

1374

## INORGANIC DATA

CLIENT:  
PROJECT ID:  
P.O.#  
SDG#:  
IEA ID:

ROUX ASSOCIATES  
AMTRAK SUNNYSIDE  
05526Y  
Z0060  
30930-0060

1375

## METALS DATA

CLIENT:  
PROJECT ID:  
P.O.#  
SDG#:  
IEA ID:

ROUX ASSOCIATES  
AMTRAK SUNNYSIDE  
05526Y  
Z0060  
30930-0060

## COVER PAGE - INORGANIC ANALYSES DATA PACKAGE 1376

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

SOW No.: ILM02.0

## EPA Sample No.

## Lab Sample ID.

Z06001S-99Z06002S-100Z06002DS-100DZ06002SS-100SZ06003S-101Z06004S-102Z06005CS-43Z06006FIELD BLANK

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before  
application of background corrections?

Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Jeffrey C. CurranName: J. CurranDate: Feb 24, 1993Title: Laboratory manager

1  
INORGANIC ANALYSIS DATA SHEET

S-99

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix (soil/water): SOIL

Lab Sample ID: Z06001

Level (low/med): LOW

Date Received: 01/19/93

% Solids: 87.6

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

| CAS No.   | Analyte   | Concentration | C   | Q     | M   |
|-----------|-----------|---------------|-----|-------|-----|
| 7429-90-5 | Aluminum  | 9370          |     |       | IF  |
| 7440-36-0 | Antimony  | 4.2           | U   |       | IF  |
| 7440-38-2 | Arsenic   | 16.8          | INS |       | IF  |
| 7440-39-3 | Barium    | 50.6          |     |       | IF  |
| 7440-41-7 | Beryllium | 0.22          | B   |       | IF  |
| 7440-43-9 | Cadmium   | 0.40          | U   |       | IF  |
| 7440-70-2 | Calcium   | 920           | B   |       | IF  |
| 7440-47-3 | Chromium  | 18.8          |     |       | IF  |
| 7440-48-4 | Cobalt    | 7.5           | B   |       | IF  |
| 7440-50-8 | Copper    | 90.7          | IN  |       | IF  |
| 7439-89-6 | Iron      | 21300         |     |       | IF  |
| 7439-92-1 | Lead      | 61.9          | X   | ml    | IF  |
| 7439-95-4 | Magnesium | 2180          |     | 10/10 | IF  |
| 7439-96-5 | Manganese | 321           |     |       | IF  |
| 7439-77-6 | Mercury   | 0.20          |     |       | ICV |
| 7440-02-0 | Nickel    | 13.8          |     |       | IF  |
| 7440-09-7 | Potassium | 762           | B   |       | IF  |
| 7782-49-2 | Selenium  | 0.40          | U   | IN    | IF  |
| 7440-22-4 | Silver    | 0.60          | U   |       | IF  |
| 7440-23-5 | Sodium    | 96.9          | B   |       | IF  |
| 7440-28-0 | Thallium  | 0.40          | U   |       | IF  |
| 7440-62-2 | Vanadium  | 30.6          |     |       | IF  |
| 7440-66-6 | Zinc      | 56.8          |     |       | IF  |
|           | Cyanide   |               |     |       | INR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts: YES

Comments:

ROCKS

## INORGANIC ANALYSIS DATA SHEET

S-100

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

BAS No.:

SDS No.: Z0060

Matrix (soil/water): SOIL

Lab Sample ID: Z06002

Level (low/med): LOW

Date Received: 01/19/93

% Solids: 86.7

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

| CAS No.   | Analyte   | Concentration | C             | D | M  |
|-----------|-----------|---------------|---------------|---|----|
| 7429-90-5 | Aluminum  | 8330          |               |   | IP |
| 7440-36-0 | Antimony  | 4.3           | UI            |   | IP |
| 7440-38-2 | Arsenic   | 7.7           | IN            |   | IF |
| 7440-39-3 | Barium    | 84.8          |               |   | IP |
| 7440-41-7 | Beryllium | 0.20          | UI            |   | IP |
| 7440-43-9 | Cadmium   | 1.6           |               |   | IP |
| 7440-70-2 | Calcium   | 5900          |               |   | IP |
| 7440-47-3 | Chromium  | 23.2          |               |   | IP |
| 7440-48-4 | Cobalt    | 6.7           | BI            |   | IP |
| 7440-50-8 | Copper    | 132           | IN            |   | IP |
| 7439-89-6 | Iron      | 21800         |               |   | IP |
| 7439-92-1 | Lead      | 251           | <del>IN</del> |   | IF |
| 7439-95-4 | Magnesium | 2510          | <del>UI</del> |   | IP |
| 7439-96-5 | Manganese | 318           |               |   | IP |
| 7439-97-6 | Mercury   | 0.49          |               |   | CV |
| 7440-02-0 | Nickel    | 20.6          |               |   | IP |
| 7440-09-7 | Potassium | 804           | BI            |   | IP |
| 7782-49-2 | Selenium  | 0.52          | BI/NW         |   | IF |
| 7440-22-4 | Silver    | 0.61          | UI            |   | IP |
| 7440-23-5 | Sodium    | 120           | BI            |   | IP |
| 7440-28-0 | Thallium  | 0.36          | UI            |   | IF |
| 7440-62-2 | Vanadium  | 38.0          |               |   | IP |
| 7440-66-6 | Zinc      | 275           |               |   | IP |
|           | Cyanide   |               |               |   | NR |

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts: YES

Comments:  
ROCKS

1379

U.S. EPA - CLF

EPA SAMPLE NO.

1  
INORGANIC ANALYSIS DATA SHEET

S-101

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix (soil/water): SOIL

Lab Sample ID: Z06003

Level (low/med): LOW

Date Received: 01/19/93

% Solids: 84.7

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

| CAS No.   | Analyte   | Concentration | C                | Q | M   |
|-----------|-----------|---------------|------------------|---|-----|
| 7429-90-5 | Aluminum  | 4050          |                  |   | IF  |
| 7440-36-0 | Antimony  | 4.3           | U                |   | IF  |
| 7440-38-2 | Arsenic   | 25.0          | IN               |   | IF  |
| 7440-39-3 | Barium    | 154           |                  |   | IF  |
| 7440-41-7 | Beryllium | 0.21          | U                |   | IF  |
| 7440-43-9 | Cadmium   | 9.2           |                  |   | IF  |
| 7440-70-2 | Calcium   | 8680          |                  |   | IF  |
| 7440-47-3 | Chromium  | 124           |                  |   | IF  |
| 7440-48-4 | Cobalt    | 12.7          |                  |   | IF  |
| 7440-50-8 | Copper    | 629           | IN               |   | IF  |
| 7439-89-6 | Iron      | 91800         |                  |   | IF  |
| 7439-92-1 | Lead      | 1190          | <del>IN</del>    |   | IF  |
| 7439-95-4 | Magnesium | 2370          | <del>1/4/0</del> |   | IF  |
| 7439-96-5 | Manganese | 667           |                  |   | IF  |
| 7439-97-6 | Mercury   | 1.3           |                  |   | ICV |
| 7440-02-0 | Nickel    | 168           |                  |   | IF  |
| 7440-09-7 | Potassium | 928           | BI               |   | IF  |
| 7782-49-2 | Selenium  | 0.78          | BIN              |   | IF  |
| 7440-22-4 | Silver    | 0.62          | U                |   | IF  |
| 7440-23-5 | Sodium    | 260           | BI               |   | IF  |
| 7440-28-0 | Thallium  | 0.45          | U                |   | IF  |
| 7440-62-2 | Vanadium  | 41.8          |                  |   | IF  |
| 7440-66-6 | Zinc      | 1310          |                  |   | IF  |
|           | Cyanide   |               |                  |   | INR |

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts: YES

Comments:

ROCKS, ROOTS

1380

U.S. EPA - CLF

EPA SAMPLE NO.

1  
INORGANIC ANALYSIS DATA SHEET

S-102

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: Z0060

Matrix (soil/water): SOIL

Lab Sample ID: Z06004

Level (low/med): LOW

Date Received: 01/19/93

% Solids: 86.2

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

| CAS No.   | Analyte   | Concentration | CI            | G               | IM |
|-----------|-----------|---------------|---------------|-----------------|----|
| 7429-90-5 | Aluminum  | 3020          |               |                 | IP |
| 7440-36-0 | Antimony  | 10.7          | BI            |                 | IP |
| 7440-38-2 | Arsenic   | 21.2          | IN            |                 | IF |
| 7440-39-3 | Barium    | 74.5          |               |                 | IP |
| 7440-41-7 | Beryllium | 0.20          | UI            |                 | IP |
| 7440-43-9 | Cadmium   | 1.4           |               |                 | IP |
| 7440-70-2 | Calcium   | 1630          |               |                 | IP |
| 7440-47-3 | Chromium  | 29.4          |               |                 | IP |
| 7440-48-4 | Cobalt    | 6.5           | BI            |                 | IP |
| 7440-50-8 | Copper    | 344           | IN            |                 | IP |
| 7439-89-6 | Iron      | 41800         |               |                 | IP |
| 7439-92-1 | Lead      | 393           | <del>IN</del> | <del>10/5</del> | IF |
| 7439-95-4 | Magnesium | 1180          |               |                 | IP |
| 7439-96-5 | Manganese | 233           |               |                 | IP |
| 7439-97-6 | Mercury   | 0.94          |               |                 | CV |
| 7440-02-0 | Nickel    | 26.1          |               |                 | IP |
| 7440-09-7 | Potassium | 616           | BI            |                 | IP |
| 7782-49-2 | Selenium  | 1.4           | IN            |                 | IF |
| 7440-22-4 | Silver    | 0.59          | UI            |                 | IP |
| 7440-23-5 | Sodium    | 144           | BI            |                 | IP |
| 7440-28-0 | Thallium  | 0.40          | UI            |                 | IF |
| 7440-62-2 | Vanadium  | 41.7          |               |                 | IP |
| 7440-66-6 | Zinc      | 134           |               |                 | IP |
|           | Cyanide   |               |               |                 | NR |

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After: CLEAR

Artifacts: YES

Comments:

ROCKS, ROOTS

1381

U.S. EPA - CLP

EPA SAMPLE NO.

1  
INORGANIC ANALYSIS DATA SHEET

CS-43

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix (soil/water): SOIL

Lab Sample ID: Z06005

Level (low/med): LOW

Date Received: 01/19/93

% Solids: 81.9

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

| CAS No.   | Analyte   | Concentration | C   | Q    | M  |
|-----------|-----------|---------------|-----|------|----|
| 7429-90-5 | Aluminum  |               |     |      | NR |
| 7440-36-0 | Antimony  |               |     |      | NR |
| 7440-38-2 | Arsenic   |               |     |      | NR |
| 7440-39-3 | Barium    |               |     |      | NR |
| 7440-41-7 | Beryllium |               |     |      | NR |
| 7440-43-9 | Cadmium   |               |     |      | NR |
| 7440-70-2 | Calcium   |               |     |      | NR |
| 7440-47-3 | Chromium  |               |     |      | NR |
| 7440-48-4 | Cobalt    |               |     |      | NR |
| 7440-50-8 | Copper    |               |     |      | NR |
| 7439-89-6 | Iron      |               |     |      | NR |
| 7439-92-1 | Lead      |               |     |      | NR |
| 7439-95-4 | Magnesium |               |     |      | NR |
| 7439-96-5 | Manganese |               |     |      | NR |
| 7439-97-6 | Mercury   | 22.5          | 2.2 | 22.5 | CV |
| 7440-02-0 | Nickel    |               |     |      | NR |
| 7440-09-7 | Potassium |               |     |      | NR |
| 7782-49-2 | Selenium  |               |     |      | NR |
| 7440-22-4 | Silver    |               |     |      | NR |
| 7440-23-5 | Sodium    |               |     |      | NR |
| 7440-28-0 | Thallium  |               |     |      | NR |
| 7440-62-2 | Vanadium  |               |     |      | NR |
| 7440-66-6 | Zinc      |               |     |      | NR |
|           | Cyanide   |               |     |      | NR |
|           |           |               |     |      |    |

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

1382

U.S. EPA - CLP

EPA SAMPLE NO.

1  
INORGANIC ANALYSIS DATA SHEET

FIELDBLANK

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: Z0060

Matrix (soil/water): WATER

Lab Sample ID: Z06006

Level (low/med): LOW

Date Received: 01/19/93

% Solids: 0.0

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

| CAS No.   | Analyte   | Concentration | C   | Q | IM  |
|-----------|-----------|---------------|-----|---|-----|
| 7429-90-5 | Aluminum  | 22.0          | UI  |   | IF  |
| 7440-36-0 | Antimony  | 21.0          | UI  |   | IF  |
| 7440-38-2 | Arsenic   | 1.0           | UI  |   | IF  |
| 7440-39-3 | Barium    | 6.0           | UI  |   | IF  |
| 7440-41-7 | Beryllium | 1.0           | UI  |   | IF  |
| 7440-43-9 | Cadmium   | 2.0           | UI  |   | IF  |
| 7440-70-2 | Calcium   | 11.0          | UI  |   | IF  |
| 7440-47-3 | Chromium  | 3.0           | UI  |   | IF  |
| 7440-48-4 | Cobalt    | 3.0           | UI  |   | IF  |
| 7440-50-8 | Copper    | 3.0           | UI  |   | IF  |
| 7439-89-6 | Iron      | 82.0          | UI  |   | IF  |
| 7439-92-1 | Lead      | 1.0           | UIW |   | IF  |
| 7439-95-4 | Magnesium | 23.1          | Bi  |   | IF  |
| 7439-96-5 | Manganese | 1.0           | UI  |   | IF  |
| 7439-97-6 | Mercury   | 0.20          | UI  |   | ICV |
| 7440-02-0 | Nickel    | 21.0          | UI  |   | IF  |
| 7440-09-7 | Potassium | 626           | UI  |   | IF  |
| 7782-49-2 | Selenium  | 2.0           | UI  |   | IF  |
| 7440-22-4 | Silver    | 3.0           | UI  |   | IF  |
| 7440-23-5 | Sodium    | 29.0          | UI  |   | IF  |
| 7440-28-0 | Thallium  | 2.0           | UI  |   | IF  |
| 7440-62-2 | Vanadium  | 6.0           | UI  |   | IF  |
| 7440-66-6 | Zinc      | 4.0           | UI  |   | IF  |
|           | Cyanide   |               |     |   | INR |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

U.S. EPA - CLP

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | Initial Calibration |          |       | Continuing Calibration |          |       |          |       | M  |
|-----------|---------------------|----------|-------|------------------------|----------|-------|----------|-------|----|
|           | True                | Found    | %R(1) | True                   | Found    | %R(1) | Found    | %R(1) |    |
| Aluminum  | 5000.0              | 5046.53  | 100.9 | 5000.0                 | 5096.17  | 101.9 | 5054.85  | 101.1 | P  |
| Antimony  | 5000.0              | 5113.26  | 102.3 | 5000.0                 | 5156.10  | 103.1 | 5170.92  | 103.4 | P  |
| Arsenic   | 50.0                | 53.00    | 106.0 | 50.0                   | 54.10    | 108.2 | 52.90    | 105.8 | F  |
| Barium    | 5000.0              | 5103.54  | 102.1 | 5000.0                 | 5153.07  | 103.1 | 5111.45  | 102.2 | P  |
| Beryllium | 125.0               | 127.85   | 102.3 | 125.0                  | 128.44   | 102.8 | 127.86   | 102.3 | P  |
| Cadmium   | 1250.0              | 1228.95  | 98.3  | 1250.0                 | 1242.77  | 99.4  | 1235.89  | 98.9  | P  |
| Calcium   | 12500.0             | 13086.39 | 104.7 | 12500.0                | 13179.66 | 105.4 | 13126.89 | 105.0 | P  |
| Chromium  | 500.0               | 512.57   | 102.5 | 500.0                  | 515.96   | 103.2 | 513.05   | 102.6 | P  |
| Cobalt    | 1250.0              | 1271.64  | 101.7 | 1250.0                 | 1277.21  | 102.2 | 1267.01  | 101.4 | P  |
| Copper    | 625.0               | 624.23   | 99.9  | 625.0                  | 624.55   | 99.9  | 635.27   | 101.6 | P  |
| Iron      | 2500.0              | 2692.80  | 107.7 | 2500.0                 | 2630.70  | 105.2 | 2682.66  | 107.3 | P  |
| Lead      | 50.0                | 47.80    | 95.6  | 50.0                   | 48.00    | 96.0  | 53.50    | 107.0 | F  |
| Magnesium | 12500.0             | 13030.38 | 104.2 | 12500.0                | 13115.36 | 104.9 | 13018.32 | 104.1 | P  |
| Manganese | 1250.0              | 1258.32  | 100.7 | 1250.0                 | 1261.96  | 101.0 | 1252.99  | 100.2 | P  |
| Mercury   | 5.0                 | 5.17     | 103.4 | 5.0                    | 5.04     | 100.8 | 4.91     | 98.2  | CV |
| Nickel    | 1250.0              | 1282.25  | 102.6 | 1250.0                 | 1278.70  | 102.3 | 1288.35  | 103.1 | P  |
| Potassium | 12500.0             | 12651.29 | 101.2 | 12500.0                | 12391.21 | 99.1  | 12524.09 | 100.2 | P  |
| Selenium  | 50.0                | 53.30    | 106.6 | 50.0                   | 52.50    | 105.0 | 46.10    | 92.2  | F  |
| Silver    | 625.0               | 601.57   | 96.3  | 625.0                  | 603.47   | 96.6  | 600.29   | 96.0  | P  |
| Sodium    | 12500.0             | 12936.52 | 103.5 | 12500.0                | 13080.32 | 104.6 | 12966.83 | 103.7 | P  |
| Thallium  | 50.0                | 53.90    | 107.8 | 50.0                   | 46.90    | 93.8  | 50.60    | 101.2 | F  |
| Vanadium  | 1250.0              | 1293.11  | 103.4 | 1250.0                 | 1307.14  | 104.6 | 1297.68  | 103.8 | P  |
| Zinc      | 1250.0              | 1276.43  | 102.1 | 1250.0                 | 1278.56  | 102.3 | 1270.84  | 101.7 | P  |
| Cyanide   |                     |          |       |                        |          |       |          |       | NR |

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

## U.S. EPA - CLP

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |          |       |       |       | M  |
|-----------|---------------------|-------|-------|------------------------|----------|-------|-------|-------|----|
|           | True                | Found | %R(1) | True                   | Found    | %R(1) | Found | %R(1) |    |
| Aluminum  |                     |       |       | 5000.0                 | 5088.45  | 101.8 |       |       | P  |
| Antimony  |                     |       |       | 5000.0                 | 5089.40  | 101.8 |       |       | P  |
| Arsenic   |                     |       |       | 50.0                   | 54.70    | 109.4 |       |       | F  |
| Barium    |                     |       |       | 5000.0                 | 5132.00  | 102.6 |       |       | P  |
| Beryllium |                     |       |       | 125.0                  | 128.25   | 102.6 |       |       | P  |
| Cadmium   |                     |       |       | 1250.0                 | 1240.71  | 99.3  |       |       | P  |
| Calcium   |                     |       |       | 12500.0                | 13209.26 | 105.7 |       |       | P  |
| Chromium  |                     |       |       | 500.0                  | 515.72   | 103.1 |       |       | P  |
| Cobalt    |                     |       |       | 1250.0                 | 1272.38  | 101.8 |       |       | P  |
| Copper    |                     |       |       | 625.0                  | 625.46   | 100.1 |       |       | P  |
| Iron      |                     |       |       | 2500.0                 | 2717.78  | 108.7 |       |       | P  |
| Lead      |                     |       |       | 50.0                   | 53.40    | 106.8 | 53.70 | 107.4 | F  |
| Magnesium |                     |       |       | 12500.0                | 13081.75 | 104.7 |       |       | P  |
| Manganese |                     |       |       | 1250.0                 | 1258.03  | 100.6 |       |       | P  |
| Mercury   |                     |       |       | 5.0                    | 5.17     | 103.4 |       |       | CV |
| Nickel    |                     |       |       | 1250.0                 | 1289.54  | 103.2 |       |       | P  |
| Potassium |                     |       |       | 12500.0                | 12183.05 | 97.5  |       |       | P  |
| Selenium  | 50.0                | 51.80 | 103.6 | 50.0                   | 50.90    | 101.8 | 49.10 | 98.2  | F  |
| Silver    |                     |       |       | 625.0                  | 599.53   | 95.9  |       |       | P  |
| Sodium    |                     |       |       | 12500.0                | 13089.34 | 104.7 |       |       | P  |
| Thallium  | 50.0                | 50.70 | 101.4 | 50.0                   | 49.20    | 98.4  | 49.60 | 99.2  | F  |
| Vanadium  |                     |       |       | 1250.0                 | 1304.85  | 104.4 |       |       | P  |
| Zinc      |                     |       |       | 1250.0                 | 1277.60  | 102.2 |       |       | P  |
| Cyanide   |                     |       |       |                        |          |       |       |       | NR |

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

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: Z0060

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | Initial Calibration |          |       | Continuing Calibration |          |       |          |       | M  |
|-----------|---------------------|----------|-------|------------------------|----------|-------|----------|-------|----|
|           | True                | Found    | %R(1) | True                   | Found    | %R(1) | Found    | %R(1) |    |
| Aluminum  | 5000.0              | 5137.08  | 102.7 | 5000.0                 | 5296.14  | 105.9 | 5137.13  | 102.7 | P  |
| Antimony  | 5000.0              | 5017.40  | 100.3 | 5000.0                 | 5022.14  | 100.4 | 4991.50  | 99.8  | P  |
| Arsenic   | 50.0                | 52.40    | 104.8 | 50.0                   | 52.20    | 104.4 | 51.60    | 103.2 | F  |
| Barium    | 5000.0              | 5140.97  | 102.8 | 5000.0                 | 5090.82  | 101.8 | 5116.40  | 102.3 | P  |
| Beryllium | 125.0               | 128.67   | 102.9 | 125.0                  | 127.87   | 102.3 | 128.16   | 102.5 | P  |
| Cadmium   | 1250.0              | 1227.29  | 98.2  | 1250.0                 | 1222.08  | 97.8  | 1232.68  | 98.6  | P  |
| Calcium   | 12500.0             | 13196.08 | 105.6 | 12500.0                | 13116.64 | 104.9 | 13185.40 | 105.5 | P  |
| Chromium  | 500.0               | 524.21   | 104.8 | 500.0                  | 523.50   | 104.7 | 521.84   | 104.4 | P  |
| Cobalt    | 1250.0              | 1283.68  | 102.7 | 1250.0                 | 1270.82  | 101.7 | 1277.99  | 102.2 | P  |
| Copper    | 625.0               | 626.19   | 100.2 | 625.0                  | 621.97   | 99.5  | 613.54   | 98.2  | P  |
| Iron      | 2500.0              | 2688.06  | 107.5 | 2500.0                 | 2677.46  | 107.1 | 2642.65  | 105.7 | P  |
| Lead      | 50.0                | 50.10    | 100.2 | 50.0                   | 47.40    | 94.8  | 51.10    | 102.2 | F  |
| Magnesium | 12500.0             | 13148.15 | 105.2 | 12500.0                | 13071.47 | 104.6 | 13113.35 | 104.9 | P  |
| Manganese | 1250.0              | 1268.96  | 101.5 | 1250.0                 | 1258.39  | 100.7 | 1264.23  | 101.1 | P  |
| Mercury   | 5.0                 | 4.76     | 95.2  | 5.0                    | 4.76     | 95.2  | 4.98     | 99.6  | CV |
| Nickel    | 1250.0              | 1295.88  | 103.7 | 1250.0                 | 1279.43  | 102.4 | 1302.52  | 104.2 | P  |
| Potassium | 12500.0             | 12646.74 | 101.2 | 12500.0                | 12760.79 | 102.1 | 12720.89 | 101.8 | P  |
| Selenium  | 50.0                | 52.20    | 104.4 | 50.0                   | 49.70    | 99.4  | 48.80    | 97.6  | F  |
| Silver    | 625.0               | 619.39   | 99.1  | 625.0                  | 615.10   | 98.4  | 610.02   | 97.6  | P  |
| Sodium    | 12500.0             | 13014.26 | 104.1 | 12500.0                | 12921.89 | 103.4 | 12922.67 | 103.4 | P  |
| Thallium  |                     |          |       | 50.0                   | 48.50    | 97.0  |          |       | F  |
| Vanadium  | 1250.0              | 1307.29  | 104.6 | 1250.0                 | 1295.03  | 103.6 | 1301.16  | 104.1 | P  |
| Zinc      | 1250.0              | 1284.03  | 102.7 | 1250.0                 | 1275.75  | 102.1 | 1288.34  | 103.1 | P  |
| Cyanide   |                     |          |       |                        |          |       |          |       | NR |

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

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |          |       |       |       | M  |
|-----------|---------------------|-------|-------|------------------------|----------|-------|-------|-------|----|
|           | True                | Found | %R(1) | True                   | Found    | %R(1) | Found | %R(1) |    |
| Aluminum  |                     |       |       | 5000.0                 | 5190.00  | 103.8 |       |       | P  |
| Antimony  |                     |       |       | 5000.0                 | 5047.13  | 100.9 |       |       | P  |
| Arsenic   |                     |       |       | 50.0                   | 50.80    | 101.6 |       |       | F  |
| Barium    |                     |       |       | 5000.0                 | 5132.27  | 102.6 |       |       | P  |
| Beryllium |                     |       |       | 125.0                  | 128.55   | 102.8 |       |       | P  |
| Cadmium   |                     |       |       | 1250.0                 | 1234.58  | 98.8  |       |       | P  |
| Calcium   |                     |       |       | 12500.0                | 13257.55 | 106.1 |       |       | P  |
| Chromium  |                     |       |       | 500.0                  | 522.79   | 104.6 |       |       | P  |
| Cobalt    |                     |       |       | 1250.0                 | 1279.14  | 102.3 |       |       | P  |
| Copper    |                     |       |       | 625.0                  | 618.06   | 98.9  |       |       | P  |
| Iron      |                     |       |       | 2500.0                 | 2671.93  | 106.9 |       |       | P  |
| Lead      |                     |       |       | 50.0                   | 52.10    | 104.2 |       |       | F  |
| Magnesium |                     |       |       | 12500.0                | 13180.56 | 105.4 |       |       | P  |
| Manganese |                     |       |       | 1250.0                 | 1264.51  | 101.2 |       |       | P  |
| Mercury   |                     |       |       | 5.0                    | 4.98     | 99.6  |       |       | CV |
| Nickel    |                     |       |       | 1250.0                 | 1294.89  | 103.6 |       |       | P  |
| Potassium |                     |       |       | 12500.0                | 12852.20 | 102.8 |       |       | P  |
| Selenium  |                     |       |       |                        |          |       |       |       | NR |
| Silver    |                     |       |       | 625.0                  | 614.87   | 98.4  |       |       | P  |
| Sodium    |                     |       |       | 12500.0                | 12985.95 | 103.9 |       |       | P  |
| Thallium  |                     |       |       |                        |          |       |       |       | NR |
| Vanadium  |                     |       |       | 1250.0                 | 1306.17  | 104.5 |       |       | P  |
| Zinc      |                     |       |       | 1250.0                 | 1288.60  | 103.1 |       |       | P  |
| Cyanide   |                     |       |       |                        |          |       |       |       | NR |

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

U.S. EPA - CLP

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: 20060

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | M  |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|----|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |    |
| Aluminum  |                     |       |       |                        |       |       |       |       | NR |
| Antimony  |                     |       |       |                        |       |       |       |       | NR |
| Arsenic   | 50.0                | 51.40 | 102.8 | 50.0                   | 51.80 | 103.6 | 49.40 | 98.8  | F  |
| Barium    |                     |       |       |                        |       |       |       |       | NR |
| Beryllium |                     |       |       |                        |       |       |       |       | NR |
| Cadmium   |                     |       |       |                        |       |       |       |       | NR |
| Calcium   |                     |       |       |                        |       |       |       |       | NR |
| Chromium  |                     |       |       |                        |       |       |       |       | NR |
| Cobalt    |                     |       |       |                        |       |       |       |       | NR |
| Copper    |                     |       |       |                        |       |       |       |       | NR |
| Iron      |                     |       |       |                        |       |       |       |       | NR |
| Lead      | 50.0                | 50.50 | 101.0 | 50.0                   | 50.70 | 101.4 | 50.80 | 101.6 | F  |
| Magnesium |                     |       |       |                        |       |       |       |       | NR |
| Manganese |                     |       |       |                        |       |       |       |       | NR |
| Mercury   | 5.0                 | 5.02  | 100.4 | 5.0                    | 4.82  | 96.4  | 4.37  | 87.4  | CV |
| Nickel    |                     |       |       |                        |       |       |       |       | NR |
| Potassium |                     |       |       |                        |       |       |       |       | NR |
| Selenium  |                     |       |       |                        |       |       |       |       | NR |
| Silver    |                     |       |       |                        |       |       |       |       | NR |
| Sodium    |                     |       |       |                        |       |       |       |       | NR |
| Thallium  |                     |       |       |                        |       |       |       |       | NR |
| Vanadium  |                     |       |       |                        |       |       |       |       | NR |
| Zinc      |                     |       |       |                        |       |       |       |       | NR |
| Cyanide   |                     |       |       |                        |       |       |       |       | NR |

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

U.S. EPA - CLP

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | M  |
|-----------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|----|
|           | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |    |
| Aluminum  |                     |       |       |                        |       |       |       |       | NR |
| Antimony  |                     |       |       |                        |       |       |       |       | NR |
| Arsenic   |                     |       |       |                        |       |       |       |       | NR |
| Barium    |                     |       |       |                        |       |       |       |       | NR |
| Beryllium |                     |       |       |                        |       |       |       |       | NR |
| Cadmium   |                     |       |       |                        |       |       |       |       | NR |
| Calcium   |                     |       |       |                        |       |       |       |       | NR |
| Chromium  |                     |       |       |                        |       |       |       |       | NR |
| Cobalt    |                     |       |       |                        |       |       |       |       | NR |
| Copper    |                     |       |       |                        |       |       |       |       | NR |
| Iron      |                     |       |       |                        |       |       |       |       | F  |
| Lead      |                     |       |       | 50.0                   | 52.50 | 105.0 |       |       | NR |
| Magnesium |                     |       |       |                        |       |       |       |       | NR |
| Manganese |                     |       |       |                        |       |       |       |       | NR |
| Mercury   |                     |       |       |                        |       |       |       |       | NR |
| Nickel    |                     |       |       |                        |       |       |       |       | NR |
| Potassium |                     |       |       |                        |       |       |       |       | NR |
| Selenium  |                     |       |       |                        |       |       |       |       | NR |
| Silver    |                     |       |       |                        |       |       |       |       | NR |
| Sodium    |                     |       |       |                        |       |       |       |       | NR |
| Thallium  |                     |       |       |                        |       |       |       |       | NR |
| Vanadium  |                     |       |       |                        |       |       |       |       | NR |
| Zinc      |                     |       |       |                        |       |       |       |       | NR |
| Cyanide   |                     |       |       |                        |       |       |       |       |    |

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

U.S. EPA - CLP

2A

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Initial Calibration Source: INORG. VENT.

Continuing Calibration Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | Initial Calibration |       |       | True | Continuing Calibration |       |       | M    |
|-----------|---------------------|-------|-------|------|------------------------|-------|-------|------|
|           | True                | Found | %R(1) |      | Found                  | %R(1) | Found |      |
| Aluminum  |                     |       |       |      |                        |       |       | NR   |
| Antimony  |                     |       |       |      |                        |       |       | NR   |
| Arsenic   |                     |       |       |      |                        |       |       | NR   |
| Barium    |                     |       |       |      |                        |       |       | NR   |
| Beryllium |                     |       |       |      |                        |       |       | NR   |
| Cadmium   |                     |       |       |      |                        |       |       | NR   |
| Calcium   |                     |       |       |      |                        |       |       | NR   |
| Chromium  |                     |       |       |      |                        |       |       | NR   |
| Cobalt    |                     |       |       |      |                        |       |       | NR   |
| Copper    |                     |       |       |      |                        |       |       | NR   |
| Iron      |                     |       |       |      |                        |       |       | F    |
| Lead      | 50.0                | 50.30 | 100.6 | 50.0 | 48.60                  | 97.2  | 48.30 | 96.6 |
| Magnesium |                     |       |       |      |                        |       |       | NR   |
| Manganese |                     |       |       |      |                        |       |       | NR   |
| Mercury   |                     |       |       |      |                        |       |       | NR   |
| Nickel    |                     |       |       |      |                        |       |       | NR   |
| Potassium |                     |       |       |      |                        |       |       | NR   |
| Selenium  |                     |       |       |      |                        |       |       | NR   |
| Silver    |                     |       |       |      |                        |       |       | NR   |
| Sodium    |                     |       |       |      |                        |       |       | NR   |
| Thallium  |                     |       |       |      |                        |       |       | NR   |
| Vanadium  |                     |       |       |      |                        |       |       | NR   |
| Zinc      |                     |       |       |      |                        |       |       | NR   |
| Cyanide   |                     |       |       |      |                        |       |       |      |

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

U.S. EPA - CLF

28

## CRDL STANDARD FOR AA AND ICP

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: Z0060

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | CRDL Standard for AA |       |       | CRDL Standard for ICP |               |       |             |       |
|-----------|----------------------|-------|-------|-----------------------|---------------|-------|-------------|-------|
|           | True                 | Found | %R    | True                  | Initial Found | %R    | Final Found | %R    |
| Aluminum  |                      |       |       | 400.0                 | 401.34        | 100.3 | 397.30      | 99.3  |
| Antimony  |                      |       |       | 120.0                 | 113.67        | 94.7  | 125.84      | 104.9 |
| Arsenic   | 10.0                 | 9.80  | 98.0  |                       |               |       |             |       |
| Barium    |                      |       |       | 400.0                 | 407.86        | 102.0 | 401.01      | 100.3 |
| Beryllium |                      |       |       | 10.0                  | 10.39         | 103.9 | 9.55        | 95.5  |
| Cadmium   |                      |       |       | 10.0                  | 9.40          | 94.0  | 10.19       | 101.9 |
| Calcium   |                      |       |       |                       | 15.50         |       | 18.96       |       |
| Chromium  |                      |       |       | 20.0                  | 21.32         | 106.6 | 21.32       | 106.6 |
| Cobalt    |                      |       |       | 100.0                 | 101.67        | 101.7 | 99.48       | 99.5  |
| Copper    |                      |       |       | 50.0                  | 49.69         | 99.4  | 56.12       | 112.2 |
| Iron      |                      |       |       | 200.0                 | 236.40        | 118.2 | 270.07      | 135.0 |
| Lead      | 3.0                  | 3.00  | 100.0 |                       | -0.66         |       | -15.03      |       |
| Magnesium |                      |       |       |                       | 32.23         | 107.4 | 31.95       | 106.5 |
| Manganese |                      |       |       | 30.0                  |               |       |             |       |
| Mercury   |                      |       |       |                       | 83.65         | 104.6 | 76.94       | 96.2  |
| Nickel    |                      |       |       | 80.0                  | -132.97       |       | -404.70     |       |
| Potassium |                      |       |       |                       |               |       |             |       |
| Selenium  | 5.0                  | 5.00  | 100.0 |                       |               |       |             |       |
| Silver    |                      |       |       | 20.0                  | 20.64         | 103.2 | 20.29       | 101.4 |
| Sodium    |                      |       |       |                       | 65.12         |       | 33.65       |       |
| Thallium  | 10.0                 | 9.10  | 91.0  |                       |               |       |             |       |
| Vanadium  |                      |       |       | 100.0                 | 103.89        | 103.9 | 101.89      | 101.9 |
| Zinc      |                      |       |       | 40.0                  | 37.70         | 94.2  | 37.45       | 93.6  |

2B

## CRDL STANDARD FOR AA AND ICP

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source: INORG. VENT.

Concentration Units: ug/L

| Analyte   | CRDL Standard for AA |       |       | CRDL Standard for ICP |               |       |             |       |
|-----------|----------------------|-------|-------|-----------------------|---------------|-------|-------------|-------|
|           | True                 | Found | %R    | True                  | Initial Found | %R    | Final Found | %R    |
| Aluminum  |                      |       |       | 400.0                 | 397.98        | 99.5  | 411.08      | 102.8 |
| Antimony  |                      |       |       | 120.0                 | 121.06        | 100.9 | 107.77      | 89.8  |
| Arsenic   | 10.0                 | 10.40 | 104.0 |                       |               |       |             |       |
| Barium    |                      |       |       | 400.0                 | 400.14        | 100.0 | 397.58      | 99.4  |
| Beryllium |                      |       |       | 10.0                  | 9.96          | 99.6  | 9.92        | 99.2  |
| Cadmium   |                      |       |       | 10.0                  | 10.50         | 105.0 | 11.49       | 114.9 |
| Calcium   |                      |       |       |                       | 11.39         |       | 27.47       |       |
| Chromium  |                      |       |       | 20.0                  | 23.49         | 117.4 | 23.49       | 117.4 |
| Cobalt    |                      |       |       | 100.0                 | 100.14        | 100.1 | 101.20      | 101.2 |
| Copper    |                      |       |       | 50.0                  | 50.34         | 100.7 | 46.73       | 93.5  |
| Iron      |                      |       |       | 200.0                 | 139.20        | 69.6  | 204.61      | 102.3 |
| Lead      | 3.0                  | 3.20  | 106.7 |                       |               |       |             |       |
| Magnesium |                      |       |       |                       | 1.68          |       | 21.31       |       |
| Manganese |                      |       |       | 30.0                  | 30.87         | 102.9 | 31.43       | 104.8 |
| Mercury   |                      |       |       |                       |               |       |             |       |
| Nickel    |                      |       |       | 80.0                  | 83.76         | 104.7 | 86.11       | 107.6 |
| Potassium |                      |       |       |                       | -559.20       |       | 262.50      |       |
| Selenium  | 5.0                  | 5.20  | 104.0 |                       |               |       |             |       |
| Silver    |                      |       |       | 20.0                  | 20.75         | 103.8 | 21.04       | 105.2 |
| Sodium    |                      |       |       |                       | 27.42         |       | 30.35       |       |
| Thallium  | 10.0                 | 9.70  | 97.0  |                       |               |       |             |       |
| Vanadium  |                      |       |       | 100.0                 | 92.30         | 92.3  | 102.04      | 102.0 |
| Zinc      |                      |       |       | 40.0                  | 40.68         | 101.7 | 40.56       | 101.4 |

2B  
CRDL STANDARD FOR AA AND ICP

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: Z0060

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source:

Concentration Units: ug/L

| Analyte   | CRDL Standard for AA |       |       | CRDL Standard for ICP |                  |    |                |    |
|-----------|----------------------|-------|-------|-----------------------|------------------|----|----------------|----|
|           | True                 | Found | %R    | True                  | Initial<br>Found | %R | Final<br>Found | %R |
| Aluminum  |                      |       |       |                       |                  |    |                |    |
| Antimony  |                      |       |       |                       |                  |    |                |    |
| Arsenic   | 10.0                 | 9.80  | 98.0  |                       |                  |    |                |    |
| Barium    |                      |       |       |                       |                  |    |                |    |
| Beryllium |                      |       |       |                       |                  |    |                |    |
| Cadmium   |                      |       |       |                       |                  |    |                |    |
| Calcium   |                      |       |       |                       |                  |    |                |    |
| Chromium  |                      |       |       |                       |                  |    |                |    |
| Cobalt    |                      |       |       |                       |                  |    |                |    |
| Copper    |                      |       |       |                       |                  |    |                |    |
| Iron      |                      |       |       |                       |                  |    |                |    |
| Lead      | 3.0                  | 3.10  | 103.3 |                       |                  |    |                |    |
| Magnesium |                      |       |       |                       |                  |    |                |    |
| Manganese |                      |       |       |                       |                  |    |                |    |
| Mercury   |                      |       |       |                       |                  |    |                |    |
| Nickel    |                      |       |       |                       |                  |    |                |    |
| Potassium |                      |       |       |                       |                  |    |                |    |
| Selenium  | 5.0                  | 6.20  | 124.0 |                       |                  |    |                |    |
| Silver    |                      |       |       |                       |                  |    |                |    |
| Sodium    |                      |       |       |                       |                  |    |                |    |
| Thallium  |                      |       |       |                       |                  |    |                |    |
| Vanadium  |                      |       |       |                       |                  |    |                |    |
| Zinc      |                      |       |       |                       |                  |    |                |    |

2B

## CRDL STANDARD FOR AA AND ICP

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDB No.: Z0060

AA CRDL Standard Source: INORG. VENT.

