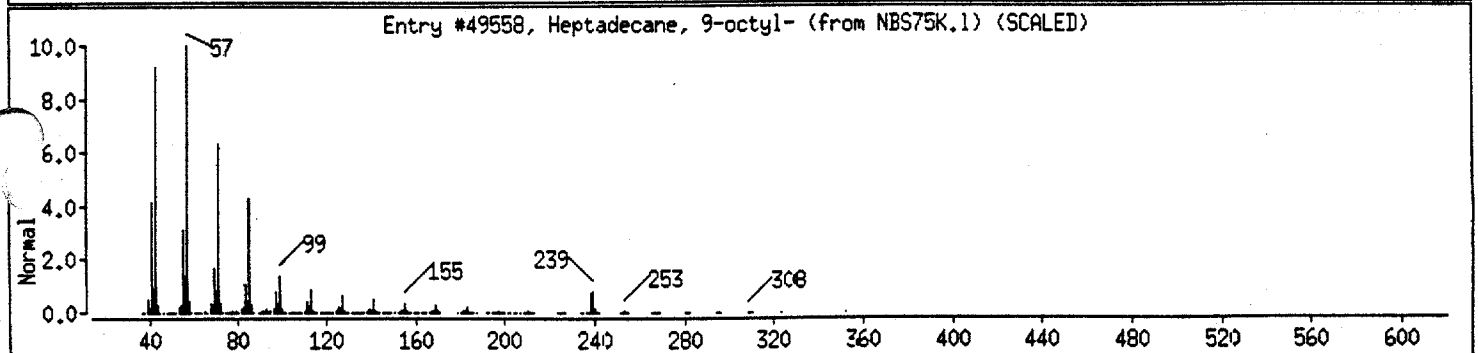
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tetratetracontane	7098-22-8	NBS75K.1	61068	90
Hexacosane	630-01-3	NBS75K.1	51010	90
Heptadecane, 9-octyl-	7225-64-1	NBS75K.1	49558	90





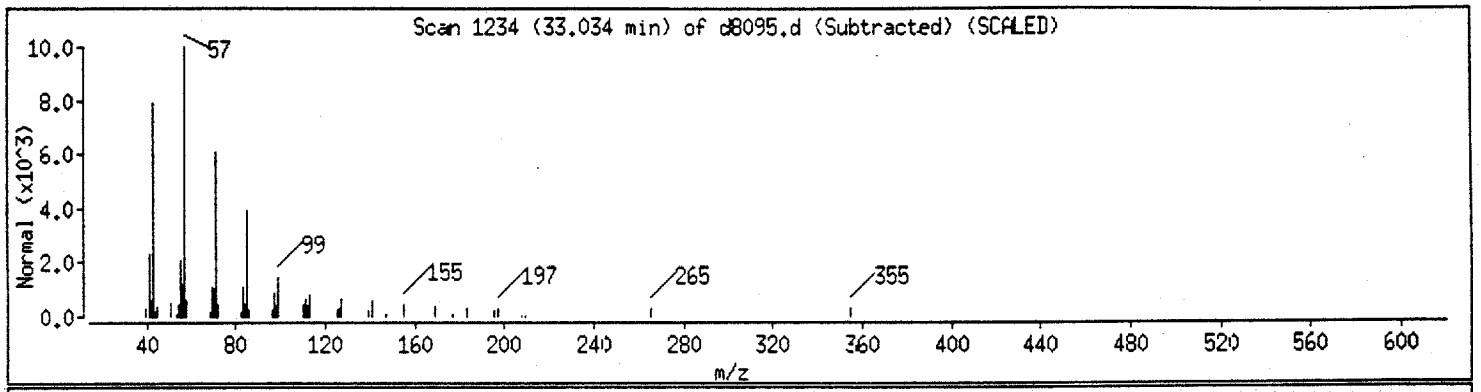


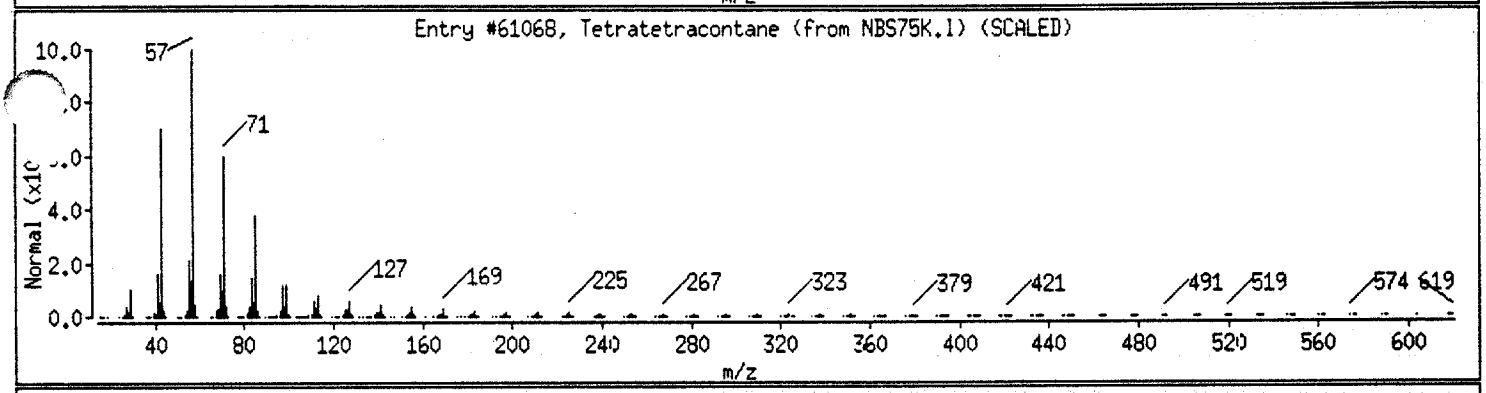


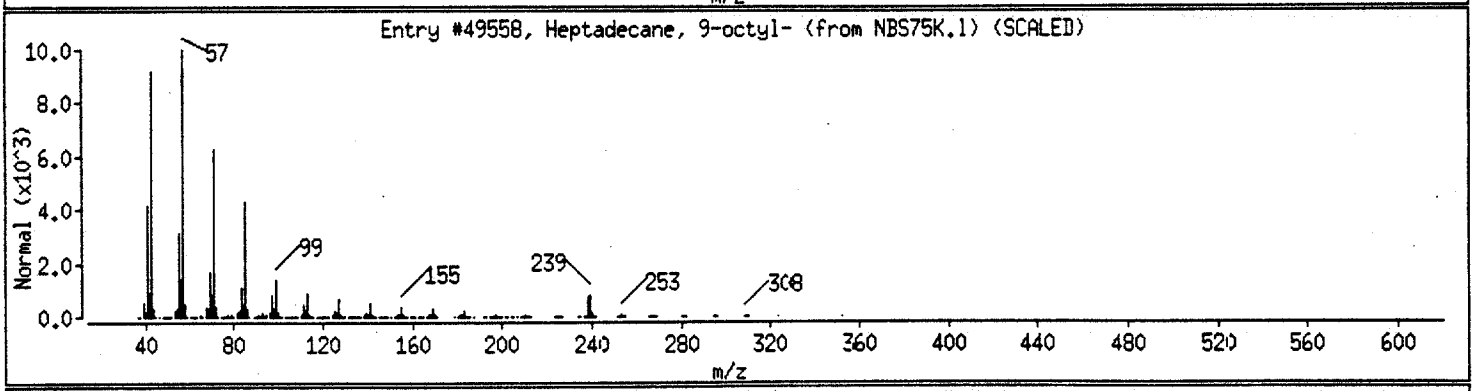
Data File: /chem/a900.i/d031094.b/d8095.d

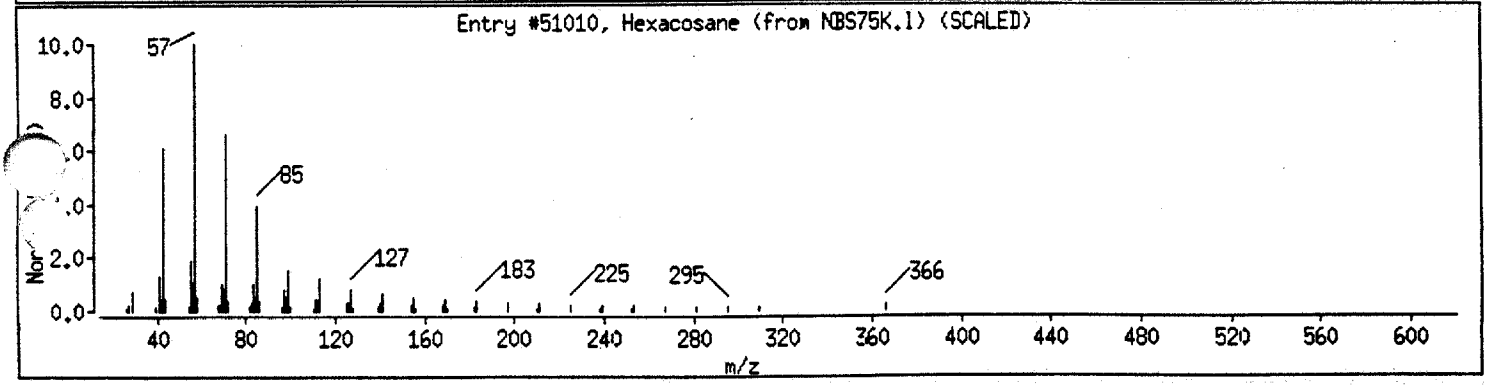
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Tetratetracontane	7098-22-8	NBS75K.1	61068	91
Heptadecane, 9-octyl-	7225-64-1	NBS75K.1	49558	91
Hexacosane	630-01-3	NBS75K.1	51010	91





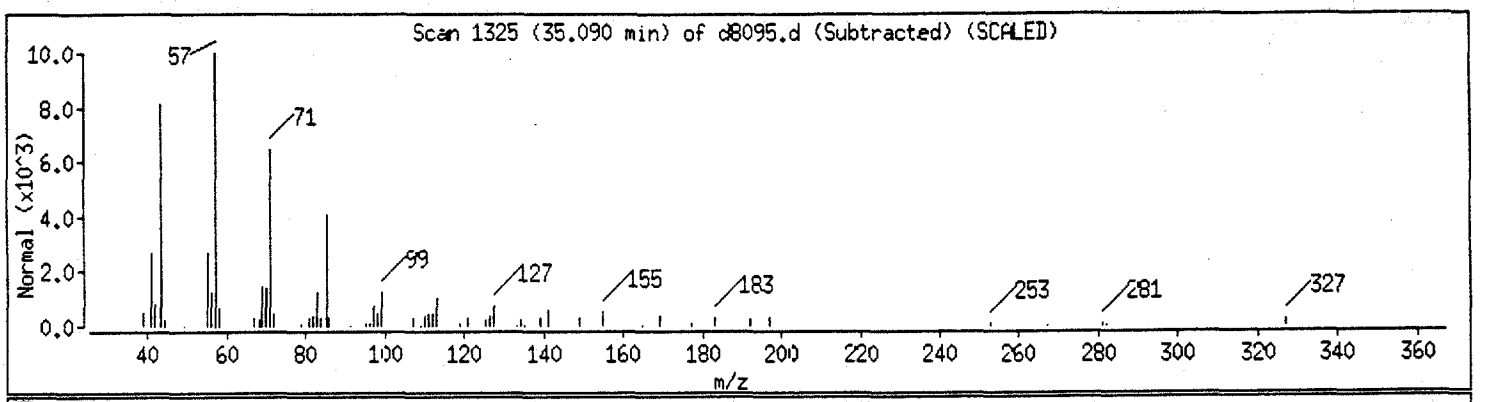


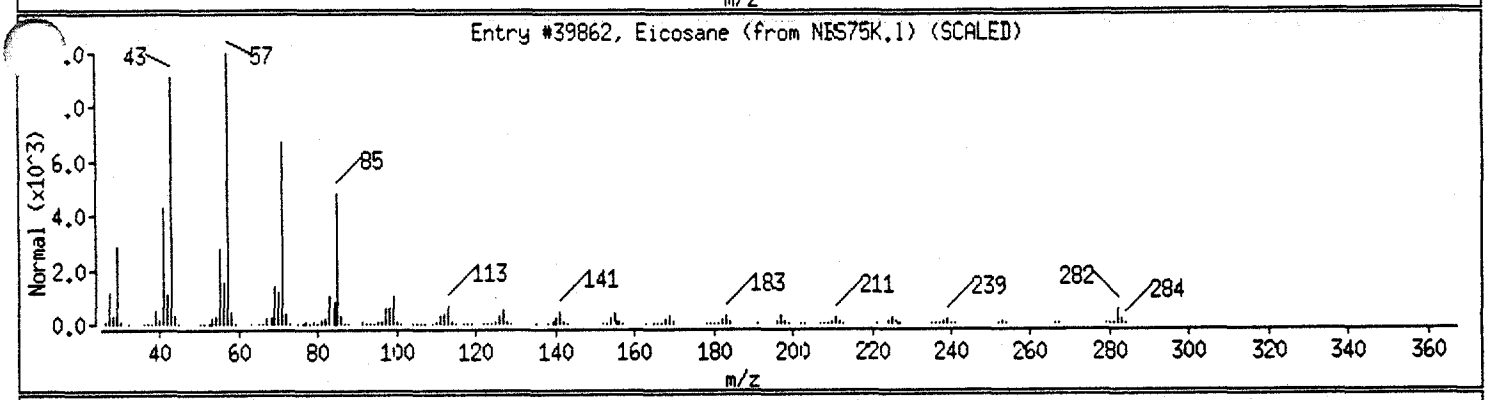


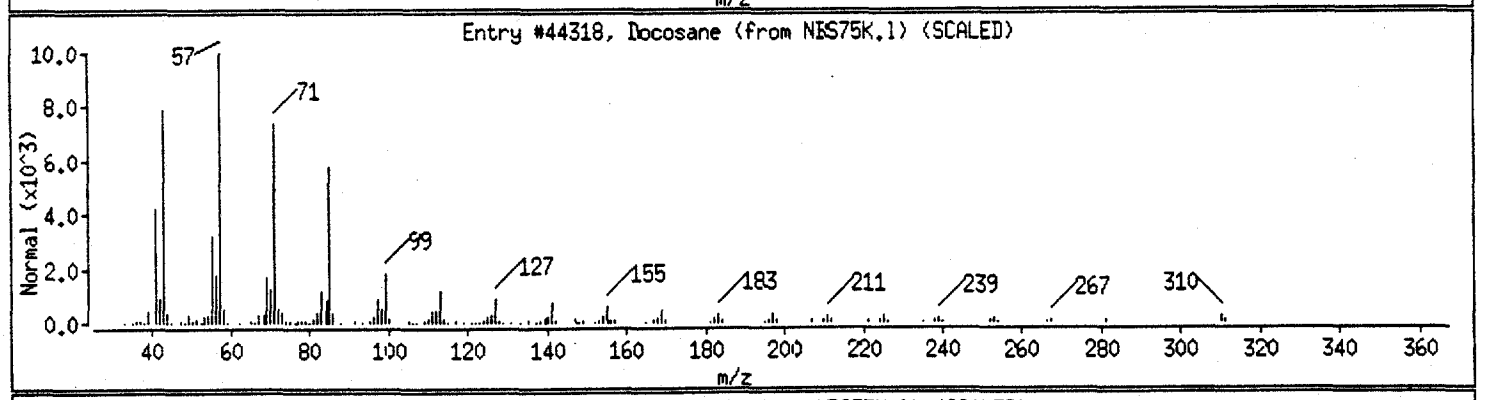
Data File: /chem/a900.i/d031094.b/d8095.d

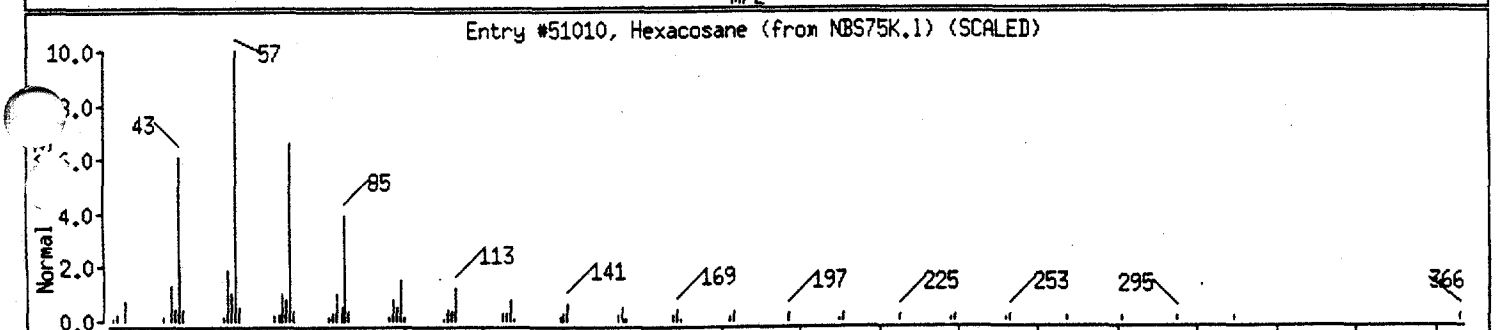
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Eicosane	112-95-8	NBS75K.1	39862	93
Docosane	629-97-0	NBS75K.1	44318	91
Hexacosane	630-01-3	NBS75K.1	51010	91