ICP CRDL Standard Source:

Concentration Units: ug/L

| Analyte   | CRDL Standard for AA |       |      | CRDL Standard for ICP |                  |    |                |    |
|-----------|----------------------|-------|------|-----------------------|------------------|----|----------------|----|
|           | True                 | Found | %R   | True                  | Initial<br>Found | %R | Final<br>Found | %R |
| Aluminum  |                      |       |      |                       |                  |    |                |    |
| Antimony  |                      |       |      |                       |                  |    |                |    |
| Arsenic   |                      |       |      |                       |                  |    |                |    |
| Barium    |                      |       |      |                       |                  |    |                |    |
| Beryllium |                      |       |      |                       |                  |    |                |    |
| Cadmium   |                      |       |      |                       |                  |    |                |    |
| Calcium   |                      |       |      |                       |                  |    |                |    |
| Chromium  |                      |       |      |                       |                  |    |                |    |
| Cobalt    |                      |       |      |                       |                  |    |                |    |
| Copper    |                      |       |      |                       |                  |    |                |    |
| Iron      |                      |       |      |                       |                  |    |                |    |
| Lead      | 3.0                  | 2.70  | 90.0 |                       |                  |    |                |    |
| Magnesium |                      |       |      |                       |                  |    |                |    |
| Manganese |                      |       |      |                       |                  |    |                |    |
| Mercury   |                      |       |      |                       |                  |    |                |    |
| Nickel    |                      |       |      |                       |                  |    |                |    |
| Potassium |                      |       |      |                       |                  |    |                |    |
| Selenium  |                      |       |      |                       |                  |    |                |    |
| Silver    |                      |       |      |                       |                  |    |                |    |
| Sodium    |                      |       |      |                       |                  |    |                |    |
| Thallium  |                      |       |      |                       |                  |    |                |    |
| Vanadium  |                      |       |      |                       |                  |    |                |    |
| Zinc      |                      |       |      |                       |                  |    |                |    |

3  
BLANKS

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Preparation Blank Matrix (soil/water): WATER

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

| Analyte   | Initial<br>Calib.<br>Blank<br>(ug/L) | Continuing Calibration<br>Blank (ug/L) |         |         |         | Prepa-<br>ration<br>Blank | C | M  |
|-----------|--------------------------------------|----------------------------------------|---------|---------|---------|---------------------------|---|----|
|           |                                      | 1                                      | 2       | 3       |         |                           |   |    |
| Aluminum  | 22.0 U                               | 22.9 B                                 | 22.0 U  | 22.0 U  | 22.0 U  | 22.000 U                  |   | P  |
| Antimony  | 21.0 U                               | 21.0 U                                 | 21.0 U  | 21.0 U  | 21.0 U  | 21.000 U                  |   | P  |
| Arsenic   | -1.0 B                               | -1.3 B                                 | -1.0 B  | -1.5 B  | -1.5 B  | -1.200 B                  |   | F  |
| Barium    | 6.0 U                                | 6.0 U                                  | 6.0 U   | 6.0 U   | 6.0 U   | 6.000 U                   |   | P  |
| Beryllium | 1.0 U                                | 1.0 U                                  | 1.0 U   | 1.0 U   | 1.0 U   | 1.000 U                   |   | P  |
| Cadmium   | 2.0 U                                | 2.0 U                                  | 2.0 U   | 2.0 U   | 2.0 U   | 2.000 U                   |   | P  |
| Calcium   | 11.0 U                               | 11.0 U                                 | 11.0 U  | 18.3 B  | 18.3 B  | 11.000 U                  |   | P  |
| Chromium  | 3.0 U                                | 3.0 U                                  | 3.2 B   | 3.0 U   | 3.0 U   | 3.000 U                   |   | P  |
| Cobalt    | 3.0 U                                | 3.0 U                                  | 3.0 U   | 3.0 U   | 3.0 U   | 3.000 U                   |   | P  |
| Copper    | 3.0 U                                | 3.0 U                                  | 7.0 B   | 3.0 U   | 3.0 U   | -4.510 B                  |   | P  |
| Iron      | 82.0 U                               | 82.0 U                                 | 82.0 U  | 82.0 U  | 82.0 U  | 82.000 U                  |   | P  |
| Lead      | 1.0 U                                | 1.0 U                                  | 1.0 U   | 1.0 U   | 1.0 U   | 1.000 U                   |   | F  |
| Magnesium | 23.0 U                               | 23.0 U                                 | 23.0 U  | 33.6 B  | 33.6 B  | 23.000 U                  |   | P  |
| Manganese | 1.0 U                                | 1.0 U                                  | 1.0 U   | 1.0 U   | 1.0 U   | 1.000 U                   |   | P  |
| Mercury   | 0.2 U                                | 0.2 U                                  | 0.2 U   | 0.2 U   | 0.2 U   | 0.200 U                   |   | CV |
| Nickel    | 21.0 U                               | 21.0 U                                 | 21.0 U  | 21.0 U  | 21.0 U  | 21.000 U                  |   | P  |
| Potassium | 626.0 U                              | 626.0 U                                | 626.0 U | 626.0 U | 626.0 U | 626.000 U                 |   | P  |
| Selenium  | 2.0 U                                | 2.0 U                                  | 2.0 U   |         |         | 2.000 U                   |   | F  |
| Silver    | 3.0 U                                | 3.0 U                                  | 3.0 U   | 3.0 U   | 3.0 U   | 3.000 U                   |   | P  |
| Sodium    | 29.0 U                               | 29.0 U                                 | 29.0 U  | 29.0 U  | 29.0 U  | 29.000 U                  |   | P  |
| Thallium  | 2.0 U                                | 2.0 U                                  | 2.0 U   |         |         | 2.000 U                   |   | F  |
| Vanadium  | 6.0 U                                | 6.0 U                                  | 6.0 U   | 6.0 U   | 6.0 U   | 6.000 U                   |   | P  |
| Zinc      | 4.0 U                                | 4.0 U                                  | 4.0 U   | 4.0 U   | 4.0 U   | 4.000 U                   |   | P  |
| Cyanide   |                                      |                                        |         |         |         |                           |   | NR |

## U.S. EPA - CLP

3  
BLANKS

0 1395

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte   | Initial<br>Calib.<br>Blank<br>(ug/L) | Continuing Calibration<br>Blank (ug/L) |         |         |  | Prepa-<br>ration<br>Blank | C | M  |
|-----------|--------------------------------------|----------------------------------------|---------|---------|--|---------------------------|---|----|
|           |                                      | 1                                      | 2       | 3       |  |                           |   |    |
| Aluminum  | 22.0 U                               | 22.0 U                                 | 22.0 U  | 47.6 B  |  | 4.400 U                   |   | P  |
| Antimony  | 21.0 U                               | 21.0 U                                 | 21.0 U  | -26.3 B |  | 4.200 U                   |   | P  |
| Arsenic   | 1.0 U                                | 1.0 U                                  | 1.0 U   | 1.0 U   |  | 0.200 U                   |   | F  |
| Barium    | 6.0 U                                | 6.0 U                                  | 6.0 U   | 6.0 U   |  | 1.200 U                   |   | P  |
| Beryllium | 1.0 U                                | 1.0 U                                  | 1.0 U   | 1.0 U   |  | 0.200 U                   |   | P  |
| Cadmium   | 2.0 U                                | 2.0 U                                  | 2.0 U   | 2.0 U   |  | 0.400 U                   |   | P  |
| Calcium   | 11.0 U                               | 11.0 U                                 | 11.0 U  | 11.0 U  |  | 2.200 U                   |   | P  |
| Chromium  | 3.0 U                                | 3.0 U                                  | 3.0 U   | 3.0 U   |  | 0.600 U                   |   | P  |
| Cobalt    | 3.0 U                                | 3.0 U                                  | 3.0 U   | 3.0 U   |  | 0.600 U                   |   | P  |
| Copper    | -3.9 B                               | -3.9 B                                 | -7.2 B  | -5.7 B  |  | -0.614 B                  |   | P  |
| Iron      | 82.0 U                               | 82.0 U                                 | 82.0 U  | 82.0 U  |  | 16.400 U                  |   | P  |
| Lead      |                                      | 1.0 U                                  |         |         |  | 0.200 U                   |   | F  |
| Magnesium | 23.0 U                               | 33.6 B                                 | 23.0 U  | 30.1 B  |  | 4.600 U                   |   | P  |
| Manganese | 1.0 U                                | 1.0 U                                  | 1.0 U   | 1.0 U   |  | 0.200 U                   |   | P  |
| Mercury   | 0.2 U                                | 0.2 U                                  | 0.2 U   | 0.2 U   |  | 0.100 U                   |   | CV |
| Nickel    | 21.0 U                               | 21.0 U                                 | 21.0 U  | 21.0 U  |  | 4.200 U                   |   | P  |
| Potassium | 626.0 U                              | 626.0 U                                | 626.0 U | 626.0 U |  | 125.200 U                 |   | P  |
| Selenium  | 2.0 U                                | 2.0 U                                  | 2.0 U   |         |  | 0.400 U                   |   | F  |
| Silver    | 3.0 U                                | 3.0 U                                  | 3.0 U   | 3.0 U   |  | 0.600 U                   |   | P  |
| Sodium    | 29.0 U                               | 29.0 U                                 | 29.0 U  | 29.0 U  |  | 5.800 U                   |   | P  |
| Thallium  | 2.0 U                                | 2.0 U                                  | 2.0 U   | 2.0 U   |  | 0.400 U                   |   | F  |
| Vanadium  | 6.0 U                                | 6.0 U                                  | 6.0 U   | 6.0 U   |  | 1.200 U                   |   | P  |
| Zinc      | 4.0 U                                | 4.0 U                                  | 4.0 U   | 4.0 U   |  | 0.800 U                   |   | P  |
| Cyanide   |                                      |                                        |         |         |  |                           |   | NR |

## U.S. EPA - CLP

3  
BLANKS

C 1396

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte   | Initial<br>Calib.<br>Blank<br>(ug/L) | C | Continuing Calibration<br>Blank (ug/L) |   |     |   |     |   | Preparation<br>Blank | C | M  |
|-----------|--------------------------------------|---|----------------------------------------|---|-----|---|-----|---|----------------------|---|----|
|           |                                      |   | 1                                      | C | 2   | C | 3   | C |                      |   |    |
| Aluminum  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Antimony  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Arsenic   | 1.0                                  | U | 1.0                                    | U | 1.0 | U |     |   |                      |   | F  |
| Barium    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Beryllium |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Cadmium   |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Calcium   |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Chromium  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Cobalt    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Copper    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Iron      |                                      |   |                                        |   |     |   |     |   |                      |   | F  |
| Lead      | 1.0                                  | U | 1.0                                    | U | 1.0 | U | 1.0 | U |                      |   | NR |
| Magnesium |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Manganese |                                      |   |                                        |   |     |   |     |   | 0.100                | U | CV |
| Mercury   | 0.2                                  | U | 0.2                                    | U | 0.2 | U |     |   |                      |   | NR |
| Nickel    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Potassium |                                      |   |                                        |   |     |   |     |   |                      |   | F  |
| Selenium  | 2.0                                  | U | 2.0                                    | U | 2.0 | U |     |   |                      |   | NR |
| Silver    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Sodium    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Thallium  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Vanadium  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Zinc      |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Cyanide   |                                      |   |                                        |   |     |   |     |   |                      |   |    |

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte   | Initial<br>Calib.<br>Blank<br>(ug/L) | C | Continuing Calibration<br>Blank (ug/L) |   |     |   |     |   | Preparation<br>Blank | C | M  |
|-----------|--------------------------------------|---|----------------------------------------|---|-----|---|-----|---|----------------------|---|----|
|           |                                      |   | 1                                      | C | 2   | C | 3   | C |                      |   |    |
| Aluminum  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Antimony  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Arsenic   |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Barium    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Beryllium |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Cadmium   |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Calcium   |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Chromium  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Cobalt    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Copper    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Iron      |                                      |   |                                        |   |     |   |     |   |                      |   | F  |
| Lead      | 1.0                                  | U | 1.0                                    | U | 1.0 | U | 1.0 | U |                      |   | NR |
| Magnesium |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Manganese |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Mercury   |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Nickel    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Potassium |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Selenium  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Silver    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Sodium    |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Thallium  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Vanadium  |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Zinc      |                                      |   |                                        |   |     |   |     |   |                      |   | NR |
| Cyanide   |                                      |   |                                        |   |     |   |     |   |                      |   |    |

3  
BLANKS

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

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

| Analyte   | Initial<br>Calib.<br>Blank<br>(ug/L) | C | Continuing Calibration<br>Blank (ug/L) |   |     |   |   |   | Prepa-<br>ration<br>Blank | C | M  |
|-----------|--------------------------------------|---|----------------------------------------|---|-----|---|---|---|---------------------------|---|----|
|           |                                      |   | 1                                      | C | 2   | C | 3 | C |                           |   |    |
| Aluminum  |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Antimony  |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Arsenic   |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Barium    |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Beryllium |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Cadmium   |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Calcium   |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Chromium  |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Cobalt    |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Copper    |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Iron      |                                      |   |                                        |   |     |   |   |   |                           |   | F  |
| Lead      | 1.0                                  | U | 1.0                                    | U | 1.0 | U |   |   |                           |   | NR |
| Magnesium |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Manganese |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Mercury   |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Nickel    |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Potassium |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Selenium  |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Silver    |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Sodium    |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Thallium  |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Vanadium  |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Zinc      |                                      |   |                                        |   |     |   |   |   |                           |   | NR |
| Cyanide   |                                      |   |                                        |   |     |   |   |   |                           |   |    |

## U.S. EPA - CLP

6 1399

4

## ICP INTERFERENCE CHECK SAMPLE

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number: JA61

ICS Source: EPA-LV87

Concentration Units: ug/L

| Analyte   | True   |         | Initial Found |          |       | Final Found |          |       |
|-----------|--------|---------|---------------|----------|-------|-------------|----------|-------|
|           | Sol. A | Sol. AB | Sol. A        | Sol. AB  | %R    | Sol. A      | Sol. AB  | %R    |
| Aluminum  | 500000 | 500000  | 493476        | 491935.4 | 98.4  | 486812      | 484330.6 | 96.9  |
| Antimony  |        |         | 24            | 54.5     |       | -21         | 57.4     |       |
| Arsenic   |        |         |               |          |       | -3          | 485.0    | 97.0  |
| Barium    |        | 500     | -4            | 492.8    | 98.6  | 47          | 547.9    | 109.6 |
| Beryllium |        | 500     | 45            | 550.8    | 110.2 | 0           | 920.0    | 92.0  |
| Cadmium   |        | 1000    | -1            | 936.1    | 93.6  | 483461      | 480671.0 | 96.1  |
| Calcium   | 500000 | 500000  | 485497        | 486067.8 | 97.2  | -4          | 452.1    | 90.4  |
| Chromium  |        | 500     | -4            | 452.3    | 90.5  | -1          | 448.3    | 89.7  |
| Cobalt    |        | 500     | -2            | 452.0    | 90.4  | -6          | 461.6    | 92.3  |
| Copper    |        | 500     | 3             | 462.1    | 92.4  | 184699      | 183238.6 | 91.6  |
| Iron      | 200000 | 200000  | 185556        | 185400.2 | 92.7  |             |          |       |
| Lead      |        |         |               |          |       | 504675      | 501991.6 | 100.4 |
| Magnesium | 500000 | 500000  | 509675        | 507966.6 | 101.6 | 1           | 463.9    | 92.8  |
| Manganese |        | 500     | 1             | 471.1    | 94.2  |             |          |       |
| Mercury   |        |         |               |          |       | -8          | 883.6    | 88.4  |
| Nickel    |        | 1000    | -9            | 909.9    | 91.0  | -158        | -259.1   |       |
| Potassium |        |         | -222          | -224.2   |       |             |          |       |
| Selenium  |        |         |               |          |       | 0           | 938.0    | 93.8  |
| Silver    |        | 1000    | 0             | 959.2    | 95.9  | 5           | 30.2     |       |
| Sodium    |        |         | -11           | 18.8     |       |             |          |       |
| Thallium  |        |         |               |          |       | 2           | 494.3    | 98.9  |
| Vanadium  |        | 500     | 5             | 495.2    | 99.0  | -4          | 925.7    | 92.6  |
| Zinc      |        | 1000    | -5            | 936.8    | 93.7  |             |          |       |

## ICP INTERFERENCE CHECK SAMPLE

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number: JA61

ICS Source: EPA-LV87

Concentration Units: ug/L

| Analyte   | True   |         | Initial Found |          |       | Final Found |          |       |
|-----------|--------|---------|---------------|----------|-------|-------------|----------|-------|
|           | Sol. A | Sol. AB | Sol. A        | Sol. AB  | %R    | Sol. A      | Sol. AB  | %R    |
| Aluminum  | 500000 | 500000  | 503843        | 498234.4 | 99.6  | 497727      | 489870.7 | 98.0  |
| Antimony  |        |         | -5            | -30.4    |       | 29          | -3.6     |       |
| Arsenic   |        |         |               |          |       |             |          |       |
| Barium    |        | 500     | -4            | 488.5    | 97.7  | -4          | 481.9    | 96.4  |
| Beryllium |        | 500     | 3             | 508.5    | 101.7 | 10          | 506.3    | 101.3 |
| Cadmium   |        | 1000    | 2             | 933.9    | 93.4  | 1           | 925.8    | 92.6  |
| Calcium   | 500000 | 500000  | 488843        | 482343.1 | 96.5  | 485889      | 477965.2 | 95.6  |
| Chromium  |        | 500     | -3            | 453.8    | 90.8  | -2          | 451.9    | 90.4  |
| Cobalt    |        | 500     | -1            | 453.0    | 90.6  | 0           | 447.5    | 89.5  |
| Copper    |        | 500     | -7            | 458.3    | 91.7  | -11         | 447.6    | 89.5  |
| Iron      | 200000 | 200000  | 191222        | 187812.6 | 93.9  | 189786      | 186234.4 | 93.1  |
| Lead      |        |         |               |          |       |             |          |       |
| Magnesium | 500000 | 500000  | 514835        | 507929.2 | 101.6 | 509297      | 500724.0 | 100.1 |
| Manganese |        | 500     | -2            | 465.4    | 93.1  | -2          | 460.6    | 92.1  |
| Mercury   |        |         |               |          |       |             |          |       |
| Nickel    |        | 1000    | 1             | 881.7    | 88.2  | -6          | 895.4    | 89.5  |
| Potassium |        |         | 26            | 344.5    |       | -133        | 137.5    |       |
| Selenium  |        |         |               |          |       |             |          |       |
| Silver    |        | 1000    | -1            | 963.5    | 96.4  | 0           | 944.7    | 94.5  |
| Sodium    |        |         | -16           | 50.6     |       | -14         | 54.7     |       |
| Thallium  |        |         |               |          |       |             |          |       |
| Vanadium  |        | 500     | -4            | 481.5    | 96.3  | -1          | 481.0    | 96.2  |
| Zinc      |        | 1000    | -1            | 940.0    | 94.0  | -1          | 930.2    | 93.0  |

U.S. EPA - CLP

1401

EPA SAMPLE NO.

5A  
SPIKE SAMPLE RECOVERY

J-160J

~~Z000000~~

10/20/00

Contract:

Lab Name: IEA

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix (soil/water): SOIL  
% Solids for Sample: 86.7

Level (low/med): LOW

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

| Analyte   | Control<br>Limit<br>%R | Spiked Sample<br>Result (SSR) C | Sample<br>Result (SR) C | Spike<br>Added (SA) | %R     | Q | M  |
|-----------|------------------------|---------------------------------|-------------------------|---------------------|--------|---|----|
| Aluminum  |                        |                                 |                         |                     |        |   | NR |
| Antimony  | 75-125                 | 79.0386                         | 4.2870 U                | 98.58               | 80.2   |   | F  |
| Arsenic   | 75-125                 | 13.1705                         | 7.7430                  | 7.89                | 68.8   | N | F  |
| Barium    | 75-125                 | 455.6847                        | 84.7986                 | 394.33              | 94.1   |   | F  |
| Beryllium | 75-125                 | 10.0553                         | 0.2041 U                | 9.86                | 102.0  |   | F  |
| Cadmium   | 75-125                 | 9.3909                          | 1.5841                  | 9.86                | 79.2   |   | F  |
| Calcium   |                        |                                 |                         |                     |        |   | NR |
| Chromium  | 75-125                 | 63.1493                         | 23.1865                 | 39.43               | 101.4  |   | F  |
| Cobalt    | 75-125                 | 105.4466                        | 6.6632 B                | 98.58               | 100.2  |   | F  |
| Copper    | 75-125                 | 158.3829                        | 131.5961                | 49.29               | 54.3   | N | F  |
| Iron      |                        |                                 |                         |                     |        |   | NR |
| Lead      |                        | 321.3754                        | 251.2450                | 3.94                | 1780.0 |   | F  |
| Magnesium |                        |                                 |                         |                     |        |   | NR |
| Manganese | 75-125                 | 432.9361                        | 318.0431                | 98.58               | 116.5  |   | F  |
| Mercury   | 75-125                 | 1.0381                          | 0.4902                  | 0.55                | 99.6   |   | CV |
| Nickel    | 75-125                 | 120.4349                        | 20.6102                 | 98.58               | 101.3  |   | F  |
| Potassium |                        |                                 |                         |                     |        |   | NR |
| Selenium  | 75-125                 | 1.3999                          | 0.5186 B                | 1.97                | 44.7   | N | F  |
| Silver    | 75-125                 | 8.4524                          | 0.6124 U                | 9.86                | 85.7   |   | F  |
| Sodium    |                        |                                 |                         |                     |        |   | NR |
| Thallium  | 75-125                 | 10.0947                         | 0.3576 U                | 9.86                | 102.4  |   | F  |
| Vanadium  | 75-125                 | 135.4903                        | 37.9725                 | 98.58               | 98.9   |   | F  |
| Zinc      | 75-125                 | 361.1609                        | 275.0487                | 98.58               | 87.4   |   | F  |
| Cyanide   |                        |                                 |                         |                     |        |   | NR |

Comments:

c 1402

U.S. EPA - CLP

EPA SAMPLE NO.

58  
POST DIGEST SPIKE SAMPLE RECOVERY

J-100A

Z00000A

12/10/0

Contract:

Lab Name: IEA

SAS No.:

SDG No.: Z0060

Lab Code: IEA

Case No.: 0060

Level (low/med): LOW

Matrix (soil/water): SOIL

Concentration Units: ug/L

| Analyte   | Control<br>Limit<br>%R | Spiked Sample<br>Result (SSR) | Sample<br>Result (SR) | Spike<br>Added (SA) | %R    | G/M |
|-----------|------------------------|-------------------------------|-----------------------|---------------------|-------|-----|
| Aluminum  |                        |                               |                       |                     |       | NR  |
| Antimony  |                        |                               |                       |                     |       | NR  |
| Arsenic   |                        |                               |                       |                     |       | NR  |
| Barium    |                        |                               |                       |                     |       | NR  |
| Beryllium |                        |                               |                       |                     |       | NR  |
| Cadmium   |                        |                               |                       |                     |       | NR  |
| Calcium   |                        |                               |                       |                     |       | NR  |
| Chromium  |                        |                               |                       |                     |       | NR  |
| Cobalt    |                        |                               |                       |                     |       | P   |
| Copper    |                        | 2171.05                       | 644.63                | 1300.0              | 117.4 | NR  |
| Iron      |                        |                               |                       |                     |       | NR  |
| Lead      |                        |                               |                       |                     |       | NR  |
| Magnesium |                        |                               |                       |                     |       | NR  |
| Manganese |                        |                               |                       |                     |       | NR  |
| Mercury   |                        |                               |                       |                     |       | NR  |
| Nickel    |                        |                               |                       |                     |       | NR  |
| Potassium |                        |                               |                       |                     |       | NR  |
| Selenium  |                        |                               |                       |                     |       | NR  |
| Silver    |                        |                               |                       |                     |       | NR  |
| Sodium    |                        |                               |                       |                     |       | NR  |
| Thallium  |                        |                               |                       |                     |       | NR  |
| Vanadium  |                        |                               |                       |                     |       | NR  |
| Zinc      |                        |                               |                       |                     |       | NR  |
| Cyanide   |                        |                               |                       |                     |       |     |

Comments:

## U.S. EPA - CLP

1403

5  
DUPLICATES

EPA SAMPLE NO.

S-100D  
Z0060020  
on 2/2/82

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 86.7

% Solids for Duplicate: 87.3

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

| Analyte   | Control Limit | Sample (S) | C | Duplicate (D)     | C | RPD     | QIM |
|-----------|---------------|------------|---|-------------------|---|---------|-----|
| Aluminum  |               | 8326.7008  |   | 7535.9089         |   | 10.0    | P   |
| Antimony  |               | 4.2870     | U | 4.0035            | U |         | P   |
| Arsenic   | 1.8           | 7.7430     |   | 6.9828            |   | 10.3    | F   |
| Barium    | 40.8          | 84.7986    |   | 94.9775           |   | 11.3    | P   |
| Beryllium |               | 0.2041     | U | 0.1906            | U |         | P   |
| Cadmium   | 1.0           | 1.5841     |   | 1.6205            |   | 2.3     | P   |
| Calcium   |               | 5901.9751  |   | 5775.8434         |   | 2.2     | P   |
| Chromium  |               | 23.1865    |   | 24.1948           |   | 4.3     | P   |
| Cobalt    |               | 6.6632     | B | 6.9719            | B | 4.5     | F   |
| Copper    |               | 131.5961   |   | 130.2201          |   | 1.1     | F   |
| Iron      |               | 21809.5980 |   | 23000.0870        |   | 5.3     | F   |
| Lead      |               | 251.2450   |   | 229.6414 333.3515 |   | 29.19.0 | F   |
| Magnesium | 1020.7        | 2510.9879  |   | 2488.9893         |   | 0.9     | F   |
| Manganese |               | 318.0431   |   | 384.5025          |   | 18.9    | P   |
| Mercury   |               | 0.4902     |   | 0.5369            |   | 9.1     | CV  |
| Nickel    | 8.2           | 20.6102    |   | 19.4973           |   | 5.5     | P   |
| Potassium |               | 803.9052   | B | 772.9437          | B | 3.9     | P   |
| Selenium  |               | 0.5186     | B | 0.4156            | U | 200.0   | F   |
| Silver    |               | 0.6124     | U | 0.5719            | U |         | P   |
| Sodium    |               | 119.5190   | B | 100.9180          | B | 16.9    | P   |
| Thallium  |               | 0.3576     | U | 0.4156            | U |         | F   |
| Vanadium  | 10.2          | 37.9725    |   | 36.5657           |   | 3.8     | P   |
| Zinc      |               | 275.0487   |   | 298.7656          |   | 8.3     | F   |
| Cyanide   |               |            |   |                   |   |         | NR  |

on 2/2/82

C 1404

U.S. EPA - CLP

7

## LABORATORY CONTROL SAMPLE

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Solid LCS Source: EPA-LV87

Aqueous LCS Source: INORG. VENT.

| Analyte   | Aqueous (ug/L) |          |       | Solid (mg/kg) |          |       |                   | %R     |
|-----------|----------------|----------|-------|---------------|----------|-------|-------------------|--------|
|           | True           | Found    | %R    | True          | Found    | C     | Limits            |        |
| Aluminum  | 3750.0         | 3728.52  | 99.4  | 325.0         | 332.4    |       | 225.0 424.0       | 102.3  |
| Antimony  | 500.0          | 493.55   | 98.7  | 211.0         | 226.5    |       | 127.0 294.0       | 107.3  |
| Arsenic   | 50.0           | 50.90    | 101.8 | 917.0         | 850.0    |       | 635.0 1199.0      | 92.7   |
| Barium    | 300.0          | 297.26   | 99.1  |               | 4.8      | 5.2   | 0.0 40.0          | 108.3  |
| Beryllium | 100.0          | 97.22    | 97.2  |               | 19.4     | 20.0  | 16.5 22.3         | 103.1  |
| Cadmium   | 300.0          | 287.67   | 95.9  |               | 45.4     | 39.2  | 35.7 55.1         | 86.3   |
| Calcium   | 18750.0        | 19054.93 | 101.6 | 196200.0      | 179689.0 |       | 166800.0 225600.0 | 91.6   |
| Chromium  | 300.0          | 295.76   | 98.6  |               | 99.6     | 96.7  | 79.2 120.0        | 97.1   |
| Cobalt    | 300.0          | 297.71   | 99.2  |               | 144.0    | 141.3 | 125.0 162.0       | 98.1   |
| Copper    | 300.0          | 317.66   | 105.9 | 6910.0        | 6833.6   |       | 6006.0 7820.0     | 98.9   |
| Iron      | 15625.0        | 15955.54 | 102.1 | 22430.0       | 22189.2  |       | 17770.0 27080.0   | 98.9   |
| Lead      | 50.0           | 51.80    | 103.6 |               | 236.0    | 230.0 | 188.0 285.0       | 97.5   |
| Magnesium | 9375.0         | 9529.70  | 101.7 | 118100.0      | 116418.7 |       | 100400.0 129900.0 | 98.6   |
| Manganese | 200.0          | 194.43   | 97.2  |               | 208.0    | 197.0 | 177.0 239.0       | 94.7   |
| Mercury   |                |          |       |               | 12.7     | 11.8  | 8.5 17.0          | 92.9   |
| Nickel    | 300.0          | 299.86   | 100.0 |               | 60.9     | 55.7  | 49.2 72.6         | 91.5   |
| Potassium | 20000.0        | 20260.92 | 101.3 |               | 50.0     | 803.7 | 0.0 1000.0        | 1607.1 |
| Selenium  | 25.0           | 21.40    | 85.6  |               | 39.2     | 32.1  | 19.1 59.4         | 81.9   |
| Silver    | 300.0          | 277.10   | 92.4  |               | 22.2     | 22.6  | 15.5 29.0         | 101.8  |
| Sodium    | 3125.0         | 3197.85  | 102.3 |               | 50.0     | 47.1  | 0.0 1000.0        | 94.2   |
| Thallium  | 50.0           | 55.20    | 110.4 |               | 39.0     | 42.2  | 24.6 53.5         | 108.2  |
| Vanadium  | 300.0          | 293.69   | 97.9  |               | 65.8     | 68.5  | 51.7 79.9         | 104.1  |
| Zinc      | 300.0          | 322.83   | 107.6 |               | 187.0    | 168.0 | 138.0 236.0       | 89.8   |
| Cyanide   |                |          |       |               |          |       |                   |        |

7  
LABORATORY CONTROL SAMPLE

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Solid LCS Source: EPA-LV87

Aqueous LCS Source:

| Analyte   | Aqueous (ug/L) |       |    | Solid (mg/kg) |       |   |        | %R   |
|-----------|----------------|-------|----|---------------|-------|---|--------|------|
|           | True           | Found | %R | True          | Found | C | Limits |      |
| Aluminum  |                |       |    |               |       |   |        |      |
| Antimony  |                |       |    |               |       |   |        |      |
| Arsenic   |                |       |    |               |       |   |        |      |
| Barium    |                |       |    |               |       |   |        |      |
| Beryllium |                |       |    |               |       |   |        |      |
| Cadmium   |                |       |    |               |       |   |        |      |
| Calcium   |                |       |    |               |       |   |        |      |
| Chromium  |                |       |    |               |       |   |        |      |
| Cobalt    |                |       |    |               |       |   |        |      |
| Copper    |                |       |    |               |       |   |        |      |
| Iron      |                |       |    |               |       |   |        |      |
| Lead      |                |       |    |               |       |   |        |      |
| Magnesium |                |       |    |               |       |   |        |      |
| Manganese |                |       |    | 12.7          | 16.0  |   | 8.5    | 17.0 |
| Mercury   |                |       |    |               |       |   |        |      |
| Nickel    |                |       |    |               |       |   |        |      |
| Potassium |                |       |    |               |       |   |        |      |
| Selenium  |                |       |    |               |       |   |        |      |
| Silver    |                |       |    |               |       |   |        |      |
| Sodium    |                |       |    |               |       |   |        |      |
| Thallium  |                |       |    |               |       |   |        |      |
| Vanadium  |                |       |    |               |       |   |        |      |
| Zinc      |                |       |    |               |       |   |        |      |
| Cyanide   |                |       |    |               |       |   |        |      |

1406

## 3

Contract:

Case No.: 0060

SAS No. :

SDG No.: Z0060

Concentration Units: ug/L

[illegible]

G 1407

U.S. EPA - CLP

EPA SAMPLE NO.

ICP SERIAL DILUTIONS

J-10/L

Z060032

ON 4/1/02

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Matrix (soil/water): SDIL

Level (low/med): LOW

Concentration Units: ug/L

| Analyte   | Initial Sample<br>Result (I) | C | Serial<br>Dilution<br>Result (S) | C | %<br>Differ-<br>ence | Q/M |
|-----------|------------------------------|---|----------------------------------|---|----------------------|-----|
| Aluminum  | 19709.15                     |   | 19697.40                         |   | 0.1                  | P   |
| Antimony  | 21.00                        | U | 105.00                           | U |                      | P   |
| Arsenic   |                              |   |                                  |   |                      | F   |
| Barium    | 749.81                       |   | 741.20                           | B | 1.1                  | P   |
| Beryllium | 1.00                         | U | 5.00                             | U |                      | P   |
| Cadmium   | 44.69                        |   | 51.80                            |   | 15.9                 | P   |
| Calcium   | 42259.97                     |   | 42796.80                         |   | 1.3                  | P   |
| Chromium  | 604.11                       |   | 577.40                           |   | 4.4                  | P   |
| Cobalt    | 62.00                        |   | 61.10                            | B | 1.5                  | P   |
| Copper    | 3061.13                      |   | 3124.55                          |   | 2.1                  | P   |
| Iron      | 447203.58                    |   | 452540.70                        |   | 1.2                  | F   |
| Lead      |                              |   |                                  |   |                      | F   |
| Magnesium | 11561.18                     |   | 11568.80                         | B | 0.1                  | P   |
| Manganese | 3246.91                      |   | 3262.95                          |   | 0.5                  | P   |
| Mercury   |                              |   |                                  |   |                      | CV  |
| Nickel    | 817.26                       |   | 809.25                           |   | 1.0                  | P   |
| Potassium | 4521.27                      | B | 5301.75                          | B | 17.3                 | P   |
| Selenium  |                              |   |                                  |   |                      | F   |
| Silver    | 3.00                         | U | 15.00                            | U |                      | P   |
| Sodium    | 1267.60                      | B | 1373.05                          | B | 8.3                  | P   |
| Thallium  |                              |   |                                  |   |                      | F   |
| Vanadium  | 203.75                       |   | 188.20                           | B | 7.6                  | P   |
| Zinc      | 6402.71                      |   | 6621.30                          |   | 3.4                  | P   |

10

## INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number:

Date: 01/15/93

Flame AA ID Number:

Furnace AA ID Number: 3030

| Analyte   | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|-----------|------------------|-------------|-------------|------------|---|
| Aluminum  |                  |             | 200.0       |            |   |
| Antimony  |                  |             | 60.0        |            |   |
| Arsenic   |                  |             | 10.0        |            |   |
| Barium    |                  |             | 200.0       |            |   |
| Beryllium |                  |             | 5.0         |            |   |
| Cadmium   |                  |             | 5.0         |            |   |
| Calcium   |                  |             | 5000.0      |            |   |
| Chromium  |                  |             | 10.0        |            |   |
| Cobalt    |                  |             | 50.0        |            |   |
| Copper    |                  |             | 25.0        |            |   |
| Iron      |                  |             | 100.0       |            |   |
| Lead      | 283.30           | BZ          | 3.0         | 1.0        | F |
| Magnesium |                  |             | 5000.0      |            |   |
| Manganese |                  |             | 15.0        |            |   |
| Mercury   |                  |             | 0.2         |            |   |
| Nickel    |                  |             | 40.0        |            |   |
| Potassium |                  |             | 5000.0      |            |   |
| Selenium  |                  |             | 5.0         |            |   |
| Silver    |                  |             | 10.0        |            |   |
| Sodium    |                  |             | 5000.0      |            |   |
| Thallium  |                  |             | 10.0        |            |   |
| Vanadium  |                  |             | 50.0        |            |   |
| Zinc      |                  |             | 20.0        |            |   |

Comments:

## INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number:

Date: 01/15/93

Flame AA ID Number:

Furnace AA ID Number: 5100

| Analyte   | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|-----------|------------------|-------------|-------------|------------|---|
| Aluminum  |                  |             | 200.0       |            |   |
| Antimony  |                  |             | 60.0        |            |   |
| Arsenic   | 193.70           | BZ          | 10.0        | 1.0        | F |
| Barium    |                  |             | 200.0       |            |   |
| Beryllium |                  |             | 5.0         |            |   |
| Cadmium   |                  |             | 5.0         |            |   |
| Calcium   |                  |             | 5000.0      |            |   |
| Chromium  |                  |             | 10.0        |            |   |
| Cobalt    |                  |             | 50.0        |            |   |
| Copper    |                  |             | 25.0        |            |   |
| Iron      |                  |             | 100.0       |            |   |
| Lead      | 283.30           | BZ          | 3.0         | 1.0        | F |
| Magnesium |                  |             | 5000.0      |            |   |
| Manganese |                  |             | 15.0        |            |   |
| Mercury   |                  |             | 0.2         |            |   |
| Nickel    |                  |             | 40.0        |            |   |
| Potassium |                  |             | 5000.0      |            |   |
| Selenium  | 196.00           | BZ          | 5.0         | 1.0        | F |
| Silver    |                  |             | 10.0        |            |   |
| Sodium    |                  |             | 5000.0      |            |   |
| Thallium  | 276.80           | BZ          | 10.0        | 2.0        | F |
| Vanadium  |                  |             | 50.0        |            |   |
| Zinc      |                  |             | 20.0        |            |   |

Comments:

10

## INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number:

Date: 01/15/93

Flame AA ID Number:

Furnace AA ID Number: 5100N

| Analyte   | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|-----------|------------------|-------------|-------------|------------|---|
| Aluminum  |                  |             | 200.0       |            |   |
| Antimony  |                  |             | 60.0        |            |   |
| Arsenic   | 193.70           | BZ          | 10.0        | 1.0        | F |
| Barium    |                  |             | 200.0       |            |   |
| Beryllium |                  |             | 5.0         |            |   |
| Cadmium   |                  |             | 5.0         |            |   |
| Calcium   |                  |             | 5000.0      |            |   |
| Chromium  |                  |             | 10.0        |            |   |
| Cobalt    |                  |             | 50.0        |            |   |
| Copper    |                  |             | 25.0        |            |   |
| Iron      |                  |             | 100.0       |            |   |
| Lead      | 283.30           | BZ          | 3.0         | 1.0        | F |
| Magnesium |                  |             | 5000.0      |            |   |
| Manganese |                  |             | 15.0        |            |   |
| Mercury   |                  |             | 0.2         |            |   |
| Nickel    |                  |             | 40.0        |            |   |
| Potassium |                  |             | 5000.0      |            |   |
| Selenium  | 196.00           | BZ          | 5.0         | 2.0        | F |
| Silver    |                  |             | 10.0        |            |   |
| Sodium    |                  |             | 5000.0      |            |   |
| Thallium  | 276.80           | BZ          | 10.0        | 2.0        | F |
| Vanadium  |                  |             | 50.0        |            |   |
| Zinc      |                  |             | 20.0        |            |   |

Comments:

## INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number:

JA61

Date: 01/15/93

Flame AA ID Number:

Furnace AA ID Number:

| Analyte   | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M |
|-----------|------------------|-------------|-------------|------------|---|
| Aluminum  | 308.21           |             | 200.0       | 22.0       | P |
| Antimony  | 206.83           |             | 60.0        | 21.0       | P |
| Arsenic   | 193.60           |             | 10.0        | 24.0       | P |
| Barium    | 493.40           |             | 200.0       | 6.0        | P |
| Beryllium | 234.86           |             | 5.0         | 1.0        | P |
| Cadmium   | 228.80           |             | 5.0         | 2.0        | P |
| Calcium   | 317.93           |             | 5000.0      | 11.0       | P |
| Chromium  | 267.70           |             | 10.0        | 3.0        | P |
| Cobalt    | 228.61           |             | 50.0        | 3.0        | P |
| Copper    | 324.75           |             | 25.0        | 3.0        | P |
| Iron      | 271.44           |             | 100.0       | 82.0       | P |
| Lead      | 220.35           |             | 3.0         | 13.0       | P |
| Magnesium | 279.07           |             | 5000.0      | 23.0       | P |
| Manganese | 257.61           |             | 15.0        | 1.0        | P |
| Mercury   |                  |             | 0.2         |            |   |
| Nickel    | 231.60           |             | 40.0        | 21.0       | P |
| Potassium | 766.49           |             | 5000.0      | 626.0      | P |
| Selenium  | 196.02           |             | 5.0         | 41.0       | P |
| Silver    | 328.06           |             | 10.0        | 3.0        | P |
| Sodium    | 589.59           |             | 5000.0      | 29.0       | P |
| Thallium  |                  |             | 10.0        |            |   |
| Vanadium  | 292.40           |             | 50.0        | 6.0        | P |
| Zinc      | 213.85           |             | 20.0        | 4.0        | P |

Comments:

## U.S. EPA - CLP

10

## INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: 20060

ICP ID Number:

Date: 01/15/93

Flame AA ID Number: HG4

Furnace AA ID Number:

| Analyte   | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M  |
|-----------|------------------|-------------|-------------|------------|----|
| Aluminum  |                  |             | 200.0       |            |    |
| Antimony  |                  |             | 60.0        |            |    |
| Arsenic   |                  |             | 10.0        |            |    |
| Barium    |                  |             | 200.0       |            |    |
| Beryllium |                  |             | 5.0         |            |    |
| Cadmium   |                  |             | 5.0         |            |    |
| Calcium   |                  |             | 5000.0      |            |    |
| Chromium  |                  |             | 10.0        |            |    |
| Cobalt    |                  |             | 50.0        |            |    |
| Copper    |                  |             | 25.0        |            |    |
| Iron      |                  |             | 100.0       |            |    |
| Lead      |                  |             | 3.0         |            |    |
| Magnesium |                  |             | 5000.0      |            |    |
| Manganese |                  |             | 15.0        |            |    |
| Mercury   | 253.70           |             | 0.2         | 0.2        | CV |
| Nickel    |                  |             | 40.0        |            |    |
| Potassium |                  |             | 5000.0      |            |    |
| Selenium  |                  |             | 5.0         |            |    |
| Silver    |                  |             | 10.0        |            |    |
| Sodium    |                  |             | 5000.0      |            |    |
| Thallium  |                  |             | 10.0        |            |    |
| Vanadium  |                  |             | 50.0        |            |    |
| Zinc      |                  |             | 20.0        |            |    |

Comments:

## U.S. EPA - CLP

 IIA  
 ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

1413

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number: JA61

Date: 10/12/92

| Analyte   | Wave-length (nm) | Interelement Correction Factors for: |           |           |            |           |
|-----------|------------------|--------------------------------------|-----------|-----------|------------|-----------|
|           |                  | Al                                   | Ca        | Fe        | Mg         | AS        |
| Aluminum  | 308.20           | 0.0000000                            | 0.0000000 | 0.0000000 | 0.0000000  | 0.0043692 |
| Antimony  | 206.80           | 0.0000000                            | 0.0002125 | 0.0000000 | 0.0000000  | 0.0002609 |
| Arsenic   |                  |                                      |           |           |            |           |
| Barium    | 493.40           | 0.0000000                            | 0.0001065 | 0.0000000 | 0.0000000  | 0.0000000 |
| Beryllium | 234.80           | 0.0000000                            | 0.0000000 | 0.0000000 | 0.0000000  | 0.0003637 |
| Cadmium   | 228.80           | 0.0000000                            | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000 |
| Calcium   | 317.90           | 0.0000137                            | 0.0000000 | 0.0000000 | 0.0000740  | 0.0000000 |
| Chromium  | 267.70           | -0.0000500                           | 0.0006192 | 0.0048207 | -0.0009110 | 0.0015046 |
| Cobalt    | 228.60           | -0.0093620                           | 0.0004280 | 0.0886160 | -0.0018060 | 0.0004774 |
| Copper    | 324.70           | 0.0000000                            | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000 |
| Iron      | 271.40           | 0.0000000                            | 0.0001135 | 0.0000000 | 0.0003658  | 0.0005056 |
| Lead      | 220.30           | 0.0000000                            | 0.0000853 | 0.0000000 | 0.0000000  | 0.0000000 |
| Magnesium | 279.00           | 0.0000000                            | 0.0000167 | 0.0000000 | 0.0000000  | 0.0000000 |
| Manganese | 257.60           | 0.0010337                            | 0.0001842 | 0.0000000 | -0.0065040 | 0.0001778 |
| Mercury   |                  |                                      |           |           |            |           |
| Nickel    | 231.60           | 0.0000000                            | 0.0002940 | 0.0000000 | 0.0000000  | 0.0007547 |
| Potassium | 766.40           | 0.0000000                            | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000 |
| Selenium  |                  |                                      |           |           |            |           |
| Silver    | 328.00           | 0.0000000                            | 0.0001647 | 0.0000000 | 0.0000000  | 0.0000000 |
| Sodium    | 589.50           | 0.0000000                            | 0.0000133 | 0.0000000 | 0.0000000  | 0.0000000 |
| Thallium  |                  |                                      |           |           |            |           |
| Vanadium  | 292.40           | -0.0293900                           | 0.0005782 | 0.1299630 | 0.0000000  | 0.0151567 |
| Zinc      | 213.80           | 0.0000000                            | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000 |

Comments:

## U.S. EPA - CLP

11B

## ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

1414

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number: JA61

Date: 10/12/92

| Analyte   | Wave-length (nm) | Interelement Correction Factors for: |           |            |            |           |
|-----------|------------------|--------------------------------------|-----------|------------|------------|-----------|
|           |                  | NI                                   | CO        | CD         | MN         | CR        |
| Aluminum  | 308.20           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000100  | 0.0000000 |
| Antimony  | 206.80           | 0.0002631                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000000 |
| Arsenic   |                  |                                      |           |            |            |           |
| Barium    | 493.40           | 0.0000000                            | 0.0007612 | 0.0000000  | 0.0000120  | 0.0000000 |
| Beryllium | 234.80           | 0.0000619                            | 0.0000000 | 0.0062204  | 0.0000000  | 0.0001735 |
| Cadmium   | 228.80           | 0.0000000                            | 0.0000882 | 0.0000000  | 0.0000000  | 0.0000524 |
| Calcium   | 317.90           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000049 |
| Chromium  | 267.70           | 0.0001348                            | 0.0002854 | 0.0000000  | 0.0000215  | 0.0000000 |
| Cobalt    | 228.60           | -0.0010400                           | 0.0000000 | -0.0059020 | 0.0000178  | 0.0000687 |
| Copper    | 324.70           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000000 |
| Iron      | 271.40           | -0.0000110                           | 0.0000510 | -0.0000590 | -0.0000110 | 0.0000000 |
| Lead      | 220.30           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000000 |
| Magnesium | 279.00           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000175  | 0.0000000 |
| Manganese | 257.60           | 0.0000000                            | 0.0000000 | 0.0000150  | 0.0000000  | 0.0000000 |
| Mercury   |                  |                                      |           |            |            |           |
| Nickel    | 231.60           | 0.0000000                            | 0.0003488 | -0.0004890 | 0.0000000  | 0.0000000 |
| Potassium | 766.40           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000000 |
| Selenium  |                  |                                      |           |            |            |           |
| Silver    | 328.00           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000000 |
| Sodium    | 589.50           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000000 |
| Thallium  |                  |                                      |           |            |            |           |
| Vanadium  | 292.40           | 0.0000000                            | 0.0000000 | 0.0003358  | 0.0000000  | 0.0004363 |
| Zinc      | 213.80           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  | 0.0000000 |

Comments:

## U.S. EPA - CLF

11B

## ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

1415

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: 20060

ICP ID Number: JA61

Date: 10/12/92

| Analyte   | Wave-length (nm) | Interelement Correction Factors for: |            |           |            |            |
|-----------|------------------|--------------------------------------|------------|-----------|------------|------------|
|           |                  | BA                                   | MO         | TI        | V          | CU         |
| Aluminum  | 308.20           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Antimony  | 206.80           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Arsenic   |                  |                                      |            |           |            |            |
| Barium    | 493.40           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Beryllium | 234.80           | 0.0000900                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Cadmium   | 228.80           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Calcium   | 317.90           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Chromium  | 267.70           | 0.0000000                            | 0.0001000  | 0.0002727 | -0.0040160 | 0.0000000  |
| Cobalt    | 228.60           | 0.0000000                            | 0.0000296  | 0.0000301 | 0.0000000  | 0.0000000  |
| Copper    | 324.70           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Iron      | 271.40           | 0.0000330                            | -0.0000840 | 0.0000000 | 0.0000000  | 0.0000622  |
| Lead      | 220.30           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Magnesium | 279.00           | 0.0000000                            | 0.0000000  | 0.0000587 | 0.0000000  | 0.0000000  |
| Manganese | 257.60           | 0.0000000                            | 0.0000000  | 0.0000000 | -0.0001030 | 0.0000000  |
| Mercury   |                  |                                      |            |           |            |            |
| Nickel    | 231.60           | 0.0000000                            | -0.0001000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Potassium | 766.40           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Selenium  |                  |                                      |            |           |            |            |
| Silver    | 328.00           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Sodium    | 589.50           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |
| Thallium  |                  |                                      |            |           |            |            |
| Vanadium  | 292.40           | 0.0000000                            | 0.0007328  | 0.0000000 | 0.0000000  | -0.0003100 |
| Zinc      | 213.80           | 0.0000000                            | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000  |

Comments:

## U.S. EPA - CLP

118

## ICF INTERELEMENT CORRECTION FACTORS (ANNUALLY)

1416

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICF ID Number: JA61

Date: 10/12/92

| Analyte   | Wave-length (nm) | Interelement Correction Factors for: |            |            |            |           |
|-----------|------------------|--------------------------------------|------------|------------|------------|-----------|
|           |                  | ZN                                   | SN         | PB         | SB         | AG        |
| Aluminum  | 308.20           | 0.0000000                            | -0.0000240 | 0.0008419  | 0.0000321  | 0.0000000 |
| Antimony  | 206.80           | 0.0000917                            | -0.0028620 | -0.0003090 | 0.0000000  | 0.0000000 |
| Arsenic   |                  |                                      |            |            |            |           |
| Barium    | 493.40           | 0.0000329                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Beryllium | 234.80           | 0.0000000                            | 0.0001207  | 0.0000000  | -0.0004830 | 0.0000000 |
| Cadmium   | 228.80           | 0.0000181                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Calcium   | 317.90           | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000407  | 0.0000000 |
| Chromium  | 267.70           | 0.0000000                            | -0.0000700 | -0.0003260 | 0.0111425  | 0.0000000 |
| Cobalt    | 228.60           | 0.0001712                            | 0.0000442  | -0.0111250 | 0.0000000  | 0.0000000 |
| Copper    | 324.70           | 0.0036296                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Iron      | 271.40           | 0.0000780                            | -0.0001090 | 0.0001530  | 0.0002426  | 0.0000000 |
| Lead      | 220.30           | 0.0000000                            | -0.0002550 | 0.0000000  | 0.0000000  | 0.0000000 |
| Magnesium | 279.00           | 0.0000000                            | -0.0000240 | 0.0000282  | 0.0001961  | 0.0000000 |
| Manganese | 257.60           | 0.0002572                            | 0.0009730  | 0.0000000  | 0.0000000  | 0.0001163 |
| Mercury   |                  |                                      |            |            |            |           |
| Nickel    | 231.60           | 0.0039690                            | -0.0001500 | 0.0003939  | -0.0018120 | 0.0001087 |
| Potassium | 766.40           | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Selenium  |                  |                                      |            |            |            |           |
| Silver    | 328.00           | 0.0002484                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Sodium    | 589.50           | 0.0000183                            | 0.0000000  | 0.0000000  | 0.0000000  | 0.0000000 |
| Thallium  |                  |                                      |            |            |            |           |
| Vanadium  | 292.40           | -0.0086950                           | 0.0000657  | 0.0000000  | -0.0026250 | 0.0052588 |
| Zinc      | 213.80           | 0.0000000                            | 0.0000000  | 0.0000000  | 0.0004341  | 0.0000000 |

Comments:

## U.S. EPA - CLP

11B

## ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

1417

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: Z0060

ICP ID Number: JA61

Date: 10/12/92

| Analyte   | Wave-length (nm) | Interelement Correction Factors for: |           |            |            |
|-----------|------------------|--------------------------------------|-----------|------------|------------|
|           |                  | BE                                   | NA        | SE         | K          |
| Aluminum  | 308.20           | 0.0000000                            | 0.0000000 | 0.0000690  | 0.0000000  |
| Antimony  | 206.80           | 0.0000000                            | 0.0002550 | 0.0000000  | 0.0000000  |
| Arsenic   |                  |                                      |           |            |            |
| Barium    | 493.40           | 0.0000247                            | 0.0000000 | 0.0000000  | 0.0000000  |
| Beryllium | 234.80           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  |
| Cadmium   | 228.80           | 0.0000087                            | 0.0000000 | 0.0000000  | 0.0000000  |
| Calcium   | 317.90           | 0.0000000                            | 0.0001027 | -0.0000390 | 0.0000000  |
| Chromium  | 267.70           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  |
| Cobalt    | 228.60           | 0.0000340                            | 0.0000000 | 0.0012407  | 0.0000000  |
| Copper    | 324.70           | 0.0000000                            | 0.0000000 | 0.0005270  | 0.0000000  |
| Iron      | 271.40           | 0.0006640                            | 0.0000000 | -0.0010570 | 0.0000000  |
| Lead      | 220.30           | 0.0000000                            | 0.0000000 | 0.0006565  | 0.0000000  |
| Magnesium | 279.00           | 0.0000000                            | 0.0000000 | -0.0000450 | -0.0010040 |
| Manganese | 257.60           | 0.0000000                            | 0.0000000 | 0.0000000  | 0.0000000  |
| Mercury   |                  |                                      |           |            |            |
| Nickel    | 231.60           | 0.0000256                            | 0.0000000 | 0.0000000  | 0.0000000  |
| Potassium | 766.40           | 0.0000000                            | 0.0004939 | -0.0000530 | 0.0000000  |
| Selenium  |                  |                                      |           |            |            |
| Silver    | 328.00           | 0.0000000                            | 0.0000000 | -0.0003010 | 0.0000000  |
| Sodium    | 589.50           | 0.0000000                            | 0.0000000 | -0.0000290 | 0.0000000  |
| Thallium  |                  |                                      |           |            |            |
| Vanadium  | 292.40           | 0.0000000                            | 0.0000000 | 0.0003517  | 0.0000000  |
| Zinc      | 213.80           | 0.0000000                            | 0.0000000 | -0.0005750 | 0.0000000  |

Comments:

## U.S. EPA -- CLP

12  
ICP LINEAR RANGES (QUARTERLY)

0 1418

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

ICP ID Number: JA61

Date: 10/15/92

| Analyte   | Integ.<br>Time<br>(Sec.) | Concentration<br>(ug/L) | M  |
|-----------|--------------------------|-------------------------|----|
| Aluminum  | 6.00                     | 1000000.0               |    |
| Antimony  | 6.00                     | 100000.0                |    |
| Arsenic   | 6.00                     | 100000.0                |    |
| Barium    | 6.00                     | 100000.0                |    |
| Beryllium | 6.00                     | 100000.0                |    |
| Cadmium   | 6.00                     | 100000.0                |    |
| Calcium   | 6.00                     | 1000000.0               |    |
| Chromium  | 6.00                     | 200000.0                |    |
| Cobalt    | 6.00                     | 100000.0                |    |
| Copper    | 6.00                     | 100000.0                |    |
| Iron      | 6.00                     | 1000000.0               |    |
| Lead      | 6.00                     | 100000.0                |    |
| Magnesium | 6.00                     | 1000000.0               |    |
| Manganese | 6.00                     | 100000.0                |    |
| Mercury   |                          |                         | NR |
| Nickel    | 6.00                     | 100000.0                |    |
| Potassium | 6.00                     | 1000000.0               |    |
| Selenium  | 6.00                     | 100000.0                |    |
| Silver    | 6.00                     | 100000.0                |    |
| Sodium    | 6.00                     | 1000000.0               |    |
| Thallium  |                          |                         | NR |
| Vanadium  | 6.00                     | 100000.0                |    |
| Zinc      | 6.00                     | 100000.0                |    |

Comments:

13  
PREPARATION LOG

13

# PREPARATION LOG

1419.

Contract:

SAS No. :

SDG No. : Z0060

Method: CV

[illegible]

1420

15

## Lab Name: IEA

## Contracts

Lab Code: IEA

Case No. : 0060

SAS No. :

SDG No. : Z0060

Method: CV

[illegible]

1421

13

Contract:

SAS No. :

SDG No.: Z0060

Method: CV

[illegible]

1422

13

Contract:

SAS No. 4

SDG No. : Z0060

Method: F

[illegible]

1423

13

## Lab Name: IEA

Contract:

Lab Code: IEA

Case No. : 0060

SAS No. :

SDG No. : Z0060

Method: F

[illegible]

1424

15

Contracts:

SAS No. :

SDG No. : Z0060

Method: F

[illegible]

## 1425

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

## Lab Name: IEA

## Contracts

Lab Code: IEA

Case No. : 0060

SAS No. 8

SDG No. : Z0060

**Method:** P

[illegible]

## ANALYSIS RUN LOG

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Instrument ID Number: JA61

Method: P

Start Date: 02/19/93

End Date: 02/19/93

| EPA<br>Sample<br>No. | D/F  | Time | % R | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                      |      |      |     | A        | S | A | B | B | C | C | C | C | F | P | M | M | H | N | K | S | A | N | I | T | V | Z | C |   |  |
|                      |      |      |     | L        | B | S | A | E | D | A | R | O | U | E | B | G | I | N | G | I | I | E | G | A | L | I | N | N |  |
| S                    | 1.00 | 1106 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| S                    | 1.00 | 1112 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| S                    | 1.00 | 1118 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| S                    | 1.00 | 1124 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| S                    | 1.00 | 1129 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| S                    | 1.00 | 1135 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| SO                   | 1.00 | 1141 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| ICV1                 | 1.00 | 1200 |     | X        |   |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| ICV1                 | 1.00 | 1206 |     |          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ICB                  | 1.00 | 1213 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| CRI                  | 1.00 | 1219 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| ICSA                 | 1.00 | 1225 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| ICSAB                | 1.00 | 1231 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| ICV1                 | 1.00 | 1237 |     |          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCV1                 | 1.00 | 1243 |     | X        |   |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| CCV1                 | 1.00 | 1249 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| CCB1                 | 1.00 | 1256 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| PBS                  | 1.00 | 1302 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06001               | 1.00 | 1308 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06003               | 1.00 | 1314 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06004               | 1.00 | 1320 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06002               | 1.00 | 1326 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06002D              | 1.00 | 1332 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06002S              | 1.00 | 1339 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| LCSS                 | 1.00 | 1345 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| ZZZZZZ               | 1.00 | 1351 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCV2                 | 1.00 | 1357 |     |          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCV2                 | 1.00 | 1403 |     | X        |   |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| CCB2                 | 1.00 | 1412 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06003L              | 5.00 | 1418 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X | X |   | X | X |   | X | X |   |   |  |
| Z06002A              | 1.00 | 1424 |     |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00 | 1430 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |



14  
ANALYSIS RUN LOG

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Instrument ID Number: JA61

Method: P

Start Date: 02/22/93

End Date: 02/22/93

| EPA<br>Sample<br>No. | D/F  | Time | % R | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                      |      |      |     | A        | S | A | B | B | C | C | C | C | F | P | M | M | H | N | K |
|                      |      |      |     | L        | B | S | A | E | D | A | R | O | U | E | B | G | N | G | I |
|                      |      |      |     | I        | E | S | A | I | L | I | E | S | A | I | L | I | E | S | A |
|                      |      |      |     | I        | E | S | A | I | L | I | E | S | A | I | L | I | E | S | A |
| S                    | 1.00 | 1000 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| S                    | 1.00 | 1006 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| S                    | 1.00 | 1012 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| S                    | 1.00 | 1017 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| S                    | 1.00 | 1023 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| S                    | 1.00 | 1029 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| SO                   | 1.00 | 1035 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ICV3                 | 1.00 | 1057 |     | X        |   |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ICV3                 | 1.00 | 1103 |     |          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ICB2                 | 1.00 | 1109 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| CRI                  | 1.00 | 1115 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ICSA                 | 1.00 | 1121 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ICSAB                | 1.00 | 1127 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| CCV5                 | 1.00 | 1133 |     |          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV5                 | 1.00 | 1139 |     | X        |   |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| CCB4                 | 1.00 | 1145 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ZZZZZZ               | 1.00 | 1151 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| PBW                  | 1.00 | 1157 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| Z06006               | 1.00 | 1203 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ZZZZZZ               | 1.00 | 1209 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 1215 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 1222 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 1228 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LCSW                 | 1.00 | 1234 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ZZZZZZ               | 1.00 | 1240 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 1246 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV6                 | 1.00 | 1252 |     |          | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV6                 | 1.00 | 1258 |     | X        |   |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| CCB5                 | 1.00 | 1304 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| CRI                  | 1.00 | 1310 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ICSA                 | 1.00 | 1316 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |
| ICSAB                | 1.00 | 1322 |     | X        | X |   | X | X | X | X | X | X | X | X |   | X | X |   | X |

14  
ANALYSIS RUN LOG

1429

End Date: 02/22/93

SDG No.: Z0060

[illegible]

## U.S. EPA - CLP

14

## ANALYSIS RUN LOG

1430

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Instrument ID Number: 5100

Method: F

Start Date: 02/01/93

End Date: 02/01/93

| EPA<br>Sample<br>No. | D/F    | Time | % R  | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|--------|------|------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                      |        |      |      | A        | S | B | B | C | C | C | C | F | P | M | M | H | N | K | S |
|                      |        |      |      | L        | B | S | A | E | D | A | R | O | U | E | B | G | N | G | I |
|                      |        |      |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S0                   | 1.00   | 1100 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S10                  | 1.00   | 1106 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S50                  | 1.00   | 1112 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S100                 | 1.00   | 1117 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ICV1                 | 1.00   | 1123 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ICB                  | 1.00   | 1129 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CRA                  | 1.00   | 1135 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV1                 | 1.00   | 1140 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCB1                 | 1.00   | 1146 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1152 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1158 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FBW                  | 1.00   | 1204 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FWA                  | 1.00   | 1210 | 86.5 |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CSW                  | 1.00   | 1216 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LCSWA                | 1.00   | 1222 | 60.5 |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1228 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1234 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FBS                  | 1.00   | 1240 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| FBSA                 | 1.00   | 1246 | 77.0 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV2                 | 1.00   | 1252 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCB2                 | 1.00   | 1258 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LCSS                 | 100.00 | 1303 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LCSSA                | 100.00 | 1309 | 91.5 |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1315 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1321 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1327 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1333 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1338 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00   | 1344 |      |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV3                 | 1.00   | 1350 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCB3                 | 1.00   | 1356 |      |          |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |

## 1431

ANALYSIS RUN LOG

Contract:

Case No.: 0060

SAS No. :

SDE No. : Z0060

**Method:** F

End Date: 02/01/93

[illegible]

14

Lab Name: IEA

Lab Code: IEA

Case No. : 0060

Contract:

SAS No. 2

SDS No. : Z0060

Instrument ID Number: 5100N

**Method:** F

Start Date: 02/01/93

End Date: 02/01/93

## Analytes

## U.S. EPA - CLP

14

## ANALYSIS RUN LOG

C 1433

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: Z0060

Instrument ID Number: 5100

Method: F

Start Date: 02/02/93

End Date: 02/02/93

| EPA<br>Sample<br>No. | D/F  | Time | % R       | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|------|------|-----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                      |      |      |           | A        | S | A | B | B | C | C | C | C | C | F | P | M | M | H | N | K | S | A | I | N | I | V | I | Z | C |
|                      |      |      |           | L        | B | S | A | E | D | A | R | O | U | E | B | G | N | G | I | I | E | G | A | L | I | N | I | N |   |
| 30                   | 1.00 | 0159 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 33                   | 1.00 | 0204 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 350                  | 1.00 | 0209 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3100                 | 1.00 | 0214 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ICV1                 | 1.00 | 0220 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ICB                  | 1.00 | 0225 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CRA                  | 1.00 | 0230 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV1                 | 1.00 | 0235 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCB1                 | 1.00 | 0240 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0246 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0251 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0256 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0302 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0307 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0312 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0318 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0323 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0328 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0334 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV2                 | 1.00 | 0339 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCB2                 | 1.00 | 0344 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0350 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0355 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| PBW                  | 1.00 | 0400 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| PBWA                 | 1.00 | 0405 | 81.0      |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LCSW                 | 1.00 | 0411 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| LCSWA                | 1.00 | 0416 | 78.5      |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0421 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0426 |           |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| PBS                  | 1.00 | 0431 |           |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| PBSA                 | 1.00 | 0436 | 71.5 69.5 |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV3                 | 1.00 | 0441 | 64.0/6    |          |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

1434

14

End Date: 02/02/93

[illegible]

14  
ANALYSIS RUN LOG

Lab Name: IEA

Lab Code: IEA

Case No.: 0060

Instrument ID Number: S100N

Start Date: 02/02/93

Contract:

SAS No.:

SDB No.: Z0060

Method: F

End Date: 02/02/93

| EPA<br>Sample<br>No. | D/F  | Time | % R   | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|------|------|-------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                      |      |      |       | A        | S | A | B | B | C | C | C | C | C | F | F | M | M | H | N |
|                      |      |      |       | L        | B | S | A | E | D | A | R | D | U | E | B | G | N | B | I |
|                      |      |      |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S0                   | 1.00 | 0317 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| S3                   | 1.00 | 0322 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| S50                  | 1.00 | 0327 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| S100                 | 1.00 | 0333 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| ICV3                 | 1.00 | 0338 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| ICB3                 | 1.00 | 0344 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| CRA2                 | 1.00 | 0349 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| CCV5                 | 1.00 | 0355 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| CCB7                 | 1.00 | 0400 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Z06006               | 1.00 | 0406 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Z06006A              | 1.00 | 0411 | 81.5  |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Z06001               | 1.00 | 0417 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 06001A               | 1.00 | 0423 | 26.0  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 06002                | 1.00 | 0428 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z06002A              | 1.00 | 0434 | 3.0   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z06002D              | 1.00 | 0440 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z06002DA             | 1.00 | 0445 | 12.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z06002S              | 1.00 | 0451 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0456 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV6                 | 1.00 | 0502 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| CCB8                 | 1.00 | 0508 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Z06003               | 1.00 | 0513 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z06003A              | 1.00 | 0519 | 150.0 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z06004               | 1.00 | 0524 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Z06004A              | 1.00 | 0530 | 123.5 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0535 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0541 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0546 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0551 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0557 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZZ               | 1.00 | 0602 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV7                 | 1.00 | 0608 |       |          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |

0 1436

14

## Contract:

SAS No. 88

Method: F

End Date: 02/02/93

ILMO2.C

## ANALYSIS RUN LOG

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDG No.: Z0060

Instrument ID Number: 5100N

Method: F

Start Date: 02/02/93

End Date: 02/02/93

| EPA<br>Sample<br>No. | D/F  | Time | % R   | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|----------------------|------|------|-------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
|                      |      |      |       | A        | S | I | B | B | I | C | I | C | I | C | F | I | P | M | I | H | N | I | K | S | A | I | N | I | V | I | Z | I | C |  |  |  |  |
|                      |      |      |       | L        | B | S | A | E | D | A | R | O | U | E | B | G | I | N | G | I | I | E | B | A | I | L | I | N |   |   |   |   |   |  |  |  |  |
| 50                   | 1.00 | 1011 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 510                  | 1.00 | 1017 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 550                  | 1.00 | 1023 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 5100                 | 1.00 | 1028 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ICV3                 | 1.00 | 1034 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ICB2                 | 1.00 | 1040 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CRA2                 | 1.00 | 1046 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV5                 | 1.00 | 1052 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCB4                 | 1.00 | 1058 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| PBS                  | 1.00 | 1104 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| PBSA                 | 1.00 | 1110 | 97.0  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06006               | 1.00 | 1116 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| 06006A               | 1.00 | 1122 | 103.0 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06001               | 1.00 | 1128 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06001A              | 1.00 | 1134 | 82.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06002               | 1.00 | 1140 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06002A              | 1.00 | 1146 | 89.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06002D              | 1.00 | 1152 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06002DA             | 1.00 | 1158 | 95.0  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV6                 | 1.00 | 1204 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCB5                 | 1.00 | 1210 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06002S              | 1.00 | 1216 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06003               | 1.00 | 1222 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06003A              | 1.00 | 1228 | 96.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06004               | 1.00 | 1234 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06004A              | 1.00 | 1240 | 60.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1246 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1251 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1257 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1303 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1309 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV7                 | 1.00 | 1315 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |

f. 1438.

14.

Contract:  
SAS No.: SDG No.: Z0060  
Method: F  
End Date: 02/02/93

[illegible]



0. 1440

U.S. EPA - DLP

14

## ANALYSIS RUN LOG

Lab Name: IEA

Lab Code: IEA

Instrument ID Number: 3030

Start Date: 02/03/93

Case No.: 0060

Contract:

SAS No.:

Method: F

End Date: 02/03/93

SDB No.: Z0060

| EPA<br>Sample<br>No. | D/F   | Time | % R   | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------|-------|------|-------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                      |       |      |       | A        | S | I | A | B | B | C | C | C | C | C | F | I | P | M | H | I | N | K | S | I | A | N | T | I | V | I | Z | I | C |  |
|                      |       |      |       | L        | B | I | S | A | E | D | I | A | R | D | I | U | E | B | G | I | N | G | I | I | E | I | G | A | L | I | N | I | N |  |
| S0                   | 1.00  | 1000 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| S3                   | 1.00  | 1005 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| S50                  | 1.00  | 1010 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| S100                 | 1.00  | 1015 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ICV5                 | 1.00  | 1020 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ICB4                 | 1.00  | 1025 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| DRA3                 | 1.00  | 1030 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCV9                 | 1.00  | 1035 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCB10                | 1.00  | 1040 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| PBW                  | 1.00  | 1045 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| PBWA                 | 1.00  | 1050 | 101.5 |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| PBS                  | 1.00  | 1055 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| BSA                  | 1.00  | 1100 | 89.0  |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1105 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1110 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1115 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1120 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCV10                | 1.00  | 1125 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCB11                | 1.00  | 1130 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Z06002               | 50.00 | 1135 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Z06002A              | 50.00 | 1140 | 106.5 |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Z06002D              | 50.00 | 1145 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Z06002DA             | 50.00 | 1150 | 60.5  |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Z06002S              | 50.00 | 1155 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1200 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1205 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1210 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| ZZZZZZ               | 1.00  | 1215 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCV11                | 1.00  | 1220 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| CCB12                | 1.00  | 1225 |       |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

End Date: 02/03/93

ILMO2.0

Contract:  
SAS No.: SDE No.: Z0060  
Method: F  
End Date: 02/03/93

ILMO2.0

U.S. EPA - CLP

14

## ANALYSIS RUN LOG

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAS No.:

SDS No.: 10060

Instrument ID Number: 5100N

Method: F

Start Date: 02/05/93

End Date: 02/05/93

| EPA<br>Sample<br>No. | D/F  | Time | % R   | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|------|------|-------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                      |      |      |       | A        | S | I | A | B | B | B | C | C | C | C | C | F | P | M | M | H | N |
|                      |      |      |       | L        | B | S | A | E | D | A | R | O | U | E | B | G | I | N | G | I | I |
|                      |      |      |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 50                   | 1.00 | 1926 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| S10                  | 1.00 | 1932 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| S50                  | 1.00 | 1937 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| S100                 | 1.00 | 1943 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| ICV2                 | 1.00 | 1948 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| ICB2                 | 1.00 | 1954 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| CRA2                 | 1.00 | 1959 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| CCV3                 | 1.00 | 2005 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| CCB4                 | 1.00 | 2010 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06001               | 1.00 | 2016 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06001A              | 1.00 | 2021 | 96.0  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06002               | 1.00 | 2027 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06002A              | 1.00 | 2033 | 99.0  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06002D              | 1.00 | 2039 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06002DA             | 1.00 | 2045 | 98.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06002S              | 1.00 | 2051 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| ZZZZZZ               | 1.00 | 2057 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06003               | 1.00 | 2103 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06003A              | 1.00 | 2108 | 93.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| CCV4                 | 1.00 | 2114 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| CCB5                 | 1.00 | 2120 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06004               | 1.00 | 2125 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06004A              | 1.00 | 2131 | 101.5 |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06006               | 1.00 | 2137 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Z06006A              | 1.00 | 2142 | 93.5  |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| CCV5                 | 1.00 | 2148 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| CCB6                 | 1.00 | 2154 |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
|                      |      |      |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                      |      |      |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                      |      |      |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                      |      |      |       |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

C 1444

4

### Contracts:

Case No. : 0060

SA5 No. 11

SDG No. : Z0060

## Method: 5

End Date: 02/08/93

[illegible]

U.S. EPA - CLF

0 1445

14

## ANALYSIS RUN LOG

Lab Name: IEA

Lab Code: IEA

Case No.: 0060

Contract:

SAS No.:

SDG No.: Z0060

Instrument ID Number: H54

Method: CV

Start Date: 01/29/93

End Date: 01/29/93

| EPA<br>Sample<br>No. | D/F  | Time | % R | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|----------------------|------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
|                      |      |      |     | A        | S | I | A | B | B | I | C | I | C | I | C | I | F | I | P | M | I | H | I | N | K | S | I | A | N | I | T | I | V | I | Z | C |  |  |
|                      |      |      |     | L        | B | I | S | A | E | D | I | A | R | O | I | U | E | B | I | G | I | N | G | I | I | I | E | G | A | L | I | N | N |   |   |   |  |  |
| S0                   | 1.00 | 1409 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| S0.5                 | 1.00 | 1410 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| S1.0                 | 1.00 | 1411 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| S2.0                 | 1.00 | 1412 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| S5.0                 | 1.00 | 1413 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| S10.0                | 1.00 | 1414 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ICV1                 | 1.00 | 1415 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ICB                  | 1.00 | 1416 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| CCV1                 | 1.00 | 1417 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| CCB1                 | 1.00 | 1418 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| PRS                  | 1.00 | 1419 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| LCSS                 | 1.00 | 1420 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ZZZZZZ               | 1.00 | 1421 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ZZZZZZ               | 1.00 | 1422 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ZZZZZZ               | 1.00 | 1423 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Z06001               | 1.00 | 1424 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Z06002               | 1.00 | 1425 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Z06002D              | 1.00 | 1426 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Z06002S              | 1.00 | 1427 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Z06003               | 1.00 | 1428 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| CCV2                 | 1.00 | 1429 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| CCB2                 | 1.00 | 1430 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Z06004               | 1.00 | 1431 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Z06005               | 1.00 | 1432 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ZZZZZZ               | 1.00 | 1433 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ZZZZZZ               | 1.00 | 1434 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| ZZZZZZ               | 1.00 | 1435 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| CCV3                 | 1.00 | 1436 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| CCB3                 | 1.00 | 1437 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

14  
ANALYSIS RUN LOG

Lab Name: IEA

Contract:

Lab Code: IEA

Case No.: 0060

SAB No.:

SOS No.: 20060

Instrument ID Number: HG4

Method: CV

Start Date: 02/03/93

End Date: 02/03/93

| EPA<br>Sample<br>No. | D/F  | Time | % R | Analytes |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
|----------------------|------|------|-----|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
|                      |      |      |     | A        | S | I | A | B | B | I | D | I | C | I | C | I | F | P | M | M | H | N | K | S | I | A | N | T | I | V | I | Z | I | C |  |  |  |  |
|                      |      |      |     | L        | B | I | S | A | E | D | A | R | D | I | U | E | B | I | G | N | I | G | I | I | E | I | G | A | I | L | I | N | I | N |  |  |  |  |
| S0                   | 1.00 | 1402 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| S0.5                 | 1.00 | 1403 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| S1.0                 | 1.00 | 1404 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| S2.0                 | 1.00 | 1405 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| S5.0                 | 1.00 | 1406 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| S10.0                | 1.00 | 1407 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ICV3                 | 1.00 | 1408 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ICP2                 | 1.00 | 1409 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV5                 | 1.00 | 1410 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCB4                 | 1.00 | 1411 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| PBW                  | 1.00 | 1412 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1413 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1414 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1415 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1416 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1417 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1418 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1419 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1420 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1421 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCV6                 | 1.00 | 1422 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| CCB5                 | 1.00 | 1423 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1424 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1425 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1426 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1427 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1428 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1429 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1430 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1431 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| Z06006               | 1.00 | 1432 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |
| ZZZZZZ               | 1.00 | 1433 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |

U.S. EPA - DLP

14  
ANALYSIS RUN LOG

Lab Name: IEA

Lab Code: IEA

Case No. : 0060

Instrument ID Number: HG4

Start Date: 02/03/93

### Contracts

SAS No. 22

SDG No. : Z0060

**Method:** CV

End Date: 02/03/93

[illegible]

C 1448

: 4

|                           |                    |
|---------------------------|--------------------|
| Lab Name: IEA             | Contract:          |
| Lab Code: IEA             | SAS No.:           |
| Case No.: 0060            | SDS No.: Z0060     |
| Instrument ID Number: HG4 | Method: CV         |
| Start Date: 02/12/93      | End Date: 02/12/93 |

[illegible]

G 1449

## METALS RAW DATA

|             |                  |
|-------------|------------------|
| CLIENT:     | ROUX ASSOCIATES  |
| PROJECT ID: | AMTRAK SUNNYSIDE |
| P.O.#       | 05526Y           |
| SDG#:       | Z0060            |
| IEA ID:     | 30930-0060       |



## Rack #4

| Pos               | Row | Col | Sample Name | Set # | #Used | Type        |
|-------------------|-----|-----|-------------|-------|-------|-------------|
| (1...48 Not Used) |     |     |             |       |       |             |
| 49                | 13  | 1   | CCR3        | -NA-  | 1     | QC Standard |
| 50                | 13  | 2   | CCV3        | -NA-  | 1     | QC Standard |
| 51                | 13  | 3   | CCV3A       | -NA-  | 1     | QC Standard |
| 52                | 13  | 4   | ICSAIF      | -NA-  | 1     | QC Standard |
| 53                | 14  | 1   | ICSAF       | -NA-  | 1     | QC Standard |
| 54                | 14  | 1   | ICSAF       | -NA-  | 1     | QC Standard |
| 55                | 14  | 3   | CRIF        | -NA-  | 1     | QC Standard |
| 56                | 14  | 4   | CC82        | -NA-  | 1     | QC Standard |
| 57                | 15  | 1   | CCV2        | -NA-  | 1     | QC Standard |
| 58                | 15  | 2   | CCV2A       | -NA-  | 1     | QC Standard |
| 59                | 15  | 3   | CCR1        | -NA-  | 1     | QC Standard |
| 60                | 15  | 4   | CCV1        | -NA-  | 1     | QC Standard |