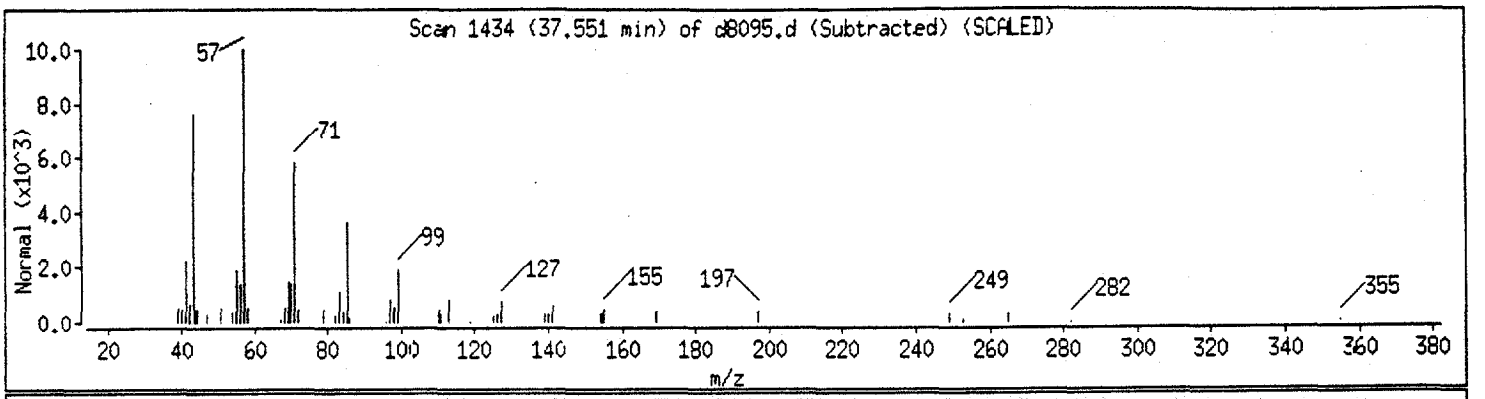


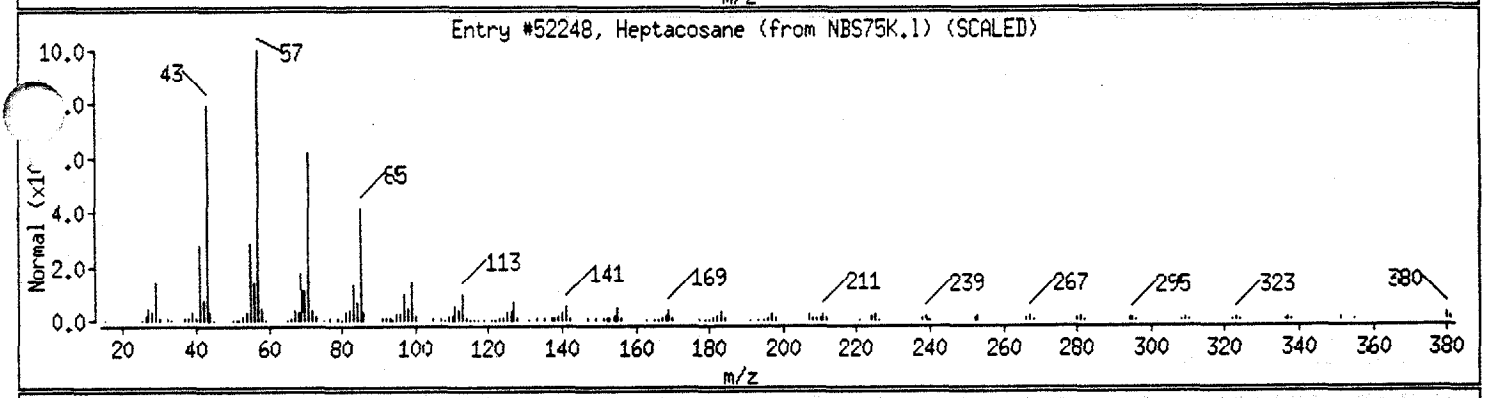


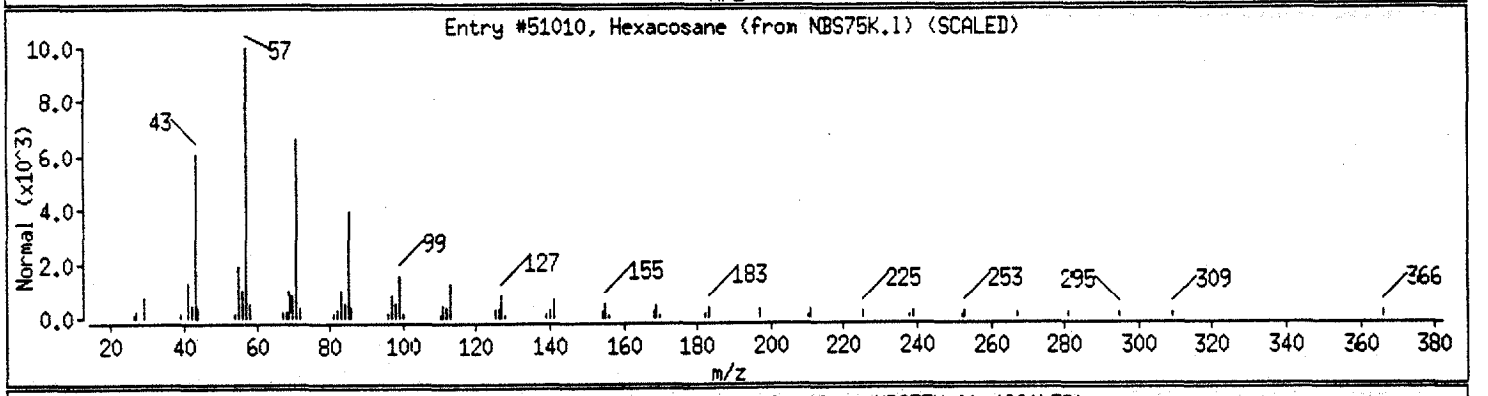
Data File: /chem/a900.i/d031094.b/d8095.d

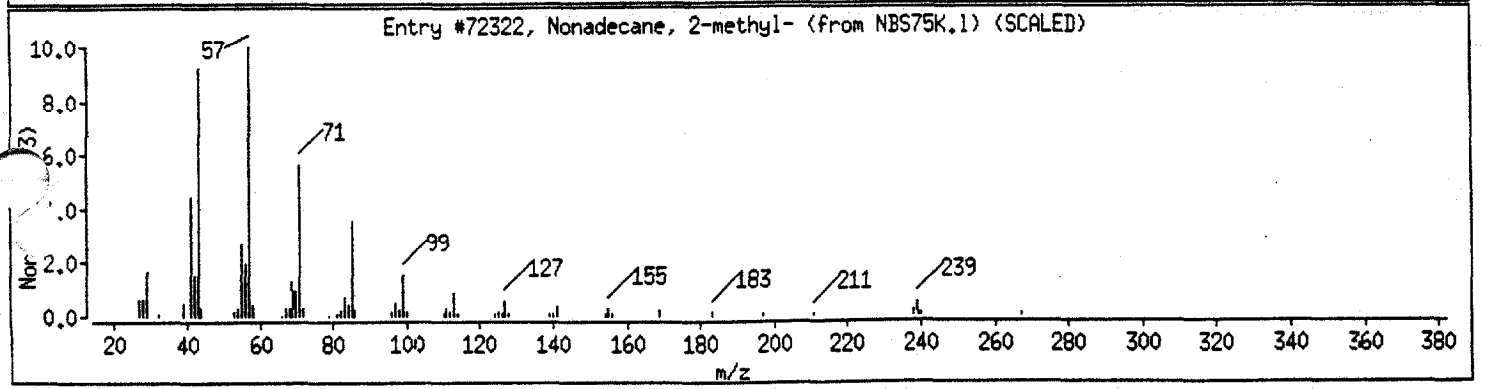
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptacosane	593-49-7	NBS75K.l	52248	90
Hexacosane	630-01-3	NBS75K.l	51010	90
Nonadecane, 2-methyl-	1560-86-7	NBS75K.l	72322	90





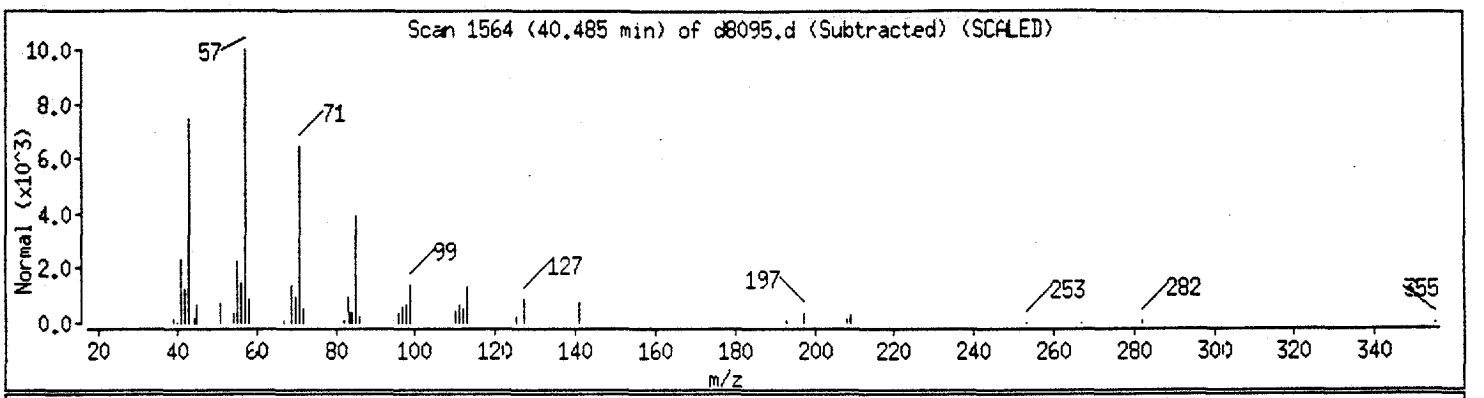


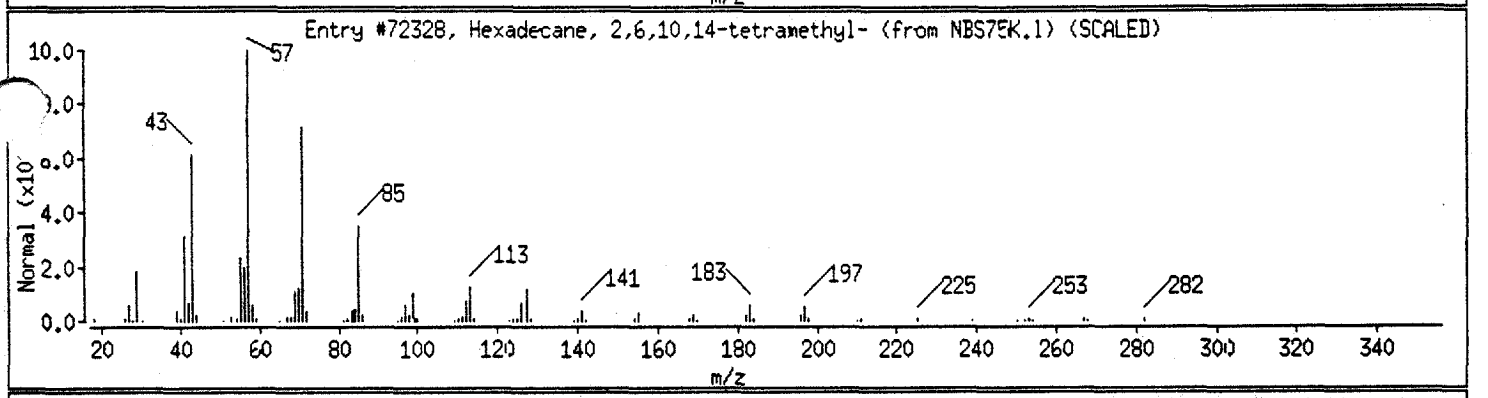


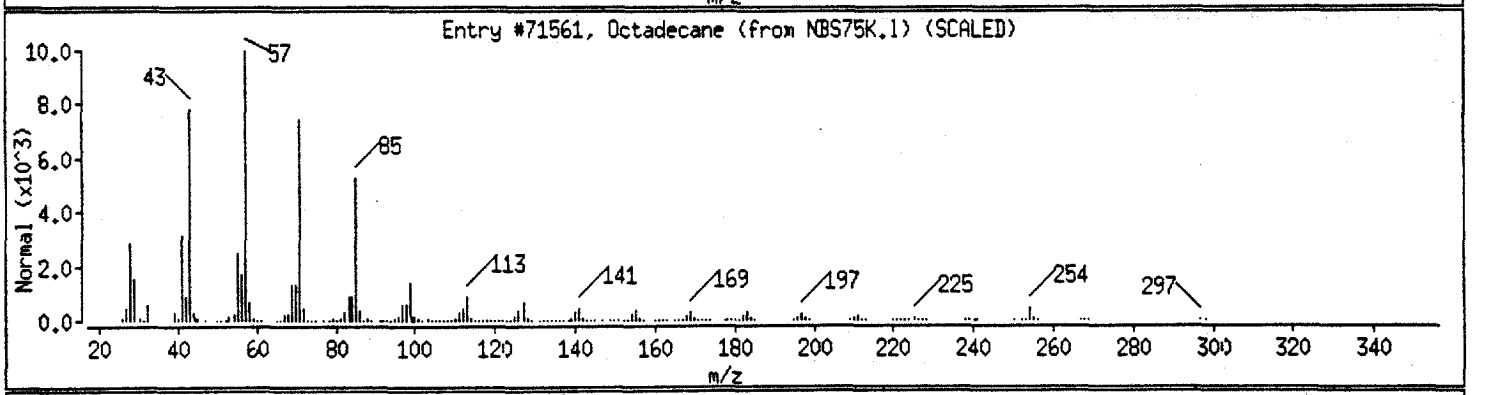
Data File: /chem/a900.i/d031094.b/d8095.d

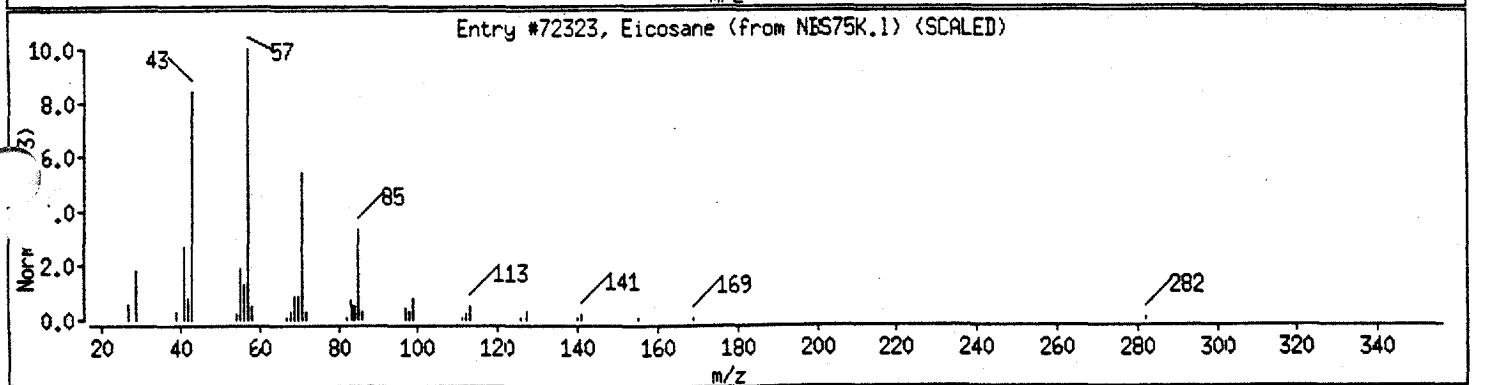
Date : 10-MAR-94 23:17
Instrument : a900.i
Sample ID :
Column phase : J&W DB-5 Column diameter : 0.25
Volume Injected (uL) : 2.0

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NBS75K.1	72328	94
Octadecane	593-45-3	NBS75K.1	71561	91
Eicosane	112-95-8	NBS75K.1	72323	91









084

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N4V3331V

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C6842

Level: (low/med) MED Date Received: 03-04-94

% Moisture: not dec. NA Date Analyzed: 03-04-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	625	U
74-83-9	Bromomethane	625	U
75-01-4	Vinyl Chloride	625	U
75-00-3	Chloroethane	625	U
75-09-2	Methylene Chloride	224	~~B~~ J
67-64-1	Acetone	625	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane ~~& TRANS~~	625	U
540-59-0	1,2-Dichloroethene (~~total~~) total	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-Dichloroethane	625	U
78-93-3	2-Butanone	1250	U
71-55-6	1,1,1-Trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-Dichloropropane	625	U
10061-01-5	cis-1,3-Dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-Trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-Dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-Methyl-2-Pentanone	1250	U
591-78-6	2-Hexanone	625	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-Tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Xylene (total)	625	U
~~106-46-7~~	~~1,4-Dichlorobenzene~~		

085

EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

~~N4VB~~VSPK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: N4V3331VS

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C6843

Level: (low/med) MED Date Received: 03-04-94

% Moisture: not dec. NA Date Analyzed: 03-04-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS; (ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	5170	
74-83-9	Bromomethane	5500	
75-01-4	Vinyl Chloride	5610	
75-00-3	Chloroethane	5640	
75-09-2	Methylene Chloride	5760	
67-64-1	Acetone	8560	
75-15-0	Carbon Disulfide	5680	
75-35-4	1,1-Dichloroethene	5850	
75-34-3	1,1-Dichloroethane	5910	
540-59-0	1,2-Dichloroethene (total)	11790	
67-66-3	Chloroform	6160	
107-06-2	1,2-Dichloroethane	6120	
78-93-3	2-Butanone	8210	
71-55-6	1,1,1-Trichloroethane	5150	
56-23-5	Carbon Tetrachloride	5550	
75-27-4	Bromodichloromethane	6065	
78-87-5	1,2-Dichloropropane	6050	
10061-01-5	cis-1,3-Dichloropropene	5500	
79-01-6	Trichloroethene	5790	
124-48-1	Dibromochloromethane	5940	
79-00-5	1,1,2-Trichloroethane	6020	
71-43-2	Benzene	5880	
10061-02-6	trans-1,3-Dichloropropene	6110	
75-25-2	Bromoform	5770	
108-10-1	4-Methyl-2-Pentanone	5560	
591-78-6	2-Hexanone	5180	
127-18-4	Tetrachloroethene	5710	
79-34-5	1,1,2,2-Tetrachloroethane	5970	
108-88-3	Toluene	5900	
108-90-7	Chlorobenzene	5670	
100-41-4	Ethylbenzene	5900	
100-42-5	Styrene	5960	
1330-20-7	Xylene (total)	17600	
~~106-46-7~~	~~1,4 Dichlorobenzene~~ SS		

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01 MS

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970VS

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C7176

Level: (low/med) MED Date Received:

% Moisture: not dec. NA Date Analyzed: 03-30-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	7000	
74-83-9	Bromomethane	7630	
75-01-4	Vinyl Chloride	8020	
75-00-3	Chloroethane	2540	
75-09-2	Methylene Chloride	7000	
67-64-1	Acetone	6350	
75-15-0	Carbon Disulfide	5830	
75-35-4	1,1-Dichloroethene	3630	
75-34-3	1,1-Dichloroethane	7400	
540-59-0	1,2-Dichloroethene (total)	14900	
67-66-3	Chloroform	7290	
107-06-2	1,2-Dichloroethane	7370	
78-93-3	2-Butanone	5370	
71-55-6	1,1,1-Trichloroethane	7300	
56-23-5	Carbon Tetrachloride	7130	
75-27-4	Bromodichloromethane	6820	
78-87-5	1,2-Dichloropropane	7170	
10061-01-5	cis-1,3-Dichloropropene	6940	
79-01-6	Trichloroethene	7190	
124-48-1	Dibromochloromethane	6570	
79-00-5	1,1,2-Trichloroethane	6750	
71-43-2	Benzene	7030	
10061-02-6	trans-1,3-Dichloropropene	7170	
75-25-2	Bromoform	6620	
108-10-1	4-Methyl-2-Pentanone	6930	
591-78-6	2-Hexanone	6630	
127-18-4	Tetrachloroethene	6810	
79-34-5	1,1,2,2-Tetrachloroethane	6360	
108-88-3	Toluene	7100	
108-90-7	Chlorobenzene	6950	
100-41-4	Ethylbenzene	6800	
100-42-5	Styrene	7110	
1330-20-7	Xylene (total)	21300	
~~106-46-7~~	~~1,4 Dichlorobenzene~~ SS		

087

EPA SAMPLE NO.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLJ-DG-01 MSD

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970UR

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C7177

Level: (low/med) MED Date Received: _____

% Moisture: not dec. NA Date Analyzed: 03-30-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	8460	
74-83-9	Bromomethane	7820	
75-01-4	Vinyl Chloride	8160	
75-00-3	Chloroethane	7610	
75-09-2	Methylene Chloride	7350	
67-64-1	Acetone	7700	
75-15-0	Carbon Disulfide	5150	
75-35-4	1,1-Dichloroethene	3860	
75-34-3	1,1-Dichloroethane	7710	
540-59-0	1,2-Dichloroethene (total)	15300	
67-66-3	Chloroform	7540	
107-06-2	1,2-Dichloroethane	7850	
78-93-3	2-Butanone	~~7700~~ 6690	
71-55-6	1,1,1-Trichloroethane	7320	
56-23-5	Carbon Tetrachloride	7090	
75-27-4	Bromodichloromethane	6680	
78-87-5	1,2-Dichloropropane	7680	
10061-01-5	cis-1,3-Dichloropropene	6330	
79-01-6	Trichloroethene	6840	
124-48-1	Dibromochloromethane	6610	
79-00-5	1,1,2-Trichloroethane	6720	
71-43-2	Benzene	7150	
10061-02-6	trans-1,3-Dichloropropene	7200	
75-25-2	Bromoform	6480	
108-10-1	4-Methyl-2-Pentanone	7680	
591-78-6	2-Hexanone	7520	
127-18-4	Tetrachloroethene	6790	
79-34-5	1,1,2,2-Tetrachloroethane	6980	
108-88-3	Toluene	7250	
108-90-7	Chlorobenzene	6840	
100-41-4	Ethylbenzene	6810	
100-42-5	Styrene	6880	
1330-20-7	Xylene (total)	20800	
~~106-46-7~~	~~1,4 Dichlorobenzene~~		

088

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CLJ-DG-01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: JM3970V

Sample wt/vol: 4.00 (g/mL) g Lab File ID: >C7175

Level: (low/med) MED Date Received: _____

% Moisture: not dec. NA Date Analyzed: 03-30-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	625	U
74-83-9	Bromomethane	195	J
75-01-4	Vinyl Chloride	625	U
75-00-3	Chloroethane	625	U
75-09-2	Methylene Chloride	625	U
67-64-1	Acetone	625	U
75-15-0	Carbon Disulfide	625	U
75-35-4	1,1-Dichloroethene	625	U
75-34-3	1,1-Dichloroethane	625	U
540-59-0	1,2-Dichloroethene (total)	625	U
67-66-3	Chloroform	625	U
107-06-2	1,2-Dichloroethane	625	U
78-93-3	2-Butanone	1250	U
71-55-6	1,1,1-Trichloroethane	625	U
56-23-5	Carbon Tetrachloride	625	U
75-27-4	Bromodichloromethane	625	U
78-87-5	1,2-Dichloropropane	625	U
10061-01-5	cis-1,3-Dichloropropene	625	U
79-01-6	Trichloroethene	625	U
124-48-1	Dibromochloromethane	625	U
79-00-5	1,1,2-Trichloroethane	625	U
71-43-2	Benzene	625	U
10061-02-6	trans-1,3-Dichloropropene	625	U
75-25-2	Bromoform	625	U
108-10-1	4-Methyl-2-Pentanone	1250	U
591-78-6	2-Hexanone	625	U
127-18-4	Tetrachloroethene	625	U
79-34-5	1,1,2,2-Tetrachloroethane	625	U
108-88-3	Toluene	625	U
108-90-7	Chlorobenzene	625	U
100-41-4	Ethylbenzene	625	U
100-42-5	Styrene	625	U
1330-20-7	Xylene (total)	625	U
~~106-46-7~~	~~1,4 Dichlorobenzene~~ SE		

EPA SAMPLE NO.

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLJ-DG-01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: JM3770V

Sample wt/vol: 4.50 (g/mL) g Lab File ID: >C7175

Level: (low/med) MED Date Received: _____

% Moisture: not dec. NA Date Analyzed: 03-30-94

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 50

Soil Extract Volume: 10,000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	95636	1,2,4-Trimethylbenzene	22.67	1300	
2.	NA	Unknown Hydrocarbon	21.99	3290	
3.	NA	Unknown Hydrocarbon	19.06	1440	
4.	NA	Unknown Hydrocarbon	23.41	787	
5.	NA	Unknown	24.08	786	
6.	NA	Unknown Hydrocarbon	23.18	595	
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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

090

Lab Name: ASC Contract: NEESG

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK01	92.4	96.9	95.2	NA	0
02	VSPK01	93.9	94.7	100	NA	0
03	CLJ-DG-01	97.1	96.2	98.6	NA	0
04	CLJ-DG-01MS	95.6	98.3	106	NA	0
05	CLJ-DG-01MSD	~~98.95.6~~	98.0	110	NA	0
06		97.1				
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

091

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: CLJ-BG-01 MS Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	6250	~~96~~ ND	3630	58.1 *	59-172
Trichloroethene	6250	ND	7190	115	62-137
Benzene	6250	ND	7030	112	66-142
Toluene	6250	ND	7160	114	59-139
Chlorobenzene	6250	ND	6950	111	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	6250	3860	61.8	6.04	22	59-172
Trichloroethene	6250	6840	109	4.95	24	62-137
Benzene	6250	7150	114	1.73	21	66-142
Toluene	6250	7250	116	1.23	21	59-139
Chlorobenzene	6250	6840	109	1.50	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: ~~0~~ 1 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Lab File ID: >C6842 Lab Sample ID: N4V3331V

Date Analyzed: 03-04-94 Time Analyzed: 1515

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: MSD-C

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VSPK01	N4V3331VS	>C6843	1603
02	CLJ-DG-01	JM3970V	>C7175	1412
03	CLJ-DG-01MS	JM3970US	>C7176	1458
04	CLJ-DG-01MSD	JM3970UR	>C7177	1538
05	CLJ-DG-01	JM3970J	>C6844	1638
06				
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10				
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COMMENTS:

page __ of __

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Lab File ID: >C6533 BFB Injection Date: 2/10/94

Instrument ID: MSD-C BFB Injection Time: 0731

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	~~22.10~~ 23.5	
75	30.0 - 66.0% of mass 95	~~44.47~~ 46.3	
95	Base peak, 100% relative abundance	100.00	
96	5.0 - 9.0% of mass 95	~~6.37~~ 7.2	
173	Less than 2.0% of mass 174	0.00 (0.00)1	
174	50.0 - 120.0% of mass 95	~~69.56~~ 72.6	
175	4.0 - 9.0 % of mass 174	4.41 (~~6.34~~)1	7.2
176	93.0 - 101.0% of mass 174	68.73 (~~98.81~~)1	98.0
177	5.0 - 9.0% of mass 176	4.49 (~~6.53~~)2	6.6

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CALIB #1	>C6535	2-10-94	0835
02		CALIB #2	>C6536	2-10-94	0911
03		CALIB #3	>C6537	2-10-94	0948
04		CALIB #4	>C6538	2-10-94	1024
05		CALIB #5	>C6539	2-10-94	1100
06		WATER BLANK	>C6534	2-10-94	0749
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Lab File ID: >C6829 BFB Injection Date: 3-4-94

Instrument ID: MSD-C BFB Injection Time: 0737

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.98
75	30.0 - 66.0% of mass 95	45.31
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.16
173	Less than 2.0% of mass 174	0.00 (0.00) 1
174	50.0 - 120.0% of mass 95	68.83
175	4.0 - 9.0 % of mass 174	5.07 (7.36) 1
176	93.0 - 101.0% of mass 174	68.09 (98.92) 1
177	5.0 - 9.0% of mass 176	4.23 (6.22) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CHK. STD.	>C6830	3-4-94	0756
02	VBLK01	N4V3331V	>C6842	3-4-94	1515
03	VSPK01	N4V3331VS	>C6843	3-4-94	1603
04	CLSDG-01	JM3970V	>C6844	3-4-94	1638
05					
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ASC Contract: NE250

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Lab File ID: >C7167 BFB Injection Date: 3-30-94

Instrument ID: MSD-C BFB Injection Time: 0729

GC Column: DB 624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.74
75	30.0 - 66.0% of mass 95	44.81
95	Base peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.80
173	Less than 2.0% of mass 174	0.21 (0.21)1
174	50.0 - 120.0% of mass 95	69.46
175	4.0 - 9.0 % of mass 174	5.35 (7.71)1
176	93.0 - 101.0% of mass 174	67.47 (97.14)1
177	5.0 - 9.0% of mass 176	5.11 (7.58)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CHK. STD.	>C7168	3-30-94	0752
02	CLJ-DG-01	JM3970U	>C7175	3-30-94	1412
03	CLJ-DG-01MS	JM3970US	>C7176	3-30-94	1458
04	CLJ-DG-01MSD	JM3970UR	>C7177	3-30-94	1538
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: CLJ-CSS-01

Instrument ID: MSD-C Calibration Date(s): 2-10-94 2/10/94

Heated Purge: (Y/N) N Calibration Times: 0835 1100

GC Column: DB624 ID: 0.53 (mm)

LAB FILE ID: RRF10 = C6535 RRF20 = C6536
RRF50 = C6537 RRF100 = C6538 RRF200 = C6539

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	0.941	1.05	1.01	1.02	1.07	1.02	4.85
Bromomethane	* 1.26	1.27	1.20	1.13	1.16	1.21	4.95 *
Vinyl Chloride	* 1.14	1.20	1.24	1.23	1.24	1.21	3.51 *
Chloroethane	0.681	0.704	0.608	0.541	0.538	0.614	12.5
Methylene Chloride	1.35	1.41	1.31	1.28	1.27	1.32	4.17
Acetone	0.402	0.384	0.349	0.285	0.291	0.343	15.9
Carbon Disulfide	3.52	3.82	3.61	3.54	3.58	3.61	3.34
1,1-Dichloroethene	* 1.10	1.26	1.26	1.21	1.22	1.21	5.38 *
1,1-Dichloroethane	* 2.48	2.77	2.67	2.65	2.65	2.64	4.02 *
trans 1,2-Dichloroethene ~~(total)~~	1.23	1.39	1.31	1.30	1.31	1.31	4.32
Chloroform	* 2.69	2.49	2.41	2.85	2.87	2.86	3.78 *
1,2-Dichloroethane	* 1.81	2.12	2.03	2.09	2.09	2.03	6.17 *
2-Butanone		0.0174	0.0214	0.0209	0.0203	0.0200	8.88
1,1,1-Trichloroethane	* 0.594	0.645	0.597	0.561	0.560	0.591	5.88 *
Carbon Tetrachloride	* 0.570	0.639	0.600	0.568	0.578	0.591	5.04 *
Bromodichloromethane	* 0.732	0.816	0.836	0.827	0.810	0.804	5.18 *
1,2-Dichloropropane	0.403	0.442	0.444	0.438	0.427	0.431	3.41
cis-1,3-Dichloropropene	* 0.458	0.549	0.547	0.564	0.554	0.534	8.07 *
Trichloroethene	* 0.466	0.492	0.477	0.471	0.462	0.474	2.55 *
Dibromochloromethane	* 0.567	0.645	0.672	0.673	0.651	0.641	6.80 *
1,1,2-Trichloroethane	* 0.301	0.334	0.331	0.328	0.301	0.319	5.22 *
Benzene	* 0.937	0.981	0.980	0.940	0.923	0.952	2.80 *
trans-1,3-Dichloropropene	* 0.291	0.349	0.358	0.369	0.352	0.344	8.85 *
Bromoform	* 0.440	0.509	0.538	0.538	0.516	0.508	7.94 *
4-Methyl-2-Pentanone	0.112	0.125	0.139	0.133	0.130	0.128	8.15
2-Hexanone	0.396	0.324	0.388	0.373	0.377	0.372	7.57
Tetrachloroethene	* 0.537	0.573	0.582	0.575	0.563	0.566	3.08 *
1,1,2,2-Tetrachloroethane	* 0.771	0.840	0.857	0.833	0.794	0.819	4.31 *
Toluene	* 0.647	0.718	0.734	0.750	0.748	0.720	5.92 *
Chlorobenzene	* 1.05	1.11	1.11	1.10	1.08	1.09	2.16 *
Ethylbenzene	* 0.399	0.448	0.450	0.442	0.437	0.435	4.60 *
Styrene	* 0.753	0.875	0.906	0.919	0.912	0.873	7.93 *
Xylene ~~(total)~~ m+p	* 0.551	0.598	0.607	0.581	0.574	0.582	3.75 *
Toluene-d8	0.986	1.02	1.13	1.10	1.10	1.07	5.67
Bromofluorobenzene	* 1.02	1.00	1.09	1.03	1.03	1.04	3.39 *
1,2-Dichloroethane-d4	1.64	1.80	1.86	1.85	1.83	1.79	5.10
o-Xylene	0.548	0.606	0.644	0.614	0.611	0.605	5.78
cis-1,2-Dichloroethene	1.26	1.47	1.39	1.40	1.41	1.38	5.57

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Instrument ID: MSD-C Calibration Date(s): ~~3-18-94~~ 3-09-94

Heated Purge: (Y/N) N Calibration Times: _____ 1551

GC Column: DB-624 ID: 0.53 (mm)