## Rack #5

| Pos | Row | Col | Sample Name | Set # | #Used | Type        |
|-----|-----|-----|-------------|-------|-------|-------------|
| 1   | 1   | 1   | STD2        | -NA-  | 1     | Standard    |
| 2   | 1   | 2   | STD3        | -NA-  | 1     | Standard    |
| 3   | 2   | 1   | STD4        | -NA-  | 1     | Standard    |
| 4   | 2   | 2   | STD5        | -NA-  | 1     | Standard    |
| 5   | 3   | 1   | STD6        | -NA-  | 1     | Standard    |
| 6   | 3   | 2   | STD7        | -NA-  | 1     | Standard    |
| 7   | 4   | 1   | STD1        | -NA-  | 1     | Standard    |
| 8   | 4   | 2   | ICV1        | -NA-  | 1     | QC Standard |
| 9   | 5   | 1   | ICV1A       | -NA-  | 1     | QC Standard |
| 10  | 5   | 2   | ICB         | -NA-  | 1     | QC Standard |
| 11  | 6   | 1   | CRIT        | -NA-  | 1     | QC Standard |
| 12  | 6   | 2   | ICSAI       | -NA-  | 1     | QC Standard |
| 13  | 7   | 1   | ICSAI       | -NA-  | 1     | QC Standard |
| 14  | 7   | 2   | CCV1A       | -NA-  | 1     | QC Standard |

Standard: STD2

1452

*Std clipped 2/19 dna*

|      |        |        |        |        |        |         |        |
|------|--------|--------|--------|--------|--------|---------|--------|
| Elem | AG3280 | AL3082 | BA4934 | BE2348 | CA3179 | CD2283  | CD2286 |
| Avge | 3.0913 | .01844 | .00006 | .00550 | .00056 | -.00006 | .00044 |
| SDev | .0084  | .00174 | .00010 | .00000 | .00042 | .00025  | .00135 |
| %RSD | .27302 | 9.4051 | 173.21 | .00000 | 75.498 | -458.26 | 303.11 |

|    |        |        |        |        |        |         |         |
|----|--------|--------|--------|--------|--------|---------|---------|
| #1 | 3.0820 | .01983 | .00000 | .00550 | .00100 | .00017  | .00200  |
| #2 | 3.0985 | .01650 | .00017 | .00550 | .00017 | .00000  | -.00033 |
| #3 | 3.0933 | .01900 | .00000 | .00550 | .00050 | -.00033 | -.00033 |

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MG2790 | MN2576 | NA5895 |
| Avge | .00083 | .00089 | .00111 | .04361 | .00044 | .00017 | .00483 |
| SDev | .00144 | .00026 | .00069 | .00411 | .00086 | .00017 | .00083 |
| %RSD | 173.21 | 28.641 | 62.450 | 9.4259 | 192.44 | 100.00 | 17.241 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00000 | .00117 | .00133 | .04167 | .00067  | .00033 | .00400 |
| #2 | .00000 | .00083 | .00167 | .04083 | .00117  | .00000 | .00483 |
| #3 | .00250 | .00067 | .00033 | .04833 | -.00050 | .00017 | .00567 |

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | NI2316  | PB2203 | SB2068 | SE1960 | V 2724 | ZN2138 | TI3349 |
| Avge | -.00106 | .00089 | .00178 | .00589 | .00022 | .00028 | .00022 |
| SDev | .00276  | .00084 | .00092 | .00324 | .00026 | .00019 | .00010 |
| %RSD | -261.52 | 94.373 | 71.838 | 54.977 | 114.56 | 69.282 | 43.301 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00183  | .00100 | .00033 | .00667 | .00000 | .00017 | .00033 |
| #2 | -.00133 | .00167 | .00217 | .00233 | .00017 | .00050 | .00017 |
| #3 | -.00367 | .00000 | .00133 | .00867 | .00050 | .00017 | .00017 |

|      |        |         |         |
|------|--------|---------|---------|
| Elem | MO2020 | SN1899  | AS1936  |
| Avge | .00000 | -.00033 | -.00311 |
| SDev | .00000 | .00029  | .00370  |
| %RSD | .00000 | -86.603 | -118.87 |

|    |        |         |         |
|----|--------|---------|---------|
| #1 | .00000 | .00000  | -.00417 |
| #2 | .00000 | -.00050 | .00100  |
| #3 | .00000 | -.00050 | -.00617 |

1453

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| F1em   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | .007    | ---     |
|        |          |         |         |         |         |         |         |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD3

6 1454

*Std prepped 2/19/93*

|      |        |        |         |        |        |         |         |
|------|--------|--------|---------|--------|--------|---------|---------|
| Elem | AG3250 | AL3082 | BA4934  | BE2348 | CA3179 | CO2288  | CO2286  |
| Avge | .00017 | .01489 | -.00006 | .00894 | 1.1260 | -.00006 | -.00033 |
| SDev | .00060 | .00158 | .00010  | .00010 | .0067  | .00033  | .00038  |
| %RSD | 360.56 | 10.580 | -173.21 | 1.0758 | .59133 | -624.50 | -173.21 |

|    |         |        |         |        |        |         |         |
|----|---------|--------|---------|--------|--------|---------|---------|
| #1 | .00000  | .01367 | .00000  | .00833 | 1.1183 | -.00017 | .00000  |
| #2 | .00083  | .01433 | .00000  | .00900 | 1.1303 | .00033  | .00000  |
| #3 | -.00033 | .01667 | -.00017 | .00900 | 1.1293 | -.00033 | -.00100 |

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MG2790 | MN2576 | NA5895 |
| Avge | .00150 | .00139 | .16733 | 1.0064 | .46494 | .00028 | 2.0692 |
| SDev | .00117 | .00010 | .00126 | .0034  | .00234 | .00010 | .0195  |
| %RSD | 77.778 | 6.9282 | .75197 | .34114 | .50355 | 34.641 | .94378 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00283 | .00150 | .16617 | 1.0025 | .46250 | .00033 | 2.0470 |
| #2 | .00100 | .00133 | .16717 | 1.0077 | .46517 | .00017 | 2.0767 |
| #3 | .00067 | .00133 | .16867 | 1.0070 | .46717 | .00033 | 2.0838 |

|      |        |        |         |        |        |        |        |
|------|--------|--------|---------|--------|--------|--------|--------|
| Elem | NI2316 | PS2203 | SB2068  | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avge | .00078 | .00067 | -.00167 | .00017 | .00000 | .00067 | .00056 |
| SDev | .00144 | .00038 | .00040  | .00609 | .00000 | .00050 | .00010 |
| %RSD | 184.75 | 86.603 | -37.056 | 3651.0 | .00000 | 75.000 | 17.321 |

|    |         |        |         |         |        |        |        |
|----|---------|--------|---------|---------|--------|--------|--------|
| #1 | -.00050 | .00033 | -.00150 | .00700  | .00000 | .00117 | .00050 |
| #2 | .00233  | .00133 | -.00117 | -.00467 | .00000 | .00017 | .00067 |
| #3 | .00050  | .00033 | -.00233 | -.00183 | .00000 | .00067 | .00050 |

|      |        |        |         |
|------|--------|--------|---------|
| Elem | MO2020 | SN1899 | AS1936  |
| Avge | .00006 | .00006 | -.00089 |
| SDev | .00035 | .00039 | .00121  |
| %RSD | 624.50 | 692.82 | -135.64 |

|    |         |         |         |
|----|---------|---------|---------|
| #1 | .00017  | -.00017 | -.00167 |
| #2 | .00033  | .00050  | -.00150 |
| #3 | -.00033 | -.00017 | .00050  |

1455

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Flen   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | --       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD4

1456

*std pulled 2/19/93*

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | AG3280  | AL3082 | BA4934 | BF2346 | CA3179 | CO2288 | CO2286 |
| Avg  | -.01161 | .01511 | .00000 | 4.0530 | .00306 | .03494 | .01278 |
| SD   | .00042  | .00201 | .00000 | .0178  | .00010 | .00019 | .00069 |
| %RSD | -3.6124 | 13.296 | .00000 | .48731 | 3.1492 | .55073 | 5.4304 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.01200 | .01300 | .00000 | 4.0307 | .00300 | .03483 | .01200 |
| #2 | -.01167 | .01700 | .00000 | 4.0602 | .00317 | .03517 | .01333 |
| #3 | -.01117 | .01333 | .00000 | 4.0682 | .00300 | .03483 | .01300 |

|      |        |        |        |        |         |         |        |
|------|--------|--------|--------|--------|---------|---------|--------|
| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MG2790  | MN2576  | NA5895 |
| Avg  | 2.2848 | .00206 | .03494 | .04283 | -.00850 | -.00011 | .04672 |
| SD   | .0032  | .00010 | .00096 | .00188 | .00100  | .00010  | .00275 |
| %RSD | .22586 | 4.6812 | 2.7537 | 4.3850 | -11.765 | -86.603 | 5.8868 |

|    |        |        |        |        |         |         |        |
|----|--------|--------|--------|--------|---------|---------|--------|
| #1 | 2.2808 | .00217 | .03550 | .04133 | -.00850 | -.00017 | .04667 |
| #2 | 2.2893 | .00200 | .03383 | .04167 | -.00750 | -.00017 | .04400 |
| #3 | 2.2902 | .00200 | .03550 | .04500 | -.00750 | .00000  | .04930 |

|      |        |        |        |        |        |         |        |
|------|--------|--------|--------|--------|--------|---------|--------|
| Elem | NI2316 | PB2203 | SB2048 | SE1960 | V 2924 | ZN2139  | TI3349 |
| Avg  | 2.8201 | .00061 | .00394 | 1.7225 | 1.9354 | -.01011 | 2.2008 |
| SD   | .0076  | .00026 | .00092 | .0136  | .0037  | .00010  | .0047  |
| %RSD | .27066 | 41.660 | 23.271 | .78916 | .19069 | -.95168 | .21244 |

|    |        |        |        |        |        |         |        |
|----|--------|--------|--------|--------|--------|---------|--------|
| #1 | 2.8262 | .00033 | .00350 | 1.7138 | 1.9312 | -.01000 | 2.2053 |
| #2 | 2.8115 | .00083 | .00500 | 1.7382 | 1.9380 | -.01017 | 2.1960 |
| #3 | 2.8225 | .00067 | .00333 | 1.7155 | 1.9370 | -.01017 | 2.2012 |

|      |        |        |        |
|------|--------|--------|--------|
| Elem | MO2020 | SN1899 | AS1936 |
| Avg  | .68939 | .00083 | 1.2876 |
| SD   | .00326 | .00044 | .0139  |
| %RSD | .47272 | 52.915 | 1.0833 |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | .68600 | .00067 | 1.2755 |
| #2 | .69250 | .00133 | 1.3028 |
| #3 | .68967 | .00050 | 1.2843 |

C 1457

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Filem  | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avgc   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| ZRSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD5

*Std. prepped 2/19/93*

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | AG3280  | AL3082 | BA4934 | BE2348 | CA3179 | CO2288 | CO2286 |
| Avge | -.00011 | .00261 | 1.0543 | .00667 | .00094 | 2.7001 | 5.0577 |
| SDev | .00025  | .00108 | .0060  | .00017 | .00034 | .0194  | .0213  |
| %RSD | -229.13 | 41.530 | .56588 | 2.5000 | 56.727 | .71865 | .42072 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00033 | .00267 | 1.0492 | .00683 | .00117 | 2.6777 | 5.0343 |
| #2 | .00017  | .00367 | 1.0608 | .00667 | .00033 | 2.7105 | 5.0627 |
| #3 | -.00017 | .00150 | 1.0528 | .00650 | .00133 | 2.7120 | 5.0760 |

|      |        |        |        |        |         |        |        |
|------|--------|--------|--------|--------|---------|--------|--------|
| Elem | CR2477 | CU3247 | FE2714 | K 7654 | MG2790  | MN2576 | NA5895 |
| Avge | .00217 | 1.8134 | .01494 | .04311 | -.00372 | 1.9814 | .00544 |
| SDev | .00130 | .0137  | .00082 | .00611 | .00069  | .0093  | .00236 |
| %RSD | 60.079 | .75298 | 5.5014 | 14.164 | -18.642 | .44912 | 43.003 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00367 | 1.7978 | .01550 | .04250 | -.00317 | 1.9707 | .00300 |
| #2 | .00133 | 1.8232 | .01400 | .03733 | -.00450 | 1.9863 | .00567 |
| #3 | .00150 | 1.8193 | .01533 | .04950 | -.00350 | 1.9872 | .00767 |

|      |         |        |         |        |        |        |        |
|------|---------|--------|---------|--------|--------|--------|--------|
| Elem | NI2316  | PR2203 | SB2068  | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avge | -.00339 | 1.0204 | -.00089 | .00844 | .00000 | 2.5071 | .00100 |
| SDev | .00069  | .0061  | .00154  | .00648 | .00000 | .0138  | .00017 |
| %RSD | -20.475 | .59910 | -173.21 | 76.754 | .00000 | .55199 | 16.667 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.00317 | 1.0135 | .00000  | .01150 | .00000 | 2.4915 | .00117 |
| #2 | -.00417 | 1.0225 | .00000  | .00100 | .00000 | 2.5117 | .00083 |
| #3 | -.00283 | 1.0252 | -.00267 | .01283 | .00000 | 2.5180 | .00100 |

|      |        |        |         |
|------|--------|--------|---------|
| Elem | MO2020 | SN1899 | AS1936  |
| Avge | .00150 | .00017 | -.00067 |
| SDev | .00044 | .00088 | .00202  |
| %RSD | 29.397 | 529.15 | -303.11 |

|    |        |         |         |
|----|--------|---------|---------|
| #1 | .00200 | .00083  | .00167  |
| #2 | .00133 | -.00083 | -.00183 |
| #3 | .00117 | .00050  | -.00183 |

1459

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avgc   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | --      | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | --      | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD6

*Std. prepped 2/19 dna*

| Elem | AG3280  | AL3082 | BA4934 | BE2348 | CA3179 | CD2288 | CD2286 |
|------|---------|--------|--------|--------|--------|--------|--------|
| Avg  | -.00022 | .01661 | .00039 | .00567 | .00211 | .00077 | .00333 |
| SDev | .00035  | .00130 | .00019 | .00017 | .00010 | .00026 | .00033 |
| %RSD | -156.12 | 7.7934 | 49.487 | 2.9412 | 4.5560 | 35.251 | 17.321 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00050 | .01517 | .00050 | .00567 | .00217 | .00067 | .00367 |
| #2 | -.00033 | .01767 | .00050 | .00583 | .00217 | .00100 | .00367 |
| #3 | .00017  | .01700 | .00017 | .00550 | .00200 | .00050 | .00267 |

| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MG2790  | MN2576 | NA5895 |
|------|--------|--------|--------|--------|---------|--------|--------|
| Avg  | .00072 | .01628 | .00061 | .04289 | -.00006 | .00106 | .01467 |
| SDev | .00125 | .00284 | .00136 | .00320 | .00075  | .00019 | .00117 |
| %RSD | 173.21 | 17.416 | 222.12 | 7.4682 | -1352.8 | 18.232 | 7.9545 |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #1 | .00000 | .01917 | -.00033 | .04233 | -.00083 | .00117 | .01350 |
| #2 | .00217 | .01617 | .00217  | .04633 | .00000  | .00117 | .01583 |
| #3 | .00000 | .01350 | .00000  | .04000 | .00067  | .00083 | .01467 |

| Elem | NI2316 | PB2203 | SB2068 | SE1960 | V 2924 | ZN2138 | TI3349 |
|------|--------|--------|--------|--------|--------|--------|--------|
| Avg  | .00222 | .00039 | 1.1583 | .00644 | .00022 | .01367 | .00050 |
| SDev | .00063 | .00162 | .0027  | .00395 | .00026 | .00301 | .00000 |
| %RSD | 28.395 | 416.25 | .23082 | 61.274 | 114.56 | 22.053 | .00000 |

|    |        |         |        |        |        |        |        |
|----|--------|---------|--------|--------|--------|--------|--------|
| #1 | .00130 | .00000  | 1.1585 | .00433 | .00017 | .01683 | .00050 |
| #2 | .00250 | .00217  | 1.1608 | .01100 | .00050 | .01333 | .00050 |
| #3 | .00267 | -.00100 | 1.1555 | .00400 | .00000 | .01083 | .00050 |

| Elem | MO2020 | SN1899 | AS1936  |
|------|--------|--------|---------|
| Avg  | .00078 | .99756 | -.00133 |
| SDev | .00026 | .00162 | .00247  |
| %RSD | 32.733 | .16227 | -184.98 |

|    |        |        |         |
|----|--------|--------|---------|
| #1 | .00100 | .99717 | -.00300 |
| #2 | .00083 | .99617 | -.00250 |
| #3 | .00050 | .99933 | .00150  |

0 1461

---

| IntStd | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Filem  | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |           |         |         |         |         |         |         |
| #1     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

Standardization Rpt.

Fri 02-19-93 11:41:14 AM 1462  
name 1

Standard: STD7

*Std. pupped 2/19 dna*

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | A63280  | AL3082 | BA4934 | BE2348 | CA5179 | CD2288 | CD228A |
| Avge | -.00050 | 1.9814 | .00006 | .00550 | .00083 | .00011 | .00133 |
| SDev | .00017  | .0089  | .00019 | .00000 | .00017 | .00019 | .00033 |
| %RSD | -33.333 | .45026 | 346.41 | .00000 | 20.000 | 173.21 | 25.000 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.00067 | 1.9718 | .00017  | .00550 | .00067 | .00033 | .00133 |
| #2 | -.00050 | 1.9895 | -.00017 | .00550 | .00083 | .00000 | .00167 |
| #3 | -.00033 | 1.9828 | .00017  | .00550 | .00100 | .00000 | .00100 |

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | CR2477 | CU3247 | FE2714 | K 7564 | MG2790 | MN2576 | NA5895 |
| Avge | .00000 | .00817 | .00028 | .04633 | .00033 | .00044 | .00361 |
| SDev | .00000 | .00033 | .00063 | .00142 | .00044 | .00010 | .00178 |
| %RSD | .00000 | 4.0816 | 227.16 | 3.0734 | 132.29 | 21.651 | 49.351 |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #1 | .00000 | .00817 | -.00017 | .04617 | .00030  | .00050 | .00250 |
| #2 | .00000 | .00850 | .00000  | .04500 | .00067  | .00050 | .00567 |
| #3 | .00000 | .00783 | .00100  | .04733 | -.00017 | .00033 | .00267 |

|      |        |        |         |        |        |        |        |
|------|--------|--------|---------|--------|--------|--------|--------|
| Elem | NI2316 | PR2203 | SB2068  | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avge | .00033 | .00183 | -.00044 | .00939 | .00044 | .00589 | .00028 |
| SDev | .00093 | .00088 | .00231  | .00454 | .00010 | .00035 | .00010 |
| %RSD | 278.39 | 48.105 | -520.07 | 48.333 | 21.651 | 5.8915 | 34.641 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | .00017  | .00117 | .00017  | .00783 | .00050 | .00617 | .00017 |
| #2 | .00133  | .00283 | .00150  | .01450 | .00033 | .00600 | .00033 |
| #3 | -.00050 | .00150 | -.00300 | .00583 | .00050 | .00550 | .00033 |

|      |        |        |        |
|------|--------|--------|--------|
| Elem | MO2020 | SN1899 | AS1936 |
| Avge | .00017 | .00006 | .00389 |
| SDev | .00017 | .00077 | .00310 |
| %RSD | 100.00 | 1385.6 | 79.642 |

|    |        |         |        |
|----|--------|---------|--------|
| #1 | .00033 | .00050  | .00133 |
| #2 | .00000 | .00050  | .00300 |
| #3 | .00017 | -.00083 | .00733 |

---

| IntStd | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |           |         |         |         |         |         |         |
| #1     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: ST01

*Std prepped 2/19 dne*

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | AG3280  | AL3082 | BA4734 | BE2348 | CA3179 | CD2288 | CD228A |
| Avge | -.00028 | .01489 | .00000 | .00556 | .00028 | .00011 | .00089 |
| SDev | .00039  | .00200 | .00000 | .00010 | .00035 | .00026 | .00096 |
| %RSD | -210.71 | 13.448 | .00000 | 1.7321 | 124.90 | 229.13 | 108.25 |

|    |         |        |        |        |        |         |        |
|----|---------|--------|--------|--------|--------|---------|--------|
| #1 | -.00035 | .01300 | .00000 | .00567 | .00000 | .00033  | .00033 |
| #2 | .00033  | .01683 | .00000 | .00550 | .00067 | .00017  | .00200 |
| #3 | -.00083 | .01283 | .00000 | .00550 | .00017 | -.00017 | .00033 |

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MG2790 | MN2576 | NA5895 |
| Avge | .00044 | .00172 | .00006 | .04556 | .00050 | .00011 | .00183 |
| SDev | .00026 | .00035 | .00039 | .00773 | .00083 | .00010 | .00083 |
| %RSD | 57.282 | 20.145 | 1053.6 | 16.965 | 166.67 | 86.603 | 45.455 |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #1 | .00050 | .00200 | -.00050 | .04383 | -.00033 | .00000 | .00267 |
| #2 | .00067 | .00183 | .00067  | .05400 | .00050  | .00017 | .00100 |
| #3 | .00017 | .00133 | .00000  | .03883 | .00133  | .00017 | .00183 |

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | NI2316 | PB2203 | SB2068 | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avge | .00094 | .00089 | .00028 | .00856 | .00000 | .00150 | .00039 |
| SDev | .00226 | .00063 | .00266 | .00107 | .00000 | .00027 | .00010 |
| %RSD | 239.59 | 70.986 | 956.87 | 12.524 | .00000 | 19.245 | 24.744 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | .00217  | .00017 | .00100  | .00733 | .00000 | .00133 | .00050 |
| #2 | .00233  | .00117 | -.00267 | .00933 | .00000 | .00133 | .00033 |
| #3 | -.00167 | .00133 | .00250  | .00900 | .00000 | .00183 | .00033 |

|      |         |        |         |
|------|---------|--------|---------|
| Elem | MO2020  | SN1899 | AS1936  |
| Avge | -.00006 | .00100 | -.00261 |
| SDev | .00025  | .00073 | .00158  |
| %RSD | -458.26 | 72.648 | -60.666 |

|    |         |        |         |
|----|---------|--------|---------|
| #1 | -.00033 | .00150 | -.00267 |
| #2 | .00000  | .00017 | -.00100 |
| #3 | .00017  | .00133 | -.00417 |

---

| IntStd | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |           |         |         |         |         |         |         |
| #1     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Fri 02-19-93 12:06:21 PM 001466

Method: ICP-AES Sample Name: JCV1

Operator: DMA

Time: 02/17/93 12:00:53

Comment: 70060

Mode: DUNC Corr. Factor: 1

| Elem   | Al3280  | Al3082  | BA4934  | BE2348  | Ca3177  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .60157  | 5.0463  | 5.1035  | .12786  | 13.086  | 1.2290  | 1.2716  |
| SDev   | .00316  | .0124   | .0073   | .00027  | .043    | .0066   | .0062   |
| %RSD   | .52534  | .24600  | .14307  | .20824  | .32488  | .53514  | .48651  |
| #1     | .59924  | 5.0366  | 5.0951  | .12755  | 13.038  | 1.2226  | 1.2662  |
| #2     | .60031  | 5.0426  | 5.1078  | .12802  | 13.103  | 1.2285  | 1.2704  |
| #3     | .60517  | 5.0604  | 5.1078  | .12800  | 13.118  | 1.2358  | 1.2783  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .51258  | .62424  | 2.6723  | 12.651  | 13.030  | 1.2583  | 12.937  |
| SDev   | .00256  | .00053  | .0461   | .617    | .053    | .0034   | .075    |
| %RSD   | .49893  | .08355  | 1.7101  | 4.8803  | .40600  | .26726  | .58100  |
| #1     | .51015  | .62362  | 2.7432  | 11.940  | 12.973  | 1.2550  | 12.860  |
| #2     | .51525  | .62454  | 2.6529  | 13.050  | 13.041  | 1.2583  | 12.940  |
| #3     | .51233  | .62454  | 2.6823  | 12.964  | 13.077  | 1.2617  | 13.010  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.2823  | 2.5237  | -.00385 | 2.5346  | 1.2931  | 1.2764  | -.00120 |
| SDev   | .0142   | .0141   | .00347  | .0319   | .0010   | .0041   | .00076  |
| %RSD   | 1.1073  | .56066  | -90.123 | 1.2587  | .07734  | .32505  | -63.606 |
| #1     | 1.2681  | 2.5139  | -.00032 | 2.5487  | 1.2925  | 1.2732  | -.00043 |
| #2     | 1.2965  | 2.5172  | -.00398 | 2.4981  | 1.2943  | 1.2751  | -.00195 |
| #3     | 1.2823  | 2.5399  | -.00725 | 2.5571  | 1.2925  | 1.2811  | -.00120 |
| Errors | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value  | 1.2500  | 2.5000  |         | 2.5000  | 1.2500  | 1.2500  |         |
| Range  | 10.000  | 10.000  |         | 10.000  | 10.000  | 10.000  |         |

---

|       |        |         |        |
|-------|--------|---------|--------|
| Elem  | MD2020 | SN1899  | AS1936 |
| Units | ppm    | ppm     | ppm    |
| Avg   | .00416 | -.01261 | 2.5761 |
| SDev  | .00140 | .01418  | .0192  |
| %RSD  | 33.612 | -112.47 | .74520 |

|    |        |         |        |
|----|--------|---------|--------|
| #1 | .00497 | -.02316 | 2.5739 |
| #2 | .00496 | .00351  | 2.5962 |
| #3 | .00254 | -.01813 | 2.5580 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | QC Pass |
| Value  |         |         | 2.5000  |
| Range  |         |         | 10.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | --       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

1467

Method: IFACT2

Sample Name: 10V14

Operator: DMA

Time: 02/19/93 12:06:57

Comment: 70060

Mode: CONC Corr. Factor: 1

1468

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | Al3280  | Al3082  | Ba4934  | Be2348  | Ca3179  | Co2288  | Co2286  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00036  | .01296  | .00211  | -.00015 | .03304  | .00090  | .00110  |
| SDev   | .00108  | .00637  | .00091  | .00002  | .00171  | .00058  | .00231  |
| %RSD   | 299.84  | 49.127  | 43.360  | -14.654 | 5.1767  | 64.787  | 210.20  |
| #1     | .00036  | .00566  | .00316  | -.00012 | .03207  | .00144  | -.00109 |
| #2     | .00144  | .01738  | .00158  | -.00016 | .03501  | .00097  | .00088  |
| #3     | -.00072 | .01584  | .00158  | -.00016 | .03203  | .00028  | .00352  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | Cr2677  | Cr3247  | Fe2714  | K 7664  | Mg2790  | Mn2576  | Na5895  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00194 | .02606  | .01318  | -.16766 | .00486  | .00056  | .14112  |
| SDev   | .00001  | .00141  | .03183  | .22900  | .01857  | .00049  | .01049  |
| %RSD   | -.45847 | 5.4040  | 241.42  | -136.59 | 381.89  | 86.267  | 7.4356  |
| #1     | -.00194 | .02729  | -.02313 | .08093  | -.01080 | .00028  | .13237  |
| #2     | -.00193 | .02453  | .02646  | -.21389 | .02537  | .00028  | .13276  |
| #3     | -.00194 | .02637  | .03623  | -.37001 | .00002  | .00112  | .13824  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | Ni2316  | P82203  | *SB2068 | Se1960  | V 2924  | Zn2138  | Ti3349  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00646 | .00158  | 5.1133  | -.04194 | -.00001 | .01282  | .00000  |
| SDev   | .00512  | .00091  | .0487   | .01354  | .00000  | .00117  | .00087  |
| %RSD   | -79.150 | 57.549  | .95218  | -32.287 | -2.7122 | 9.1059  | 416810. |
| #1     | -.00941 | .00263  | 5.0592  | -.02631 | -.00001 | .01417  | -.00101 |
| #2     | -.00942 | .00104  | 5.1268  | -.04947 | -.00001 | .01217  | .00050  |
| #3     | -.00056 | .00107  | 5.1537  | -.05004 | -.00001 | .01213  | .00051  |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         | 5.0000  |         |         |         |         |
| Range  |         |         | 10.000  |         |         |         |         |

1469

|       |        |         |         |
|-------|--------|---------|---------|
| Elem  | MD2020 | SN1899  | AS1936  |
| Units | ppm    | ppm     | ppm     |
| Avg   | .00323 | -.01927 | -.00622 |
| SDev  | .00640 | .00359  | .00352  |
| %RSD  | 198.40 | -18.652 | -88.796 |

|    |         |         |         |
|----|---------|---------|---------|
| #1 | -.00161 | -.02221 | -.00176 |
| #2 | .01049  | -.02035 | -.01739 |
| #3 | .00081  | -.01526 | -.00450 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

|            |          |         |         |         |         |         |         |
|------------|----------|---------|---------|---------|---------|---------|---------|
| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode       | time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

1470

[illegible]

1471

---

|       |         |         |         |
|-------|---------|---------|---------|
| Elem  | MD2020  | SN1899  | AS1936  |
| Units | ppm     | ppm     | ppm     |
| Avg   | 0.00323 | 0.01330 | 0.01444 |
| SDev  | .00419  | .01500  | .01063  |
| %RSD  | 129.76  | -112.80 | 73.649  |

|    |         |         |         |
|----|---------|---------|---------|
| #1 | 0.00565 | 0.00168 | 0.00216 |
| #2 | 0.00161 | 0.02833 | 0.02060 |
| #3 | 0.00565 | 0.01324 | 0.02055 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

### Analysis: Report

DC Standard

Fri 02-19-95 12:24:36 PM

page 1

Method: IFACT2      Sample Name: CR11

Operator: DM1472

Time: 02/19/95 12:19:08

Comment: 70060

Mode: CONC    Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2346  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .02064  | .40134  | .40786  | .01040  | .01351  | .00940  | .10167  |
| SDev   | .00112  | .00648  | .00158  | .00003  | .00308  | .00073  | .00038  |
| ZRSO   | 5.4272  | 1.6133  | .38760  | .25864  | 19.865  | 7.7712  | .37708  |
| #1     | .02028  | .39428  | .40944  | .01043  | .01798  | .00941  | .10146  |
| #2     | .02190  | .40700  | .40786  | .01037  | .01648  | .00866  | .10145  |
| #3     | .01975  | .40275  | .40628  | .01039  | .01206  | .01013  | .10212  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass |
| Value  | .02000  | .40000  | .40000  | .01000  |         | .01000  | .10000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  |         | 20.000  | 20.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7654  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .02133  | .04969  | .23641  | -.13297 | -.00066 | .03224  | .06513  |
| Dev    | .00000  | .00053  | .04034  | .50814  | .00752  | .00000  | .00795  |
| RSD    | .00904  | 1.0656  | 17.062  | -382.14 | -1137.9 | .00565  | 12.211  |
| #1     | .02133  | .04939  | .19313  | -.50877 | .00777  | .03224  | .06059  |
| #2     | .02133  | .05030  | 0.27296 | .44517  | -.00668 | .03224  | .07429  |
| #3     | .02133  | .04938  | 0.24313 | -.33532 | -.00307 | .03224  | .06009  |
| Errors | QC Pass | QC Pass | QC Pass | NOCHECK | NOCHECK | QC Pass | NOCHECK |
| Value  | .02000  | .05000  | .20000  |         |         | .03000  |         |
| Range  | 20.000  | 20.000  | 20.000  |         |         | 20.000  |         |

[illegible]

---

|       |         |         |        |
|-------|---------|---------|--------|
| Elem  | MD2020  | SN1899  | AS1936 |
| Units | ppm     | ppm     | ppm    |
| Avg   | 0.00882 | 0.00088 | .04593 |
| SDev  | .00139  | .00731  | .00991 |
| %RSD  | 15.795  | 849.41  | 21.568 |

|    |         |          |         |
|----|---------|----------|---------|
| #1 | 0.01043 | 0-.00635 | .04465  |
| #2 | 0.00801 | 0.00864  | .05641  |
| #3 | 0.00801 | 0.00036  | 0.03672 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | RC Fail | RC Fail | RC Pass |
| Value  | .02800  | .03800  | .04800  |
| Range  | 20.000  | 20.000  | 20.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: JEANT2 Sample Name: JCRAT

Operator: DMA

Time: 02/19/93 12:25:12

Comment: 70060

Mode: CONC Corr. Factor: 1

1474

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00002 | 493.48  | -.00402 | .04509  | 483.50  | -.00071 | -.00240 |
| SDev   | .00082  | 3.59    | .00089  | .00149  | 3.42    | .00179  | .00101  |
| %RSD   | -3363.3 | .72729  | -22.161 | 3.3110  | .70320  | -251.31 | -41.887 |
| #1     | .00087  | 489.36  | -.00450 | .04430  | 481.55  | .00122  | -.00256 |
| #2     | -.00020 | 495.09  | -.00299 | .04415  | 487.62  | -.00105 | -.00332 |
| #3     | -.00074 | 495.97  | -.00456 | .04681  | 487.32  | -.00230 | -.00133 |
| Errors | NOCHECK | QC Pass | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         | 500.00  |         |         | 400.00  |         |         |
| Range  |         | 20.000  |         |         | 20.000  |         |         |

$X_{FL} = 0.000242994$   
 $avg = 0.000249542$

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00434 | .00318  | 185.56  | -.22249 | 509.67  | .00081  | -.01086 |
| SDev   | .00002  | .00750  | 1.13    | .36441  | 3.55    | .00040  | .01699  |
| %RSD   | -.44811 | 235.81  | .60917  | -163.79 | .69394  | 49.891  | -156.50 |
| #1     | -.00432 | .01123  | 184.26  | -.64280 | 505.58  | .00034  | -.02725 |
| #2     | -.00435 | .00190  | 186.34  | -.02984 | 511.57  | .00105  | -.01199 |
| #3     | -.00435 | -.00360 | 186.06  | .00516  | 511.88  | .00103  | .00667  |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         |         | 700.00  |         | 500.00  |         |         |
| Range  |         |         | 20.000  |         | 20.000  |         |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00880 | -.01632 | .02390  | -.08174 | .00513  | -.00548 | -.01123 |
| SDev   | .00493  | .02702  | .07047  | .09973  | .00000  | .00158  | .00021  |
| %RSD   | -56.031 | -165.52 | 294.83  | -122.00 | .00048  | -28.853 | -1.8543 |
| #1     | -.00486 | .01383  | -.05339 | .00368  | .00513  | -.00366 | -.01059 |
| #2     | -.01433 | -.03832 | .08457  | -.03758 | .00513  | -.00642 | -.01134 |
| #3     | -.00721 | -.02447 | .04052  | -.19133 | .00513  | -.00638 | -.01136 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

1475

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avge   | -.00861 | -.02397 | .35897  |
| SDev   | .00270  | .02578  | .02602  |
| %RSD   | -31.356 | -107.53 | 7.2495  |
| #1     | -.00549 | .00382  | .32892  |
| #2     | -.01015 | -.02864 | .37387  |
| #3     | -.01018 | -.04710 | .37412  |
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: DFACT2 Sample Name: IC8ARI

Operator: DMA

Time: 02/19/93 12:31:16

Comment: 70060

Mode: CONC Corr. Factor: 1

1476

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .95920  | 491.94  | .49284  | .55034  | 486.07  | .93612  | .45198  |
| SD     | .00276  | 2.74    | .00238  | .00253  | 2.75    | .00534  | .00145  |
| SRSD   | .28758  | .55785  | .48219  | .45951  | .56519  | .57014  | .32107  |
| #1     | .95615  | 488.85  | .49025  | .54793  | 482.97  | .93031  | .45040  |
| #2     | .96153  | 494.11  | .49491  | .55257  | 488.24  | .94080  | .45324  |
| #3     | .95991  | 492.84  | .49337  | .55202  | 487.00  | .93724  | .45231  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | 500.00  | .5      | .5      | 500.00  | 1.0000  | .5      |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MA2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .45228  | .46209  | 185.40  | -.22424 | 507.97  | .47108  | .01879  |
| SD     | .00612  | .00312  | 1.16    | .28701  | 2.70    | .00170  | .01501  |
| SRSD   | 1.3531  | .67544  | .62732  | -127.99 | .53209  | .36119  | 79.902  |
| #1     | .45934  | .45849  | 184.19  | .08491  | 504.94  | .46974  | .01760  |
| #2     | .44912  | .46386  | 186.52  | -.48224 | 510.13  | .47299  | .03436  |
| #3     | .44839  | .46392  | 185.49  | -.27541 | 508.83  | .47050  | .00440  |
| Errors | QC Pass | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | .5      | .5      | 200.00  |         | 500.00  | .5      |         |
| Range  | 20.000  | 20.000  | 20.000  |         | 20.000  | 20.000  |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .90988  | .94301  | .05450  | -.07438 | .49513  | .93681  | -.01202 |
| SD     | .00408  | .02266  | .01950  | .05092  | .00146  | .00829  | .00121  |
| SRSD   | .44881  | 2.3905  | .55.789 | -68.455 | .29513  | .88521  | -10.048 |
| #1     | .91222  | .92446  | .07602  | -.02620 | .49349  | .92731  | -.01261 |
| #2     | .90516  | .96966  | .03799  | -.06929 | .47602  | .94052  | -.01063 |
| #3     | .91225  | .94990  | .04948  | -.12766 | .49602  | .94259  | -.01283 |
| Errors | QC Pass | QC Pass | NOCHECK | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | 1.0000  | 1.0000  |         |         | .5      | 1.0000  |         |
| Range  | 20.000  | 20.000  |         |         | 20.000  | 20.000  |         |

1477

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | -.01137 | -.01913 | .34552  |
| SDev   | .00379  | .01185  | .02031  |
| %RSD   | -33.356 | -61.915 | 8.1940  |
| #1     | -.01550 | -.02769 | .31399  |
| #2     | -.00805 | -.00561 | .36878  |
| #3     | -.01055 | -.02409 | .35377  |
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: IFACT2 Sample Name: DDV10

Operator: DMA

Time: 02/19/93 12:37:21

Comment: 70060

Mode: CONIC Corr. Factor: 1

1478

| Elem               | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CO2286  |
|--------------------|---------|---------|---------|---------|---------|---------|---------|
| Units              | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg                | .00035  | .09043  | .00052  | -.00018 | .11345  | .00055  | .00154  |
| SDev               | .00094  | .01999  | .00183  | .00001  | .02680  | .00092  | .00198  |
| %RSD               | 267.26  | 22.110  | 347.74  | -4.2839 | 23.619  | 166.92  | 128.70  |
| #1                 | -.00020 | .11339  | .00158  | -.00017 | .14162  | .00131  | .00154  |
| #2                 | -.00018 | .07683  | .00158  | -.00019 | .11046  | -.00047 | .00352  |
| #3                 | .00144  | .08107  | -.00158 | -.00017 | .08828  | .00082  | -.00044 |
| Errors Value Range | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |

| Elem               | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------------------|---------|---------|---------|---------|---------|---------|---------|
| Units              | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg                | -.00170 | .01901  | .06278  | .00011  | .11371  | -.00028 | .08700  |
| SDev               | .00042  | .00184  | .01152  | .39338  | .03687  | .00049  | .00816  |
| %RSD               | -24.793 | 9.6811  | 18.347  | 345560. | 32.424  | -172.14 | 9.3792  |
| #1                 | -.00121 | .02085  | .05576  | .44533  | .15442  | -.00056 | .08841  |
| #2                 | -.00194 | .01901  | .07607  | -.30053 | .10416  | .00028  | .07823  |
| #3                 | -.00194 | .01717  | .05651  | -.14445 | .08256  | -.00056 | .09437  |
| Errors Value Range | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |

| Elem               | NI2316  | PB2203  | *SB2068                     | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------------------|---------|---------|-----------------------------|---------|---------|---------|---------|
| Units              | ppm     | ppm     | ppm                         | ppm     | ppm     | ppm     | ppm     |
| Avg                | -.00234 | .00044  | 5.1561                      | .01698  | .00142  | .01038  | .00025  |
| SDev               | .00515  | .01941  | .0236                       | .01863  | .00248  | .00157  | .00044  |
| %RSD               | -220.08 | 4371.5  | .45706                      | 109.72  | 174.16  | 15.132  | 176.92  |
| #1                 | -.00470 | .02036  | 5.1294                      | .00935  | .00428  | .01219  | .00050  |
| #2                 | -.00589 | -.00060 | 5.1741                      | .00338  | -.00001 | .00749  | .00050  |
| #3                 | .00357  | -.01843 | 5.1649                      | .03822  | -.00001 | .00945  | -.00026 |
| Errors Value Range | NOCHECK | NOCHECK | QC Pass<br>5.0000<br>10.000 | NOCHECK | NOCHECK | NOCHECK | NOCHECK |