LAB FILE ID: RRF10 = >C6920 RRF20 = >C6921
RRF50 = >C6922 RRF100= >C6923 RRF200= >C6924

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	.84438	.75828	.81895	.78686	.68082	.77786	8.13
* Bromomethane	1.27453	1.32558	1.21197	1.12988	1.15969	1.22033	6.60 *
* Vinyl Chloride	1.13178	1.19371	1.12481	1.19037	1.23906	1.20077	3.88 *
Chloroethane	.74298	.74524	.67557	.57739	.59151	.66658	12.0
Methylene Chloride	1.44998	1.28710	1.31039	1.26031	1.27506	1.31656	5.83
Acetone	.25635	.29533	.33342	.28891	.40101	.31500	17.6
Carbon Disulfide	3.60995	3.52286	3.62801	3.57113	3.60667	3.58762	1.16
* 1,1-Dichloroethene	1.25740	1.20674	1.27283	1.23417	1.23350	1.24093	2.04 *
* 1,1-Dichloroethane	2.88127	2.66223	2.70171	2.61428	2.67977	2.70185	3.77 *
1,2-Dichloroethene (~~total~~ Trans)	1.38319	1.32174	1.34829	1.27796	1.28376	1.32299	3.34
* Chloroform	3.14479	3.02114	3.04497	2.90320	2.94268	3.01136	3.13 *
* 1,2-Dichloroethane	2.25196	2.12287	2.17083	2.06770	2.12648	2.14797	3.20 *
2-Butanone	.00816	.01142	.01833	.01866	.02973	.01726	48.1
* 1,1,1-Trichloroethane	.56643	.52267	.54141	.54601	.56072	.54745	3.15 *
* Carbon Tetrachloride	.51839	.48940	.51739	.51442	.52999	.51392	2.90 *
* Bromodichloromethane	.64796	.62167	.66328	.67923	.72635	.66770	5.85 *
1,2-Dichloropropane	.44754	.41344	.42943	.43042	.44290	.43275	3.08
* cis-1,3-Dichloropropene	.53005	.51493	.54122	.55426	.58241	.54457	4.70 *
* Trichloroethene	.44134	.40896	.41198	.41590	.42364	.42036	3.08 *
* Dibromochloromethane	.48445	.49435	.55330	.57618	.60729	.54311	9.72 *
* 1,1,2-Trichloroethane	.31978	.30119	.30679	.30710	.31431	.30983	2.34 *
* Benzene	.96682	.89910	.91483	.90865	.93077	.92403	2.873 *
* trans-1,3-Dichloropropene	.35319	.33434	.37007	.37969	.39700	.36686	6.58 *
* Bromoform	.33859	.36438	.41228	.43914	.46993	.40486	13.2 *
4-Methyl-2-Pentanone	.09827	.10148	.10795	.11021	.11390	.10636	6.01
2-Hexanone	—	.37664	.44705	.35495	.41153	.40004	9.74
* Tetrachloroethene	.60389	.54142	.56174	.53375	.52334	.55383	6.11 *
* 1,1,2,2-Tetrachloroethane	.52067	.50726	.52540	.51785	.53571	.52138	2.80 *
* Toluene	—	.81260	.81269	.79008	.79946	.80371	1.370 *
* Chlorobenzene	1.15442	1.03467	1.03457	1.01148	.99338	1.04650	5.96 *
* Ethylbenzene	.51625	.48319	.49517	.47242	.47195	.48780	3.80 *
* Styrene	.92687	.88662	.94074	.93718	.95800	.92988	2.87 *
* Xylene (~~total~~) m+p	.69476	.61407	.61476	.58523	.58703	.61917	7.20 *
Toluene-d8	1.12420	1.12776	1.17365	1.14749	1.15003	1.14463	1.74
Bromofluorobenzene	.97384	.98265	1.01429	.99637	.98211	.98985	1.604 *
1,2-Dichloroethane-d4	1.69066	1.85315	1.93102	1.84121	1.78315	1.81984	4.91

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

O-Xylene	.60927	.56942	.58180	.56962	.55156	.57622	3.71
1-2-Cis-Dichloro ethene ~~propene~~	1.65744	1.45361	1.47631	1.3744	1.38202	1.46876	7.79

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: DEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Instrument ID: MSD-C Calibration Date: 3-4-94 Time: 0756

Lab File ID: >C6830 Init. Calib. Date(s): 2-11-94 Ø

Heated Purge: (Y/N) N Init. Calib. Times: 0740 _____

GC Column: DB 624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.01815	.97847		3.90	
Bromomethane	1.20609	1.14077	0.100	5.42	25.0
Vinyl Chloride	1.21107	1.21489	0.100	.32	25.0
Chloroethane	.61459	.58000		5.63	
Methylene Chloride	1.32361	1.49354		12.84	
Acetone	.34378	.24873		27.65	
Carbon Disulfide	3.61389	3.68496		2.24	
1,1-Dichloroethene	1.21109	1.31683	0.100	8.73	25.0
1,1-Dichloroethane	2.64203	2.90292	0.200	9.87	25.0
1,2-Dichloroethene (~~total~~) trans	1.31050	1.44266		10.09	
Chloroform	2.86122	3.09015	0.200	8.00	25.0
1,2-Dichloroethane	2.03025	2.26321	0.100	11.47	25.0
2-Butanone	0.02001	0.01595		20.27	
1,1,1-Trichloroethane	.59137	.69366	0.100	17.30	25.0
Carbon Tetrachloride	.54039	.66488	0.100	12.52	25.0
Bromodichloromethane	.86395	.85428	0.200	6.26	25.0
1,2-Dichloropropane	.43064	.46505		7.99	
cis-1,3-Dichloropropene	.53423	.59477	0.200	11.33	25.0
Trichloroethene	.47353	.50736	0.300	7.14	25.0
Dibromochloromethane	.64146	.68674	0.100	7.06	25.0
1,1,2-Trichloroethane	.31844	.33616	0.100	5.40	25.0
Benzene	.95207	1.04309	0.500	9.56	25.0
trans-1,3-Dichloropropene	.34401	.38216	0.100	11.09	25.0
Bromoform	.50829	.55703	0.100	9.54	25.0
4-Methyl-2-Pentanone	.12775	.15451		20.94	
2-Hexanone	.37150	.44293		19.23	
Tetrachloroethene	.56613	.60395	0.200	6.68	25.0
1,1,2,2-Tetrachloroethane	.81895	.90082	0.500	10.00	25.0
Toluene	.71975	.80267	0.400	11.52	25.0
Chlorobenzene	1.08953	1.17154	0.500	7.53	25.0
Ethylbenzene	.43539	.49076	0.100	12.72	25.0
Styrene	.87327	.99253	0.300	13.66	25.0
Xylene (~~total~~) m&p	.58211	.63415	0.300	8.94	25.0
Toluene-d8	1.06623	1.24187		16.47	
Bromofluorobenzene	1.03532	1.24550	0.200	20.30	25.0
1,2-Dichloroethane-d4	1.79458	2.08420		16.14	

All other compounds must meet a minimum RRF of 0.010.

1,2-cis-dichloroethene 1.38445 1.55222 12.12

o-Xylene .60460 .64397 6.52

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Instrument ID: MSD-C Calibration Date: 3-30-94 Time: 0752

Lab File ID: >C7168 Init. Calib. Date(s): 3-9-94 _____

Heated Purge: (Y/N) N Init. Calib. Times: 15:51 _____

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.62278	0.74934		20.32	
Bromomethane	1.03267	1.02474	0.100	0.77	25.0
Vinyl Chloride	1.06490	1.04129	0.100	2.22	25.0
Chloroethane	0.53161	0.52804		0.67	
Methylene Chloride	1.31321	1.10017		16.22	
Acetone	0.71227	0.41738		41.4	
Carbon Disulfide	3.20737	2.58617		19.37	
1,1-Dichloroethene	1.14807	0.96896	0.100	15.60	25.0
1,1-Dichloroethane	2.51342	2.14578	0.200	14.63	25.0
1,2-Dichloroethene (~~total~~) Trans	1.22729	1.02622		16.38	
Chloroform	2.87080	2.55897	0.200	10.86	25.0
1,2-Dichloroethane	2.21355	1.91493	0.100	13.49	25.0
2-Butanone	0.05331	0.03375		37.29	
1,1,1-Trichloroethane	0.57394	0.49344	0.100	14.03	25.0
Carbon Tetrachloride	0.49874	0.47675	0.100	4.41	25.0
Bromodichloromethane	0.68166	0.59595	0.200	12.57	25.0
1,2-Dichloropropane	0.43658	0.38577		11.64	
cis-1,3-Dichloropropene	0.56582	0.53829	0.200	4.87	25.0
Trichloroethene	0.41549	0.41334	0.300	0.52	25.0
Dibromochloromethane	0.60869	0.57868	0.100	4.93	25.0
1,1,2-Trichloroethane	0.35755	0.33616	0.100	5.98	25.0
Benzene	0.91676	0.82169	0.500	10.37	25.0
trans-1,3-Dichloropropene	0.40454	0.38292	0.100	5.34	25.0
Bromoform	0.55570	0.52038	0.100	6.37	25.0
4-Methyl-2-Pentanone	0.25490	0.21726		14.77	
2-Hexanone	0.95081	0.71610		24.60	
Tetrachloroethene	0.54171	0.50594	0.200	6.60	25.0
1,1,2,2-Tetrachloroethane	1.04642	0.89974	0.500	14.02	25.0
Toluene	0.82470	0.72026	0.400	12.66	25.0
Chlorobenzene	1.02446	0.93861	0.500	8.38	25.0
Ethylbenzene	0.47312	0.43682	0.100	7.65	25.0
Styrene	0.91444	0.85440	0.300	6.57	25.0
Xylene (~~total~~) M+P	0.57999	0.54622	0.300	7.42	25.0
Toluene-d8	1.12115	1.21860		8.69	
Bromofluorobenzene	0.99200	1.04219	0.200	5.06	25.0
1,2-Dichloroethane-d4	1.90019	1.90364		0.18	

All other compounds must meet a minimum RRF of 0.010.

1,2-Dichloroethene, cis 1.32913 1.11847 15.25
Xylene, O- 0.56577 0.52303 7.55

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Lab File ID (Standard): >66830 Date Analyzed: 3-4-94

Instrument ID: MSD-C Time Analyzed: 0756

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	20345	8.41	74003	10.52	57816	16.92
	UPPER LIMIT	40690	8.91	148006	11.02	115632	17.42
	LOWER LIMIT	10172	7.91	37002	10.02	28908	16.42
	EPA SAMPLE NO.						
01	VBLK01	22522	8.36	82584	10.47	65651	16.88
02	VSPK01	23274	8.41	85940	10.50	66618	16.90
03	CLJ-DG-01	11769	8.41	71301	10.49	57984	16.91
04							
05							
06							
07							
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19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page __ of __

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ASC Contract: NEESA

Lab Code: NA Case No.: NA SAS No.: _____ SDG No.: _____

Lab File ID (Standard): XC7168 Date Analyzed: 3-30-94

Instrument ID: MSD-C Time Analyzed: 0752

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	35698	9.70	138972	11.83	104651	18.33
UPPER LIMIT	71396	10.20	277944	12.33	209302	18.83
LOWER LIMIT	17849	9.20	69486	11.33	523255	17.83
EPA SAMPLE NO.						
01 CLJ-DG-01	25174	9.70	101775	11.83	67312	18.30
02 CLJ-DG-01MS	~~25~~ ~~30~~ 28333	9.73	116092	11.84	88848	18.33
03 CLJ-DG-01MSD	24535	9.72	104013	11.85	77332	18.33
04						
05						
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17						
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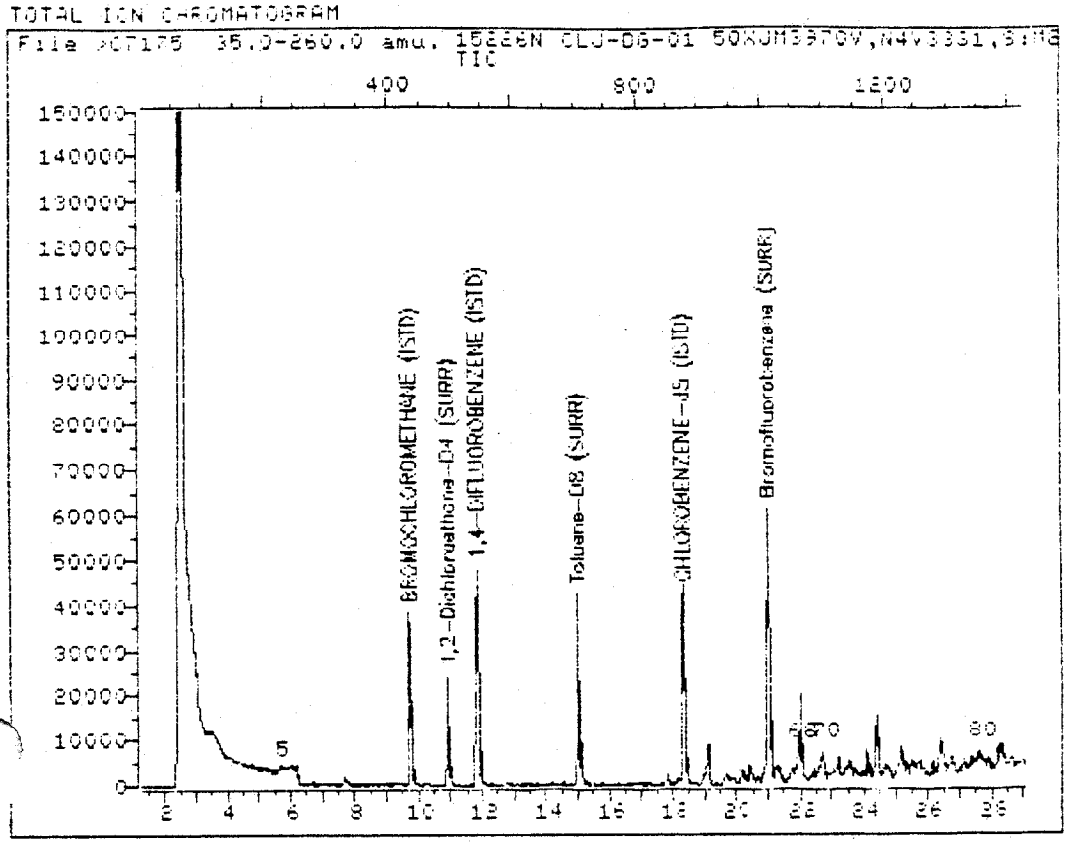
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

TOTAL ION CHROMATOGRAM



Data File: >C7175::D5 Quant Output File: ^C7175::QT
Name: 15226N CLJ-DG-01 50X
Misc: JM3970V,N4V3331,S:M2,2.00,5.00:50, 100ul/5ml

Id File: IC330A::D4
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940330 09:55

Operator ID: STEVE
Quant Time: 940330 14:52
Injected at: 940330 14:12

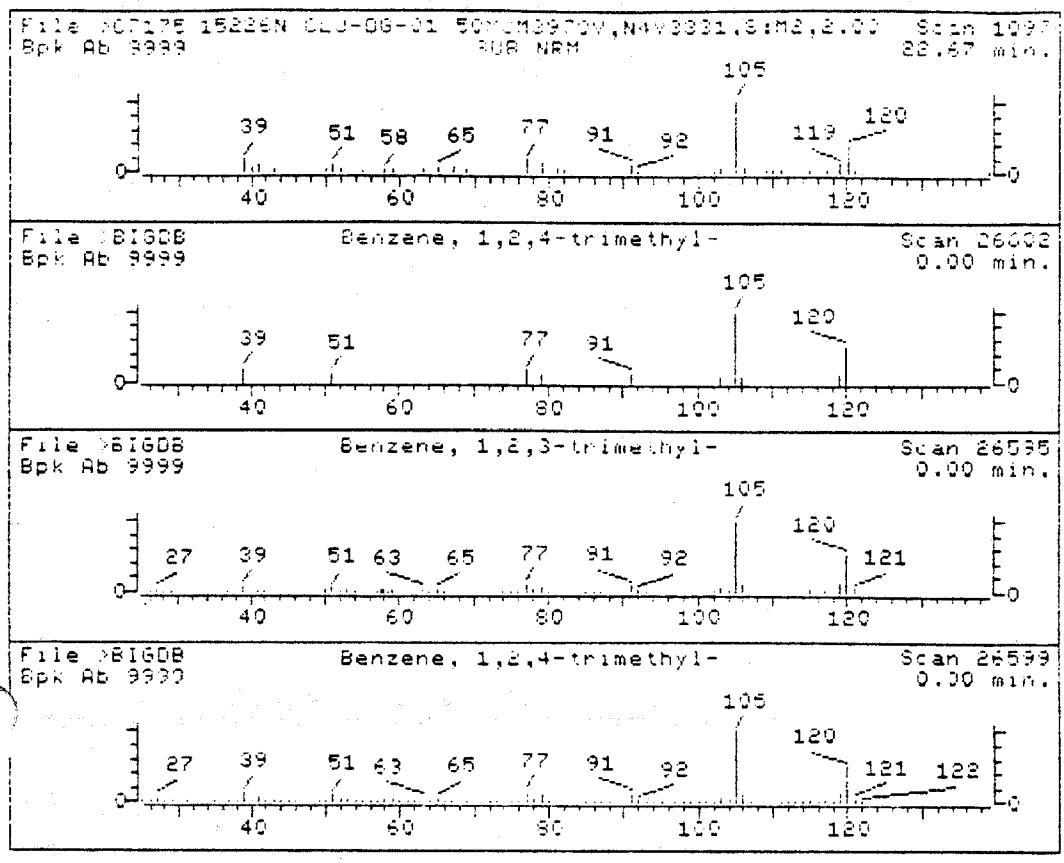
QUANT REPORT

Operator ID: STEVE Quant Rev: 7 Quant Time: 940330 14:52
Output File: ^C7175::QT Injected at: 940330 14:12
Data File: >C7175::D5 Dilution Factor: 1.00000
Name: 15226N CLJ-DG-01 50X
Misc: JM3970V,N4V3331,5:M2,2.00,5.00:50, 100ul/5ml

ID File: IC330A::D4
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940330 09:55

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE (ISTD)	9.70	128.0	25174	50.00	ug/l	91
5)	Methyl bromide	5.60	94.0	807	1.56	ug/l	85
26)	1,2-Dichloroethane-D4 (SURR)	10.89	65.0	47245	49.29	ug/l	84
29)	*1,4-DIFLUOROBENZENE (ISTD)	11.83	114.0	101775	50.00	ug/l	88
48)	*CHLOROBENZENE-d5 (ISTD)	18.30	117.0	67312	50.00	ug/l	92
49)	Toluene-D8 (SURR)	14.99	98.0	79674	48.57	ug/l	86
0)	Bromofluorobenzene (SURR)	20.98	95.0	67478	48.09	ug/l	89
)	1,3,5-Trimethylbenzene	21.91	105.0	4097	2.32	ug/l	79
0)	1,2,4-Trimethylbenzene	22.67	105.0	7466	4.39	ug/l	72
80)	Naphthalene	27.58	128.0	7257	3.66	ug/l	82

* Compound is ISTD

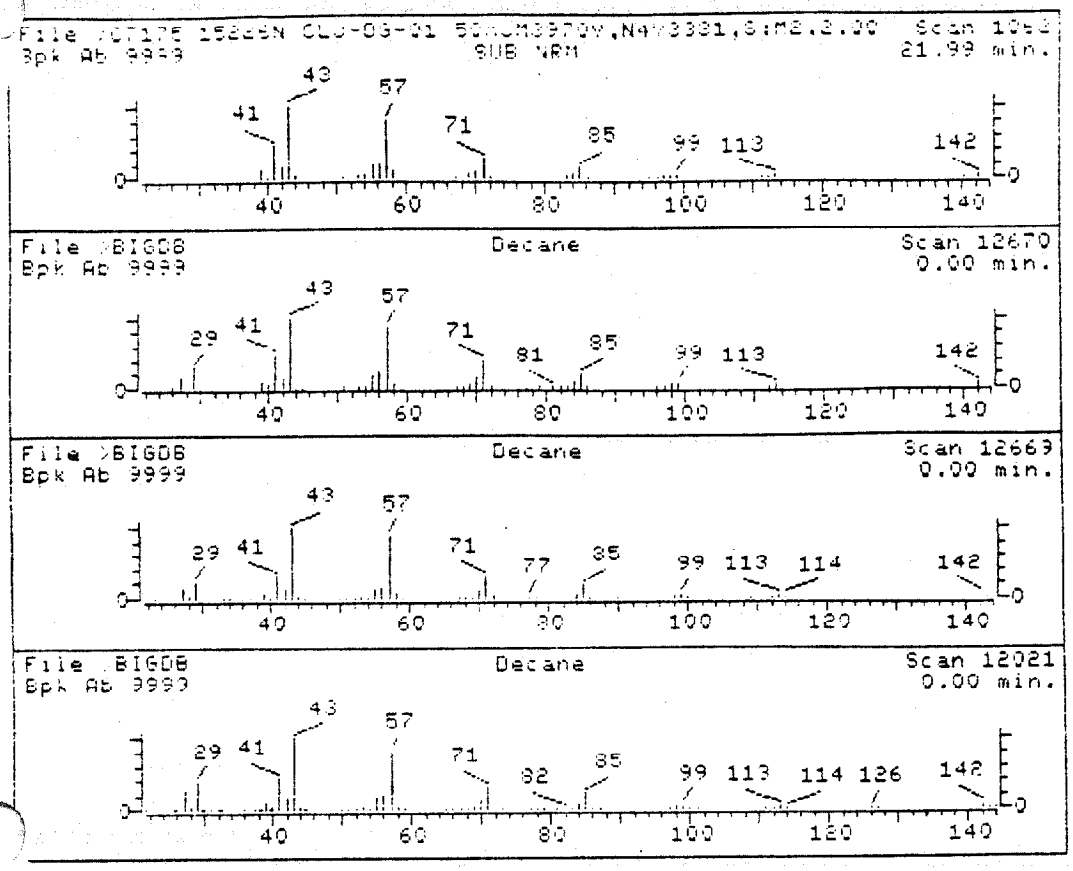


Data File: >C7175::D5
Name: 15226N CLJ-DG-01 50%
Misc Data: JM3970V,N4V3331,S:M2,2.00,5.00:50, 100ul/5ml
RT (min): 22.67
Scan: 1097
Area: 51693 Rank: 10
Semi-quantitative Conc (uncorrected): 10.44 ug/l
Semi-quantitative Conc (corrected): 261.03 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

1. Benzene, 1,2,4-trimethyl- 120 C9H12
2. Benzene, 1,2,3-trimethyl- 120 C9H12
3. Benzene, 1,2,4-trimethyl- 120 C9H12

Sample file: >C7175 Spectrum #: 1097
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	96*	95636	26602	"BIGDB	66	3	0	0	74	15	64	97
2.	89*	526738	26595	"BIGDB	81	7	1	2	81	9	62	80
3.	84*	95636	26599	"BIGDB	76	16	2	2	87	9	55	60

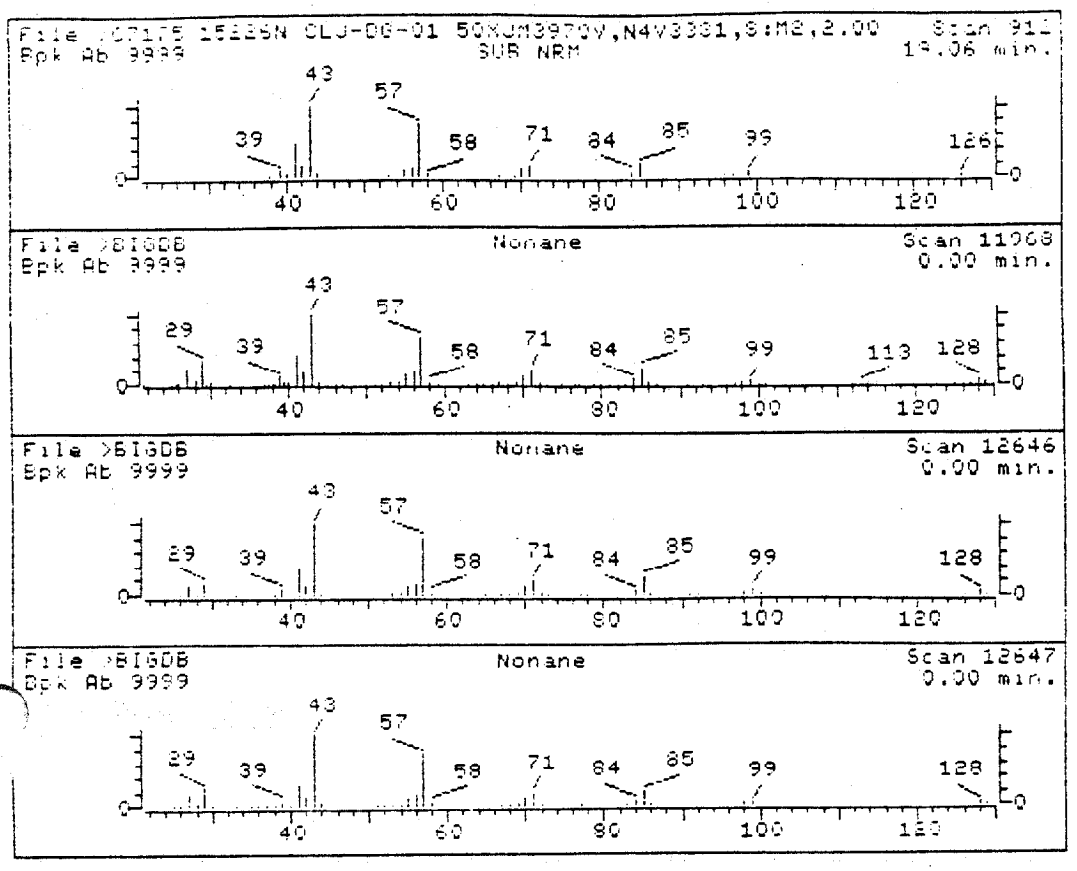


Data File: >C7175::D5
Name: 15226N CLJ-DG-01 50X
Misc Data: JM3970U,N4U3331,S:M2,2.00,5.00:50, 100ul/5ml
RT (min): 21.99
Scan: 1062
Area: 130403 Rank: 5
Semi-quantitative Conc (uncorrected): 26.34 ug/l
Semi-quantitative Conc (corrected): 658.48 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

1. Decane 142 C10H22
2. Decane 142 C10H22
3. Decane 142 C10H22

Sample file: >C7175 Spectrum #: 1062
Search speed: 2 Tilting option: S No. of ion ranges searched: 59

	Prob.	CAS #	CON #	ROOT	K	OK	#FLG	TILT	%	CON	C_I	R_IU
1.	94*	124185	12670	"BIGDB	78	21	0	0	65	8	68	93
2.	93*	124185	12669	"BIGDB	74	19	0	0	89	6	68	92
3.	81	124185	12021	"BIGDB	83	14	1	0	77	10	53	45

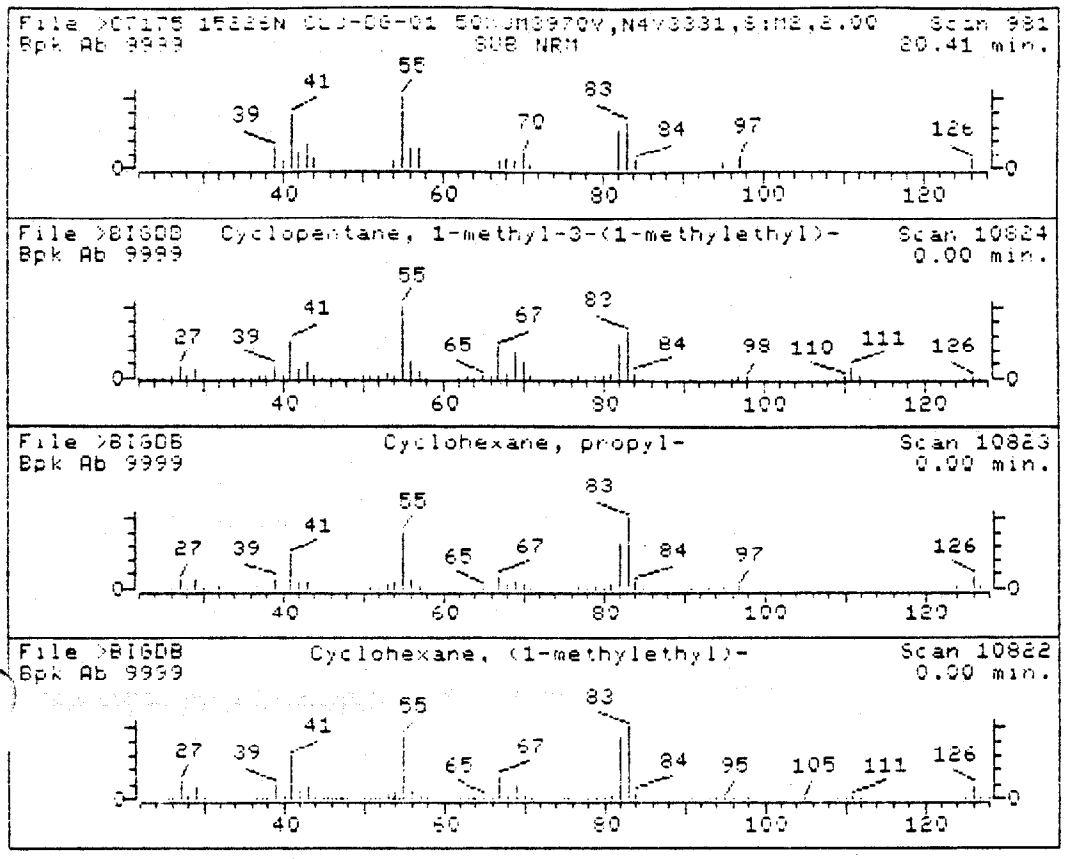


Data File: >C7175::D5
Name: 15226N CLJ-DG-01 50X
Misc Data: JM3970U,N4U3331,S:M2,2.00,5.00:50, 100ul/5ml
RT (min): 19.06
Scan: 912
Area: 56621 Rank: 8
Semi-quantitative Conc (uncorrected): 11.44 ug/l
Semi-quantitative Conc (corrected): 285.91 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

1. Nonane 128 C9H20
2. Nonane 128 C9H20
3. Nonane 128 C9H20

Sample file: >C7175 Spectrum #: 912
Search speed: 2 Tilting option: S No. of ion ranges searched: 53

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IU
1.	83	111842	11968	"BIGDB	61	35	2	0	76	3	57	21
2.	78	111842	12646	"BIGDB	54	41	2	0	78	3	55	17
3.	78	111842	12647	"BIGDB	52	40	2	0	85	4	55	17

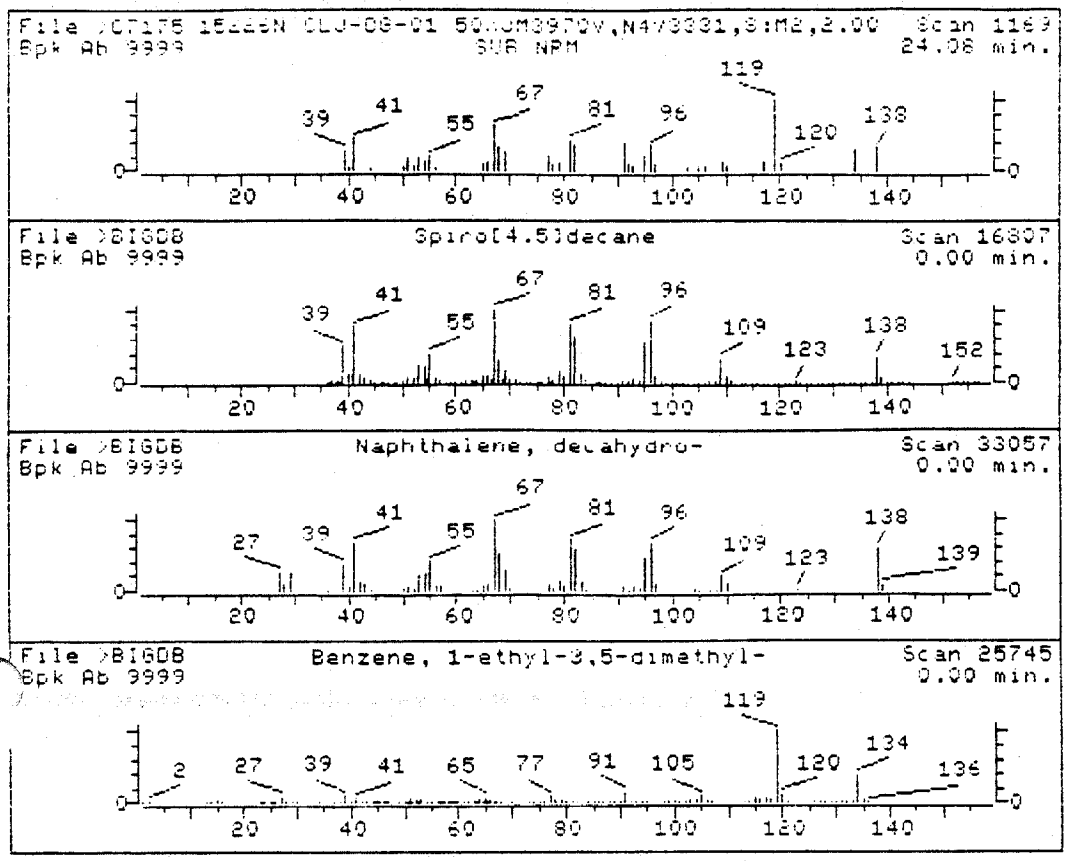


Data File: >C7175::D5
Name: 15226N CLJ-DG-01 50X
Misc Data: JM3970V,N4V3331,S:M2,2.00,5.00:50, 100ul/5ml
RT (min): 20.41
Scan: 981
Area: 31180 Rank: 11
Semi-quantitative Conc (uncorrected): 6.30 ug/l
Semi-quantitative Conc (corrected): 157.45 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

1. Cyclopentane, 1-methyl-3-(1-methylethyl)- 126 C9H18
2. Cyclohexane, propyl- 126 C9H18
3. Cyclohexane, (1-methylethyl)- 126 C9H18

Sample file: >C7175 Spectrum #: 981
arch speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	53771883	10824	"BIGDB	39	63	3	0	100	29	14	13

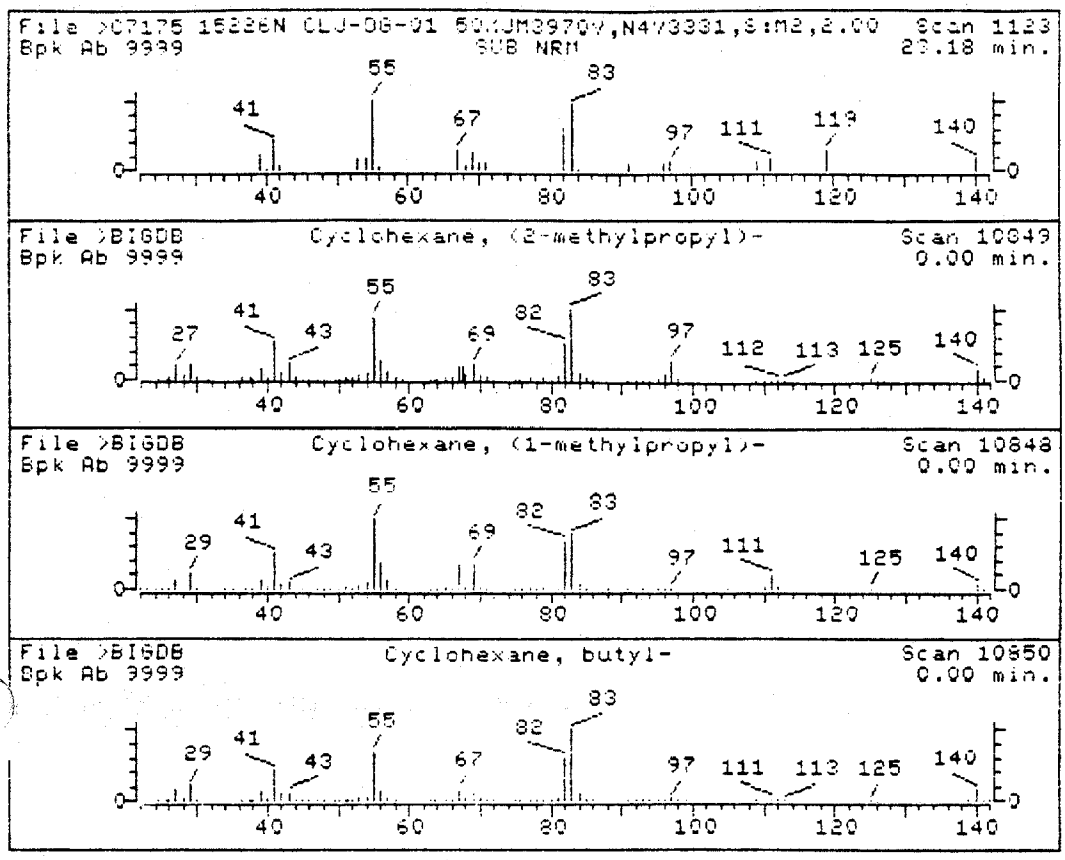


Data File: >C7175::D5
Name: 15226N CLJ-DG-01 50X
Misc Data: JM3970V,N4V3331,S:M2,2.00,5.00:50, 100ul/5ml
RT (min): 24.08
Scan: 1169
Area: 31117 Rank: 12
Semi-quantitative Conc (uncorrected): 6.29 ug/l
Semi-quantitative Conc (corrected): 157.13 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