1479

|       |        |         |        |
|-------|--------|---------|--------|
| Elem  | M02020 | SN1899  | AS1936 |
| Units | ppm    | ppm     | ppm    |
| Avg   | .00242 | -.01859 | .00610 |
| SDev  | .00140 | .01099  | .00523 |
| %RSD  | 57.581 | -59.150 | 85.696 |

|    |        |         |        |
|----|--------|---------|--------|
| #1 | .00323 | -.02866 | .01080 |
| #2 | .00323 | -.00686 | .00705 |
| #3 | .00081 | -.02023 | .00046 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| NavLen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: IFACT2 Sample Name: CDVJ

Operator: DMA

Run Time: 02/17/93 12:49:55

1480

Comment: 70060

Mode: CDNC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CD2286  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .60348  | 5.0962  | 5.1531  | .12845  | 13.180  | 1.2428  | 1.2772  |
| SDev   | .00322  | .0365   | .0278   | .00069  | .084    | .0076   | .0076   |
| %RSD   | .53286  | .71554  | .53869  | .53782  | .63871  | .61176  | .59215  |
| #1     | .59978  | 5.0553  | 5.1267  | .12765  | 13.082  | 1.2340  | 1.2698  |
| #2     | .60505  | 5.1255  | 5.1821  | .12886  | 13.227  | 1.2475  | 1.2849  |
| #3     | .60560  | 5.1077  | 5.1504  | .12883  | 13.229  | 1.2468  | 1.2770  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .51597  | .62455  | 2.6307  | 12.391  | 13.115  | 1.2620  | 13.080  |
| SDev   | .00127  | .00243  | .0383   | .534    | .078    | .0068   | .077    |
| %RSD   | .24563  | .38976  | 1.4553  | 4.3100  | .59342  | .54271  | .59219  |
| #1     | .51670  | .62271  | 2.5933  | 12.252  | 13.027  | 1.2541  | 13.004  |
| #2     | .51670  | .62731  | 2.6290  | 11.940  | 13.145  | 1.2667  | 13.159  |
| #3     | .51451  | .62363  | 2.6698  | 12.981  | 13.174  | 1.2650  | 13.079  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

|        |         |         |                  |         |         |         |         |
|--------|---------|---------|------------------|---------|---------|---------|---------|
| Elem   | NI2316  | PB2203  | SE2068           | SE1960  | V 2924  | ZN2138  | TI3349  |
| Units  | ppm     | ppm     | ppm              | ppm     | ppm     | ppm     | ppm     |
| Avge   | 1.2787  | 2.5286  | -.00347          | 2.5784  | 1.3071  | 1.2786  | -.00145 |
| SDev   | .0113   | .0379   | .02225           | .0367   | .0119   | .0071   | .00087  |
| %RSD   | .88136  | 1.4993  | -610.80          | 1.4230  | .91171  | .55692  | -59.983 |
| #1     | 1.2722  | 2.4849  | .00410           | 2.5370  | 1.2934  | 1.2705  | -.00195 |
| #2     | 1.2917  | 2.5329  | .01401           | 2.5911  | 1.3149  | 1.2839  | -.00196 |
| #3     | 1.2722  | 2.5479  | -.02852          | 2.6069  | 1.3131  | 1.2813  | -.00045 |
| Errors | QC Pass | QC Pass | NOCHECK          | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value  | 1.2500  | 2.5000  | <i>done 2/19</i> | 2.5000  | 1.2500  | 1.2500  |         |
| Range  | 10.000  | 10.000  |                  | 10.000  | 10.000  | 10.000  |         |

1481

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .00253  | -.01595 | 2.5849  |
| SDev   | .00419  | .00637  | .0335   |
| %RSD   | 165.61  | -39.960 | 1.2942  |
| #1     | .00011  | -.01316 | 2.5462  |
| #2     | .00736  | -.01145 | 2.6048  |
| #3     | .00011  | -.02324 | 2.6036  |
| Errors | NOCHECK | NOCHECK | QC Pass |
| Value  |         |         | 2.5000  |
| Range  |         |         | 10.000  |

---

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

Method: IEACT2      Sample Name: CCB1

DMF: 0.5 ml

Time: 02/19/93 12:56:00

1482

Comment: 70040

Mode: CONC      Corr. Factor: 1

[illegible][illegible][illegible]

1483

|       |         |          |          |
|-------|---------|----------|----------|
| Elem  | MD2020  | SN1899   | AS1936   |
| Units | ppm     | ppm      | ppm      |
| Avg   | 0.00081 | 0-.01226 | 0-.00362 |
| SDev  | .00000  | .00509   | .02209   |
| %RSD  | .54118  | -41.475  | -610.71  |

|    |         |          |          |
|----|---------|----------|----------|
| #1 | 0.00081 | 0-.01332 | 0.02184  |
| #2 | 0.00080 | 0-.00673 | 0-.01502 |
| #3 | 0.00081 | 0-.01674 | 0-.01767 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

|        |           |         |         |         |         |         |         |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| WavLen | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

Fri 02-19-93 01:07:35 PM

page 1

Method: JEACT2      Sample Name: 1.0000.200PR9

Operator: DMA

1484

Time: 02/19/93 13:02:05

Comment: 7006.0

Mode: CONC Corr. Factor: 1

[illegible][illegible][illegible]

1485

---

|       |        |          |        |
|-------|--------|----------|--------|
| Elem  | MD2020 | SN1899   | AS1936 |
| Units | ppm    | ppm      | ppm    |
| Avg   | .00162 | 1-.01831 | .00302 |
| SDev  | .00370 | .00438   | .00661 |
| %RSD  | 228.28 | -23.928  | 218.86 |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .00565   | 1-.02162 | 1-.00314 |
| #2 | .00081   | 1-.01334 | .00219   |
| #3 | 1-.00161 | 1-.01996 | .01001   |

|        |         |        |         |
|--------|---------|--------|---------|
| Errors | LC Pass | LC Low | LC Pass |
| High   | 100.00  | 100.00 | 100.00  |
| Low    | .00000  | .00000 | .00000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| WavLen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

02092

1486

(5-99)

[illegible][illegible][illegible]

1 87

|        |          |         |         |
|--------|----------|---------|---------|
| Elem   | MD2020   | SN1899  | AS1936  |
| Units  | ppm      | ppm     | ppm     |
| Avg    | 1-.00407 | .00932  | .13549  |
| SDev   | .00141   | .00425  | .02343  |
| %RSD   | -34.738  | 45.606  | 17.310  |
| #1     | 1-.00488 | .00976  | .15926  |
| #2     | 1-.00489 | .01321  | .11236  |
| #3     | 1-.00244 | .00478  | .13485  |
| Errors | LC Low   | LC Pass | LC Pass |
| High   | 100.00   | 100.00  | 100.00  |
| Low    | .00000   | .00000  | .00000  |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

Fri 02-19-95 01:19:35 PM

0.9142

Method: 1EAC12      Sample Name: 1.1500.200706003

Generator: DMA

Time: 02/19/98 13:14:08

(S-101)

1488

Comment: 700%

Mode: COND Corr. Factor: 1

[illegible][illegible][illegible]

1489

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .02695  | .20135  | .29217  |
| SDev   | .00292  | .01420  | .00963  |
| ZRSD   | 10.817  | 7.0540  | 3.2965  |
| ...    |         |         |         |
| #1     | .02358  | .20671  | .30298  |
| #2     | .02854  | .18525  | .28906  |
| #3     | .02872  | .21209  | .28448  |
| Errors | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| ZRSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Fri 02-19-93 01:25:37 PM

page 1  
1490

Method: IFAC12 Sample Name: 1.1700.700706094

Operator: DIMA

Time: 02/19/93 13:20:10

(.5-102)

Comment: 70040

Mode: CONC Corr. Factor: 1

[illegible]

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | CR2677  | CJ3247  | FE2714  | K 7664  | M62790  | MN2576  | NA5895  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .14824  | 1.7348  | 210.99  | 3.1049  | 5.9461  | 1.1739  | .72839  |
| Dev    | .00152  | .00078  | 1.16    | .3835   | .0204   | .0059   | .01558  |
| RSD    | 1.0267  | .44881  | .55200  | 12.352  | .34309  | .50433  | 2.1383  |
| <br>   |         |         |         |         |         |         |         |
| #1     | .14701  | 1.7440  | 212.23  | 2.8100  | 5.9396  | 1.1801  | .74636  |
| #2     | .14994  | 1.7377  | 210.82  | 2.9662  | 5.9690  | 1.1733  | .71873  |
| #3     | .14776  | 1.7285  | 209.91  | 3.5385  | 5.9298  | 1.1683  | .72009  |
| <br>   |         |         |         |         |         |         |         |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 200.00  | 100.00  | 1000.0  | 1000.0  | 1000.0  | 100.00  | 1000.0  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |

[illegible]

1491

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1536  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .01514  | .19277  | .22968  |
| SDev   | .00350  | .01078  | .02618  |
| %RSD   | 36.300  | 5.5875  | 11.398  |
|        |         |         |         |
| #1     | .00880  | .18864  | .20878  |
| #2     | .01835  | .20525  | .22122  |
| #3     | .01828  | .18503  | .25904  |
|        |         |         |         |
| Errors | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: 1FACT2

Sample Name: J.1300.200706002

Operator: DMA

Time: 02/19/93 13:26:12

(15-100)

1492

Comment: 70060

Mode: CONC Corr. Factors: 1

86.7%

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CO2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00081  | 40.789  | .41539  | .02676  | 28.911  | .00776  | .03265  |
| SD     | .00056  | .389    | .00314  | .00163  | .262    | .00085  | .00070  |
| RSR    | 69.592  | .95356  | .75484  | 6.0750  | .90595  | 10.908  | 2.1465  |
|        |         |         |         | 0.10 Fe |         |         |         |
| #1     | .00136  | 40.365  | .41226  | .02497  | 28.671  | .00734  | .03229  |
| #2     | .00081  | 40.872  | .41540  | .02738  | 28.872  | .00721  | .03220  |
| #3     | .00024  | 41.129  | .41853  | .02799  | 29.190  | .00874  | .03346  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 1000.0  | 100.00  | 100.00  | 1000.0  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
|        | 0.61u   | 8326.7  | 84.80B  | 0.20u   | 5902    | 1.584   | 6.67B   |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .11358  | .64463  | 106.84  | 3.9380  | 12.300  | 1.5580  | .58547  |
| SD     | .00084  | .00779  | .79     | .2539   | .124    | .0139   | .00970  |
| RSR    | .73751  | 1.2078  | .74065  | 6.4463  | 1.0087  | .89239  | 1.6566  |
| #1     | .11262  | .63578  | 106.10  | 4.1691  | 12.165  | 1.5436  | .59214  |
| #2     | .11406  | .64771  | 106.74  | 3.6663  | 12.326  | 1.5588  | .58994  |
| #3     | .11407  | .65041  | 107.67  | 3.9786  | 12.409  | 1.5714  | .57435  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 200.00  | 100.00  | 1000.0  | 1000.0  | 1000.0  | 100.00  | 1000.0  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
|        | 23.19   | 131.60  | 21810.5 | 803.9B  | 2510.9  | 318.05  | 119.5B  |

| Elem   | NI2316  | PB2203  | SB2068   | SE1960   | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|----------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     | ppm     |
| Avg    | .10096  | 1.1867  | 1-.00717 | 1-.07160 | .18602  | 1.3473  | 1.6655  |
| SD     | .01117  | .0170   | .01229   | .00708   | .00347  | .0089   | .0203   |
| RSR    | 11.064  | 1.4360  | -171.44  | -9.8932  | 1.8632  | .66413  | 1.2170  |
| #1     | .08873  | 1.1673  | .00608   | 1-.07622 | .18287  | 1.3388  | 1.6431  |
| #2     | .11062  | 1.1990  | 1-.01819 | 1-.06345 | .18345  | 1.3466  | 1.6711  |
| #3     | .10353  | 1.1938  | 1-.00939 | 1-.07514 | .18973  | 1.3566  | 1.6824  |
| Errors | LC Pass | LC Pass | LC Low   | LC Low   | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00   | 100.00   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000   | .00000   | .00000  | .00000  | .00000  |
|        | 20.61   | 242.3   | 4.49u    |          | 37.97   | 275.04  |         |

---

|        |          |         |         |
|--------|----------|---------|---------|
| Elem   | MD2020   | BN1899  | AB1936  |
| Units  | ppm      | ppm     | ppm     |
| Avg    | .00480   | .04331  | .09819  |
| SD     | .00645   | .01422  | .03864  |
| %RSD   | 134.36   | 32.843  | 39.348  |
| ...    |          |         |         |
| #1     | .00232   | .03776  | .07942  |
| #2     | 1-.00004 | .03270  | .14263  |
| #3     | .01213   | .05947  | .07253  |
|        |          |         |         |
| Errors | LC Pass  | LC Pass | LC Pass |
| High   | 100.00   | 100.00  | 100.00  |
| Low    | .00000   | .00000  | .00000  |

---

---

| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|------------|----------|---------|---------|---------|---------|---------|---------|
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SD         | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|            |          |         |         |         |         |         |         |
| 1          | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

Method: JEAST2

Sample Name: 1.2100.2007060020

Operator: DMA

Run Time: 02/19/93 13:32:14

(5-1000)

1494

Comment: 70060

Mode: CONC Corr. Factors: 1

86.2%

| Elem   | AG3280  | AL3082  | BA4734  | BE2348  | CA3179  | CO2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.00036 | 39.328  | .49319  | .03049  | 30.296  | .00850  | .03658  |
| SDev   | .00194  | .289    | .00326  | .00068  | .200    | .00099  | .00169  |
| XRSD   | -541.81 | .73122  | .65521  | 2.2332  | .65970  | 11.669  | 4.6304  |
| #1     | 1.00250 | 39.242  | .49559  | .03027  | 30.095  | .00958  | .03467  |
| #2     | .00125  | 39.820  | .50186  | .02995  | 30.495  | .00830  | .03717  |
| #3     | .00018  | 39.523  | .49714  | .03126  | 30.299  | .00763  | .03790  |
| Errors | LC Low  | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 1000.0  | 100.00  | 100.00  | 1000.0  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
|        | 0.57u   | 7535.8  | 94.98B  | 0.19u   | 5775.8  | 1.62    | 6.97B   |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MA2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .12692  | .68305  | 120.64  | 4.0544  | 13.056  | 2.0169  | .52935  |
| SDev   | .00547  | .00458  | .87     | .2182   | .108    | .0143   | .01087  |
| XRSD   | 4.3087  | .67045  | .71706  | 5.3820  | .82675  | .71104  | 2.0536  |
| #1     | .12716  | .67820  | 119.74  | 4.0832  | 12.935  | 2.0031  | .52233  |
| #2     | .12133  | .68730  | 121.46  | 3.8232  | 13.143  | 2.0317  | .54187  |
| #3     | .13226  | .68366  | 120.73  | 4.2567  | 13.089  | 2.0157  | .52386  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 200.00  | 100.00  | 1000.0  | 1000.0  | 1000.0  | 100.00  | 1000.0  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
|        | 24.2    | 130.2   | 22999.4 | 773B    | 2489.1  | 384.5   | 100.9B  |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .10228  | 1.3058  | .02050  | 1.06078 | .19181  | 1.5671  | 1.7587  |
| SDev   | .00692  | .0177   | .01037  | .03399  | .00099  | .0137   | .0147   |
| XRSD   | 6.7644  | 1.3534  | 50.582  | -33.928 | .51517  | .87465  | .83656  |
| #1     | .09477  | 1.2857  | .03007  | 1.03251 | .19067  | 1.5519  | 1.7460  |
| #2     | .10367  | 1.3189  | .02195  | 1.09849 | .19236  | 1.5784  | 1.7748  |
| #3     | .10840  | 1.3128  | .00948  | 1.05133 | .19240  | 1.5711  | 1.7551  |
| Errors | LC Pass | LC Pass | LC Pass | LC Low  | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
|        | 19.5    | 248.9   | 4.19u   |         | 36.6    | 298.8   |         |

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1859  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .00757  | .06370  | .12020  |
| SDev   | .00377  | .01604  | .00876  |
| XRSD   | 49.781  | 25.185  | 7.2836  |
| <hr/>  |         |         |         |
| #1     | .00346  | .08201  | .11009  |
| #2     | .01086  | .05208  | .12508  |
| #3     | .00838  | .03702  | .12342  |
| <hr/>  |         |         |         |
| Errors | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  |

---

1495

---

|            |          |         |         |         |         |         |         |
|------------|----------|---------|---------|---------|---------|---------|---------|
| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| XRSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| <hr/>      |          |         |         |         |         |         |         |
| 1          | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

Fri 02-19-93 01:44:33 PM

page 1

Method: JEAC12 Sample Name: 1-1700-2007060028  
 Time: 02/19/93 13:39:07  
 Comment: 70060  
 Mode: CONC Corr. Factor: 1

Operator: DHA

(5-1005)

86.7%

1496

| Elem   | AG3280    | AL3082  | BA4934  | BE2340  | CA3179  | CO2288  | CO2286  |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Units  | ppm       | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .04287    | 49.748  | 2.3112  | .07880  | 21.616  | .04763  | .53483  |
| SD     | .00032    | .338    | .0118   | .0106   | .103    | .00136  | .00176  |
| SRSD   | .73470    | .67940  | .51263  | 1.3458  | .47600  | 2.8465  | .32941  |
| #1     | SA= 9.858 | 394.33  | 394.33  | 51.06   |         | 9.858   | 98.58   |
| #2     | .04323    | 49.398  | 2.2996  | .07887  | 21.515  | .04625  | .53312  |
| #3     | .04269    | 49.775  | 2.3107  | .07771  | 21.612  | .04896  | .53471  |
|        | .04269    | 50.072  | 2.3233  | .07983  | 21.721  | .04769  | .53664  |
| Errors | LC Pass   | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00    | 1000.0  | 100.00  | 100.00  | 1000.0  | 100.00  | 100.00  |
| Low    | .00000    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
| %R     | 8.45      | 9808.5  | 455.68  | 10.06   | 4261.9  | 9.39    | 105.44  |
|        | 85.7      | 375.8   | 94.1    | 102.0   | —       | 79.2    | 100.2   |

| Elem   | CR2677    | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Units  | ppm       | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .32029    | .80331  | 111.41  | 3.7193  | 13.366  | 2.1958  | .60796  |
| SD     | .00495    | .00675  | .52     | .0001   | .061    | .0109   | .02108  |
| SRSD   | 1.5460    | .84034  | .46490  | .00165  | .45718  | .49420  | 3.4675  |
| #1     | SA= 39.43 | 49.29   | 197.16  |         |         | 98.58   |         |
| #2     | .32198    | .79568  | 110.90  | 3.7193  | 13.305  | 2.1838  | .63228  |
| #3     | .32417    | .80577  | 111.41  | 3.7193  | 13.366  | 2.1989  | .59499  |
|        | .31471    | .80849  | 111.93  | 3.7194  | 13.427  | 2.2048  | .59660  |
| Errors | LC Pass   | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 200.00    | 100.00  | 1000.0  | 1000.0  | 1000.0  | 100.00  | 1000.0  |
| Low    | .00000    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
| %R     | 101.3     | 54.3*   | 78.8    | —       | —       | 116.5   | —       |

| Elem   | NI2316    | PB2203  | SB2068  | SE1960  | V 2724  | ZN2138  | TI3349  |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Units  | ppm       | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .61085    | 1.5350  | .40089  | 1.8251  | .68721  | 1.8318  | 2.2533  |
| SD     | .01175    | .0066   | .01698  | .0251   | .00002  | .0106   | .0111   |
| SRSD   | 1.7231    | .42725  | 4.2345  | 1.3754  | .00311  | .57978  | .49212  |
| #1     | SA= 98.58 | 98.58   | 98.58   |         | 98.58   | 98.58   |         |
| #2     | .59803    | 1.5392  | .38490  | 1.8051  | .68722  | 1.8197  | 2.2414  |
| #3     | .61340    | 1.5275  | .41871  | 1.8532  | .68723  | 1.8362  | 2.2551  |
|        | .62111    | 1.5385  | .39906  | 1.8169  | .68719  | 1.8395  | 2.2634  |
| Errors | LC Pass   | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00    | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  |
| Low    | .00000    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
| %R     | 101.2     | 61.2*   | 80.2    |         | 98.9    | 87.4    |         |

1497

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | M02020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .50396  | 1.2840  | 2.0265  |
| SDev   | .00354  | .0068   | .0213   |
| %RSD   | 1.6947  | .52921  | 1.0588  |
|        |         |         |         |
| #1     | .49585  | 1.2767  | 2.0020  |
| #2     | .50315  | 1.2851  | 2.0356  |
| #3     | .51287  | 1.2901  | 2.0420  |
|        |         |         |         |
| Errors | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  |

---

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

## Analysis Report

02-19-93 01:50:35 PM

Page 1

Method: IFACT2 Sample Name: 1.0000.2001 USR  
 Time: 02/19/93 13:45:08  
 Comment: 70060  
 Mode: CONC Corr. Factors: 1

Operator: JMA

1498

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CO2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .11302  | 1.6618  | .02584  | .12794  | 898.44  | .19607  | .70675  |
| SD     | .00085  | .0237   | .00090  | .00078  | 4.38    | .00079  | .00382  |
| SRSD   | .75315  | 1.4233  | 3.4754  | .60894  | .48789  | .40293  | .54080  |
|        |         |         |         | 100.25% |         |         |         |
| #1     | .11208  | 1.6519  | .02480  | .12705  | 893.91  | .19641  | .70337  |
| #2     | .11323  | 1.6448  | .02636  | .12829  | 898.76  | .19664  | .70598  |
| #3     | .11375  | 1.6888  | .02635  | .12848  | 902.66  | .19517  | .71090  |
|        | 22.60   | 332.36  | 5.17    | 20.05   | 179688  | 39.21   | 141.35  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 1000.0  | 100.00  | 100.00  | 1000.0  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
| %B=    |         |         | 107.7   |         |         |         |         |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .48332  | 34.168  | 110.75  | 4.0187  | 582.09  | .98509  | .23549  |
| SD     | .00947  | .396    | .48     | .2124   | 3.96    | .00373  | .00857  |
| SRSD   | 1.9583  | 1.1578  | .42879  | 5.2848  | .68107  | .37876  | 3.6398  |
| #1     | .48334  | 33.757  | 110.43  | 4.1301  | 577.90  | .98151  | .22591  |
| #2     | .47384  | 34.200  | 111.04  | 4.1322  | 582.60  | .98480  | .24242  |
| #3     | .49277  | 34.546  | 111.37  | 3.7738  | 585.78  | .98896  | .23815  |
|        | 96.66   | 6833.6  | 22190   | 803.74  | 116418  | 197.02  | 47.10   |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 200.00  | 100.00  | 1000.0  | 1000.0  | 1000.0  | 100.00  | 1000.0  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
| %B=    |         | 98.9    |         |         |         | 94.7    |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2724  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .27835  | 1.0887  | 1.1326  | .20549  | .34262  | .84025  | .06821  |
| SD     | .01712  | .0152   | .0241   | .03425  | .00743  | .00798  | .00109  |
| SRSD   | 6.1507  | 1.3934  | 2.1322  | 16.667  | 2.1685  | .94947  | 1.6015  |
| #1     | .26730  | 1.1063  | 1.1297  | .22691  | .35120  | .83144  | .06947  |
| #2     | .26968  | 1.0819  | 1.1100  | .22357  | .33829  | .84235  | .06768  |
| #3     | .29808  | 1.0785  | 1.1581  | .16599  | .33837  | .84697  | .06749  |
|        | 55.67   | 217.8   | 226.5   |         | 68.52   | 168.05  |         |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |
| %B=    |         | 92.3    |         |         |         | 89.9    |         |

1499

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AB1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .24933  | .01806  | 4.9188  |
| SDev   | .00243  | .00700  | .0126   |
| %RSD   | .97615  | 49.822  | .25118  |
| ...    |         |         |         |
| #1     | .24928  | .02679  | 4.9203  |
| #2     | .24692  | .01857  | 4.9058  |
| #3     | .25179  | .00882  | 4.9304  |
| Errors | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  |

---

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

## Analysis Report

QC Standard

Fri 02-19-93 02:02:44 PM

page 1

Method: IFAD12

Sample Name: D1321

Operator: DMA

Time: 02/19/93 13:57:14

1500

Comment: 70060

Mode: CONC Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CO2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00090 | .72404  | .00000  | -.00017 | .05474  | -.00058 | .00000  |
| SD     | .00173  | .63816  | .0016   | .00001  | .00308  | .00101  | .0010   |
| %RSD   | -192.05 | 88.139  | -85346. | -3.8156 | 5.6311  | -173.35 | -63639. |
| #1     | -.00287 | .01403  | .00000  | -.00017 | .05720  | -.00038 | .00072  |
| #2     | -.00018 | .90827  | .00158  | -.00018 | .05572  | .00031  | -.00111 |
| #3     | .00035  | 1.2498  | -.00158 | -.00017 | .05128  | -.00167 | .00088  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00194 | .16896  | .05649  | -.47985 | .02763  | .00588  | .12046  |
| SD     | .00000  | .01336  | .00991  | .43374  | .01264  | .00572  | .02347  |
| %RSD   | -.10005 | 7.9088  | 17.545  | -90.392 | 45.726  | 97.231  | 19.482  |
| #1     | -.00194 | .18276  | .04670  | -.49142 | .01441  | -.00056 | .09942  |
| #2     | -.00194 | .16804  | .05632  | -.04043 | .03959  | .00784  | .11620  |
| #3     | -.00193 | .15608  | .05626  | -.90769 | .02890  | .01037  | .14577  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | NI2316  | PB2203  | *SB2068 | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00160  | -.00441 | 5.1709  | -.02111 | -.00029 | .02250  | -.00051 |
| SD     | .00714  | .00051  | .0832   | .02546  | .00131  | .00228  | .00158  |
| %RSD   | 445.73  | -11.628 | 1.6091  | -120.59 | -447.49 | 10.125  | -311.48 |
| #1     | .00241  | -.00383 | 5.0918  | -.01278 | -.00172 | .02489  | -.00101 |
| #2     | .00830  | -.00459 | 5.1634  | -.00086 | -.00001 | .02225  | .00126  |
| #3     | -.00591 | -.00481 | 5.2576  | -.04970 | .00085  | .02036  | -.00177 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         | 5.0000  |         |         |         |         |
| Range  |         |         | 10.000  |         |         |         |         |

1501

---

|       |        |         |         |
|-------|--------|---------|---------|
| Elem  | MD2020 | SN1899  | AS1936  |
| Units | ppm    | ppm     | ppm     |
| Avg   | .00404 | -.02131 | -.00234 |
| SDev  | .00140 | .00516  | .00584  |
| %RSD  | 34.562 | -24.100 | -248.97 |

|    |        |         |         |
|----|--------|---------|---------|
| #1 | .00323 | -.01544 | -.00183 |
| #2 | .00323 | -.02356 | -.00842 |
| #3 | .00565 | -.02495 | .00322  |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

---

| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|------------|----------|---------|---------|---------|---------|---------|---------|
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|            |          |         |         |         |         |         |         |
| 1          | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

## Analysis Report

QC Standard

Fri 02-19-93 02:08:48 PM

page 1

Method: FACT2 Sample Name: GCV2

Operator: JNA

1502

Time: 02/19/93 14:03:18

Comments: 70060

Mode: CONC Corr. Factor: 1

| Elem   | Ag3280  | Al3082  | BA4934  | BE2348  | Ca3179  | CO2288  | CO2285  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .60029  | 5.0549  | 5.1115  | .12786  | 13.127  | 1.2339  | 1.2670  |
| SD     | .00182  | .0155   | .0134   | .00044  | .063    | .0094   | .0053   |
| RSR    | .30296  | .30655  | .26304  | .34525  | .47699  | .75689  | .41690  |
| #1     | .59924  | 5.0459  | 5.1014  | .12762  | 13.109  | 1.2281  | 1.2648  |
| #2     | .59924  | 5.0459  | 5.1062  | .12760  | 13.075  | 1.2333  | 1.2632  |
| #3     | .60239  | 5.0727  | 5.1267  | .12837  | 13.196  | 1.2463  | 1.2730  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | Mg2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .51306  | .63528  | 2.6327  | 12.524  | 13.018  | 1.2530  | 12.967  |
| SD     | .00317  | .00281  | .0540   | .112    | .061    | .0032   | .075    |
| RSR    | .61838  | .44248  | 2.0128  | .89084  | .46892  | .25407  | .58071  |
| #1     | .51525  | .63467  | 2.6337  | 12.478  | 12.994  | 1.2516  | 12.966  |
| #2     | .50942  | .63282  | 2.6737  | 12.443  | 12.973  | 1.2508  | 12.892  |
| #3     | .51451  | .63834  | 2.7406  | 12.651  | 13.088  | 1.2566  | 13.042  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.2884  | 2.5118  | .00070  | 2.5461  | 1.2977  | 1.2708  | -.00069 |
| SD     | .0190   | .0126   | .01889  | .0039   | .0089   | .0034   | .00044  |
| RSR    | 1.4756  | .50063  | 2713.7  | .15285  | .68748  | .26489  | -63.317 |
| #1     | 1.2864  | 2.4977  | -.01838 | 2.5418  | 1.2926  | 1.2677  | -.00119 |
| #2     | 1.2704  | 2.5155  | .01910  | 2.5470  | 1.2925  | 1.2704  | -.00043 |
| #3     | 1.3083  | 2.5220  | .00107  | 2.5495  | 1.3080  | 1.2744  | -.00044 |
| Errors | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value  | 1.2500  | 2.5000  |         | 2.5000  | 1.2500  | 1.2500  |         |
| Range  | 10.000  | 10.000  |         | 10.000  | 10.000  | 10.000  |         |

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | M02020  | SN1899  | AS1536  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .00173  | -.02149 | 2.5413  |
| SDev   | .00140  | .00722  | .0164   |
| %RSD   | 80.585  | -33.586 | .64357  |
| #1     | .00254  | -.01321 | 2.5226  |
| #2     | .00254  | -.02477 | 2.5528  |
| #3     | .00012  | -.02648 | 2.5485  |
| Errors | NOCHECK | NOCHECK | QC Pass |
| Value  |         |         | 2.5000  |
| Range  |         |         | 10.000  |

---

---

| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|------------|----------|---------|---------|---------|---------|---------|---------|
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

name :

1504

Method: 1EACTZ      Sample Name: CDB2

Operator: DMA

Time: 02/19/93 14:12:03

Document: 70060

Mode: CONC    Corr. Factor: 1

[illegible][illegible][illegible]

1505

---

|       |          |          |          |
|-------|----------|----------|----------|
| Elem  | MD2020   | BN1899   | AS1936   |
| Units | ppm      | ppm      | ppm      |
| Avg   | Q-.00242 | Q-.01773 | Q-.00485 |
| SD    | .00504   | .00426   | .01245   |
| %RSD  | 208.36   | -24.000  | -256.12  |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | Q-.00161 | Q-.01829 | Q-.01892 |
| #2 | Q-.00080 | Q-.02168 | Q-.00039 |
| #3 | Q-.00806 | Q-.01322 | Q-.00475 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

---

|            |           |         |         |         |         |         |         |
|------------|-----------|---------|---------|---------|---------|---------|---------|
| IntStd     | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode       | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SD         | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1          | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

Fri 02-19-93 02:23:35 PM

page 1

Method: IFACT2 Sample Name: 1.00005.000206003  
 Time: 02/19/93 14:18:08  
 Comment: 70060  
 Mode: CONC Corr. Factor: 1

Operator: DMA

1506

(15-101L)

| Elem   | A63280   | AL3082  | BA4934 | BE2348 | CA3179 | CD2288 | CD2286 |
|--------|----------|---------|--------|--------|--------|--------|--------|
| Units  | ppm      | ppm     | ppm    | ppm    | ppm    | ppm    | ppm    |
| Avge   | .00007   | 3.9395  | .14824 | .02212 | 8.5594 | .01036 | .01222 |
| SDev   | .00147   | .0072   | .00182 | .00132 | .0351  | .00075 | .00064 |
| %RSD   | 2174.7   | .18214  | 1.2275 | 5.9860 | .40972 | 7.2392 | 5.2558 |
| #1     | .00174   | 3.9399  | .14720 | .02157 | 8.5219 | .01110 | .01159 |
| #2     | L-.00104 | 3.9321  | .14718 | .02116 | 8.5648 | .00960 | .01287 |
| #3     | L-.00050 | 3.9464  | .15034 | .02363 | 8.5914 | .01039 | .01221 |
| Errors | LC Pass  | 19697.5 | 741.2  | -0.47R | 42797  | 51.8   | 61.10  |
| High   | 100.00   | 1000.0  | 100.00 | 100.00 | 1000.0 | 100.00 | 100.00 |
| Low    | .00000   | .00000  | .00000 | .00000 | .00000 | .00000 | .00000 |
| RPD=   |          | 0.06    | 1.1    |        | 1.3    | 15.9   | 1.5    |

| Elem   | CR2677 | CU3247 | FE2714 | K 7654 | MG2790 | MN2576  | NA5895  |
|--------|--------|--------|--------|--------|--------|---------|---------|
| Units  | ppm    | ppm    | ppm    | ppm    | ppm    | ppm     | ppm     |
| Avge   | .11548 | .62492 | 90.508 | 1.0604 | 2.3138 | .65259  | .27461  |
| SDev   | .00112 | .00191 | .357   | .1564  | .0090  | .00175  | .00441  |
| %RSD   | .97113 | .30549 | .39405 | 14.752 | .38898 | .26880  | 1.6053  |
| #1     | .11671 | .62432 | 90.096 | 1.0719 | 2.3152 | .65063  | .27892  |
| #2     | .11450 | .62337 | 90.714 | 1.2107 | 2.3220 | .65315  | .27481  |
| #3     | .11524 | .62705 | 90.714 | .89847 | 2.3041 | .65400  | .27011  |
| Errors | 577.4  | 3124.6 | 452540 | 5302   | 11569  | 3262.95 | 1373.05 |
| High   | 200.00 | 100.00 | 1000.0 | 1000.0 | 1000.0 | 100.00  | 1000.0  |
| Low    | .00000 | .00000 | .00000 | .00000 | .00000 | .00000  | .00000  |
| RPD=   | 4.4    | 2.1    | 1.2    | 17.3   | 0.07   | 0.49    | 8.3     |

| Elem   | NI2316 | P82203 | SB2068   | SE1960   | V 2924 | ZN2138 | TI3349 |
|--------|--------|--------|----------|----------|--------|--------|--------|
| Units  | ppm    | ppm    | ppm      | ppm      | ppm    | ppm    | ppm    |
| Avge   | .16186 | 1.0761 | .00415   | L-.10207 | .03764 | 1.3243 | .22788 |
| SDev   | .00682 | .0073  | .05194   | .02579   | .00842 | .0034  | .00088 |
| %RSD   | 4.2138 | .68129 | 1251.9   | -25.268  | 22.359 | .25928 | .38406 |
| #1     | .15494 | 1.0832 | .05109   | L-.12091 | .02792 | 1.3213 | .22687 |
| #2     | .16205 | 1.0686 | .01300   | L-.07268 | .04250 | 1.3234 | .22838 |
| #3     | .16858 | 1.0766 | L-.05168 | L-.11263 | .04250 | 1.3280 | .22838 |
| Errors | 809.3  | 5380.5 |          |          | 188.20 | 6621.5 |        |
| High   | 100.00 | 100.00 | 100.00   | 100.00   | 100.00 | 100.00 | 100.00 |
| Low    | .00000 | .00000 | .00000   | .00000   | .00000 | .00000 | .00000 |
| RPD=   | 0.90   | 2.2    |          |          | 7.6    | 3.4    |        |

## Analysis Report

Fri 02-19-93 02:23:35 PM

page 2

1507

---

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | M02020 | SN1899 | AS1936 |
| Units | ppm    | ppm    | ppm    |
| Avg   | .00516 | .01638 | .04042 |
| SDev  | .00368 | .00373 | .01756 |
| %RSD  | 71.260 | 22.777 | 43.452 |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | .00836 | .01426 | .04515 |
| #2 | .00114 | .01420 | .02097 |
| #3 | .00598 | .02069 | .03513 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

Fri 02-19-93 02:29:37 PM

page 1

1508

Method: IEADT2 Sample Name: 1.1300.2007060020

Operator: DMA

Time: 02/19/93 14:24:10

Comment: 70060

Mode: CONC Corr. Factor: 1

(S-100A)

Cu = 1300 ppb Pb = 2200 ppb

| Elem   | Al3280  | Al3082  | BA4934  | BE2348  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00308  | 38.654  | .39815  | .02744  | 27.751  | .00536  | .03235  |
| SDev   | .00143  | .141    | .00273  | .00027  | .073    | .00027  | .00105  |
| %RSD   | 46.237  | .36350  | .68440  | .98984  | .26243  | 5.1095  | 3.2337  |
| #1     | .00362  | 38.529  | .39658  | .02765  | 27.703  | .00535  | .03325  |
| #2     | .00416  | 38.806  | .40130  | .02713  | 27.834  | .00563  | .03120  |
| #3     | .00147  | 38.628  | .39658  | .02754  | 27.715  | .00509  | .03259  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 1000.0  | 100.00  | 100.00  | 1000.0  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .10778  | 2.1711  | 102.30  | 3.7177  | 11.740  | 1.4934  | .56923  |
| SDev   | .00183  | .0108   | .41     | .2131   | .033    | .0049   | .01296  |
| %RSD   | 1.7008  | .49553  | .39754  | 5.7323  | .28174  | .32539  | 2.2764  |
| #1     | .10608  | 2.1631  | 101.99  | 3.9605  | 11.721  | 1.4906  | .57858  |
| #2     | .10754  | 2.1833  | 102.76  | 3.5617  | 11.778  | 1.4990  | .55444  |
| #3     | .10972  | 2.1668  | 102.16  | 3.6310  | 11.721  | 1.4906  | .57468  |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High   | 200.00  | 100.00  | 1000.0  | 1000.0  | 1000.0  | 100.00  | 1000.0  |
| Low    | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  | .00000  |

= 117.4%

| Elem   | NI2316  | PB2203  | SB2068   | SE1960   | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|----------|----------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm      | ppm      | ppm     | ppm     | ppm     |
| Avg    | .09048  | 3.4412  | L-.02231 | L-.07916 | .16485  | 1.2846  | 1.5908  |
| SDev   | .00565  | .0036   | .01133   | .02644   | .00001  | .0063   | .0112   |
| %RSD   | 6.2417  | .10347  | -50.787  | -33.399  | .00489  | .49363  | .70145  |
| #1     | .09581  | 3.4440  | L-.03515 | L-.10772 | .16484  | 1.2773  | 1.5840  |
| #2     | .09107  | 3.4372  | L-.01372 | L-.07423 | .16484  | 1.2879  | 1.6037  |
| #3     | .08456  | 3.4423  | L-.01806 | L-.05554 | .16486  | 1.2887  | 1.5847  |
| Errors | LC Pass | LC Pass | LC Low   | LC Low   | LC Pass | LC Pass | LC Pass |
| High   | 100.00  | 100.00  | 100.00   | 100.00   | 100.00  | 100.00  | 100.00  |
| Low    | .00000  | .00000  | .00000   | .00000   | .00000  | .00000  | .00000  |

= 102.5%

1509

---

|        |           |         |         |
|--------|-----------|---------|---------|
| Elem   | MD2020    | SN1899  | AS1936  |
| Units  | ppm       | ppm     | ppm     |
| Avg    | .00041    | .04074  | .10534  |
| SD     | .00143    | .01256  | .01449  |
| %RSD   | 353.07    | 30.837  | 13.755  |
| ...    |           |         |         |
| #1     | LC-.00043 | .02791  | .12140  |
| #2     | .00206    | .05301  | .10137  |
| #3     | LC-.00041 | .04131  | .09325  |
|        |           |         |         |
| Errors | LC Pass   | LC Pass | LC Pass |
| High   | 100.00    | 100.00  | 100.00  |
| Low    | .00000    | .00000  | .00000  |