1. Spiro[4.5]decane 138 C10H18
2. Naphthalene, decahydro- 138 C10H18
3. Benzene, 1-ethyl-3,5-dimethyl- 134 C10H14

Sample file: >C7175 Spectrum #: 1169
Search speed: 2 Tilting option: S No. of ion ranges searched: 48

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	57*	176636	16807	"BIGDB	69	40	2	2	33	35	22	42
2.	56*	91178	33057	"BIGDB	86	38	2	0	50	50	14	66

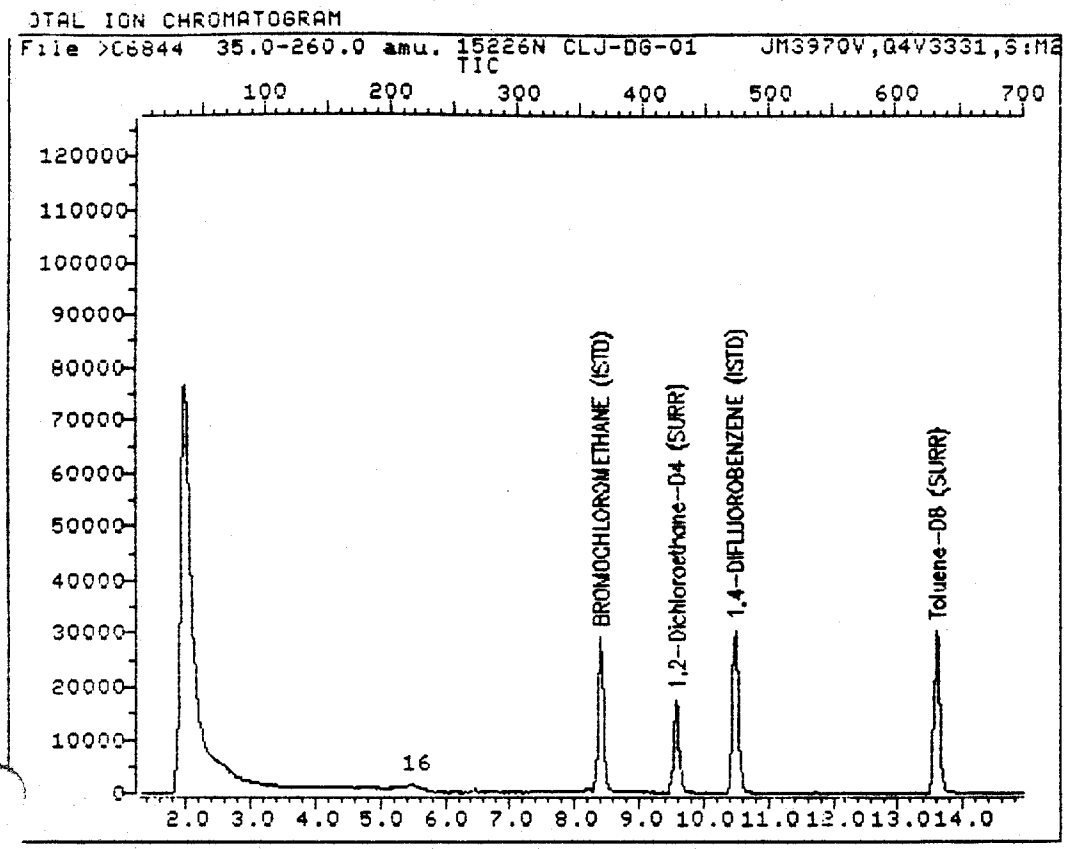


Data File: >C7175::D5
Name: 15226N CLJ-DG-01 50X
Misc Data: JM3970U,N4U3331,S:M2,2.00,5.00:50, 100ul/5ml
RT (min): 23.18
Scan: 1123
Area: 23561 Rank: 14
Semi-quantitative Conc (uncorrected): 4.76 ug/l
Semi-quantitative Conc (corrected): 118.97 ug/kg
Calculated using Istd: CHLOROBENZENE-d5 (ISTD) @ 18.32 minutes

1. Cyclohexane, (2-methylpropyl)- 140 C10H20
2. Cyclohexane, (1-methylpropyl)- 140 C10H20
3. Cyclohexane, butyl- 140 C10H20

Sample file: >C7175 Spectrum #: 1123
Search speed: 2 Tilting option: S No. of ion ranges searched: 49

	Prob.	CAS #	CON #	ROOT	K	DK	#FLG	TILT	%	CON	C_I	R_IV
1.	36*	1678984	10849	"BIGDB	38	67	3	0	94	27	14	13

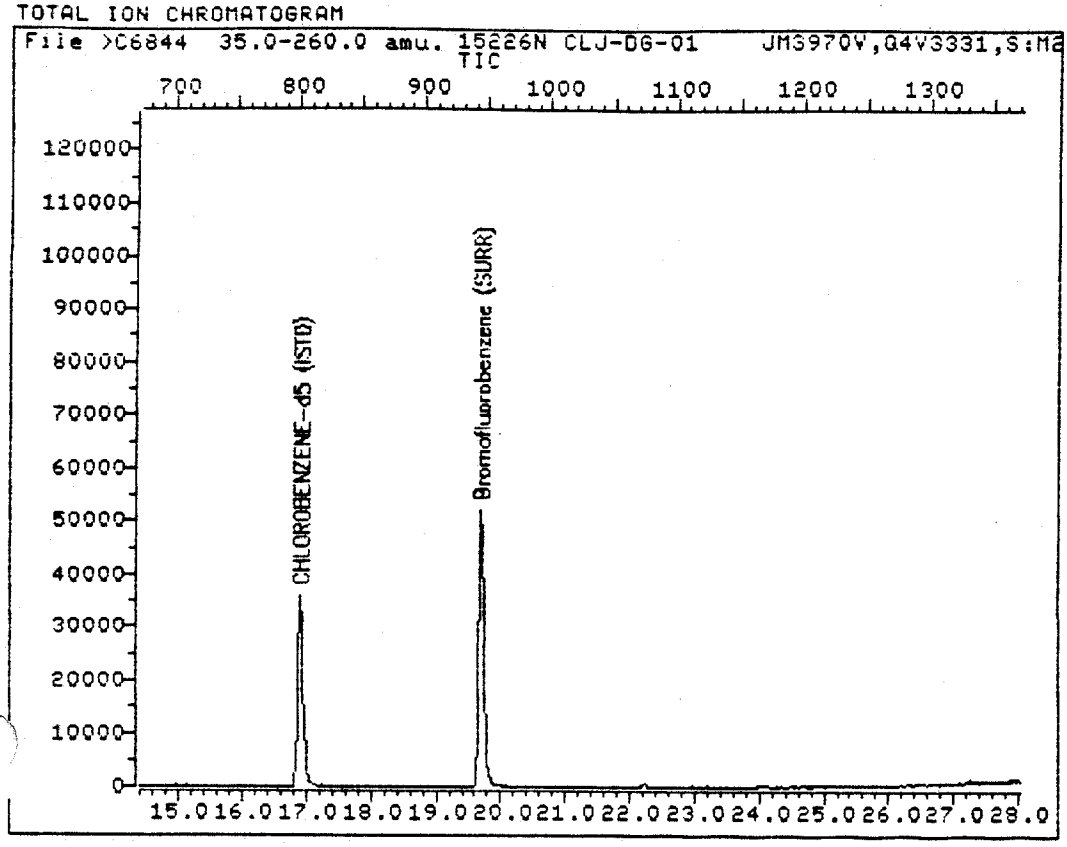


Data File: >C6844::D5 Quant Output File: ^C6844::QT
Name: 15226N CLJ-DG-01
Misc: JM3970V,Q4V3331,S:M2,2.00,5:500000,

Id File: IC304A::D4
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940304 08:54

Operator ID: USERTSC
Quant Time: 940304 17:07
Injected at: 940304 16:38

TOTAL ION CHROMATOGRAM



Data File: >C6844::D5 Quant Output File: ^C6844::QT
Name: 15226N CLJ-DG-01
Misc: JM3970V,Q4V3331,S:M2,2.00,5:500000,

Id File: IC304A::D4
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940304 08:54

Operator ID: USERTSC
Quant Time: 940304 17:07
Injected at: 940304 16:38

QUANT REPORT

Operator ID: USERTSC
Output File: ^C6844::QT
Data File: >C6844::D5
Name: 15226N CLJ-DG-01
Misc: JM3970V,Q4V3331,S:M2,2.00,5:500000,

Quant Rev: 7
Quant Time: 940304 17:07
Injected at: 940304 16:38
Dilution Factor: 1.00000

ID File: IC304A::D4
Title: MSD-C DB624 0.53mmX75m VOLATILE GC/MS
Last Calibration: 940304 08:54

	Compound	R.T.	Q ion	Area	Conc	Units	q
1)	*BROMOCHLOROMETHANE (ISTD)	8.41	128.0	19769	50.00	ug/l	89
16)	Methylene chloride	5.48	84.0	1221	2.07	ug/l	72
26)	1,2-Dichloroethane-D4 (SURR)	9.58	65.0	37614	45.65	ug/l	81
29)	*1,4-DIFLUOROBENZENE (ISTD)	10.49	114.0	71301	50.00	ug/l	88
48)	*CHLOROBENZENE-d5 (ISTD)	16.91	117.0	57989	50.00	ug/l	89
49)	Toluene-D8 (SURR)	13.60	98.0	63057	43.78	ug/l	90
60)	Bromofluorobenzene (SURR)	19.70	95.0	66016	45.70	ug/l	92

* Compound is ISTD

SECTION 6a.

DISPOSAL DECONTAMINATION

WATER SAMPLE (DWW)

Camp Lejeune 15226

QA/QC SUMMARY REPORT

SAMPLE NUMBER	SAMPLE DATE	SAMPLE LOCATION	COC NUMBER	LAB ID	LAB SAMPLE ID	DQO LEVEL	PACKAGE ID	AIRBILL NUMBER
CLJ-DWW-01	2/24/94	12K POOL SAMPLE: BATCH #1	127967	ASC	JM3866	IV	615242	5927355626

DATA SUMMARY REPORT

DATE: 11/02/94

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DWW-01**
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Conventional Data (CV10)		
Cyanide, Total	mg/L	<.010
Oil and Grease	mg/L	16.0
Solids, total suspended	mg/L	56.0
Total Dissolved Solids (TDS)	mg/L	107
pH (Electrode)	std	6.46
Total Pesticide and PCB Analysis, GC, (GS05)		
Aldrin	mg/L	<.0001
Alpha-BHC	mg/L	<.0001
Beta-BHC	mg/L	<.0001
Chlordane	mg/L	<.0006
4,4'-DDD	mg/L	.0005
4,4'-DDE	mg/L	.0001
4,4'-DDT	mg/L	.001
Delta-BHC	mg/L	<.0001
Dieldrin	mg/L	<.0001
Endosulfan sulfate	mg/L	<.0001
Endosulfan I	mg/L	<.0001
Endosulfan II	mg/L	<.0001
Endrin	mg/L	<.0001
Endrin aldehyde	mg/L	<.0001
Endrin ketone	mg/L	<.0001
Gamma-BHC	mg/L	<.0001
Heptachlor	mg/L	<.0001
Heptachlor epoxide	mg/L	<.0001
Methoxychlor	mg/L	<.0001
Toxaphene	mg/L	<.002
Aroclor 1016	mg/L	<.001
Aroclor 1221	mg/L	<.001
Aroclor 1232	mg/L	<.001
Aroclor 1242	mg/L	<.001
Aroclor 1248	mg/L	<.001
Aroclor 1254	mg/L	<.001
Aroclor 1260	mg/L	<.001

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DWW-01**
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
RCRA Total Metals Analysis, (ME50)		
Arsenic	mg/L	<.100
Barium	mg/L	.045
Cadmium	mg/L	.006
Chromium	mg/L	<.010
Lead	mg/L	.091
Mercury	mg/L	<.001
Selenium	mg/L	<.100
Silver	mg/L	<.010
Total Base/Neutral/Acid Analysis, MS, (MS02)		
Acenaphthene	mg/L	<.013
Acenaphthylene	mg/L	<.013
Anthracene	mg/L	<.013
Benzidine	mg/L	<.013
Benzo(a)anthracene	mg/L	<.013
Benzo(b)fluoranthene	mg/L	<.013
Benzo(k)fluoranthene	mg/L	<.013
Benzo(ghi)perylene	mg/L	<.013
Benzo(a)pyrene	mg/L	<.013
bis(2-Chloroethyl) ether	mg/L	<.013
bis(2-Chloroethoxy)methane	mg/L	<.013
bis(2-Chloroisopropyl)ether	mg/L	<.013
bis(2-Ethylhexyl)phthalate	mg/L	<.013
4-Bromophenyl phenyl ether	mg/L	<.013
Butyl benzyl phthalate	mg/L	<.013
Carbazole	mg/L	<.013
4-Chloroaniline	mg/L	<.013
p-Chloro-m-cresol	mg/L	<.013
2-Chloronaphthalene	mg/L	<.013
2-Chlorophenol	mg/L	<.013
4-Chlorophenyl phenyl ether	mg/L	<.013
Chrysene	mg/L	<.013
Dibenzo(a,h)anthracene	mg/L	<.013
Dibenzofuran	mg/L	<.013
Di-n-butyl phthalate	mg/L	<.013

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DWW-01**
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Total Base/Neutral/Acid Analysis, MS, (MS02)

Parameters	Units	
1,2-Dichlorobenzene	mg/L	<.013
1,3-Dichlorobenzene	mg/L	<.013
1,4-Dichlorobenzene	mg/L	<.013
3,3'-Dichlorobenzidine	mg/L	<.013
2,4-Dichlorophenol	mg/L	<.013
Diethyl phthalate	mg/L	<.013
Dimethyl phthalate	mg/L	<.013
2,4-Dimethylphenol	mg/L	<.013
4,6-Dinitro-o-cresol	mg/L	<.031
2,4-Dinitrophenol	mg/L	<.062
2,4-Dinitrotoluene	mg/L	<.013
2,6-Dinitrotoluene	mg/L	<.013
Di-n-octyl phthalate	mg/L	<.013
Fluoranthene	mg/L	<.013
Fluorene	mg/L	<.013
Hexachlorobenzene	mg/L	<.013
Hexachlorobutadiene	mg/L	<.013
Hexachlorocyclopentadiene	mg/L	<.013
Hexachloroethane	mg/L	<.013
Isophorone	mg/L	<.013
2-Methylnaphthalene	mg/L	<.013
2-Methylphenol	mg/L	<.013
4-Methylphenol	mg/L	<.013
N-Nitrosodimethylamine	mg/L	<.013
N-Nitrosodi-n-propylamine	mg/L	<.013
N-Nitrosodiphenylamine	mg/L	<.013
Naphthalene	mg/L	<.013
2-Nitroaniline	mg/L	<.013
3-Nitroaniline	mg/L	<.013
4-Nitroaniline	mg/L	<.013
Nitrobenzene	mg/L	<.013
2-Nitrophenol	mg/L	<.013
4-Nitrophenol	mg/L	<.062
Pentachlorophenol	mg/L	<.013
Phenanthrene	mg/L	<.013

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DWW-01**
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Total Base/Neutral/Acid Analysis, MS, (MS02)		
Phenol	mg/L	<.013
Pyrene	mg/L	<.013
Pyridine	mg/L	<.013
1,2,4-Trichlorobenzene	mg/L	<.013
2,4,5-Trichlorophenol	mg/L	<.013
2,4,6-Trichlorophenol	mg/L	<.013
1,2,4,5-Tetrachlorobenzene	mg/L	<.013
2,3,4,6-Tetrachlorophenol	mg/L	<.013
2,6-Dichlorophenol	mg/L	<.013
2-Ethoxyethanol	mg/L	<.013
2-Nitropropane	mg/L	<.013
3-Chloropropionitrile	mg/L	<.013
4,4'-Methylenebis(2-chloroanil	mg/L	<.013
Benzoic acid	mg/L	<.031
Benzyl alcohol	mg/L	<.013
Cyclohexanone	mg/L	<.013
Hexachloropropene	mg/L	<.013
Indeno(1,2,3-c,d)pyrene	mg/L	<.013
Pentachlorobenzene	mg/L	<.013
Pentachloroethane	mg/L	<.013
Pentachloronitrobenzene	mg/L	<.013
Pronamide	mg/L	<.013
bis(2-Chloroethoxy)ethane	mg/L	<.013
Total Volatile Analysis, MS, (MV00)		
Acetone	mg/L	<.005
Acrolein	mg/L	<.025
Acrylonitrile	mg/L	<.013
Benzene	mg/L	<.005
Bromoform	mg/L	<.005
Carbon disulfide	mg/L	<.005
Carbon tetrachloride	mg/L	<.005
Chlorobenzene	mg/L	<.005
Chlorodibromomethane	mg/L	<.005
Chloroethane	mg/L	<.005

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DWW-01**
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Total Volatile Analysis, MS, (MV00)		
Chloroform	mg/L	<.005
2-Chloroethylvinyl ether	mg/L	<.005
3-Chloropropene	mg/L	<.005
1,2-Dibromo-3-chloropropane	mg/L	<.005
Dichlorobromomethane	mg/L	<.005
Dichlorodifluoromethane	mg/L	<.005
1,1-Dichloroethane	mg/L	<.005
1,2-Dichloroethane	mg/L	<.005
1,1-Dichloroethylene	mg/L	<.005
1,2-Dichloropropane	mg/L	<.005
cis-1,3-Dichloropropylene	mg/L	<.005
trans-1,3-Dichloropropylene	mg/L	<.005
Dibromomethane	mg/L	<.005
Ethylbenzene	mg/L	<.005
Ethylene dibromide	mg/L	<.005
Ethyl acetate	mg/L	<.050
Ethyl ether	mg/L	<.005
2-Hexanone	mg/L	<.005
Iodomethane	mg/L	<.005
Methyl bromide	mg/L	<.005
Methyl chloride	mg/L	<.005
Methylene chloride	mg/L	<.005
Methyl ethyl ketone	mg/L	<.010
Methyl-iso-butyl ketone	mg/L	<.010
Styrene	mg/L	<.005
1,1,1,2-Tetrachloroethane	mg/L	<.005
1,1,2,2-Tetrachloroethane	mg/L	<.005
Tetrachloroethylene	mg/L	<.005
Tetrahydrofuran	mg/L	<.005
Toluene	mg/L	<.005
1,1,1-Trichloroethane	mg/L	<.005
1,1,2-Trichloroethane	mg/L	<.005
Trichloroethylene	mg/L	<.005
1,2-Trans-dichloroethylene	mg/L	<.005
Trichlorofluoromethane	mg/L	<.005

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: **CLJ-DWW-01**
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Total Volatile Analysis, MS, (MV00)		
1,2,3-Trichloropropane	mg/L	<.005
1,1,2-Trichlorotrifluoroethane	mg/L	<.010
Vinyl acetate	mg/L	<.025
Vinyl chloride	mg/L	<.005
Xylenes	mg/L	<.005

Analytical Services Corp.