---

---

| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|------------|----------|---------|---------|---------|---------|---------|---------|
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SD         | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|            |          |         |         |         |         |         |         |
|            | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

Method: JFACT2      Sample Name: CRIF  
Time: 02/19/93 14:43:06  
Comment: 70060  
Mode: CONC      Corr. Factor: 1

Operator: BMA

1510

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CO2280  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | rpm     | rpm     | rpm     | rpm     | rpm     | rpm     | rpm     |
| Avg    | .02030  | .39731  | .40101  | .00955  | .01896  | .01020  | .09948  |
| SDev   | .00144  | .00565  | .00183  | .00002  | .00170  | .00054  | .00132  |
| %RSD   | 7.0697  | 1.4209  | .43521  | .17207  | 8.9578  | 5.3001  | 1.3231  |
| #1     | .02192  | .40349  | .39996  | .00955  | .02092  | .01067  | .09948  |
| #2     | .01976  | .39243  | .39996  | .00957  | .01798  | .00961  | .09816  |
| #3     | .01920  | .39600  | .40312  | .00954  | .01798  | .01032  | .10080  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass |
| Value  | .02000  | .40000  | .40000  | .01000  |         | .01000  | .10000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  |         | 20.000  | 20.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .02133  | .05613  | Q.27007 | -.40471 | -.01504 | .03196  | .03366  |
| Dev    | .00000  | .00106  | .02471  | .30488  | .00418  | .00049  | .00645  |
| RSD    | .01343  | 1.8927  | 9.1474  | -75.333 | -27.801 | 1.5191  | 19.151  |
| #1     | .02133  | .05674  | Q.27358 | -.17924 | -.01745 | .03224  | .02841  |
| #2     | .02133  | .05674  | Q.24380 | -.75159 | -.01021 | .03140  | .04083  |
| #3     | .02133  | .05490  | Q.29284 | -.28329 | -.01745 | .03224  | .03171  |
| Errors | QC Pass | QC Pass | QC Fail | NOCHECK | NOCHECK | QC Pass | NOCHECK |
| Value  | .02000  | .05000  | .20000  |         |         | .03000  |         |
| Range  | 20.000  | 20.000  | 20.000  |         |         | 20.000  |         |

[illegible]

## Analysis Report

QC Standard

Fri 02-19-93 02:48:35 PM

PAGE 2  
1511

| Elem   | M02020  | SN1899  | AS1936  |
|--------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     |
| Avg    | 0.00882 | 0.00019 | 0.03017 |
| SDev   | .00140  | .00418  | .01078  |
| %RSD   | 15.823  | -2176.0 | 35.735  |
| #1     | 0.00802 | 0.00370 | .04201  |
| #2     | 0.01043 | 0.00034 | 0.02760 |
| #3     | 0.00801 | 0.00461 | 0.02091 |
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .02800  | .03800  | .04800  |
| Range  | 20.000  | 20.000  | 20.000  |

| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|------------|----------|---------|---------|---------|---------|---------|---------|
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | --       | --      | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1          | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

PHI 02-19-93 02:54:41 PM Page 1

1512

Method: IFAC12 Sample Name: ZIRCAL

Operator: DMA

Time: 02/19/93 14:49:11

Comment: 70060

Mode: CONC Corr. Factors: 1

| Elem   | Al33280 | Al3032  | BA4934  | BE2348  | CA3179  | CD2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00019 | 486.81  | -.00346 | .04750  | 483.46  | -.00046 | -.00082 |
| SDev   | .00094  | 2.75    | .00089  | .00147  | 3.16    | .00159  | .00320  |
| %RSD   | -501.14 | .56430  | -25.561 | 3.1162  | .65351  | -344.34 | -371.78 |
| #1     | -.00073 | 485.55  | -.00293 | .04793  | 482.45  | -.00146 | .00074  |
| #2     | -.00073 | 484.92  | -.00449 | .04836  | 480.93  | -.00129 | -.00450 |
| #3     | .00089  | 489.96  | -.00298 | .04862  | 487.00  | .00137  | .00131  |
| Errors | NOCHECK | QC Pass | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         | 500.00  |         |         | 500.00  |         |         |
| Range  |         | 20.000  |         |         | 20.000  |         |         |

X PC = 0.0025609

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MB2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00433 | -.00566 | 184.70  | -.15817 | 504.68  | .00067  | .00500  |
| SDev   | .00000  | .00108  | 1.17    | .15972  | 3.20    | .00042  | .01366  |
| %RSD   | -.10313 | -19.133 | .63138  | -100.98 | .63410  | 62.532  | 273.03  |
| #1     | -.00433 | -.00441 | 184.37  | -.02115 | 502.95  | .00043  | -.00496 |
| #2     | -.00434 | -.00621 | 183.73  | -.33359 | 502.71  | .00043  | -.00061 |
| #3     | -.00434 | -.00636 | 185.99  | -.11978 | 508.37  | .00115  | .02057  |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         |         | 200.00  |         | 500.00  |         |         |
| Range  |         |         | 20.000  |         | 20.000  |         |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00801 | -.01151 | -.02085 | -.05003 | .00199  | -.00364 | -.01144 |
| SDev   | .00889  | .00520  | .05358  | .05260  | .00099  | .00180  | .00079  |
| %RSD   | -110.91 | -45.192 | -266.58 | -105.14 | 49.837  | -49.359 | -6.9127 |
| #1     | -.00546 | -.01679 | .01354  | .00324  | .00256  | -.00163 | -.01083 |
| #2     | -.01789 | -.01137 | .00889  | -.05138 | .00256  | -.00419 | -.01233 |
| #3     | -.00068 | -.00639 | -.08497 | -.10193 | .00084  | -.00510 | -.01115 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | -.01271 | -.03559 | .31752  |
| SDev   | .00977  | .01500  | .06987  |
| %RSD   | -76.903 | -42.135 | 22.006  |
| #1     | -.01274 | -.05117 | .39820  |
| #2     | -.02747 | -.02125 | .27757  |
| #3     | -.00292 | -.03436 | .27679  |
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

Method: IFACT2 Sample Name: 105050

Generation: DMA

Time: 02/19/93 14:55:17

Comment: 70060

Mode: CONC Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CO2288  | CU2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .93800  | 484.33  | .48501  | .54788  | 480.67  | .92005  | .44825  |
| SD     | .00605  | 2.30    | .00240  | .00126  | 1.93    | .01013  | .00081  |
| %RSD   | .64524  | .47508  | .49443  | .23035  | .40225  | 1.1005  | .18037  |
| #1     | .93944  | 484.40  | .48712  | .54691  | 480.57  | .92291  | .44749  |
| #2     | .93135  | 482.00  | .48240  | .54743  | 478.79  | .90831  | .44820  |
| #3     | .94320  | 486.60  | .48551  | .54931  | 482.65  | .92844  | .44910  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | 500.00  | .5      | .5      | 500.00  | 1.0000  | .5      |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2770  | MN2576  | NA5875  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .45208  | .46161  | 183.24  | -.25912 | 501.99  | .46395  | .03016  |
| SD     | .00631  | .00367  | .76     | .52830  | 1.61    | .00248  | .00444  |
| %RSD   | 1.3968  | .79507  | .41323  | -203.88 | .31997  | .53490  | 14.733  |
| #1     | .45937  | .46222  | 183.26  | .34233  | 502.21  | .46394  | .03149  |
| #2     | .44844  | .45767  | 182.47  | -.64812 | 500.29  | .46147  | .03379  |
| #3     | .44842  | .46494  | 183.99  | -.47157 | 503.48  | .46643  | .02521  |
| Errors | QC Pass | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | .5      | .5      | 200.00  |         | 500.00  | .5      |         |
| Range  | 20.000  | 20.000  | 20.000  |         | 20.000  | 20.000  |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .88363  | .92255  | .05740  | -.11317 | .49432  | .92574  | -.01193 |
| SD     | .00393  | .00725  | .00754  | .06505  | .00147  | .00266  | .00106  |
| %RSD   | .44473  | .78391  | 13.142  | -57.486 | .29807  | .28718  | -8.9131 |
| #1     | .88796  | .92840  | .06607  | -.03932 | .49349  | .92413  | -.01169 |
| #2     | .88028  | .91444  | .05233  | -.16201 | .49345  | .92427  | -.01309 |
| #3     | .88266  | .92480  | .05381  | -.13816 | .49602  | .92880  | -.01100 |
| Errors | QC Pass | QC Pass | NOCHECK | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | 1.0000  | 1.0000  |         |         | .5      | 1.0000  |         |
| Range  | 20.000  | 20.000  |         |         | 20.000  | 20.000  |         |

---

|       |         |         |        |
|-------|---------|---------|--------|
| Elem  | MD2020  | SN1899  | A51936 |
| Units | ppm     | ppm     | ppm    |
| Avg   | -.00510 | -.02524 | .37592 |
| SDev  | .00508  | .01228  | .07355 |
| %RSD  | -99.687 | -48.660 | 19.566 |

|    |         |         |        |
|----|---------|---------|--------|
| #1 | -.00106 | -.01132 | .31025 |
| #2 | -.01081 | -.02988 | .45540 |
| #3 | -.00342 | -.03454 | .36211 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

|            |          |         |         |         |         |         |         |
|------------|----------|---------|---------|---------|---------|---------|---------|
| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: IEACT2 Sample Name: CDV38

Operation: DMA

1516

Time: 02/19/93 15:01:22

Comment: 70060

Mode: CDNC Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2343  | CA3179  | CO2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avgc   | .00179  | .17683  | .00032  | -.00008 | .20723  | .00266  | .00087  |
| SDev   | .00165  | .06244  | .00091  | .00018  | .07272  | .00100  | .00132  |
| %RSD   | 91.892  | 35.313  | 174.75  | -226.02 | 35.093  | 37.496  | 151.34  |
| #1     | .00036  | .12346  | .00158  | -.00019 | .14748  | .00379  | .00219  |
| #2     | .00143  | .16153  | .00000  | -.00018 | .18501  | .00189  | -.00043 |
| #3     | .00359  | .24550  | -.00001 | .00013  | .28821  | .00279  | .00087  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avgc   | .00438  | .04936  | .12270  | .00020  | .19748  | .00000  | .11483  |
| SDev   | .00547  | .00001  | .08121  | .37377  | .04479  | .0005   | .01552  |
| %RSD   | 125.05  | .00723  | 66.188  | 188830. | 22.679  | -17322. | 13.511  |
| #1     | -.00194 | .04936  | .08616  | .02907  | .16153  | -.00056 | .10807  |
| #2     | .00754  | .04936  | .06617  | -.38717 | .18326  | .00028  | .13258  |
| #3     | .00753  | .04936  | .21576  | .35870  | .24765  | .00028  | .10384  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | NI2316  | PB2203  | *SD2068 | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avgc   | -.00114 | -.00290 | 5.0894  | -.01263 | .00039  | .01650  | -.00027 |
| SDev   | .00469  | .00404  | .0133   | .01732  | .00100  | .00254  | .00076  |
| %RSD   | -412.21 | -139.19 | .26038  | -137.15 | 169.92  | 15.386  | -286.95 |
| #1     | -.00468 | -.00715 | 5.0741  | -.00406 | -.00001 | .01940  | .00050  |
| #2     | .00418  | .00088  | 5.0972  | -.00126 | .00175  | .01537  | -.00027 |
| #3     | -.00291 | -.00243 | 5.0969  | -.03257 | .00003  | .01471  | -.00103 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         | 5.0000  |         |         |         |         |
| Range  |         |         | 10.000  |         |         |         |         |

---

|       |        |         |        |
|-------|--------|---------|--------|
| Elem  | ND2020 | SN1899  | AS1936 |
| Units | ppm    | ppm     | ppm    |
| Avg   | .00324 | -.01487 | .01800 |
| SD    | .00419 | .01343  | .01163 |
| %RSD  | 129.38 | -90.315 | 64.625 |

|    |        |         |        |
|----|--------|---------|--------|
| #1 | .00081 | -.00047 | .00950 |
| #2 | .00807 | -.01708 | .01324 |
| #3 | .00082 | -.02706 | .03123 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

|            |          |         |         |         |         |         |         |
|------------|----------|---------|---------|---------|---------|---------|---------|
| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SD         | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1          | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Fri 02-19-93 03:12:56 PM

Page 1  
1518

Method: IFACT2 Sample Name: DUV3

Operator: JMO

Time: 02/19/93 15:07:27

Comment: 70060

Mode: CONC Corr. Factor: 1

| Elem   | Ag3280  | Al3082  | BA4934  | BE2348  | Ca3179  | CD2283  | CU2285  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .59953  | 5.0835  | 5.1320  | .12823  | 13.209  | 1.2407  | 1.2724  |
| SD     | .00428  | .0434   | .0121   | .00058  | .071    | .0084   | .0015   |
| RSR    | .71427  | .85203  | .23527  | .45574  | .33433  | .67567  | .11734  |
| #1     | .59547  | 5.0697  | 5.1188  | .12762  | 13.133  | 1.2320  | 1.2708  |
| #2     | .59913  | 5.0576  | 5.1346  | .12837  | 13.223  | 1.2413  | 1.2727  |
| #3     | .60400  | 5.1380  | 5.1425  | .12877  | 13.272  | 1.2488  | 1.2737  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5395  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .51572  | .62547  | 2.7178  | 12.183  | 13.082  | 1.2580  | 13.089  |
| Dev    | .00084  | .00319  | .0664   | .384    | .074    | .0049   | .054    |
| RSR    | .16230  | .30927  | 2.4434  | 3.1487  | .56247  | .39164  | .41190  |
| #1     | .51525  | .62363  | 2.6431  | 11.888  | 13.009  | 1.2524  | 13.034  |
| #2     | .51669  | .62363  | 2.7397  | 12.044  | 13.081  | 1.2600  | 13.142  |
| #3     | .51524  | .62914  | 2.7703  | 12.617  | 13.156  | 1.2617  | 13.093  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.2895  | 2.5279  | -.00857 | 2.6120  | 1.3049  | 1.2776  | -.00069 |
| SD     | .0147   | .0165   | .00140  | .0313   | .0109   | .0062   | .00043  |
| RSR    | 1.1385  | .65244  | -16.195 | 1.1969  | .83274  | .48548  | -62.446 |
| #1     | 1.2775  | 2.5091  | -.00730 | 2.5848  | 1.2926  | 1.2704  | -.00119 |
| #2     | 1.2852  | 2.5350  | -.01010 | 2.6052  | 1.3131  | 1.2813  | -.00044 |
| #3     | 1.3059  | 2.5398  | -.00860 | 2.6462  | 1.3089  | 1.2811  | -.00045 |
| Errors | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value  | 1.2500  | 2.5000  |         | 2.5000  | 1.2500  | 1.2500  |         |
| Range  | 10.000  | 10.000  |         | 10.000  | 10.000  | 10.000  |         |

done  
2/19

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1859  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | .00093  | -.01707 | 2.6007  |
| SDev   | .00140  | .00193  | .0056   |
| %RSD   | 151.14  | -11.321 | .21653  |
| #1     | .00254  | -.01818 | 2.6067  |
| #2     | .00011  | -.01818 | 2.5998  |
| #3     | .00012  | -.01483 | 2.5935  |
| Errors | NOCHECK | NOCHECK | QC Pass |
| Value  |         |         | 2.5000  |
| Range  |         |         | 10.000  |

---

| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|------------|----------|---------|---------|---------|---------|---------|---------|
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

1520-

Operator: DMA

Time: 02/19/93 15:13:32

Comment: 7005.0

Mode: CONC Corr. Factor: 1

[illegible][illegible][illegible]

1521

| Elem   | M02020  | SN1899  | AS1936  |
|--------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     |
| Avg    | 0.00242 | 0.01109 | 0.00954 |
| SDev   | .00140  | .00627  | .01695  |
| %RSD   | 57.760  | -56.500 | 177.54  |
| #1     | 0.00323 | 0.00831 | 0.02837 |
| #2     | 0.00323 | 0.01827 | 0.00470 |
| #3     | 0.00081 | 0.00670 | 0.00445 |
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| 1      | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

File Name: W022293

Autosampler Type: TYPE 222

Sample Positions: 226/240

QC Positions: 0/14

# Sets: 1

Rinse Station location is rack -1, pos. -1.

1522

## ---- Racks ----

| Rack # | Type        | Usage        | #Pos Left | Analyses/Pos |
|--------|-------------|--------------|-----------|--------------|
| 1      | Small Tubes | Samples      | 46        | 1            |
| 2      | Small Tubes | Samples      | 60        | 1            |
| 3      | Small Tubes | Samples      | 60        | 1            |
| 4      | Small Tubes | Samples      | 48        | 1            |
| 5      | Large Tubes | STD/QC/BLANK | 0         | 10           |

## --- Sample Sets ---

| Set # | Description | Method | #Pos | Rack # | Start Pos |
|-------|-------------|--------|------|--------|-----------|
| 1     |             | JEACT2 | 14   | 1      | 1         |

Diane Abate  
2/22

## Rack #1

| Pos       | Row       | Col | Sample Name                              | Set # | #Used | Type   |
|-----------|-----------|-----|------------------------------------------|-------|-------|--------|
| 1         | 1         | 1   | <del>1.0001.0001PWW</del>                | 1     | -NA-  | Sample |
| 2         | 1         | 2   | 1.0001.0001PSW2                          | 1     | -NA-  | Sample |
| 3         | 1         | 3   | 1.0001.000206006 (FIELD BLANK)           | 1     | -NA-  | Sample |
| 4         | 1         | 4   | <del>1.0001.000210301 (LERAY SP)</del>   | 1     | -NA-  | Sample |
| 5         | 2         | 1   | <del>1.0001.000210801D (LERAY SPD)</del> | 1     | -NA-  | Sample |
| 6         | 2         | 2   | <del>1.0001.000210801S (LERAY SPS)</del> | 1     | -NA-  | Sample |
| 7         | 2         | 3   | <del>1.0001.0001CSW</del>                | 1     | -NA-  | Sample |
| 8         | 2         | 4   | 1.0001.0001CSW2                          | 1     | -NA-  | Sample |
| 9         | 3         | 1   | RINSE                                    | 1     | -NA-  | Sample |
| 10        | 3         | 2   | <del>1.0003.000210801L (LERAY SPL)</del> | 1     | -NA-  | Sample |
| 11        | 3         | 3   | <del>Sample-11</del>                     | 1     | -NA-  | Sample |
| 12        | 3         | 4   | Sample-12                                | 1     | -NA-  | Sample |
| 13        | 4         | 1   | Sample-13                                | 1     | -NA-  | Sample |
| 14        | 4         | 2   | <del>Sample-14</del>                     | 1     | -NA-  | Sample |
| (15...60) | Not Used) |     |                                          |       |       |        |

J0060  
Watus

## Rack #2

| Pos      | Row       | Col | Sample Name | Set # | #Used | Type |
|----------|-----------|-----|-------------|-------|-------|------|
| (1...60) | Not Used) |     |             |       |       |      |

## Rack #3

| Pos      | Row       | Col | Sample Name | Set # | #Used | Type |
|----------|-----------|-----|-------------|-------|-------|------|
| (1...60) | Not Used) |     |             |       |       |      |

## Rack #4

| Pos      | Row | Col | Sample Name | Set # | #Used | Type        |
|----------|-----|-----|-------------|-------|-------|-------------|
| (1...48) |     |     | Not Used    |       |       |             |
| 49       | 13  | 1   | CCB3        | -NA-  | 1     | QC Standard |
| 50       | 13  | 2   | CCV3        | -NA-  | 1     | QC Standard |
| 51       | 13  | 3   | CCV3A       | -NA-  | 1     | QC Standard |
| 52       | 13  | 4   | ICSAF       | -NA-  | 1     | QC Standard |
| 53       | 14  | 1   | ICSAF       | -NA-  | 1     | QC Standard |
| 53       | 14  | 1   | ICSAF       | -NA-  | 1     | QC Standard |
| 55       | 14  | 3   | CRIF        | -NA-  | 1     | QC Standard |
| 56       | 14  | 4   | CCB2        | -NA-  | 1     | QC Standard |
| 57       | 15  | 1   | CCV2        | -NA-  | 1     | QC Standard |
| 58       | 15  | 2   | CCV2A       | -NA-  | 1     | QC Standard |
| 59       | 15  | 3   | CCB1        | -NA-  | 1     | QC Standard |
| 60       | 15  | 4   | CCV1        | -NA-  | 1     | QC Standard |

1523

## Rack #5

| Pos | Row | Col | Sample Name | Set # | #Used | Type        |
|-----|-----|-----|-------------|-------|-------|-------------|
| 1   | 1   | 1   | STD2        | -NA-  | 1     | Standard    |
| 2   | 1   | 2   | STD3        | -NA-  | 1     | Standard    |
| 3   | 2   | 1   | STD4        | -NA-  | 1     | Standard    |
| 4   | 2   | 2   | STD5        | -NA-  | 1     | Standard    |
|     | 3   | 1   | STD6        | -NA-  | 1     | Standard    |
| 5   | 3   | 2   | STD7        | -NA-  | 1     | Standard    |
| 7   | 4   | 1   | STD1        | -NA-  | 1     | Standard    |
| 8   | 4   | 2   | ICV1        | -NA-  | 1     | QC Standard |
| 9   | 5   | 1   | ICV1A       | -NA-  | 1     | QC Standard |
| 10  | 5   | 2   | ICB         | -NA-  | 1     | QC Standard |
| 11  | 6   | 1   | CRIF        | -NA-  | 1     | QC Standard |
| 12  | 6   | 2   | ICSAI       | -NA-  | 1     | QC Standard |
| 13  | 7   | 1   | ICSAF       | -NA-  | 1     | QC Standard |
| 14  | 7   | 2   | CCV1A       | -NA-  | 1     | QC Standard |

Standard: STD2

*Std. purged 2/22/93 1524*

|      |        |        |        |        |        |        |         |
|------|--------|--------|--------|--------|--------|--------|---------|
| Elem | AG3280 | AL3082 | BA4934 | BE2348 | CA3179 | CD2238 | CD2286  |
| Avg  | 3.1889 | .01478 | .00000 | .00517 | .00011 | .00000 | -.00022 |
| SDev | .0217  | .00287 | .00000 | .00000 | .00010 | .00000 | .00038  |
| %RSD | .68204 | 19.415 | .00000 | .00000 | 86.603 | .00000 | -173.21 |
| #1   | 3.1767 | .01600 | .00000 | .00517 | .00017 | .00000 | .00000  |
| #2   | 3.1760 | .01683 | .00000 | .00517 | .00017 | .00000 | .00000  |
| #3   | 3.2140 | .01150 | .00000 | .00517 | .00000 | .00000 | -.00067 |

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | CR2677  | CJ3247 | FE2714 | K 7664 | MG2790 | MN2576 | NA5895 |
| Avg  | .00022  | .00172 | .00044 | .04567 | .00022 | .00039 | .00622 |
| SDev | .00048  | .00051 | .00039 | .00073 | .00010 | .00010 | .00079 |
| %RSD | 216.51  | 41.660 | 86.603 | 1.5908 | 43.301 | 24.744 | 12.658 |
| #1   | .00050  | .00133 | .00067 | .04600 | .00017 | .00050 | .00650 |
| #2   | .00050  | .00167 | .00067 | .04483 | .00017 | .00033 | .00683 |
| #3   | -.00033 | .00067 | .00000 | .04617 | .00033 | .00033 | .00533 |

|      |         |         |         |        |        |        |        |
|------|---------|---------|---------|--------|--------|--------|--------|
| Elem | NI2316  | PG2203  | SB2068  | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avg  | -.00189 | .00028  | .00067  | .00872 | .00233 | .00039 | .00022 |
| SDev | .00048  | .00082  | .00235  | .00329 | .00188 | .00019 | .00010 |
| %RSD | -25.471 | 295.97  | 352.67  | 37.704 | 80.496 | 49.487 | 43.301 |
| #1   | -.00217 | .00067  | -.00183 | .00650 | .00350 | .00050 | .00033 |
| #2   | -.00217 | .00083  | .00283  | .00717 | .00017 | .00017 | .00017 |
| #3   | -.00133 | -.00067 | .00100  | .01250 | .00333 | .00050 | .00017 |

|      |         |         |         |
|------|---------|---------|---------|
| Elem | MO2020  | SN1899  | AS1936  |
| Avg  | .00000  | .00044  | -.00144 |
| SDev | .00033  | .00054  | .00144  |
| %RSD | .00000  | 120.55  | -99.481 |
| #1   | .00033  | -.00017 | -.00017 |
| #2   | -.00033 | .00083  | -.00300 |
| #3   | .00000  | .00067  | -.00117 |

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 1525    |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD3

1526

*Std pupped 2/22 dna*

| Elem | AG3280  | AL3082 | SA4934 | BE2348 | CA3179 | CO2288 | CO2284 |
|------|---------|--------|--------|--------|--------|--------|--------|
| Avg  | -.00028 | .01839 | .00000 | .00806 | 1.1394 | .00039 | .00078 |
| SDev | .00038  | .00084 | .00017 | .00010 | .0091  | .00010 | .00039 |
| %RSD | -138.56 | 4.5618 | .00000 | 1.1945 | .79530 | 24.744 | 49.487 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.00050 | .01750 | .00000  | .00800 | 1.1298 | .00050 | .00100 |
| #2 | .00017  | .01850 | .00017  | .00817 | 1.1407 | .00033 | .00100 |
| #3 | -.00050 | .01917 | -.00017 | .00800 | 1.1478 | .00033 | .00033 |

| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MB2790 | MN2576 | NA5895 |
|------|--------|--------|--------|--------|--------|--------|--------|
| Avg  | .00061 | .00267 | .16722 | 1.0162 | .47922 | .00000 | 2.1803 |
| SDev | .00026 | .00000 | .00220 | .0087  | .00393 | .00000 | .0209  |
| %RSD | 41.660 | .00000 | 1.3160 | .85995 | .82031 | .00000 | .95961 |

|    |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|
| #1 | .00033 | .00267 | .16483 | 1.0062 | .47550 | .00000 | 2.1625 |
| #2 | .00083 | .00267 | .16767 | 1.0200 | .47883 | .00000 | 2.1750 |
| #3 | .00067 | .00267 | .16917 | 1.0223 | .48333 | .00000 | 2.2033 |

| Elem | NI2316  | PB2203 | SB2068 | SE1960 | V 2924 | ZN2138 | TI3349 |
|------|---------|--------|--------|--------|--------|--------|--------|
| Avg  | -.00056 | .00200 | .00139 | .00267 | .00006 | .00178 | .00050 |
| SDev | .00092  | .00101 | .00164 | .00117 | .00010 | .00026 | .00017 |
| %RSD | -165.23 | 50.690 | 117.78 | 43.750 | 173.21 | 14.321 | 33.333 |

|    |         |        |         |        |        |        |        |
|----|---------|--------|---------|--------|--------|--------|--------|
| #1 | -.00150 | .00267 | .00233  | .00183 | .00000 | .00183 | .00050 |
| #2 | .00033  | .00250 | .00233  | .00400 | .00017 | .00200 | .00067 |
| #3 | -.00050 | .00083 | -.00050 | .00217 | .00000 | .00150 | .00033 |

| Elem | MO2020  | SN1899  | AS1936  |
|------|---------|---------|---------|
| Avg  | -.00006 | -.00117 | -.00106 |
| SDev | .00010  | .00093  | .00292  |
| %RSD | -173.21 | -79.539 | -276.35 |

|    |         |         |         |
|----|---------|---------|---------|
| #1 | .00000  | -.00017 | -.00100 |
| #2 | -.00017 | -.00200 | .00183  |
| #3 | .00000  | -.00133 | -.00400 |

0 1527

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD4

1528

*Std purged 2/22 dne*

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | AG3280  | AL3082 | BA4934 | BE2348 | CA3179 | CD2288 | CD2286 |
| Avg  | -.01289 | .03278 | .00000 | 4.1423 | .00367 | .03567 | .01389 |
| SDev | .00010  | .00266 | .00000 | .0285  | .00029 | .00067 | .00019 |
| %RSD | -.74657 | 8.1071 | .00000 | .68812 | 7.8730 | 1.8692 | 1.3856 |
| #1   | -.01300 | .03583 | .00000 | 4.1705 | .00350 | .03567 | .01400 |
| #2   | -.01283 | .03100 | .00000 | 4.1428 | .00400 | .03633 | .01367 |
| #3   | -.01283 | .03150 | .00000 | 4.1135 | .00350 | .03500 | .01400 |

|      |        |        |        |        |         |         |        |
|------|--------|--------|--------|--------|---------|---------|--------|
| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MG2790  | MN2576  | NA5395 |
| Avg  | 2.3350 | .00411 | .02922 | .04317 | -.00939 | -.00028 | .10256 |
| SDev | .0266  | .00010 | .00067 | .00174 | .00010  | .00010  | .00210 |
| %RSD | 1.1403 | 2.3406 | 2.3050 | 4.0310 | -1.0249 | -34.641 | 2.0449 |
| #1   | 2.3630 | .00417 | .02830 | .04400 | -.00933 | -.00033 | .10450 |
| #2   | 2.3320 | .00417 | .02983 | .04117 | -.00950 | -.00017 | .10283 |
| #3   | 2.3100 | .00400 | .02933 | .04433 | -.00933 | -.00033 | .10033 |

|      |        |        |        |        |        |         |        |
|------|--------|--------|--------|--------|--------|---------|--------|
| Elem | NI2316 | PB2203 | SB2068 | SE1960 | V 2924 | ZN2138  | TI3349 |
| Avg  | 2.8416 | .00156 | .00389 | 1.9245 | 1.9873 | -.00972 | 2.2545 |
| SDev | .0309  | .00108 | .00084 | .0281  | .0197  | .00038  | .0402  |
| %RSD | 1.0887 | 69.712 | 21.571 | 1.4587 | .99376 | -3.9590 | 1.7820 |
| #1   | 2.8773 | .00150 | .00300 | 1.9513 | 2.0083 | -.01017 | 2.2952 |
| #2   | 2.8235 | .00050 | .00467 | 1.9268 | 1.9843 | -.00950 | 2.2535 |
| #3   | 2.8240 | .00267 | .00400 | 1.8953 | 1.9692 | -.00950 | 2.2148 |

|      |        |        |        |
|------|--------|--------|--------|
| Elem | MO2020 | SN1899 | AS1936 |
| Avg  | .76272 | .00289 | 1.4627 |
| SDev | .00526 | .00079 | .0170  |
| %RSD | .68974 | 27.264 | 1.1634 |
| #1   | .76817 | .00350 | 1.4818 |
| #2   | .76233 | .00317 | 1.4568 |
| #3   | .75767 | .00200 | 1.4493 |

1529

---

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD5

1530

*Std pupped 2/22 dm*

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | AG3280  | AL3082 | BA4934 | BE2348 | CA3179 | CD2288 | CO2286 |
| Avge | -.00022 | .00156 | 1.0857 | .00650 | .00106 | 2.7091 | 5.2560 |
| SDev | .00025  | .00144 | .0063  | .00033 | .00019 | .0169  | .0343  |
| %RSD | -114.56 | 92.375 | .57584 | 5.1282 | 18.232 | .625   | .65325 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | .00000  | .00183 | 1.0795 | .00683 | .00083 | 2.6905 | 5.2252 |
| #2 | -.00050 | .00283 | 1.0920 | .00650 | .00117 | 2.7237 | 5.2930 |
| #3 | -.00017 | .00000 | 1.0855 | .00617 | .00117 | 2.7130 | 5.2498 |

|      |        |        |        |        |         |        |        |
|------|--------|--------|--------|--------|---------|--------|--------|
| Elem | CR2677 | CU3247 | FE2714 | K 7664 | MG2790  | MN2576 | NA5895 |
| Avge | .00022 | 1.8454 | .01472 | .04561 | -.00467 | 1.9966 | .00978 |
| SDev | .00019 | .0141  | .00035 | .00296 | .00017  | .0148  | .00234 |
| %RSD | 86.603 | .76509 | 2.3566 | 6.4991 | -3.5714 | .74369 | 23.884 |

|    |        |        |        |        |         |        |        |
|----|--------|--------|--------|--------|---------|--------|--------|
| #1 | .00033 | 1.8303 | .01433 | .04900 | -.00450 | 1.9822 | .01050 |
| #2 | .00000 | 1.8583 | .01500 | .04350 | -.00467 | 2.0118 | .00717 |
| #3 | .00033 | 1.8475 | .01483 | .04433 | -.00483 | 1.9938 | .01167 |

|      |         |        |         |        |        |        |        |
|------|---------|--------|---------|--------|--------|--------|--------|
| Elem | NI2316  | PB2203 | SB2068  | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avge | -.00550 | 1.0660 | -.00050 | .01128 | .00022 | 2.7020 | .00117 |
| SDev | .00107  | .0078  | .00073  | .00590 | .00054 | .0199  | .00044 |
| %RSD | -19.871 | .73384 | -145.30 | 52.298 | 241.09 | .73472 | 37.796 |

|    |         |        |         |        |         |        |        |
|----|---------|--------|---------|--------|---------|--------|--------|
| #1 | -.00450 | 1.0608 | .00033  | .00467 | .00083  | 2.6817 | .00167 |
| #2 | -.00667 | 1.0750 | -.00083 | .01600 | .00000  | 2.7213 | .00100 |
| #3 | -.00533 | 1.0622 | -.00100 | .01317 | -.00017 | 2.7030 | .00083 |

|      |        |         |        |
|------|--------|---------|--------|
| Elem | MD2020 | SN1899  | AS1936 |
| Avge | .00244 | -.00072 | .00128 |
| SDev | .00092 | .00140  | .00118 |
| %RSD | 37.552 | -193.53 | 92.538 |

|    |        |         |        |
|----|--------|---------|--------|
| #1 | .00350 | .00017  | .00233 |
| #2 | .00200 | .00000  | .00000 |
| #3 | .00183 | -.00233 | .00150 |

1531

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| ZRSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

1532

Standard: ST06

*Std. purged 2/22 dna*

|      |         |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|--------|--------|
| Elem | AB3280  | AL3082 | BA4934 | BE2348 | CA3179 | CD2288 | CU2286 |
| Avge | -.00056 | .01844 | .00033 | .00539 | .00178 | .00104 | .00333 |
| SDev | .00042  | .00331 | .00000 | .00010 | .00010 | .00047 | .00153 |
| %RSD | -75.498 | 17.944 | .00000 | 1.7856 | 5.4127 | 63.812 | 45.826 |

|    |         |        |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|--------|
| #1 | -.00050 | .02133 | .00033 | .00550 | .00183 | .00183 | .00500 |
| #2 | -.00100 | .01483 | .00033 | .00533 | .00183 | .00067 | .00300 |
| #3 | -.00017 | .01917 | .00033 | .00533 | .00167 | .00067 | .00200 |

|      |        |        |         |        |        |        |        |
|------|--------|--------|---------|--------|--------|--------|--------|
| Elem | CR2677 | CU3247 | FE2714  | K 7664 | MG2790 | MN2576 | NA5895 |
| Avge | .00089 | .01639 | -.00044 | .03878 | .00006 | .00100 | .01056 |
| SDev | .00054 | .00211 | .00075  | .00238 | .00067 | .00033 | .00139 |
| %RSD | 60.273 | 12.877 | -169.10 | 6.1438 | 1212.4 | 33.333 | 13.147 |

|    |        |        |         |        |         |        |        |
|----|--------|--------|---------|--------|---------|--------|--------|
| #1 | .00150 | .01867 | .00033  | .04083 | .00067  | .00133 | .01100 |
| #2 | .00067 | .01600 | -.00050 | .03617 | .00017  | .00100 | .00900 |
| #3 | .00050 | .01450 | -.00117 | .03933 | -.00067 | .00067 | .01167 |

|      |        |        |        |        |        |        |        |
|------|--------|--------|--------|--------|--------|--------|--------|
| Elem | NI2316 | PB2203 | SB2068 | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avge | .00011 | .00100 | 1.2713 | .00261 | .00194 | .01278 | .00056 |
| SDev | .00084 | .00050 | .0175  | .00284 | .00169 | .00226 | .00010 |
| %RSD | 754.98 | 50.000 | 1.3728 | 108.57 | 86.709 | 18.430 | 17.321 |

|    |         |        |        |         |        |        |        |
|----|---------|--------|--------|---------|--------|--------|--------|
| #1 | -.00067 | .00050 | 1.2545 | -.00017 | .00300 | .01467 | .00067 |
| #2 | .00100  | .00100 | 1.2893 | .00550  | .00000 | .01200 | .00050 |
| #3 | .00000  | .00150 | 1.2700 | .00250  | .00283 | .01017 | .00050 |

|      |        |        |         |
|------|--------|--------|---------|
| Elem | MO2020 | SN1899 | AS1936  |
| Avge | .00089 | 1.0550 | -.00044 |
| SDev | .00039 | .0111  | .00155  |
| %RSD | 43.301 | 1.0506 | -348.43 |

|    |        |        |         |
|----|--------|--------|---------|
| #1 | .00133 | 1.0440 | .00000  |
| #2 | .00067 | 1.0662 | -.00217 |
| #3 | .00067 | 1.0548 | .00083  |

---

| IntStd | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| XRSD   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD7

*Std pupped 2/22 dna*

|      |         |        |        |        |        |         |         |
|------|---------|--------|--------|--------|--------|---------|---------|
| Elem | AG3280  | AL3082 | BA4934 | 8E2348 | CA3179 | CD2288  | CD2286  |
| AvgE | -.00044 | 2.0596 | .00011 | .00522 | .00056 | -.00017 | .00078  |
| SDev | .00077  | .0187  | .00019 | .00010 | .00067 | .00044  | .00150  |
| %RSD | -173.21 | .90785 | 173.21 | 1.8426 | 124.90 | -264.58 | 193.25  |
| #1   | .00000  | 2.0398 | .00033 | .00533 | .00133 | .00033  | .00233  |
| #2   | -.00133 | 2.0620 | .00000 | .00517 | .00033 | -.00033 | -.00067 |
| #3   | .00000  | 2.0770 | .00000 | .00517 | .00000 | -.00050 | .00067  |

|      |        |        |         |        |         |        |        |
|------|--------|--------|---------|--------|---------|--------|--------|
| Elem | CR2677 | CU3247 | FE2714  | K 7664 | MG2790  | MN2576 | NA5895 |
| AvgE | .00039 | .00933 | -.00083 | .03900 | .00022  | .00050 | .00917 |
| SDev | .00067 | .00060 | .00029  | .00328 | .00130  | .00000 | .00101 |
| %RSD | 173.21 | 6.4385 | -34.641 | 8.4178 | 582.56  | .00000 | 11.060 |
| #1   | .00117 | .01000 | -.00100 | .04267 | .00167  | .00050 | .00867 |
| #2   | .00000 | .00917 | -.00050 | .03633 | -.00083 | .00050 | .00850 |
| #3   | .00000 | .00883 | -.00100 | .03800 | -.00017 | .00050 | .01033 |

|      |         |        |         |        |         |        |        |
|------|---------|--------|---------|--------|---------|--------|--------|
| Elem | NI2316  | PB2203 | SB2068  | SE1960 | V 2924  | ZN2138 | TI3349 |
| AvgE | -.00083 | .00239 | .00133  | .01067 | .00089  | .00650 | .00033 |
| SDev | .00197  | .00142 | .00183  | .00392 | .00169  | .00058 | .00033 |
| %RSD | -235.80 | 59.337 | 137.50  | 36.744 | 189.67  | 8.8823 | 100.00 |
| #1   | .00083  | .00400 | .00317  | .00683 | .00000  | .00717 | .00067 |
| #2   | -.00033 | .00183 | .00133  | .01050 | .00283  | .00617 | .00000 |
| #3   | -.00300 | .00133 | -.00050 | .01467 | -.00017 | .00617 | .00033 |

|      |        |        |        |
|------|--------|--------|--------|
| Elem | MO2020 | SN1899 | AS1936 |
| AvgE | .00039 | .00094 | .00250 |
| SDev | .00010 | .00095 | .00159 |
| %RSD | 24.744 | 100.35 | 63.596 |
| #1   | .00050 | .00067 | .00233 |
| #2   | .00033 | .00017 | .00100 |
| #3   | .00033 | .00200 | .00417 |

1535

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | --       | ---     | ---     | ---     | ---     | ---     | ---     |
| AvgP   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Standard: STD1

*Std supplied 2/22 dma*

|      |         |        |         |        |         |         |         |
|------|---------|--------|---------|--------|---------|---------|---------|
| Elem | AB3280  | AL3082 | BA4934  | BE2348 | CA3179  | CU2288  | CU2286  |
| Avge | -.00056 | .01467 | -.00006 | .00533 | -.00028 | -.00011 | .00022  |
| SDev | .00038  | .00390 | .00019  | .00000 | .00048  | .00010  | .00051  |
| %RSD | -69.282 | 26.577 | -346.41 | .00000 | -173.21 | -86.603 | 229.13  |
| #1   | -.00100 | .01250 | .00017  | .00533 | -.00083 | -.00017 | .00067  |
| #2   | -.00033 | .01233 | -.00017 | .00533 | .00000  | .00000  | .00033  |
| #3   | -.00033 | .01917 | -.00017 | .00533 | .00000  | -.00017 | -.00033 |

|      |         |        |        |        |         |        |        |
|------|---------|--------|--------|--------|---------|--------|--------|
| Elem | CR2677  | CU3247 | FE2714 | K 7664 | MG2790  | MN2576 | NA5895 |
| Avge | .00000  | .00206 | .00078 | .04267 | -.00027 | .00000 | .00300 |
| SDev | .00017  | .00010 | .00069 | .00197 | .00048  | .00000 | .00275 |
| %RSD | .00000  | 4.6812 | 89.214 | 4.6054 | -216.51 | .00000 | 91.793 |
| #1   | .00000  | .00200 | .00133 | .04483 | -.00050 | .00000 | .00283 |
| #2   | .00017  | .00200 | .00000 | .04217 | .00033  | .00000 | .00033 |
| #3   | -.00017 | .00217 | .00100 | .04100 | -.00050 | .00000 | .00583 |

|      |         |         |         |        |        |        |        |
|------|---------|---------|---------|--------|--------|--------|--------|
| Elem | NI2316  | PB2203  | SB2048  | SE1960 | V 2924 | ZN2138 | TI3349 |
| Avge | -.00022 | .00061  | .00150  | .00900 | .00033 | .00100 | .00044 |
| SDev | .00236  | .00078  | .00404  | .00433 | .00044 | .00029 | .00026 |
| %RSD | -1061.5 | 159.80  | 269.43  | 48.113 | 132.29 | 28.868 | 57.282 |
| #1   | -.00150 | -.00050 | .00583  | .01150 | .00017 | .00133 | .00050 |
| #2   | -.00167 | .00100  | .00083  | .00400 | .00000 | .00083 | .00017 |
| #3   | .00250  | .00133  | -.00217 | .01150 | .00083 | .00083 | .00067 |

|      |        |        |         |
|------|--------|--------|---------|
| Elem | MO2020 | SN1899 | AS1936  |
| Avge | .00022 | .00028 | -.00139 |
| SDev | .00010 | .00026 | .00077  |
| %RSD | 43.301 | 91.652 | -55.426 |
| #1   | .00017 | .00000 | -.00183 |
| #2   | .00033 | .00033 | -.00183 |
| #3   | .00017 | .00050 | -.00050 |

G 1537

| IntStd | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Mon 02-22-93 11:02:31 AM 1538e 1

Method: JEACT2 Sample Name: 10V1

Operator: DMA

Time: 02/22/93 10:57:03

Comment: 710R

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CO2286  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .61939  | 5.1371  | 5.1410  | .12838  | 13.196  | 1.2273  | 1.2837  |
| SDev   | .00369  | .0225   | .0116   | .00024  | .034    | .0041   | .0019   |
| %RSD   | .59524  | .43792  | .22610  | .18446  | .26001  | .33199  | .14795  |
| #1     | .61541  | 5.1142  | 5.1277  | .12852  | 13.158  | 1.2238  | 1.2837  |
| #2     | .62007  | 5.1380  | 5.1492  | .12856  | 13.223  | 1.2263  | 1.2856  |
| #3     | .62269  | 5.1591  | 5.1461  | .12895  | 13.207  | 1.2318  | 1.2818  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .52422  | .62620  | 2.6881  | 12.647  | 13.148  | 1.2690  | 13.014  |
| SDev   | .00000  | .00188  | .0312   | .252    | .079    | .0034   | .069    |
| %RSD   | .00027  | .30077  | 1.1598  | 1.9941  | .22239  | .26585  | .53341  |
| #1     | .52422  | .62469  | 2.7221  | 12.510  | 13.114  | 1.2651  | 12.939  |
| #2     | .52422  | .62560  | 2.6608  | 12.493  | 13.163  | 1.2709  | 13.028  |
| #3     | .52422  | .62831  | 2.6813  | 12.938  | 13.167  | 1.2709  | 13.076  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

|        |         |         |                     |         |         |         |                    |
|--------|---------|---------|---------------------|---------|---------|---------|--------------------|
| Elem   | NI2316  | PB2203  | <del>PB2068</del>   | SE1960  | V 2924  | ZN2138  | TI3349             |
| Units  | ppm     | ppm     | <del>ppm</del>      | ppm     | ppm     | ppm     | ppm                |
| Avge   | 1.2959  | 2.5046  | <del>-.01929</del>  | 2.5193  | 1.3073  | 1.2840  | -.00095            |
| SDev   | .0130   | .0241   | <del>.00777</del>   | .0177   | .0041   | .0065   | .00085             |
| %RSD   | 1.0029  | .96336  | <del>-.40.277</del> | .70161  | .31535  | .50960  | -.89.492           |
| #1     | 1.2867  | 2.4907  | <del>-.01115</del>  | 2.5393  | 1.3026  | 1.2772  | -.00144            |
| #2     | 1.3108  | 2.5325  | <del>-.02663</del>  | 2.5126  | 1.3101  | 1.2846  | .00003             |
| #3     | 1.2902  | 2.4906  | <del>-.02009</del>  | 2.5059  | 1.3092  | 1.2903  | -.00145            |
| Errors | QC Pass | QC Pass | <del>NOCHECK</del>  | QC Pass | QC Pass | QC Pass | <del>NOCHECK</del> |
| Value  | 1.2500  | 2.5000  | <del>2.5000</del>   | 2.5000  | 1.2500  | 1.2500  | <del>1.2500</del>  |
| Range  | 10.000  | 10.000  | <del>10.000</del>   | 10.000  | 10.000  | 10.000  | <del>10.000</del>  |

1539

---

|       |        |        |        |
|-------|--------|--------|--------|
| Elem  | MD2020 | SN1899 | AS1936 |
| Units | ppm    | ppm    | ppm    |
| Avge  | .00077 | .00118 | 2.6177 |
| SDev  | .00218 | .00329 | .0281  |
| %RSD  | 285.32 | 280.05 | 1.0738 |

|    |         |         |        |
|----|---------|---------|--------|
| #1 | -.00142 | .00225  | 2.6028 |
| #2 | .00295  | -.00252 | 2.6501 |
| #3 | .00076  | .00379  | 2.6002 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | QC Pass |
| Value  |         |         | 2.5000  |
| Range  |         |         | 10.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: IEACT2

Sample Name: JCV1A

Operator: DMA 1540

Time: 02/22/93 11:03:07

Comment: Z108

Mode: CONC Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CU2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00033  | .01562  | .00154  | -.00012 | .01941  | .00126  | .00085  |
| SDev   | .00076  | .00580  | .00089  | .00020  | .00303  | .00089  | .00064  |
| %RSD   | 231.21  | 37.165  | 57.795  | -176.36 | 15.610  | 70.625  | 75.347  |
| #1     | .00018  | .02198  | .00205  | -.00035 | .02183  | .00221  | .00149  |
| #2     | .00115  | .01426  | .00205  | .00002  | .02038  | .00046  | .00021  |
| #3     | -.00035 | .01061  | .00051  | -.00002 | .01601  | .00109  | .00085  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | CR2677  | CU3247  | FE2714  | K 7644  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00190  | .02803  | -.02729 | .14267  | .01856  | .00250  | .02275  |
| SDev   | .00165  | .00052  | .05000  | .09734  | .00602  | .00000  | .01346  |
| %RSD   | 86.639  | 1.8649  | -183.23 | 68.227  | 32.458  | .07846  | 59.132  |
| #1     | .00285  | .02864  | -.07669 | .22254  | .02206  | .00250  | .00785  |
| #2     | .00285  | .02773  | -.02847 | .03425  | .01160  | .00250  | .02640  |
| #3     | .00000  | .02773  | .02329  | .17121  | .02202  | .00251  | .03401  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | NI2316  | PB2203  | *SB2068 | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00308 | .01290  | 5.0174  | -.00918 | .00391  | .01002  | -.00049 |
| SDev   | .00787  | .00410  | .0589   | .04149  | .00825  | .00109  | .00074  |
| %RSD   | -255.66 | 31.762  | 1.1749  | -452.10 | 211.04  | 10.879  | -149.49 |
| #1     | -.00874 | .01598  | 4.9545  | .00347  | -.00166 | .01062  | -.00050 |
| #2     | .00591  | .00825  | 5.0264  | .02452  | .01338  | .01068  | .00025  |
| #3     | -.00641 | .01446  | 5.0713  | -.05552 | .00000  | .00876  | -.00123 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         | 5.0000  |         |         |         |         |
| Range  |         |         | 10.000  |         |         |         |         |

6 1541

---

|       |         |        |         |
|-------|---------|--------|---------|
| Elem  | MD2020  | SN1859 | AS1936  |
| Units | ppm     | ppm    | ppm     |
| Avg   | -.00073 | .00123 | -.00258 |
| SDev  | .00001  | .00894 | .00446  |
| %RSD  | -.90515 | 727.21 | -172.83 |

|    |         |         |         |
|----|---------|---------|---------|
| #1 | -.00074 | .01155  | .00254  |
| #2 | -.00074 | -.00400 | -.00466 |
| #3 | -.00073 | -.00386 | -.00363 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: IFAC12      Sample Name: JCB

Operator: DMAS 1542

Time: 02/22/93 11:09:11

Comment: 7105

Mode: CONC      Corr. Factor: 1

[illegible][illegible][illegible]

0 1543

---

|       |          |         |          |
|-------|----------|---------|----------|
| Elem  | M02020   | SN1899  | AS1936   |
| Units | ppm      | ppm     | ppm      |
| Avg   | Q-.00146 | Q.00105 | Q-.01737 |
| SDev  | .00127   | .00599  | .01465   |
| %RSD  | -86.473  | 573.08  | -84.349  |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | Q-.00293 | Q-.00532 | Q-.02852 |
| #2 | Q-.00073 | Q.00372  | Q-.00078 |
| #3 | Q-.00074 | Q.00324  | Q-.02281 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |



1545

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | M02020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | 0.00724 | 0.01400 | 0.01902 |
| SDev   | .00127  | .00959  | .02135  |
| %RSD   | 17.519  | 68.484  | 112.29  |
|        |         |         |         |
| #1     | 0.00797 | 0.01504 | 0.01801 |
| #2     | 0.00577 | 0.00353 | .04086  |
| #3     | 0.00797 | 0.02302 | 0.00182 |
|        |         |         |         |
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .02800  | .03800  | .04800  |
| Range  | 20.000  | 20.000  | 20.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Mon 02-22-93 11:26:51 AM

Page 1

Method: JEACT2 Sample Name: ICSAT

Time: 02/22/93 11:21:23

Operator: DMA

1546

Comment: 7108

Mode: CONC Corr. Factor: 1

| Elem   | Ag3280  | Al3082  | BA4934  | BE2348  | CA3179  | CD2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00102 | 503.84  | -.00426 | .00277  | 488.84  | .00243  | -.00127 |
| SDev   | .00079  | 4.48    | .00005  | .00045  | 3.74    | .00088  | .00058  |
| %RSD   | -77.529 | .88829  | -1.0496 | 16.368  | .76513  | 36.119  | -46.189 |
| #1     | -.00189 | 504.52  | -.00428 | .00242  | 489.69  | .00159  | -.00066 |
| #2     | -.00085 | 499.07  | -.00421 | .00260  | 484.75  | .00235  | -.00182 |
| #3     | -.00033 | 507.94  | -.00430 | .00328  | 496.09  | .00334  | -.00132 |
| Errors | NOCHECK | QC Pass | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         | 500.00  |         |         | 500.00  |         |         |
| Range  |         | 20.000  |         |         | 20.000  |         |         |

*X Fe = 0.000014485*  
*avg = 0.000033666*

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00336 | -.00707 | 191.22  | .02616  | 514.83  | -.00193 | -.01559 |
| SDev   | .00249  | .00113  | 1.38    | .39126  | 4.15    | .00077  | .01378  |
| %RSD   | -74.226 | -15.978 | .72242  | 1495.7  | .80575  | -40.113 | -88.384 |
| #1     | -.00597 | -.00771 | 191.74  | -.35510 | 515.88  | -.00111 | -.01471 |
| #2     | -.00311 | -.00577 | 189.66  | .42671  | 510.26  | -.00265 | -.00227 |
| #3     | -.00100 | -.00774 | 192.27  | .00687  | 518.36  | -.00202 | -.02979 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         |         | 200.00  |         | 500.00  |         |         |
| Range  |         |         | 20.000  |         | 20.000  |         |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | .00055  | -.00745 | -.00493 | -.02978 | -.00363 | -.00066 | -.01198 |
| SDev   | .00355  | .00709  | .07895  | .04768  | .00128  | .00203  | .00030  |
| %RSD   | 651.72  | -95.102 | -1602.4 | -160.12 | -35.347 | -305.25 | -2.4815 |
| #1     | -.00354 | -.01175 | -.05452 | -.01289 | -.00503 | .00054  | -.01228 |
| #2     | .00231  | -.01133 | -.04637 | -.08361 | -.00252 | -.00301 | -.01193 |
| #3     | .00287  | .00073  | .08612  | .00716  | -.00334 | .00047  | -.01169 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

C 1547

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | -.01237 | -.01719 | .17155  |
| SDev   | .00509  | .01086  | .04798  |
| %RSD   | -41.161 | -63.169 | 27.968  |
| #1     | -.00649 | -.01566 | .22596  |
| #2     | -.01542 | -.02873 | .15339  |
| #3     | -.01520 | -.00718 | .13530  |
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: JEACT2 Sample Name: 108ADJ

Operator: DMA

1548

Time: 02/22/93 11:27:27

Comment: Z108

Mode: CONC Corr. Factor: 1

| Elem   | A63230  | AL3082  | BA4934  | 8E2348  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .96354  | 498.23  | .48855  | .50847  | 482.34  | .93392  | .45299  |
| SDev   | .00332  | 2.03    | .00151  | .00280  | 1.70    | .00329  | .00157  |
| %RSD   | .34421  | .40396  | .30828  | .55067  | .35291  | .35254  | .34737  |
| #1     | .96162  | 497.51  | .48855  | .50653  | 481.99  | .93219  | .45468  |
| #2     | .96737  | 500.52  | .49006  | .51168  | 484.20  | .93771  | .45272  |
| #3     | .96162  | 496.67  | .48704  | .50720  | 480.85  | .93185  | .45156  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | 500.00  | .5      | .5      | 500.00  | 1.0000  | .5      |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .45377  | .45834  | 187.81  | .34448  | 507.93  | .46538  | .05058  |
| SDev   | .00001  | .00088  | .87     | .21376  | 1.99    | .00092  | .00989  |
| %SD    | .00226  | .19233  | .46554  | 61.908  | .39235  | .19675  | 19.562  |
| #1     | .45377  | .45743  | 187.90  | .28653  | 507.04  | .46485  | .05040  |
| #2     | .45376  | .45919  | 188.64  | .58073  | 510.21  | .46644  | .04078  |
| #3     | .45378  | .45839  | 186.90  | .16619  | 506.53  | .46486  | .06056  |
| Errors | QC Pass | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | .5      | .5      | 200.00  |         | 500.00  | .5      |         |
| Range  | 20.000  | 20.000  | 20.000  |         | 20.000  | 20.000  |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .88174  | .92896  | -.03040 | .03076  | .48155  | .93996  | -.01171 |
| SDev   | .02126  | .01442  | .01073  | .06091  | .00000  | .00149  | .00051  |
| %RSD   | 2.4107  | 1.5517  | -.35317 | 198.06  | .00003  | .15818  | -4.3268 |
| #1     | .88448  | .91258  | -.02482 | .03211  | .48155  | .93933  | -.01190 |
| #2     | .90149  | .93456  | -.02360 | .09098  | .48155  | .94166  | -.01209 |
| #3     | .85924  | .93972  | -.04277 | -.03082 | .48155  | .93890  | -.01113 |
| Errors | QC Pass | QC Pass | NOCHECK | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | 1.0000  | 1.0000  |         |         | .5      | 1.0000  |         |
| Range  | 20.000  | 20.000  |         |         | 20.000  | 20.000  |         |

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | -.00788 | -.02020 | .10007  |
| SDev   | .00331  | .02552  | .03604  |
| %RSD   | -42.02% | -126.32 | 36.029  |
| #1     | -.01152 | -.04963 | .06029  |
| #2     | -.00708 | -.00685 | .10934  |
| #3     | -.00504 | -.00413 | .13039  |
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

Method: JEAC12 Sample Name: CCV11

Operator: DMA

1550

Time: 02/22/93 11:33:31

Comment: Z108

Mode: CONC Corr. Factor: 1

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | Ag3280  | Al3082  | BA4934  | BE2348  | Ca3179  | CO2288  | CO2286  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00091 | .07497  | .00102  | -.00013 | .07305  | .00139  | .00085  |
| SDev   | .00272  | .04066  | .00088  | .00017  | .02345  | .00089  | .00220  |
| %RSD   | -298.01 | 54.243  | 86.401  | -132.44 | 25.207  | 64.096  | 259.62  |
| #1     | .00011  | .10718  | .00051  | -.00002 | .11549  | .00116  | .00338  |
| #2     | .00115  | .08845  | .00204  | -.00004 | .07496  | .00237  | -.00043 |
| #3     | -.00399 | .02927  | .00052  | -.00033 | .06870  | .00064  | -.00041 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | Mg2790  | MN2576  | NA5895  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00118  | .02532  | -.00443 | -.11402 | .10663  | .00167  | .00800  |
| SDev   | .00206  | .00365  | .08964  | .40561  | .03482  | .00083  | .00061  |
| %RSD   | 173.94  | 14.421  | -2025.1 | -355.75 | 32.656  | 50.019  | 7.6001  |
| #1     | .00356  | .02863  | .03143  | .13709  | .14027  | .00250  | .00789  |
| #2     | -.00001 | .02592  | .06173  | .10282  | .10388  | .00167  | .00866  |
| #3     | .00000  | .02140  | -.10644 | -.58196 | .07074  | .00083  | .00745  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

|        |         |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Elem   | NI2316  | PB2203  | *SB2068 | SE1960  | V 2924  | ZN2138  | TI3349  |
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00122  | -.00315 | 5.0221  | -.01958 | .00780  | .01170  | -.00025 |
| SDev   | .00662  | .00469  | .0609   | .01598  | .00894  | .00131  | .00154  |
| %RSD   | 540.72  | -149.08 | 1.2129  | -81.597 | 114.53  | 11.231  | -607.52 |
| #1     | .00476  | .00198  | 4.9538  | -.00861 | .01255  | .01130  | .00024  |
| #2     | .00532  | -.00421 | 5.0418  | -.01221 | .01337  | .01317  | .00098  |
| #3     | -.00642 | -.00721 | 5.0708  | -.03791 | -.00251 | .01063  | -.00198 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         | 5.0000  |         |         |         |         |
| Range  |         |         | 10.000  |         |         |         |         |

1551

| Elem  | MO2020  | SN1899  | AS1936  |
|-------|---------|---------|---------|
| Units | ppm     | ppm     | ppm     |
| Avge  | -.00146 | -.00821 | -.01335 |
| SDev  | .00126  | .00665  | .00537  |
| %RSD  | -86.145 | -81.026 | -40.230 |

|    |         |         |         |
|----|---------|---------|---------|
| #1 | -.00074 | -.01365 | -.00971 |
| #2 | -.00292 | -.00079 | -.01083 |
| #3 | -.00074 | -.01018 | -.01952 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | --       | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | --       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Mon 02-22-93 11:45:05 AM

page 1

Method: JEACT2 Sample Name: CCV1

Time: 02/22/93 11:39:37

Comment: 7108

Mode: CONC Corr. Factor: 1

Operator: DMA

1552

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CO2288  | CU2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .61511  | 5.2961  | 5.0908  | .12788  | 13.117  | 1.2221  | 1.2708  |
| SDev   | .00516  | .1467   | .0533   | .00118  | .133    | .0096   | .0123   |
| %RSD   | .83949  | 2.7691  | 1.0463  | .92593  | 1.0160  | .78329  | .96520  |
| #1     | .61541  | 5.1875  | 5.1185  | .12857  | 13.184  | 1.2215  | 1.2796  |
| #2     | .60980  | 5.2379  | 5.0294  | .12651  | 12.963  | 1.2128  | 1.2568  |
| #3     | .62011  | 5.4630  | 5.1246  | .12856  | 13.203  | 1.2319  | 1.2761  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .52351  | .62198  | 2.6775  | 12.761  | 13.071  | 1.2584  | 12.922  |
| SDev   | .00123  | .00944  | .0351   | .300    | .098    | .0110   | .109    |
| %RSD   | .23394  | 1.5183  | 1.3123  | 2.3479  | .75318  | .87726  | .84090  |
| #1     | .52421  | .61746  | 2.6522  | 12.458  | 13.128  | 1.2626  | 13.001  |
| #2     | .52209  | .61564  | 2.7176  | 12.766  | 12.958  | 1.2459  | 12.798  |
| #3     | .52421  | .63283  | 2.6626  | 13.058  | 13.128  | 1.2667  | 12.966  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.2794  | 2.5121  | .00344  | 2.5349  | 1.2950  | 1.2758  | .00004  |
| SDev   | .0146   | .0122   | .02266  | .0459   | .0145   | .0096   | .00001  |
| %RSD   | 1.1373  | .48444  | .658.83 | 1.8092  | 1.1182  | .75585  | 17.122  |
| #1     | 1.2820  | 2.5185  | .01964  | 2.5775  | 1.3034  | 1.2797  | .00003  |
| #2     | 1.2638  | 2.4980  | -.02566 | 2.5409  | 1.2783  | 1.2648  | .00005  |
| #3     | 1.2926  | 2.5197  | -.00430 | 2.4864  | 1.3034  | 1.2828  | .00003  |
| Errors | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value  | 1.2500  | 2.5000  |         | 2.5000  | 1.2500  | 1.2500  |         |
| Range  | 10.000  | 10.000  |         | 10.000  | 10.000  | 10.000  |         |

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avge   | -.00287 | .00175  | 2.5546  |
| SDev   | .00128  | .01828  | .0275   |
| %RSD   | -44.403 | 1042.3  | 1.0755  |
| #1     | -.00361 | -.00082 | 2.5364  |
| #2     | -.00140 | -.01511 | 2.5412  |
| #3     | -.00361 | .02119  | 2.5862  |
| Errors | NOCHECK | NOCHECK | QC Pass |
| Value  |         |         | 2.5000  |
| Range  |         |         | 10.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

1554

[illegible]

---

|       |          |         |          |
|-------|----------|---------|----------|
| Elem  | MD2020   | SN1899  | AS1936   |
| Units | ppm      | ppm     | ppm      |
| Avge  | 0.00000  | 0.00054 | 0-.01929 |
| SDev  | .0025    | .00414  | .01904   |
| %RSD  | -103010. | 768.64  | -98.690  |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | Q-.00292 | Q-.00236 | Q-.04127 |
| #2 | Q.00145  | Q.00524  | Q-.00777 |
| #3 | Q.00146  | Q-.00107 | Q-.00884 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

1555

## Analysis Report

Mon 02-22-93 12:03:16 PM

page 1

Shot: IFAC12 Sample Name: 1.0001.000FRW2

Operator: DMA

Time: 02/22/93 11:57:49

Comment: 7108

Mode: GONG Corr. Factor: 1

1556

[illegible][illegible][illegible]

1557

---

|        |          |          |          |
|--------|----------|----------|----------|
| Elem   | MD2020   | SN1899   | AS1936   |
| Units  | ppm      | ppm      | ppm      |
| Avge   | 1-.00219 | .00262   | .00038   |
| SDev   | .00253   | .00898   | .01398   |
| %RSD   | -115.27  | 342.79   | 3700.4   |
| <br>   |          |          |          |
| #1     | 1-.00511 | 1-.00739 | 1-.00189 |
| #2     | 1-.00074 | .00525   | 1-.01233 |
| #3     | 1-.00073 | .00999   | .01535   |
| <br>   |          |          |          |
| Errors | LC Low   | LC Pass  | LC Pass. |
| High   | 100.00   | 100.00   | 100.00   |
| Low    | .00000   | .00000   | .00000   |

---

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | --       | --      | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| <br>   |          |         |         |         |         |         |         |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

## Analysis Report

Mon 02-22-73 12:09:20 PM

page 1

Method: IFACT2

Sample Name: 1-0001-000706004

Operator: DMA

1558

Time: 02/22/93 12:03:51

Comment: 7108

Mode: CONC      Corr. Factor: 1

(FIELD BLANK)

[illegible][illegible][illegible]

1559

---

|       |          |          |          |
|-------|----------|----------|----------|
| Elem  | MD2020   | SN1899   | AS1936   |
| Units | ppm      | ppm      | ppm      |
| Avge  | L-.00291 | L-.00737 | L-.00510 |
| SDev  | .00219   | .00473   | .00983   |
| %RSD  | -75.024  | -64.176  | -192.71  |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | L-.00291 | L-.00734 | L-.01471 |
| #2 | L-.00073 | L-.01212 | L-.00554 |
| #3 | L-.00510 | L-.00266 | .00494   |

|        |        |        |        |
|--------|--------|--------|--------|
| Errors | LC Low | LC Low | LC Low |
| High   | 100.00 | 100.00 | 100.00 |
| Low    | .00000 | .00000 | .00000 |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |



1561

|        |           |           |         |
|--------|-----------|-----------|---------|
| Elem   | M02020    | SN1899    | AS1936  |
| Units  | ppm       | ppm       | ppm     |
| Avge   | .00039    | 1--.00536 | 1.0022  |
| SDev   | .00217    | .00717    | .0134   |
| %RSD   | 560.80    | -133.71   | 1.3349  |
| #1     | .00256    | .00092    | .99349  |
| #2     | 1--.00179 | 1--.00383 | .99554  |
| #3     | .00039    | 1--.01318 | 1.0176  |
| Errors | LC Pass   | LC Low    | LC Pass |
| High   | 100.00    | 100.00    | 100.00  |
| Low    | .00000    | .00000    | .00000  |

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Mon 02-22-93 12:57:42 PM

Page 1  
1562

Method: JEAC12

Sample Name: CDV24

Time: 02/22/93 12:52:13

Operator: DMA

Comment: 7108

Mode: CONC Corr. Factor: 1

*done  
2/22*

| Elem   | AB3280  | AL3082  | BA4934  | BE2348  | CA3179  | CO2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00092 | .01358  | .00051  | -.00010 | .02189  | .00065  | .00085  |
| SDev   | .00161  | .00143  | .00154  | .00022  | .00386  | .00001  | .00110  |
| %RSD   | -175.19 | 10.346  | 298.90  | -231.71 | 17.633  | 2.1922  | 129.55  |
| #1     | -.00095 | .01506  | .00205  | -.00035 | .01900  | .00066  | -.00042 |
| #2     | -.00251 | .01349  | -.00102 | .00005  | .02041  | .00064  | .00149  |
| #3     | .00071  | .01220  | .00051  | .00001  | .02628  | .00066  | .00148  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00309  | .00965  | -.05799 | -.08557 | .01859  | .00223  | .01646  |
| SDev   | .00042  | .00156  | .03583  | .07844  | .00605  | .00048  | .01091  |
| %RSD   | 13.433  | 16.212  | -61.783 | -91.666 | 32.551  | 21.649  | 66.284  |
| #1     | .00285  | .00784  | -.07871 | -.06845 | .02216  | .00251  | .00416  |
| #2     | .00284  | .01056  | -.07864 | -.17116 | .02200  | .00167  | .02496  |
| #3     | .00357  | .01055  | -.01662 | -.01711 | .01160  | .00250  | .02028  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | NI2316  | PB2203  | *SB2068 | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | -.00307 | -.01134 | 4.9915  | -.05531 | .00893  | .00106  | -.00025 |
| SDev   | .00848  | .01315  | .0392   | .02111  | .00920  | .00030  | .00043  |
| %RSD   | -276.71 | -115.93 | .78564  | -38.026 | 103.10  | 28.738  | -171.93 |
| #1     | .00241  | .00205  | 4.9718  | -.05455 | .01505  | .00089  | -.00050 |
| #2     | .00123  | -.01183 | 5.0367  | -.07708 | .01338  | .00087  | -.00050 |
| #3     | -.01284 | -.02423 | 4.9660  | -.03490 | -.00166 | .00141  | .00024  |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         | 5.0000  |         |         |         |         |
| Range  |         |         | 10.000  |         |         |         |         |

| Elem  | M02020   | SN1899   | AS1936   |
|-------|----------|----------|----------|
| Units | ppm      | ppm      | ppm      |
| Avg   | -0.00001 | -0.00726 | -0.02002 |
| SDev  | .00334   | .00940   | .00128   |
| %RSD  | -28154.  | -115.80  | -6.4162  |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | .00363   | -0.01677 | -0.02089 |
| #2 | -0.00293 | -0.00083 | -0.01855 |
| #3 | -0.00073 | -0.00418 | -0.02064 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| WavLen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Mon 02-22-93 01:03:45 PM

1564  
Page 1

Method: JEACT2 Sample Name: CDV2  
 Time: 02/22/93 12:58:16  
 Comment: 7108  
 Mode: CONC Corr. Factor: 1

Operator: DMA

| Elem   | A63280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .61002  | 5.1371  | 5.1164  | .12817  | 13.185  | 1.2327  | 1.2780  |
| SDev   | .00982  | .0610   | .0512   | .00176  | .155    | .0153   | .0182   |
| %RSD   | 1.6089  | 1.1873  | .99975  | 1.3750  | 1.1773  | 1.2409  | 1.4223  |
| #1     | .59879  | 5.0686  | 5.0617  | .12615  | 13.011  | 1.2156  | 1.2587  |
| #2     | .61693  | 5.1854  | 5.1630  | .12939  | 13.310  | 1.2451  | 1.2948  |
| #3     | .61434  | 5.1574  | 5.1246  | .12898  | 13.235  | 1.2374  | 1.2805  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .52184  | .61354  | 2.6427  | 12.721  | 13.113  | 1.2642  | 12.923  |
| SDev   | .00862  | .00685  | .0134   | .306    | .164    | .0147   | .098    |
| %RSD   | 1.6519  | 1.1167  | .50585  | 2.4085  | 1.2518  | 1.1259  | .76083  |
| #1     | .51210  | .60570  | 2.6565  | 12.647  | 12.930  | 1.2484  | 12.812  |
| #2     | .52849  | .61837  | 2.6299  | 12.459  | 13.247  | 1.2759  | 13.000  |
| #3     | .52493  | .61656  | 2.6416  | 13.058  | 13.163  | 1.2684  | 12.956  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | NI2316  | PB2203  | SE2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.3025  | 2.5242  | .00459  | 2.5057  | 1.3012  | 1.2883  | -.00070 |
| SDev   | .0132   | .0296   | .00434  | .0511   | .0141   | .0140   | .00074  |
| %RSD   | 1.0160  | 1.1708  | 94.532  | 2.0373  | 1.0858  | 1.0892  | -104.63 |
| #1     | 1.2873  | 2.4951  | .00459  | 2.4514  | 1.2850  | 1.2728  | -.00069 |
| #2     | 1.3096  | 2.5542  | .00904  | 2.5128  | 1.3109  | 1.3001  | .00003  |
| #3     | 1.3107  | 2.5231  | .00036  | 2.5529  | 1.3076  | 1.2921  | -.00145 |
| Errors | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value  | 1.2500  | 2.5000  |         | 2.5000  | 1.2500  | 1.2500  |         |
| Range  | 10.000  | 10.000  |         | 10.000  | 10.000  | 10.000  |         |

---

|       |        |         |        |
|-------|--------|---------|--------|
| Elem  | MD2020 | SN1899  | AS1936 |
| Units | ppm    | ppm     | ppm    |
| Avg   | .00077 | -.00611 | 2.5587 |
| SDev  | .00001 | .00776  | .0409  |
| %RSD  | 1.4810 | -127.16 | 1.5997 |

|    |        |         |        |
|----|--------|---------|--------|
| #1 | .00078 | -.00085 | 2.5140 |
| #2 | .00076 | -.01502 | 2.5676 |
| #3 | .00076 | -.00244 | 2.5944 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | QC Pass |
| Value  |         |         | 2.5000  |
| Range  |         |         | 10.000  |

---

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| WavLen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| ---    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

QC Standard

Mon 02-22-93 01:09:55 PM

1566

Method: IEACT2      Sample Name: DGB2  
Time: 02/22/93 13:04:21  
Comment: 710B  
Mode: CONC      Corr. Factor: 1

Operator: DMA

[illegible][illegible][illegible]

1567

| Elem  | MD2020   | SN1899   | AS1936   |
|-------|----------|----------|----------|
| Units | ppm      | ppm      | ppm      |
| Avg   | Q-.00073 | Q-.01371 | Q-.01354 |
| SDev  | .00579   | .00477   | .00931   |
| %RSD  | -791.74  | -34.834  | -68.785  |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | Q.00364  | Q-.01370 | Q-.02286 |
| #2 | Q-.00730 | Q-.01849 | Q-.00423 |
| #3 | Q.00146  | Q-.00894 | Q-.01352 |

| Errors | QC Fail | QC Fail | QC Fail |
|--------|---------|---------|---------|
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

| IntStd | 1         | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|-----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time      | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| WavLen | ---       | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .00000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000      | ---     | ---     | ---     | ---     | ---     | ---     |

QC Standard

Mon 02-22-93 01:16:00 PM

1568

Method: IEACT2 Sample Name: CRIF

Operator: DMA

Time: 02/22/93 13:10:31

Comment: 7108

Mode: CONC      Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .02105  | .41108  | .39758  | .00992  | .02747  | .01149  | .10120  |
| SDev   | .00090  | .00548  | .00386  | .00001  | .00554  | .00036  | .00256  |
| %RSD   | 4.2594  | 1.3333  | .97166  | .07661  | 20.177  | 3.1355  | 2.5309  |
| #1     | .02208  | .41712  | .40117  | .00993  | .03137  | .01126  | .10395  |
| #2     | .02053  | .40970  | .39810  | .00992  | .02113  | .01131  | .09888  |
| #3     | .02053  | .40643  | .39349  | .00992  | .02993  | .01191  | .10078  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass |
| Value  | .02000  | .40000  | .40000  | .01000  |         | .01000  | .10000  |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  |         | 20.000  | 20.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MB2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .02349  | .04673  | .20461  | .26251  | .02132  | .03143  | .03035  |
| Dev    | .00143  | .00000  | .01197  | .32897  | .01567  | .00096  | .01027  |
| SD     | 6.0697  | .00241  | 5.8501  | 125.32  | 73.488  | 3.0672  | 33.818  |
| #1     | R.02492 | .04673  | .19079  | .61627  | .00512  | .03254  | .02505  |
| #2     | .02349  | .04673  | .21161  | -.03421 | .02243  | .03087  | .02383  |
| #3     | .02207  | .04673  | .21144  | .20546  | .03640  | .03088  | .04219  |
| Errors | QC Pass | QC Pass | QC Pass | NOCHECK | NOCHECK | QC Pass | NOCHECK |
| Value  | .02000  | .05000  | .20000  |         |         | .03000  |         |
| Range  | 20.000  | 20.000  | 20.000  |         |         | 20.000  |         |

[illegible]

| Elem   | MD2020  | SN1899  | AS1936  |
|--------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     |
| Avg    | 0.00505 | 0.01239 | 0.02226 |
| SDev   | .00126  | .00189  | .02622  |
| %RSD   | 25.004  | 15.222  | 117.81  |
| #1     | 0.00578 | 0.01346 | 0.00945 |
| #2     | 0.00359 | 0.01350 | .05243  |
| #3     | 0.00578 | 0.01021 | 0.00490 |
| Errors | QC Fail | QC Fail | QC Fail |
| Value  | .02800  | .03800  | .04800  |
| Range  | 20.000  | 20.000  | 20.000  |

| IntStd     | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|------------|----------|---------|---------|---------|---------|---------|---------|
| Mode       | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem       | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavelength | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD       | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| #1         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3         | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Mon 02-22-93 01:22:06 PM

15201

Method: IFACT2 Sample Name: JCSAF

Time: 02/22/93 13:16:36

Operator: DMA

Comment: 7108

Mode: DDNC Corr. Factors: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00017 | 497.73  | -.00422 | .01003  | 485.89  | .00119  | .00008  |
| SDev   | .00080  | .32     | .00001  | .00071  | 1.00    | .00086  | .00188  |
| %RSD   | -480.38 | .06487  | -.26846 | 7.1073  | .20649  | 72.186  | 2393.7  |
| #1     | -.00087 | 498.05  | -.00423 | .01076  | 486.77  | .00106  | .00196  |
| #2     | .00070  | 497.40  | -.00421 | .01000  | 484.80  | .00040  | -.00180 |
| #3     | -.00034 | 497.74  | -.00422 | .00933  | 486.10  | .00210  | .00008  |
| Errors | NOCHECK | QC Pass | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         | 500.00  |         |         | 500.00  |         |         |
| Range  |         | 20.000  |         |         | 20.000  |         |         |

\*E=0.000052847

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00191 | -.01120 | 189.79  | -.13347 | 509.30  | -.00151 | -.01368 |
| SDev   | .00164  | .00237  | .34     | .12392  | .49     | .00128  | .01292  |
| %RSD   | -85.953 | -21.163 | .18031  | -92.849 | .09524  | -84.747 | -94.473 |
| #1     | -.00096 | -.00942 | 190.11  | -.27626 | 509.16  | -.00011 | -.02524 |
| #2     | -.00381 | -.01389 | 189.43  | -.05379 | 508.89  | -.00262 | .00027  |
| #3     | -.00097 | -.01030 | 189.83  | -.07016 | 509.83  | -.00179 | -.01605 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | QC Pass | NOCHECK | NOCHECK |
| Value  |         |         | 200.00  |         | 500.00  |         |         |
| Range  |         |         | 20.000  |         | 20.000  |         |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avge   | -.00554 | .01357  | .02885  | -.02367 | -.00112 | -.00132 | -.01239 |
| SDev   | .00883  | .00607  | .06323  | .05964  | .00048  | .00211  | .00115  |
| %RSD   | -159.26 | 44.683  | 219.21  | -251.95 | -42.827 | -159.72 | -9.2435 |
| #1     | .00287  | .01431  | .04516  | -.07285 | -.00084 | .00069  | -.01115 |
| #2     | -.01473 | .00717  | -.04075 | .04267  | -.00085 | -.00353 | -.01261 |
| #3     | -.00477 | .01923  | .08232  | -.04084 | -.00167 | -.00113 | -.01341 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

---

|       |         |         |        |
|-------|---------|---------|--------|
| Elem  | MD2020  | SN1899  | AS1936 |
| Units | ppm     | ppm     | ppm    |
| Avg   | -.00593 | -.01962 | .19585 |
| SDev  | .00336  | .01094  | .03469 |
| %RSD  | -56.630 | -55.733 | 27.924 |

|    |         |         |        |
|----|---------|---------|--------|
| #1 | -.00226 | -.01113 | .25844 |
| #2 | -.00669 | -.03197 | .15729 |
| #3 | -.00884 | -.01577 | .17182 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Method: TEACT2 Sample Name: ICSABF