ANALYTICAL REPORT

Client: OHM Remediation Services Corporation
Southern Region (Morrisville, NC)

Attn: Kent Geis

Project: 15226N - Camp LaJeune, Jacksonville, NC

Sample(s): CLJ-DWW-01

Sample Type(s): Liquid

Analysis Performed: Conventionals, Metals and Organics

Date Sample Received: February 25, 1994

Date Order Received: February 25, 1994

Joblink(s): 615242

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: TE Gran *Date:* 3/3/94

Thomas E. Gran, Ph.D., Vice President

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- The identity of all pesticide and herbicide compounds were confirmed by secondary column analysis.
- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.
- **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

APPENDIX A

DATA SUMMARY REPORT

NOTE: The GC/MS screen data, if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 03/01/94

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Conventional Data (CV10)		
Cyanide, Total	mg/L	<.010
Oil and Grease	mg/L	16.0
Solids, total suspended	mg/L	56.0
Total Dissolved Solids (TDS)	mg/L	107
pH (Electrode)	std	6.46
Total Pesticide and PCB Analysis, GC, (GS05)		
Aldrin	mg/L	<.0001
Alpha-BHC	mg/L	<.0001
Beta-BHC	mg/L	<.0001
Chlordane	mg/L	<.0006
4,4'-DDD	mg/L	.0005
4,4'-DDE	mg/L	.0001
4,4'-DDT	mg/L	.001
Delta-BHC	mg/L	<.0001
Dieldrin	mg/L	<.0001
Endosulfan sulfate	mg/L	<.0001
Endosulfan I	mg/L	<.0001
Endosulfan II	mg/L	<.0001
Endrin	mg/L	<.0001
Endrin aldehyde	mg/L	<.0001
Endrin ketone	mg/L	<.0001
Gamma-BHC	mg/L	<.0001
Heptachlor	mg/L	<.0001
Heptachlor epoxide	mg/L	<.0001
Methoxychlor	mg/L	<.0001
Toxaphene	mg/L	<.002
Aroclor 1016	mg/L	<.001
Aroclor 1221	mg/L	<.001
Aroclor 1232	mg/L	<.001
Aroclor 1242	mg/L	<.001
Aroclor 1248	mg/L	<.001
Aroclor 1254	mg/L	<.001
Aroclor 1260	mg/L	<.001

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
RCRA Total Metals Analysis, (ME50)		
Arsenic	mg/L	<.100
Barium	mg/L	.045
Cadmium	mg/L	.006
Chromium	mg/L	<.010
Lead	mg/L	.091
Mercury	mg/L	<.001
Selenium	mg/L	<.100
Silver	mg/L	<.010
Total Base/Neutral/Acid Analysis, MS, (MS02)		
Acenaphthene	mg/L	<.013
Acenaphthylene	mg/L	<.013
Anthracene	mg/L	<.013
Benzidine	mg/L	<.013
Benzoic acid	mg/L	<.031
Benzyl alcohol	mg/L	<.013
Benzo(a)anthracene	mg/L	<.013
Benzo(b)fluoranthene	mg/L	<.013
Benzo(k)fluoranthene	mg/L	<.013
Benzo(ghi)perylene	mg/L	<.013
Benzo(a)pyrene	mg/L	<.013
bis(2-Chloroethoxy)ethane	mg/L	<.013
bis(2-Chloroethyl) ether	mg/L	<.013
bis(2-Chloroethoxy)methane	mg/L	<.013
bis(2-Chloroisopropyl)ether	mg/L	<.013
bis(2-Ethylhexyl)phthalate	mg/L	<.013
4-Bromophenyl phenyl ether	mg/L	<.013
Butyl benzyl phthalate	mg/L	<.013
Carbazole	mg/L	<.013
4-Chloroaniline	mg/L	<.013
p-Chloro-m-cresol	mg/L	<.013
2-Chloronaphthalene	mg/L	<.013
2-Chlorophenol	mg/L	<.013
4-Chlorophenyl phenyl ether	mg/L	<.013
3-Chloropropionitrile	mg/L	<.013

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Total Base/Neutral/Acid Analysis, MS, (MS02)		
Chrysene	mg/L	<.013
Cyclohexanone	mg/L	<.013
Dibenzo(a,h)anthracene	mg/L	<.013
Dibenzofuran	mg/L	<.013
Di-n-butyl phthalate	mg/L	<.013
1,2-Dichlorobenzene	mg/L	<.013
1,3-Dichlorobenzene	mg/L	<.013
1,4-Dichlorobenzene	mg/L	<.013
3,3'-Dichlorobenzidine	mg/L	<.013
2,4-Dichlorophenol	mg/L	<.013
2,6-Dichlorophenol	mg/L	<.013
Diethyl phthalate	mg/L	<.013
Dimethyl phthalate	mg/L	<.013
2,4-Dimethylphenol	mg/L	<.013
4,6-Dinitro-o-cresol	mg/L	<.031
2,4-Dinitrophenol	mg/L	<.062
2,4-Dinitrotoluene	mg/L	<.013
2,6-Dinitrotoluene	mg/L	<.013
Di-n-octyl phthalate	mg/L	<.013
2-Ethoxyethanol	mg/L	<.013
Fluoranthene	mg/L	<.013
Fluorene	mg/L	<.013
Hexachlorobenzene	mg/L	<.013
Hexachlorobutadiene	mg/L	<.013
Hexachlorocyclopentadiene	mg/L	<.013
Hexachloroethane	mg/L	<.013
Hexachloropropene	mg/L	<.013
Indeno(1,2,3-c,d)pyrene	mg/L	<.013
Isophorone	mg/L	<.013
4,4'-Methylenebis(2-chloroaniline)	mg/L	<.013
2-Methylnaphthalene	mg/L	<.013
2-Methylphenol	mg/L	<.013
4-Methylphenol	mg/L	<.013
2-Nitropropane	mg/L	<.013
N-Nitrosodimethylamine	mg/L	<.013

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Total Base/Neutral/Acid Analysis, MS, (MS02)		
N-Nitrosodi-n-propylamine	mg/L	<.013
N-Nitrosodiphenylamine	mg/L	<.013
Naphthalene	mg/L	<.013
2-Nitroaniline	mg/L	<.013
3-Nitroaniline	mg/L	<.013
4-Nitroaniline	mg/L	<.013
Nitrobenzene	mg/L	<.013
2-Nitrophenol	mg/L	<.013
4-Nitrophenol	mg/L	<.062
Pentachlorobenzene	mg/L	<.013
Pentachloronitrobenzene	mg/L	<.013
Pentachlorophenol	mg/L	<.013
Pentachloroethane	mg/L	<.013
Phenanthrene	mg/L	<.013
Phenol	mg/L	<.013
Pronamide	mg/L	<.013
Pyrene	mg/L	<.013
Pyridine	mg/L	<.013
1,2,4,5-Tetrachlorobenzene	mg/L	<.013
2,3,4,6-Tetrachlorophenol	mg/L	<.013
1,2,4-Trichlorobenzene	mg/L	<.013
2,4,5-Trichlorophenol	mg/L	<.013
2,4,6-Trichlorophenol	mg/L	<.013
Total Volatile Analysis, MS, (MV00)		
Acetone	mg/L	<.005
Acrolein	mg/L	<.025
Acrylonitrile	mg/L	<.013
Benzene	mg/L	<.005
Bromoform	mg/L	<.005
Carbon disulfide	mg/L	<.005
Carbon tetrachloride	mg/L	<.005
Chlorobenzene	mg/L	<.005
Chlorodibromomethane	mg/L	<.005
Chloroethane	mg/L	<.005

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Total Volatile Analysis, MS, (MV00)

Parameters	Units	
Chloroform	mg/L	<.005
2-Chloroethylvinyl ether	mg/L	<.005
3-Chloropropene	mg/L	<.005
1,2-Dibromo-3-chloropropane	mg/L	<.005
Dichlorobromomethane	mg/L	<.005
Dichlorodifluoromethane	mg/L	<.005
1,1-Dichloroethane	mg/L	<.005
1,2-Dichloroethane	mg/L	<.005
1,1-Dichloroethylene	mg/L	<.005
1,2-Dichloropropane	mg/L	<.005
cis-1,3-Dichloropropylene	mg/L	<.005
trans-1,3-Dichloropropylene	mg/L	<.005
Dibromomethane	mg/L	<.005
Ethylbenzene	mg/L	<.005
Ethylene dibromide	mg/L	<.005
Ethyl acetate	mg/L	<.050
Ethyl ether	mg/L	<.005
2-Hexanone	mg/L	<.005
Iodomethane	mg/L	<.005
Methyl bromide	mg/L	<.005
Methyl chloride	mg/L	<.005
Methylene chloride	mg/L	<.005
Methyl ethyl ketone	mg/L	<.010
Methyl-iso-butyl ketone	mg/L	<.010
Styrene	mg/L	<.005
1,1,1,2-Tetrachloroethane	mg/L	<.005
1,1,2,2-Tetrachloroethane	mg/L	<.005
Tetrachloroethylene	mg/L	<.005
Tetrahydrofuran	mg/L	<.005
Toluene	mg/L	<.005
1,1,1-Trichloroethane	mg/L	<.005
1,1,2-Trichloroethane	mg/L	<.005
Trichloroethylene	mg/L	<.005
1,2-Trans-dichloroethylene	mg/L	<.005
Trichlorofluoromethane	mg/L	<.005

DATA SUMMARY REPORT

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID: CLJ-DWW-01
ASC Sample Number: JM3866
Sample Date: 940224
Facility Code: 015226N

Parameters	Units	
Total Volatile Analysis, MS, (MV00)		
1,2,3-Trichloropropane	mg/L	<.005
1,1,2-Trichlorotrifluoroethane	mg/L	<.010
Vinyl acetate	mg/L	<.025
Vinyl chloride	mg/L	<.005
Xylenes	mg/L	<.005

APPENDIX B

QUANTITATIVE RESULTS

CONVENTIONAL DATA (CV10)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-01	JM3866

Compounds		Sample Results	Detection Limits	Blank Results	Batch Number
Cyanide, Total	mg/L	ND	.010	ND	Q1I3310
Oil and Grease	mg/L	16.0	5.00	ND	Q1I3308
Solids, total suspended	mg/L	56.0	10.0	-	
Total Dissolved Solids (TDS)	mg/L	107	10.0	-	
pH (Electrode)	std	6.46	-	-	

RCRA TOTAL METALS ANALYSIS, (ME50)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-01	JM3866

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Arsenic	ND	.100	ND	Q1M3862
Barium	.045	.020	ND	Q1M3862
Cadmium	.006	.005	ND	Q1M3862
Chromium	ND	.010	ND	Q1M3862
Lead	.091	.075	ND	Q1M3862
Mercury	ND	.001	ND	Q1G3861
Selenium	ND	.100	ND	Q1M3862
Silver	ND	.010	ND	Q1M3862

TOTAL PESTICIDE AND PCB ANALYSIS, GC, (GS05)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-01	JM3866

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aldrin	ND	.0001	ND	Q1P40183
Alpha-BHC	ND	.0001	ND	Q1P40183
Beta-BHC	ND	.0001	ND	Q1P40183
Chlordane	ND	.0006	ND	Q1P40183
4,4'-DDD	.0005	.0001	ND	Q1P40183
4,4'-DDE	.0001	.0001	ND	Q1P40183
4,4'-DDT	.001	.0001	ND	Q1P40183
Delta-BHC	ND	.0001	ND	Q1P40183
Dieldrin	ND	.0001	ND	Q1P40183
Endosulfan sulfate	ND	.0001	ND	Q1P40183
Endosulfan I	ND	.0001	ND	Q1P40183
Endosulfan II	ND	.0001	ND	Q1P40183
Endrin	ND	.0001	ND	Q1P40183
Endrin aldehyde	ND	.0001	ND	Q1P40183
Endrin ketone	ND	.0001	ND	Q1P40183
Gamma-BHC	ND	.0001	ND	Q1P40183
Heptachlor	ND	.0001	ND	Q1P40183
Heptachlor epoxide	ND	.0001	ND	Q1P40183
Methoxychlor	ND	.0001	ND	Q1P40183
Toxaphene	ND	.002	ND	Q1P40183
Aroclor 1016	ND	.001	ND	Q1P40183
Aroclor 1221	ND	.001	ND	Q1P40183
Aroclor 1232	ND	.001	ND	Q1P40183
Aroclor 1242	ND	.001	ND	Q1P40183
Aroclor 1248	ND	.001	ND	Q1P40183
Aroclor 1254	ND	.001	ND	Q1P40183
Aroclor 1260	ND	.001	ND	Q1P40183

TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-01	JM3866

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acenaphthene	ND	.013	ND	Q1C40194
Acenaphthylene	ND	.013	ND	Q1C40194
Anthracene	ND	.013	ND	Q1C40194
Benzidine	ND	.013	ND	Q1C40194
Benzoic acid	ND	.031	ND	Q1C40194
Benzyl alcohol	ND	.013	ND	Q1C40194
Benzo(a)anthracene	ND	.013	ND	Q1C40194
Benzo(b)fluoranthene	ND	.013	ND	Q1C40194
Benzo(k)fluoranthene	ND	.013	ND	Q1C40194
Benzo(ghi)perylene	ND	.013	ND	Q1C40194
Benzo(a)pyrene	ND	.013	ND	Q1C40194
bis(2-Chloroethoxy)ethane	ND	.013	ND	Q1C40194
bis(2-Chloroethyl) ether	ND	.013	ND	Q1C40194
bis(2-Chloroethoxy)methane	ND	.013	ND	Q1C40194
bis(2-Chloroisopropyl)ether	ND	.013	ND	Q1C40194
bis(2-Ethylhexyl)phthalate	ND	.013	ND	Q1C40194
4-Bromophenyl phenyl ether	ND	.013	ND	Q1C40194
Butyl benzyl phthalate	ND	.013	ND	Q1C40194
Carbazole	ND	.013	ND	Q1C40194
4-Chloroaniline	ND	.013	ND	Q1C40194
p-Chloro-m-cresol	ND	.013	ND	Q1C40194
2-Chloronaphthalene	ND	.013	ND	Q1C40194
2-Chlorophenol	ND	.013	ND	Q1C40194
4-Chlorophenyl phenyl ether	ND	.013	ND	Q1C40194
3-Chloropropionitrile	ND	.013	ND	Q1C40194
Chrysene	ND	.013	ND	Q1C40194
Cyclohexanone	ND	.013	ND	Q1C40194
Dibenzo(a,h)anthracene	ND	.013	ND	Q1C40194
Dibenzofuran	ND	.013	ND	Q1C40194
Di-n-butyl phthalate	ND	.013	ND	Q1C40194
1,2-Dichlorobenzene	ND	.013	ND	Q1C40194
1,3-Dichlorobenzene	ND	.013	ND	Q1C40194
1,4-Dichlorobenzene	ND	.013	ND	Q1C40194
3,3'-Dichlorobenzidine	ND	.013	ND	Q1C40194
2,4-Dichlorophenol	ND	.013	ND	Q1C40194
2,6-Dichlorophenol	ND	.013	ND	Q1C40194
Diethyl phthalate	ND	.013	ND	Q1C40194
Dimethyl phthalate	ND	.013	ND	Q1C40194
2,4-Dimethylphenol	ND	.013	ND	Q1C40194
4,6-Dinitro-o-cresol	ND	.031	ND	Q1C40194
2,4-Dinitrophenol	ND	.062	ND	Q1C40194
2,4-Dinitrotoluene	ND	.013	ND	Q1C40194
2,6-Dinitrotoluene	ND	.013	ND	Q1C40194
Di-n-octyl phthalate	ND	.013	ND	Q1C40194
2-Ethoxyethanol	ND	.013	ND	Q1C40194
Fluoranthene	ND	.013	ND	Q1C40194
Fluorene	ND	.013	ND	Q1C40194
Hexachlorobenzene	ND	.013	ND	Q1C40194
Hexachlorobutadiene	ND	.013	ND	Q1C40194
Hexachlorocyclopentadiene	ND	.013	ND	Q1C40194

TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-01	JM3866

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Hexachloroethane	ND	.013	ND	Q1C40194
Hexachloropropene	ND	.013	ND	Q1C40194
Indeno(1,2,3-c,d)pyrene	ND	.013	ND	Q1C40194
Isophorone	ND	.013	ND	Q1C40194
4,4'-Methylenebis(2-chloroani- line)	ND	.013	ND	Q1C40194
2-Methylnaphthalene	ND	.013	ND	Q1C40194
2-Methylphenol	ND	.013	ND	Q1C40194
4-Methylphenol	ND	.013	ND	Q1C40194
2-Nitropropane	ND	.013	ND	Q1C40194
N-Nitrosodimethylamine	ND	.013	ND	Q1C40194
N-Nitrosodi-n-propylamine	ND	.013	ND	Q1C40194
N-Nitrosodiphenylamine	ND	.013	ND	Q1C40194
Naphthalene	ND	.013	ND	Q1C40194
2-Nitroaniline	ND	.013	ND	Q1C40194
3-Nitroaniline	ND	.013	ND	Q1C40194
4-Nitroaniline	ND	.013	ND	Q1C40194
Nitrobenzene	ND	.013	ND	Q1C40194
2-Nitrophenol	ND	.013	ND	Q1C40194
4-Nitrophenol	ND	.062	ND	Q1C40194
Pentachlorobenzene	ND	.013	ND	Q1C40194
Pentachloronitrobenzene	ND	.013	ND	Q1C40194
Pentachlorophenol	ND	.013	ND	Q1C40194
Pentachloroethane	ND	.013	ND	Q1C40194
Phenanthrene	ND	.013	ND	Q1C40194
Phenol	ND	.013	ND	Q1C40194
Pronamide	ND	.013	ND	Q1C40194
Pyrene	ND	.013	ND	Q1C40194
Pyridine	ND	.013	ND	Q1C40194
1,2,4,5-Tetrachlorobenzene	ND	.013	ND	Q1C40194
2,3,4,6-Tetrachlorophenol	ND	.013	ND	Q1C40194
1,2,4-Trichlorobenzene	ND	.013	ND	Q1C40194
2,4,5-Trichlorophenol	ND	.013	ND	Q1C40194
2,4,6-Trichlorophenol	ND	.013	ND	Q1C40194

3-Methyl- and 4-Methylphenol coelute and are reported as the total

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	015226N	CLJ-DWW-01	JM3866

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.005	ND	Q1V3321
Acrolein	ND	.025	ND	Q1V3321
Acrylonitrile	ND	.013	ND	Q1V3321
Benzene	ND	.005	ND	Q1V3321
Bromoform	ND	.005	ND	Q1V3321
Carbon disulfide	ND	.005	ND	Q1V3321
Carbon tetrachloride	ND	.005	ND	Q1V3321
Chlorobenzene	ND	.005	ND	Q1V3321
Chlorodibromomethane	ND	.005	ND	Q1V3321
Chloroethane	ND	.005	ND	Q1V3321
Chloroform	ND	.005	ND	Q1V3321
2-Chloroethylvinyl ether	ND	.005	ND	Q1V3321
3-Chloropropene	ND	.005	ND	Q1V3321
1,2-Dibromo-3-chloropropane	ND	.005	ND	Q1V3321
Dichlorobromomethane	ND	.005	ND	Q1V3321
Dichlorodifluoromethane	ND	.005	ND	Q1V3321
1,1-Dichloroethane	ND	.005	ND	Q1V3321
1,2-Dichloroethane	ND	.005	ND	Q1V3321
1,1-Dichloroethylene	ND	.005	ND	Q1V3321
1,2-Dichloropropane	ND	.005	ND	Q1V3321
cis-1,3-Dichloropropylene	ND	.005	ND	Q1V3321
trans-1,3-Dichloropropylene	ND	.005	ND	Q1V3321
Dibromomethane	ND	.005	ND	Q1V3321
Ethylbenzene	ND	.005	ND	Q1V3321
Ethylene dibromide	ND	.005	ND	Q1V3321
Ethyl acetate	ND	.050	ND	Q1V3321
Ethyl ether	ND	.005	ND	Q1V3321
2-Hexanone	ND	.005	ND	Q1V3321
Iodomethane	ND	.005	ND	Q1V3321
Methyl bromide	ND	.005	ND	Q1V3321
Methyl chloride	ND	.005	ND	Q1V3321
Methylene chloride	ND	.005	ND	Q1V3321
Methyl ethyl ketone	ND	.010	ND	Q1V3321
Methyl-iso-butyl ketone	ND	.010	ND	Q1V3321
Styrene	ND	.005	ND	Q1V3321
1,1,1,2-Tetrachloroethane	ND	.005	ND	Q1V3321
1,1,2,2-Tetrachloroethane	ND	.005	ND	Q1V3321
Tetrachloroethylene	ND	.005	ND	Q1V3321
Tetrahydrofuran	ND	.005	ND	Q1V3321
Toluene	ND	.005	ND	Q1V3321
1,1,1-Trichloroethane	ND	.005	ND	Q1V3321
1,1,2-Trichloroethane	ND	.005	ND	Q1V3321
Trichloroethylene	ND	.005	ND	Q1V3321
1,2-Trans-dichloroethylene	ND	.005	ND	Q1V3321
Trichlorofluoromethane	ND	.005	ND	Q1V3321
1,2,3-Trichloropropane	ND	.005	ND	Q1V3321
1,1,2-Trichlorotrifluoroethane	ND	.010	ND	Q1V3321
Vinyl acetate	ND	.025	ND	Q1V3321
Vinyl chloride	ND	.005	ND	Q1V3321
Xylenes	ND	.005	ND	Q1V3321

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Conventionals		
pH, Electrode (liquid)	SW-846	9040
Solids, Total Suspended (liquid)	CAWW	160.2
Solids, Total Dissolved (liquid)	CAWW	160.1
Oil & Grease (liquid)	CAWW	413.1
Cyanide, Total	CLP	335.2
Metals		
Total Metals (except mercury)	SW-846	6010
Mercury by Cold Vapor (liquid)	SW-846	7470
Organics		
Semi-volatile Compounds by GC/MS	SW-846	8270
Volatile Compounds by GC/MS	SW-846	8240
Pesticides and PCBs by GC	SW-846	8080

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

Approvals:

- Chemical Waste Management ..... Waste Characterization Analysis
- Envirosafe ..... Waste Characterization Analysis
- USDA ..... Permit for Importing Soils
- Florida DEP ..... Quality Assurance Plan #930034G
- Naval Energy and Environmental Support Activity ..... Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
mg/W	=	milligram per wipe
ug/L	=	microgram per liter (ppb)
ug/W	=	microgram per wipe
ug/SMP	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
gm/cc	=	grams per cubic centimeter
n/a	=	not applicable
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act

QUALITY ASSURANCE DATA

CONVENTIONAL DATA (CV10)

Compounds		Blank Results	Blank Spike Recov	Unspiked Sample Results	Matrix Spike Recov	Relative Percent Diff	Batch Number
Cyanide, Total	mg/L	ND	108	ND	107	6	Q1I3310
Oil and Grease	mg/L	ND	94	-	-	-	Q1I3308

QUALITY ASSURANCE DATA

RCRA TOTAL METALS ANALYSIS, (ME50)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Arsenic	ND	89	ND	94	3	Q1M3862
Barium	ND	96	.045	99	3	Q1M3862
Cadmium	ND	92	.006	92	3	Q1M3862
Chromium	ND	94	ND	95	3	Q1M3862
Lead	ND	90	.091	92	6	Q1M3862
Mercury	ND	93	ND	93	5	Q1G3861
Selenium	ND	89	ND	91	3	Q1M3862
Silver	ND	98	ND	95	3	Q1M3862

Quality Assurance Data

Total Pesticide and PCB Analysis, GC, (GS05)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Aldrin	ND	69	-	-	-	Q1P40183
Alpha-BHC	ND	72	-	-	-	Q1P40183
Beta-BHC	ND	91	-	-	-	Q1P40183
Chlordane	ND	97	-	-	-	Q1P40183
4,4'-DDD	ND	79	-	-	-	Q1P40183
4,4'-DDE	ND	84	-	-	-	Q1P40183
4,4'-DDT	ND	96	-	-	-	Q1P40183
Delta-BHC	ND	79	-	-	-	Q1P40183
Dieldrin	ND	84	-	-	-	Q1P40183
Endosulfan sulfate	ND	74	-	-	-	Q1P40183
Endosulfan I	ND	89	-	-	-	Q1P40183
Endosulfan II	ND	89	-	-	-	Q1P40183
Endrin	ND	82	-	-	-	Q1P40183
Endrin aldehyde	ND	90	-	-	-	Q1P40183
Endrin ketone	ND	74	-	-	-	Q1P40183
Gamma-BHC	ND	70	-	-	-	Q1P40183
Heptachlor	ND	81	-	-	-	Q1P40183
Heptachlor epoxide	ND	89	-	-	-	Q1P40183
Methoxychlor	ND	81	-	-	-	Q1P40183

- There was insufficient sample available to complete our standard matrix spike and matrix spike duplicate analyses.

QUALITY ASSURANCE DATA

TOTAL BASE/NEUTRAL/ACID ANALYSIS, MS, (MS02)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acenaphthene	ND	72	-	-	-	Q1C40194
Acenaphthylene	ND	76	-	-	-	Q1C40194
Anthracene	ND	76	-	-	-	Q1C40194
Benzoic acid	ND	16	-	-	-	Q1C40194
Benzo(a)pyrene	ND	72	-	-	-	Q1C40194
bis(2-Ethylhexyl)phthalate	ND	81	-	-	-	Q1C40194
4-Bromophenyl phenyl ether	ND	80	-	-	-	Q1C40194
Butyl benzyl phthalate	ND	66	-	-	-	Q1C40194
Carbazole	ND	71	-	-	-	Q1C40194
4-Chloroaniline	ND	44	-	-	-	Q1C40194
p-Chloro-m-cresol	ND	79	-	-	-	Q1C40194
2-Chlorophenol	ND	78	-	-	-	Q1C40194
3-Chloropropionitrile	ND	-	-	-	-	Q1C40194
Chrysene	ND	75	-	-	-	Q1C40194
Cyclohexanone	ND	23	-	-	-	Q1C40194
Di-n-butyl phthalate	ND	81	-	-	-	Q1C40194
1,2-Dichlorobenzene	ND	50	-	-	-	Q1C40194
1,4-Dichlorobenzene	ND	48	-	-	-	Q1C40194
3,3'-Dichlorobenzidine	ND	63	-	-	-	Q1C40194
2,4-Dichlorophenol	ND	66	-	-	-	Q1C40194
2,4-Dinitrophenol	ND	5	-	-	-	Q1C40194
2,4-Dinitrotoluene	ND	65	-	-	-	Q1C40194
2-Ethoxyethanol	ND	-	-	-	-	Q1C40194
Hexachloroethane	ND	31	-	-	-	Q1C40194
Isophorone	ND	90	-	-	-	Q1C40194
4,4'-Methylenebis(2-chloroaniline)	ND	62	-	-	-	Q1C40194
2-Methylnaphthalene	ND	66	-	-	-	Q1C40194
2-Methylphenol	ND	60	-	-	-	Q1C40194
N-Nitrosodi-n-propylamine	ND	109	-	-	-	Q1C40194
4-Nitroaniline	ND	72	-	-	-	Q1C40194
4-Nitrophenol	ND	34	-	-	-	Q1C40194
Pentachloronitrobenzene	ND	77	-	-	-	Q1C40194
Pentachlorophenol	ND	80	-	-	-	Q1C40194
Phenol	ND	44	-	-	-	Q1C40194
Pyrene	ND	75	-	-	-	Q1C40194
2,3,4,6-Tetrachlorophenol	ND	64	-	-	-	Q1C40194
1,2,4-Trichlorobenzene	ND	49	-	-	-	Q1C40194
2,4,5-Trichlorophenol	ND	65	-	-	-	Q1C40194
2,4,6-Trichlorophenol	ND	71	-	-	-	Q1C40194

3-Methyl- and 4-Methylphenol coelute and are reported as the total

- There was insufficient sample available to complete our standard matrix spike and matrix spike duplicate analyses.

QUALITY ASSURANCE DATA

TOTAL VOLATILE ANALYSIS, MS, (MV00)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acetone	ND	89	ND	102	23	Q1V3321
Acrolein	ND	82	ND	75	4	Q1V3321
Acrylonitrile	ND	74	ND	87	3	Q1V3321
Benzene	ND	81	ND	93	10	Q1V3321
Bromoform	ND	81	ND	92	9	Q1V3321
Carbon disulfide	ND	82	ND	89	3	Q1V3321
Carbon tetrachloride	ND	84	ND	100	20	Q1V3321
Chlorobenzene	ND	82	ND	87	1	Q1V3321
Chlorodibromomethane	ND	80	ND	89	8	Q1V3321
Chloroethane	ND	90	ND	94	8	Q1V3321
Chloroform	ND	84	ND	86	3	Q1V3321
2-Chloroethylvinyl ether	ND	83	ND	89	2	Q1V3321
3-Chloropropene	ND	80	ND	86	2	Q1V3321
1,2-Dibromo-3-chloropropane	ND	83	ND	96	6	Q1V3321
Dichlorobromomethane	ND	79	ND	88	8	Q1V3321
Dichlorodifluoromethane	ND	83	ND	92	6	Q1V3321
1,1-Dichloroethane	ND	84	ND	87	2	Q1V3321
1,2-Dichloroethane	ND	79	ND	79	12	Q1V3321
1,1-Dichloroethylene	ND	82	ND	89	1	Q1V3321
1,2-Dichloropropane	ND	84	ND	91	5	Q1V3321
cis-1,3-Dichloropropylene	ND	74	ND	78	1	Q1V3321
trans-1,3-Dichloropropylene	ND	88	ND	92	2	Q1V3321
Dibromomethane	ND	80	ND	81	10	Q1V3321
Ethylbenzene	ND	83	ND	88	1	Q1V3321
Ethylene dibromide	ND	84	ND	92	7	Q1V3321
Ethyl acetate	ND	73	ND	69	16	Q1V3321
Ethyl ether	ND	81	ND	79	7	Q1V3321
2-Hexanone	ND	94	ND	90	4	Q1V3321
Iodomethane	ND	82	ND	86	1	Q1V3321
Methyl bromide	ND	93	ND	97	8	Q1V3321
Methyl chloride	ND	94	ND	104	13	Q1V3321
Methylene chloride	ND	83	ND	86	2	Q1V3321
Methyl ethyl ketone	ND	83	ND	99	11	Q1V3321
Methyl-iso-butyl ketone	ND	94	ND	104	13	Q1V3321
Styrene	ND	85	ND	88	3	Q1V3321
1,1,1,2-Tetrachloroethane	ND	82	ND	90	2	Q1V3321
1,1,2,2-Tetrachloroethane	ND	85	ND	96	5	Q1V3321
Tetrachloroethylene	ND	81	ND	84	1	Q1V3321
Tetrahydrofuran	ND	74	ND	85	14	Q1V3321
Toluene	ND	81	ND	84	3	Q1V3321
1,1,1-Trichloroethane	ND	94	ND	108	26	Q1V3321
1,1,2-Trichloroethane	ND	83	ND	89	5	Q1V3321
Trichloroethylene	ND	82	ND	88	4	Q1V3321
1,2-Trans-dichloroethylene	ND	82	ND	88	3	Q1V3321
Trichlorofluoromethane	ND	85	ND	91	4	Q1V3321
1,2,3-Trichloropropane	ND	82	ND	91	4	Q1V3321
1,1,2-Trichlorotrifluoroethane	ND	84	ND	89	4	Q1V3321
Vinyl acetate	ND	81	ND	58	-	Q1V3321
Vinyl chloride	ND	82	ND	91	7	Q1V3321
Xylenes	ND	84	ND	88	2	Q1V3321

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
QC BATCH: Q1C40194 Aqueous (Semi-Volatile organics by MS)							
SAMPLE ID							
BLANK	50	36	77	71	73	87	0
BLANK SPIKE	56	42	86	82	70	82	0
CLJ-DWW-01	50	41	82	66	66	86	0
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)	

SURROGATE ID	B816	A500	# OUT
QC BATCH: Q1P40183 Aqueous (Pesticide compounds by GC)			
SAMPLE ID			
BLANK	58	45	0
BLANK SPIKE	64	53	0
CLJ-DWW-01	52	45	0
QC LIMITS	(37-116)	(14-147)	

SURROGATE ID	A047	B185	B668	# OUT
QC BATCH: Q1V3321 Aqueous (Volatile organics by MS)				
SAMPLE ID				
BLANK	86	99	99	0
BLANK SPIKE	85	91	93	0
CLJ-DWW-01	87	93	90	0
CLJ-DWW-01 MD	95	97	94	0
CLJ-DWW-01 MS	83	91	94	0
QC LIMITS	(76-114)	(88-110)	(86-115)	

SURROGATE ID

A047 = 1,2-Dichloroethane-D4
B185 = Toluene-D8
B668 = Bromofluorobenzene
A159 = 2-Fluorophenol
B732 = Phenol-D6
A121 = 2,4,6-Tribromophenol
A884 = Nitrobenzene-D5
A158 = 2-Fluorobiphenyl
B142 = Terphenyl-D14
B816 = 2,4,5,6-Tetrachloro-m-xylene
A500 = Decachlorobiphenyl

* Values outside of method quality control limits
D Surrogate diluted out

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)