Operator: DMA

Time: 02/22/93 13:22:41

Comment: 7108

Mode: CONC Corr. Factor: 1

| Elem   | Ag3280  | Al3082  | BA4934  | BE2348  | CA3179  | CO2288  | CO2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .94473  | 489.87  | .48195  | .50629  | 477.97  | .92584  | .44746  |
| SDev   | .00406  | .46     | .00176  | .00096  | .76     | .00407  | .00250  |
| %RSD   | .42969  | .09466  | .36567  | .19001  | .15937  | .43999  | .55938  |
| #1     | .94595  | 490.17  | .48398  | .50740  | 478.81  | .92974  | .45030  |
| #2     | .94804  | 490.10  | .48093  | .50567  | 477.34  | .92161  | .44556  |
| #3     | .94020  | 489.34  | .48093  | .50581  | 477.74  | .92617  | .44652  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | 1.0000  | 500.00  | .5      | .5      | 500.00  | 1.0000  | .5      |
| Range  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  | 20.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .45188  | .44759  | 186.23  | .13753  | 300.72  | .46057  | .05471  |
| SDev   | .00042  | .00002  | .32     | .09865  | .43     | .00127  | .00590  |
| %RSD   | .09283  | .00420  | .17296  | 71.730  | .08672  | .27540  | 10.778  |
| #1     | .45164  | .44757  | 186.59  | .19488  | 501.01  | .46168  | .04921  |
| #2     | .45165  | .44759  | 186.16  | .19409  | 500.22  | .45918  | .05399  |
| #3     | .45237  | .44760  | 185.96  | .02362  | 500.94  | .46084  | .06094  |
| Errors | QC Pass | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | .5      | .5      | 200.00  |         | 500.00  | .5      |         |
| Range  | 20.000  | 20.000  | 20.000  |         | 20.000  | 20.000  |         |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .89540  | .93948  | -.00360 | -.02169 | .48098  | .93017  | -.01104 |
| SDev   | .00178  | .00983  | .03299  | .06451  | .00048  | .00185  | .00044  |
| %RSD   | .19865  | 1.0465  | -917.17 | -297.38 | .10014  | .19830  | -3.9729 |
| #1     | .89385  | .92836  | -.02192 | .01592  | .48154  | .93200  | -.01081 |
| #2     | .89502  | .94701  | -.02336 | -.09618 | .48070  | .93019  | -.01076 |
| #3     | .89734  | .94306  | .03449  | .01518  | .48071  | .92831  | -.01154 |
| Errors | QC Pass | QC Pass | NOCHECK | NOCHECK | QC Pass | QC Pass | NOCHECK |
| Value  | 1.0000  | 1.0000  |         |         | .5      | 1.0000  |         |
| Range  | 20.000  | 20.000  |         |         | 20.000  | 20.000  |         |

---

|        |         |         |         |
|--------|---------|---------|---------|
| Elem   | MD2020  | SN1899  | AS1936  |
| Units  | ppm     | ppm     | ppm     |
| Avg    | -.01238 | -.01331 | .16834  |
| SDev   | .00454  | .01073  | .03916  |
| %RSD   | -36.651 | -80.669 | 23.261  |
| <br>   |         |         |         |
| #1     | -.01381 | -.00123 | .15214  |
| #2     | -.01603 | -.02177 | .21300  |
| #3     | -.00730 | -.01691 | .13788  |
| <br>   |         |         |         |
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avg    | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| <br>   |          |         |         |         |         |         |         |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

---

## Analysis Report

QC Standard

Mon 02-22-93 01:34:16 PM

1574  
page 1

Method: JEACT2

Sample Name: CCV34

Operator: DMA

Time: 02/22/93 13:28:46

Comment: Z10R

Mode: CONC Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00036  | .08067  | .00102  | .00001  | .09403  | .00089  | .00212  |
| SDev   | .00029  | .01934  | .00089  | .00002  | .00805  | .00082  | .00000  |
| %RSD   | 81.391  | 23.978  | 86.593  | 306.72  | 8.5582  | 92.761  | .10857  |
| #1     | .00019  | .09762  | .00051  | .00002  | .09938  | .00159  | .00212  |
| #2     | .00018  | .05960  | .00205  | .00001  | .08478  | .00109  | .00211  |
| #3     | .00069  | .08479  | .00051  | -.00002 | .09794  | -.00002 | .00212  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00309  | .01748  | -.01000 | -.09120 | .09854  | .00195  | .02004  |
| SDev   | .00249  | .00104  | .03027  | .17569  | .00708  | .00048  | .01234  |
| %SD    | 80.685  | 5.9622  | -302.85 | -192.64 | 7.1855  | 24.818  | 61.560  |
| #1     | .00072  | .01868  | -.03638 | -.23956 | .09870  | .00167  | .03421  |
| #2     | .00569  | .01688  | -.01665 | .10280  | .09138  | .00167  | .01173  |
| #3     | .00286  | .01688  | .02305  | -.13684 | .10554  | .00250  | .01417  |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |         |         |         |         |
| Range  |         |         |         |         |         |         |         |

| Elem   | NI2316  | PB2203  | *SB2068 | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .00239  | -.00931 | 5.0471  | -.01087 | -.00166 | .00441  | -.00124 |
| SDev   | .00442  | .00895  | .0448   | .00511  | .00251  | .00105  | .00074  |
| %RSD   | 184.66  | -96.102 | .88738  | -46.958 | -151.42 | 23.809  | -59.636 |
| #1     | .00298  | -.00417 | 5.0554  | -.00877 | -.00417 | .00562  | -.00198 |
| #2     | .00649  | -.00413 | 5.0872  | -.00715 | -.00165 | .00377  | -.00124 |
| #3     | -.00229 | -.01965 | 4.9988  | -.01669 | .00085  | .00383  | -.00050 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         | 5.0000  |         |         |         |         |
| Range  |         |         | 10.000  |         |         |         |         |

---

|       |         |         |         |
|-------|---------|---------|---------|
| Elem  | MD2020  | SN1899  | AS1936  |
| Units | ppm     | ppm     | ppm     |
| Avge  | -.00073 | -.01339 | -.00474 |
| SDev  | .00789  | .00561  | .00929  |
| %RSD  | -1082.6 | -41.885 | -196.14 |

|    |         |         |         |
|----|---------|---------|---------|
| #1 | .00583  | -.00864 | .00451  |
| #2 | -.00948 | -.01958 | -.00465 |
| #3 | .00146  | -.01195 | -.01407 |

|        |         |         |         |
|--------|---------|---------|---------|
| Errors | NOCHECK | NOCHECK | NOCHECK |
| Value  |         |         |         |
| Range  |         |         |         |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

## Analysis Report

QC Standard

Mon 02-22-93 01:40:19 PM

1576

Method: JEAST2 Sample Name: CCV3

Operator: DMA

Time: 02/22/93 13:34:50

Comment: 2108

Mode: CONC Corr. Factor: 1

| Elem   | AG3280  | AL3082  | BA4934  | BE2348  | CA3179  | CD2288  | CD2286  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .61487  | 5.1900  | 5.1323  | .12853  | 13.258  | 1.2346  | 1.2791  |
| SDev   | .00561  | .0608   | .0528   | .00161  | .163    | .0111   | .0141   |
| %RSD   | .91298  | 1.1707  | 1.0288  | 1.2486  | 1.2313  | .90062  | 1.1038  |
| #1     | .60865  | 5.1269  | 5.0847  | .12698  | 13.099  | 1.2218  | 1.2666  |
| #2     | .61955  | 5.2481  | 5.1891  | .13019  | 13.425  | 1.2423  | 1.2944  |
| #3     | .61642  | 5.1950  | 5.1231  | .12849  | 13.248  | 1.2397  | 1.2764  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .625    | 5.0000  | 5.0000  | .125    | 12.500  | 1.2500  | 1.2500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | CR2677  | CU3247  | FE2714  | K 7664  | MG2790  | MN2576  | NA5895  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | .52279  | .61806  | 2.6719  | 12.852  | 13.181  | 1.2645  | 12.986  |
| SDev   | .00570  | .00679  | .0870   | .205    | .164    | .0164   | .156    |
| %RSD   | 1.0906  | 1.0982  | 3.2543  | 1.5978  | 1.2419  | 1.2938  | 1.2045  |
| #1     | .51709  | .61113  | 2.6140  | 12.852  | 13.014  | 1.2492  | 12.838  |
| #2     | .52849  | .62470  | 2.6299  | 12.647  | 13.341  | 1.2818  | 13.150  |
| #3     | .52279  | .61836  | 2.7719  | 13.058  | 13.187  | 1.2626  | 12.970  |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value  | .5      | .625    | 2.5000  | 12.500  | 12.500  | 1.2500  | 12.500  |
| Range  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  | 10.000  |

| Elem   | NI2316  | PB2203  | SB2068  | SE1960  | V 2924  | ZN2138  | TI3349  |
|--------|---------|---------|---------|---------|---------|---------|---------|
| Units  | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     | ppm     |
| Avg    | 1.2949  | 2.5184  | .00525  | 2.5339  | 1.3062  | 1.2886  | -.00071 |
| SDev   | .0160   | .0457   | .01083  | .0481   | .0068   | .0152   | .00001  |
| %RSD   | 1.2341  | 1.8166  | 206.18  | 1.8983  | .52281  | 1.1763  | -1.6349 |
| #1     | 1.2802  | 2.4720  | .00419  | 2.5397  | 1.2984  | 1.2729  | -.00070 |
| #2     | 1.3119  | 2.5634  | .01657  | 2.5788  | 1.3109  | 1.3032  | -.00072 |
| #3     | 1.2926  | 2.5199  | -.00500 | 2.4832  | 1.3092  | 1.2897  | -.00071 |
| Errors | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value  | 1.2500  | 2.5000  |         | 2.5000  | 1.2500  | 1.2500  |         |
| Range  | 10.000  | 10.000  |         | 10.000  | 10.000  | 10.000  |         |

---

|        |         |         |          |
|--------|---------|---------|----------|
| Elem   | MD2020  | SN1899  | AS1936   |
| Units  | ppm     | ppm     | ppm      |
| Avge   | .00004  | -.01293 | 2.5866   |
| SDev   | .00126  | .00634  | .0536    |
| %RSD   | 3483.8  | -49.065 | 2.0725   |
|        |         |         |          |
| #1     | .00077  | -.00717 | 2.5565   |
| #2     | .00076  | -.01973 | 2.6485   |
| #3     | -.00142 | -.01189 | 2.5548   |
|        |         |         |          |
| Errors | NOCHECK | NOCHECK | QC Pass. |
| Value  |         |         | 2.5000   |
| Range  |         |         | 10.000   |

---

|        |          |         |         |         |         |         |         |
|--------|----------|---------|---------|---------|---------|---------|---------|
| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        |          |         |         |         |         |         |         |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

Operator : DMA

[illegible]

| Elem  | MD2020   | SN1899   | AS1936  |
|-------|----------|----------|---------|
| Units | ppm      | ppm      | ppm     |
| Avge  | Q-.00292 | Q-.00742 | Q.00406 |
| SDev  | .00000   | .00628   | .01793  |
| %RSD  | -.08028  | -84.550  | 441.63  |

|    |          |          |          |
|----|----------|----------|----------|
| #1 | Q-.00291 | Q-.00744 | Q-.01476 |
| #2 | Q-.00292 | Q-.01369 | Q.02096  |
| #3 | Q-.00291 | Q-.00114 | Q.00598  |

| Errors | QC Fail | QC Fail | QC Fail |
|--------|---------|---------|---------|
| Value  | .00000  | .00000  | .00000  |
| Range  | 10.000  | 10.000  | 10.000  |

| IntStd | 1        | 2       | 3       | 4       | 5       | 6       | 7       |
|--------|----------|---------|---------|---------|---------|---------|---------|
| Mode   | Time     | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem   | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Wavlen | ---      | ---     | ---     | ---     | ---     | ---     | ---     |
| Avge   | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| SDev   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
| %RSD   | .0000000 | ---     | ---     | ---     | ---     | ---     | ---     |
|        | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #2     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |
| #3     | 6000     | ---     | ---     | ---     | ---     | ---     | ---     |

etc. Prepared date: 2/1/93/0830

IEA Laboratories

Date: 2/1/93

Part Run Time: 1100

200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 452-8200

page 1 of 1

FURNACE DATA SHEET

1580

Element: As

I.D. Wt. File: As020193 Instrument 5100

Analyst J. J. Noe

| Sample ID | % Sol.             | Wt. V/Vol | Factor   | Recovery | % Recovery | Flags | Value ug/L     |
|-----------|--------------------|-----------|----------|----------|------------|-------|----------------|
| 5         | ICV                |           |          | 53.0     | 106.0      |       | 53.0           |
| 1         | ICB                |           |          | -1.0     |            |       | -1.00 B        |
| 2         | ICRA               |           |          | 9.8      | 98.0       |       | 9.8            |
| 37        | ICCV(50)           |           |          | 54.1     | 108.2      |       | 54.1           |
| 38        | ICCB               |           |          | -1.3     |            |       | -1.30 B        |
| 11        | ICCB47             | 100.0     | 100/100  | -1.3     |            |       | -1.30 B        |
| 12        | ICCB47A            | 100.0     | 100/100  | 17.3     | 87.5       |       |                |
| 12        | ICBWA 0056,57,60   | 100.0     | 100/100  | -1.2     |            |       | -1.2 B         |
| 12        | ICBWA              | 100.0     | 100/100  | 17.3     | 84.5       |       |                |
| 13        | ICBSW 0056,57,60   | 100.0     | 100/100  | 50.9     | 101.8      |       | 50.9           |
| 13        | ICBSWA             | 100.0     | 100/100  | 63.0     | 60.5       |       |                |
| 14        | ICCB01             | 100.0     | 100/100  | 1.1      |            |       | 1.0            |
| 4         | ICCB01A            | 100.0     | 100/100  | 17.2     | 55.0       |       |                |
| 15        | ICBS 0045,60,64,70 | 100.0     | 1.00/200 | -1.4     |            |       | -0.22 B Re-run |
| 15        | ICBSA              | 100.0     | 1.00/200 | 15.4     | 77.0       | W     |                |
| 37        | ICCV(50)           |           |          | 52.9     | 105.8      |       | 52.9           |
| 38        | ICCB               |           |          | -1.0     |            |       | -1.00 B        |
| 17        | ICBS 0045,60,64,70 | 100.0     | 1.00/200 | 42.5     | 92.7       |       | 850.0          |
| 17        | ICBSA              | 100.0     | 1.00/200 | 60.8     | 91.5       |       |                |
| 18        | ICB4506            | 100.0     | 1.35/200 | 0.7      |            |       | 0.15 B         |
| 18        | ICB4506A           | 100.0     | 1.35/200 | 16.4     | 82.0       | W     |                |
| 19        | ICB4507            | 100.0     | 1.03/200 | 1.6      |            |       | 0.31 B         |
| 19        | ICB4507A           | 100.0     | 1.03/200 | 19.1     | 87.5       |       |                |
| 20        | ICB4508            | 100.0     | 1.01/200 | -1.0     |            |       | 0.20 B         |
| 20        | ICB4508A           | 100.0     | 1.01/200 | 13.7     | 68.6       | W     |                |
| 37        | ICCV(50)           |           |          | 54.7     | 109.4      |       | 54.7           |
| 38        | ICCB               |           |          | -1.5     |            |       | -1.50 B        |

=====

|                           |                          |
|---------------------------|--------------------------|
| Multi. File: ASSETLPB.HMU | Analyst: SM              |
| Date: 02/01/93            | Time: 10:57              |
| Data File: AS020193.DAT   | ID/Wt File: AS020193.IDW |

=====

-----

|                            |                          |                      |
|----------------------------|--------------------------|----------------------|
| Element File: ASAUTSPK.GEL | Element: As              | Wavelength: 193.7    |
| Date: 02/01/93             | Time: 11:00              | Slit: 0.70           |
| Data File: AS020193.DAT    | ID/Wt File: AS020193.IDW | Lamp Current: 15.810 |
| Technique: HGA             | Calib. Type: Linear      | Energy: 58           |

-----

~~~~~

|    |                  |                 |             |                |
|----|------------------|-----------------|-------------|----------------|
| As | ID: Calib. Blank | Seq. No.: 00001 | A/S Pos.: 1 | Date: 02/01/93 |
|----|------------------|-----------------|-------------|----------------|

|                                      |           |                                 |
|--------------------------------------|-----------|---------------------------------|
| Replicate 1                          | <i>S0</i> | Time: 11:00                     |
| Peak Area (A-s): 0.000               |           | Peak Height (A): 0.009          |
| Background Pk Area (A-s): 0.091      |           | Background Pk Height (A): 0.033 |
| Blank Corrected Pk Area (A-s): 0.000 |           |                                 |

|                                       |  |                                 |
|---------------------------------------|--|---------------------------------|
| Replicate 2                           |  | Time: 11:03                     |
| Peak Area (A-s): -0.003               |  | Peak Height (A): 0.005          |
| Background Pk Area (A-s): 0.091       |  | Background Pk Height (A): 0.034 |
| Blank Corrected Pk Area (A-s): -0.003 |  |                                 |

|                     |        |            |                |
|---------------------|--------|------------|----------------|
| Mean Pk Area (A-s): | -0.002 | SD: 0.0026 | RSD(%): 174.70 |
|---------------------|--------|------------|----------------|

Auto-zero performed.

~~~~~

|    |                |                 |             |                |
|----|----------------|-----------------|-------------|----------------|
| As | ID: Standard 1 | Seq. No.: 00002 | A/S Pos.: 2 | Date: 02/01/93 |
|----|----------------|-----------------|-------------|----------------|

|                                      |            |                                 |
|--------------------------------------|------------|---------------------------------|
| Replicate 1                          | <i>S10</i> | Time: 11:06                     |
| Peak Area (A-s): 0.071               |            | Peak Height (A): 0.094          |
| Background Pk Area (A-s): 0.095      |            | Background Pk Height (A): 0.037 |
| Blank Corrected Pk Area (A-s): 0.073 |            |                                 |

|                                      |  |                                 |
|--------------------------------------|--|---------------------------------|
| Replicate 2                          |  | Time: 11:09                     |
| Peak Area (A-s): 0.077               |  | Peak Height (A): 0.093          |
| Background Pk Area (A-s): 0.096      |  | Background Pk Height (A): 0.032 |
| Blank Corrected Pk Area (A-s): 0.078 |  |                                 |

|                     |       |            |              |
|---------------------|-------|------------|--------------|
| Mean Pk Area (A-s): | 0.075 | SD: 0.0038 | RSD(%): 5.08 |
|---------------------|-------|------------|--------------|

Standard number 1 applied. [10.0]

|                                  |               |            |
|----------------------------------|---------------|------------|
| Correlation coefficient: 1.00000 | Slope: 0.0075 | Int: 0.000 |
|----------------------------------|---------------|------------|

~~~~~

|    |                |                 |             |                |
|----|----------------|-----------------|-------------|----------------|
| As | ID: Standard 2 | Seq. No.: 00003 | A/S Pos.: 3 | Date: 02/01/93 |
|----|----------------|-----------------|-------------|----------------|

|                                      |            |                                 |
|--------------------------------------|------------|---------------------------------|
| Replicate 1                          | <i>S50</i> | Time: 11:12                     |
| Peak Area (A-s): 0.367               |            | Peak Height (A): 0.427          |
| Background Pk Area (A-s): 0.113      |            | Background Pk Height (A): 0.047 |
| Blank Corrected Pk Area (A-s): 0.369 |            |                                 |

Concentration (ug/L ): 48.9

|                                      |  |                                 |
|--------------------------------------|--|---------------------------------|
| Replicate 2                          |  | Time: 11:14                     |
| Peak Area (A-s): 0.363               |  | Peak Height (A): 0.456          |
| Background Pk Area (A-s): 0.112      |  | Background Pk Height (A): 0.047 |
| Blank Corrected Pk Area (A-s): 0.365 |  |                                 |

Concentration (ug/L ): 48.3

S 50

Mean Conc (ug/L ): 48.6

SD: 0.40

RSD(%): 0.82

Standard number 2 applied. [50.0]

Correlation coefficient: 0.99998

Slope: 0.0073

Int: 0.001582

As ID: Standard 3

Seq. No.: 00004

A/S Pos.: 4

Date: 02/01/93

Replicate 1

S 100

Time: 11:17

Peak Area (A-s): 0.673

Peak Height (A): 0.837

Background Pk Area (A-s): 0.130

Background Pk Height (A): 0.073

Blank Corrected Pk Area (A-s): 0.675

Concentration (ug/L ): 92.0

Replicate 2

Time: 11:20

Peak Area (A-s): 0.673

Peak Height (A): 0.839

Background Pk Area (A-s): 0.135

Background Pk Height (A): 0.074

Blank Corrected Pk Area (A-s): 0.675

Concentration (ug/L ): 92.1

Mean Conc (ug/L ): 92.0

SD: 0.02

RSD(%): 0.03

Standard number 3 applied. [100.0]

Correlation coefficient: 0.99898

Slope: 0.0068

Int: 0.009

As ID: ICV

Seq. No.: 00005

A/S Pos.: 5

Date: 02/01/93

Replicate 1

Time: 11:23

Peak Area (A-s): 0.351

Peak Height (A): 0.424

Background Pk Area (A-s): 0.114

Background Pk Height (A): 0.048

Blank Corrected Pk Area (A-s): 0.352

Concentration (ug/L ): 50.8

Replicate 2

Time: 11:26

Peak Area (A-s): 0.380

Peak Height (A): 0.416

Background Pk Area (A-s): 0.112

Background Pk Height (A): 0.048

Blank Corrected Pk Area (A-s): 0.382

Concentration (ug/L ): 55.2

Mean Conc (ug/L ): 53.0

SD: 3.05

RSD(%): 5.76

QC sample is within range 45.0 - 55.0

As ID: ICB

Seq. No.: 00006

A/S Pos.: 1

Date: 02/01/93

Replicate 1

Time: 11:29

Peak Area (A-s): 0.002

Peak Height (A): 0.008

Background Pk Area (A-s): 0.096

Background Pk Height (A): 0.033

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): -0.8

Replicate 2

Time: 11:32

Peak Area (A-s): 0.000

Peak Height (A): 0.005

Background Pk Area (A-s): 0.094

Background Pk Height (A): 0.032

Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L ): -1.1

ICB

Mean Conc (ug/L ): -1.0

SD: 0.18

RSD(%): 18.11

1583

sample is within range

As ID: CRA

Seq. No.: 00007

A/S Pos.: 2

Date: 02/01/93

Replicate 1

Time: 11:35

Peak Area (A-s): 0.075

Peak Height (A): 0.090

Background Pk Area (A-s): 0.098

Background Pk Height (A): 0.033

Blank Corrected Pk Area (A-s): 0.076

Concentration (ug/L ): 10.0

Replicate 2

Time: 11:37

Peak Area (A-s): 0.073

Peak Height (A): 0.089

Background Pk Area (A-s): 0.098

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.074

Concentration (ug/L ): 9.7

Mean Conc (ug/L ): 9.8

SD: 0.22

RSD(%): 2.21

QC sample is within range

As ID: CCV(50)

Seq. No.: 00008

A/S Pos.: 37

Date: 02/01/93

Replicate 1

Time: 11:40

Peak Area (A-s): 0.371

Peak Height (A): 0.432

Background Pk Area (A-s): 0.118

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.373

Concentration (ug/L ): 53.8

Replicate 2

Time: 11:43

Peak Area (A-s): 0.375

Peak Height (A): 0.440

Background Pk Area (A-s): 0.119

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.376

Concentration (ug/L ): 54.3

Mean Conc (ug/L ): 54.1

SD: 0.35

RSD(%): 0.66

QC sample is within range 45.0 - 55.0

As ID: CCB

Seq. No.: 00009

A/S Pos.: 38

Date: 02/01/93

Replicate 1

Time: 11:46

Peak Area (A-s): -0.001

Peak Height (A): 0.006

Background Pk Area (A-s): 0.096

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -1.2

Replicate 2

Time: 11:49

Peak Area (A-s): -0.002

Peak Height (A): 0.006

Background Pk Area (A-s): 0.097

Background Pk Height (A): 0.034

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -1.4

Mean Conc (ug/L ): -1.3 CCB SD: 0.13

RSD(%): 1584

QC sample is within range

AS ID: F03647

Seq. No.: 00010

A/S Pos.: 11

Date: 02/01/93

Replicate 1

Peak Area (A-s): -0.002

Background Pk Area (A-s): 0.098

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -1.5

Time: 11:52

Peak Height (A): 0.006

Background Pk Height (A): 0.034

Replicate 2

Peak Area (A-s): -0.004

Background Pk Area (A-s): 0.100

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -1.6

Time: 11:55

Peak Height (A): 0.007

Background Pk Height (A): 0.035

Mean Conc (ug/L ): -1.5

SD: 0.14

RSD(%): 8.79

AS ID: F03647A

Seq. No.: 00011

A/S Pos.: 11

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.125

Background Pk Area (A-s): 0.100

Blank Corrected Pk Area (A-s): 0.127

Concentration (ug/L ): 17.4

Time: 11:58

Peak Height (A): 0.161

Background Pk Height (A): 0.033

Replicate 2

Peak Area (A-s): 0.126

Background Pk Area (A-s): 0.102

Blank Corrected Pk Area (A-s): 0.128

Concentration (ug/L ): 17.6

Time: 12:01

Peak Height (A): 0.162

Background Pk Height (A): 0.037

Mean Conc (ug/L ): 17.5

SD: 0.09

RSD(%): 0.54

Recovery is 95.3%

AS ID: PBW

Seq. No.: 00012

A/S Pos.: 12

Date: 02/01/93

Replicate 1

Peak Area (A-s): -0.000

Background Pk Area (A-s): 0.101

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -1.1

Time: 12:04

Peak Height (A): 0.006

Background Pk Height (A): 0.033

Replicate 2

Peak Area (A-s): -0.001

Background Pk Area (A-s): 0.098

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -1.2

Time: 12:07

Peak Height (A): 0.008

Background Pk Height (A): 0.034

Mean Conc (ug/L ): -1.2

SD: 0.05

RSD(%): 4.57

As ID: PBW A Seq. No.: 00013 A/S Pos.: 12 Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.125  
Background Pk Area (A-s): 0.102  
Blank Corrected Pk Area (A-s): 0.127  
Concentration (ug/L ): 17.4

Time: 12:10

Peak Height (A): 0.151  
Background Pk Height (A): 0.033

1585

Replicate 2

Peak Area (A-s): 0.123  
Background Pk Area (A-s): 0.101  
Blank Corrected Pk Area (A-s): 0.125  
Concentration (ug/L ): 17.1

Time: 12:13

Peak Height (A): 0.139  
Background Pk Height (A): 0.034

Mean Conc (ug/L ): 17.3

SD: 0.22

RSD(%): 1.29

Recovery is 92.3%

As ID: LCSW Seq. No.: 00014 A/S Pos.: 13 Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.350  
Background Pk Area (A-s): 0.121  
Blank Corrected Pk Area (A-s): 0.351  
Concentration (ug/L ): 50.7

Time: 12:16

Peak Height (A): 0.322  
Background Pk Height (A): 0.040

Replicate 2

Peak Area (A-s): 0.353  
Background Pk Area (A-s): 0.121  
Blank Corrected Pk Area (A-s): 0.354  
Concentration (ug/L ): 51.1

Time: 12:19

Peak Height (A): 0.336  
Background Pk Height (A): 0.043

Mean Conc (ug/L ): 50.9

SD: 0.30

RSD(%): 0.58

As ID: LCSW A Seq. No.: 00015 A/S Pos.: 13 Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.450  
Background Pk Area (A-s): 0.124  
Blank Corrected Pk Area (A-s): 0.452  
Concentration (ug/L ): 65.5

Time: 12:22

Peak Height (A): 0.465  
Background Pk Height (A): 0.053

Replicate 2

Peak Area (A-s): 0.416  
Background Pk Area (A-s): 0.128  
Blank Corrected Pk Area (A-s): 0.417  
Concentration (ug/L ): 60.4

Time: 12:25

Peak Height (A): 0.481  
Background Pk Height (A): 0.051

Mean Conc (ug/L ): 63.0

SD: 3.57

RSD(%): 5.67

Recovery is 60.4% (outside of specified limits)

As ID: J05601 Seq. No.: 00016 A/S Pos.: 14 Date: 02/01/93

Replicate 1

Time: 12:28

2/22

Peak Area (A-s): 0.001 J05601  
Background Pk Area (A-s): 0.103  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): -0.9

Peak Height (A): 0.008  
Background Pk Height (A): 0.034

1586

Replicate 2  
Peak Area (A-s): -0.001  
Background Pk Area (A-s): 0.103  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -1.3

Time: 12:31  
Peak Height (A): 0.008  
Background Pk Height (A): 0.034

Mean Conc (ug/L ): -1.1

SD: 0.24

RSD(%): 21.26

As ID: J05601A

Seq. No.: 00012

A/S Pos.: 14

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.121  
Background Pk Area (A-s): 0.109  
Blank Corrected Pk Area (A-s): 0.122  
Concentration (ug/L ): 16.7

Time: 12:34  
Peak Height (A): 0.132  
Background Pk Height (A): 0.038

Replicate 2  
Peak Area (A-s): 0.127  
Background Pk Area (A-s): 0.111  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 17.7

Time: 12:37  
Peak Height (A): 0.146  
Background Pk Height (A): 0.037

Mean Conc (ug/L ): 17.2

SD: 0.68

RSD(%): 3.94

covery is 91.7%

As ID: PBS

Seq. No.: 00018

A/S Pos.: 15

Date: 02/01/93

Replicate 1  
Peak Area (A-s): -0.002  
Background Pk Area (A-s): 0.099  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -1.4

Time: 12:40  
Peak Height (A): 0.009  
Background Pk Height (A): 0.035

Replicate 2  
Peak Area (A-s): -0.002  
Background Pk Area (A-s): 0.100  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -1.3

Time: 12:43  
Peak Height (A): 0.008  
Background Pk Height (A): 0.034

Mean Conc (ug/L ): -1.4

SD: 0.04

RSD(%): 3.03

As ID: PBSA

Seq. No.: 00019

A/S Pos.: 15

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.111  
Background Pk Area (A-s): 0.101  
Blank Corrected Pk Area (A-s): 0.112  
Concentration (ug/L ): 15.3

Time: 12:46  
Peak Height (A): 0.120  
Background Pk Height (A): 0.040

Replicate 2

Time: 12:49

Peak Area (A-s): 0.113 **PBSA**  
Background Pk Area (A-s): 0.100  
Blank Corrected Pk Area (A-s): 0.114  
Concentration (ug/L ): 15.6

Peak Height (A): 0.120  
Background Pk Height (A): 0.035 **1587**

Mean Conc (ug/L ): 15.4 SD: 0.22 RSD(%): 1.44

Recovery is 84.1% (outside of specified limits)

~~~~~  
As ID: CCV(50) Seq. No.: 00020 A/S Pos.: 37 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.360 Time: 12:52  
Background Pk Area (A-s): 0.117 Peak Height (A): 0.388  
Blank Corrected Pk Area (A-s): 0.361 Background Pk Height (A): 0.048  
Concentration (ug/L ): 52.1

Replicate 2  
Peak Area (A-s): 0.370 Time: 12:55  
Background Pk Area (A-s): 0.122 Peak Height (A): 0.405  
Blank Corrected Pk Area (A-s): 0.372 Background Pk Height (A): 0.050  
Concentration (ug/L ): 53.7

Mean Conc (ug/L ): 52.9 SD: 1.09 RSD(%): 2.07

QC sample is within range 45.0 - 55.0

~~~~~  
ID: CCB Seq. No.: 00021 A/S Pos.: 38 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.000 Time: 12:58  
Background Pk Area (A-s): 0.102 Peak Height (A): 0.007  
Blank Corrected Pk Area (A-s): 0.002 Background Pk Height (A): 0.034  
Concentration (ug/L ): -1.1

Replicate 2  
Peak Area (A-s): 0.001 Time: 13:00  
Background Pk Area (A-s): 0.103 Peak Height (A): 0.006  
Blank Corrected Pk Area (A-s): 0.003 Background Pk Height (A): 0.036  
Concentration (ug/L ): -0.9

Mean Conc (ug/L ): -1.0 SD: 0.13 RSD(%): 12.36

QC sample is within range

~~~~~  
As ID: LCSS **X100** Seq. No.: 00022 A/S Pos.: 17 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.294 Time: 13:03  
Background Pk Area (A-s): 0.116 Peak Height (A): 0.301  
Blank Corrected Pk Area (A-s): 0.296 Background Pk Height (A): 0.043  
Concentration (ug/L ): 42.4

Replicate 2  
Peak Area (A-s): 0.295 Time: 13:06  
Background Pk Area (A-s): 0.117 Peak Height (A): 0.312  
Background Pk Height (A): 0.044

Blank Corrected Pk Area (A-s): 0.297  
Concentration (ug/L ): 42.6

LCSS X100

1588

Mean Conc (ug/L ): 42.5

SD: 0.12

RSD(%): 0.28

As ID: LCSS A X100

Seq. No.: 00023

A/S Pos.: 17

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.407

Background Pk Area (A-s): 0.124

Blank Corrected Pk Area (A-s): 0.408

Concentration (ug/L ): 59.1

Time: 13:09

Peak Height (A): 0.380

Background Pk Height (A): 0.048

Replicate 2

Peak Area (A-s): 0.430

Background Pk Area (A-s): 0.123

Blank Corrected Pk Area (A-s): 0.432

Concentration (ug/L ): 62.6

Time: 13:12

Peak Height (A): 0.421

Background Pk Height (A): 0.049

Mean Conc (ug/L ): 60.8

SD: 2.47

RSD(%): 4.06

Recovery is 91.4%

As ID: J04506

Seq. No.: 00024

A/S Pos.: 18

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.005

Background Pk Area (A-s): 0.095

Blank Corrected Pk Area (A-s): 0.007

Concentration (ug/L ): -0.4

Time: 13:15

Peak Height (A): 0.009

Background Pk Height (A): 0.036

Replicate 2

Peak Area (A-s): -0.000

Background Pk Area (A-s): 0.093

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -1.1

Time: 13:18

Peak Height (A): 0.007

Background Pk Height (A): 0.033

Mean Conc (ug/L ): -0.7

SD: 0.55

RSD(%): 73.95

As ID: J04506 A

Seq. No.: 00025

A/S Pos.: 18

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.116

Background Pk Area (A-s): 0.090

Blank Corrected Pk Area (A-s): 0.117

Concentration (ug/L ): 16.0

Time: 13:21

Peak Height (A): 0.158

Background Pk Height (A): 0.035

Replicate 2

Peak Area (A-s): 0.120

Background Pk Area (A-s): 0.099

Blank Corrected Pk Area (A-s): 0.122

Concentration (ug/L ): 16.7

Time: 13:24

Peak Height (A): 0.151

Background Pk Height (A): 0.038

Mean Conc (ug/L ): 16.4

SD: 0.45

RSD(%): 2.78

Recovery is 85.5%

As ID: J04507 Seq. No.: 00026 A/S Pos.: 19 Date: 02/01/93 1589

Replicate 1  
Peak Area (A-s): 0.017  
Background Pk Area (A-s): 0.208  
Blank Corrected Pk Area (A-s): 0.019  
Concentration (ug/L ): 1.5

Time: 13:27  
Peak Height (A): 0.023  
Background Pk Height (A): 0.130

Replicate 2  
Peak Area (A-s): 0.020  
Background Pk Area (A-s): 0.218  
Blank Corrected Pk Area (A-s): 0.021  
Concentration (ug/L ): 1.8

Time: 13:30  
Peak Height (A): 0.022  
Background Pk Height (A): 0.123

Mean Conc (ug/L ): 1.6 SD: 0.23 RSD(%): 14.26

As ID: J04507A Seq. No.: 00027 A/S Pos.: 19 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.142  
Background Pk Area (A-s): 0.215  
Blank Corrected Pk Area (A-s): 0.144  
Concentration (ug/L ): 19.9

Time: 13:33  
Peak Height (A): 0.152  
Background Pk Height (A): 0.155

Replicate 2  
Peak Area (A-s): 0.131  
Background Pk Area (A-s): 0.219  
Blank Corrected Pk Area (A-s): 0.132  
Concentration (ug/L ): 18.2

Time: 13:36  
Peak Height (A): 0.136  
Background Pk Height (A): 0.126

Mean Conc (ug/L ): 19.1 SD: 1.22 RSD(%): 6.37

Recovery is 87.2%

As ID: J04508 Seq. No.: 00028 A/S Pos.: 20 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.097  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): -0.9

Time: 13:38  
Peak Height (A): 0.007  
Background Pk Height (A): 0.035

Replicate 2  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.091  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -1.0

Time: 13:41  
Peak Height (A): 0.006  
Background Pk Height (A): 0.035

Mean Conc (ug/L ): -1.0 SD: 0.04 RSD(%): 4.18

As ID: J04508A Seq. No.: 00029 A/S Pos.: 20 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.099  
Background Pk Area (A-s): 0.100

Time: 13:44  
Peak Height (A): 0.107  
Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.101  
Concentration (ug/L ): 13.5

J04508A

Replicate 2  
Peak Area (A-s): 0.101  
Background Pk Area (A-s): 0.101  
Blank Corrected Pk Area (A-s): 0.102  
Concentration (ug/L ): 13.8

Time: 13:47  
Peak Height (A): 0.104  
Background Pk Height (A): 0.034

1590

Mean Conc (ug/L ): 13.7

SD: 0.16

RSD(%): 1.15

Recovery is 73.2% (outside of specified limits)

As ID: CCV(50)

Seq. No.: 00030

A/S Pos.: 37

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.363  
Background Pk Area (A-s): 0.122  
Blank Corrected Pk Area (A-s): 0.365  
Concentration (ug/L ): 52.6

Time: 13:50  
Peak Height (A): 0.394  
Background Pk Height (A): 0.047

Replicate 2  
Peak Area (A-s): 0.391  
Background Pk Area (A-s): 0.123  
Blank Corrected Pk Area (A-s): 0.393  
Concentration (ug/L ): 56.8

Time: 13:53  
Peak Height (A): 0.444  
Background Pk Height (A): 0.050

Mean Conc (ug/L ): 54.7

SD: 2.95

RSD(%): 5.39

Sample is within range 45.0 - 55.0

As ID: CCB

Seq. No.: 00031

A/S Pos.: 38

Date: 02/01/93

Replicate 1  
Peak Area (A-s): -0.002  
Background Pk Area (A-s): 0.097  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -1.4

Time: 13:56  
Peak Height (A): 0.006  
Background Pk Height (A): 0.034

Replicate 2  
Peak Area (A-s): -0.004  
Background Pk Area (A-s): 0.100  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -1.7

Time: 13:59  
Peak Height (A): 0.007  
Background Pk Height (A): 0.035

Mean Conc (ug/L ): -1.5

SD: 0.19

RSD(%): 12.45

QC sample is within range

Shot: Prepared Date: 2/1/93/0830

IEA Laboratories

Date: 2/1/93

Start Run Time: 1750

200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 452-8200

page 1 of 1

6: 1591

FURNACE DATA SHEET

Element: TI

I.D. Wt. File: AS020193

Instrument 5100..

Analyst J. J. Nee

| Cup | Sample ID         | % Sol. | Wt. V/Vol | Factor | Recovery | % Recovery | Flags | Value ug/L, mg/kg |
|-----|-------------------|--------|-----------|--------|----------|------------|-------|-------------------|
| 5   | ICV               |        |           |        | 53.9     | 107.8      |       | 53.9              |
| 1   | ICB               |        |           |        | -0.6     |            |       | 2.0 U             |
| 2   | ICRA              |        |           |        | 9.1      | 91.0       |       | 9.1               |
| 37  | ICCV(50)          |        |           |        | 46.9     | 93.8       |       | 46.9              |
| 38  | ICCB              |        |           |        | 0.2      |            |       | 2.0 U             |
| 12  | FEW 0056, 57, 60  | 100.0  | 100/100   |        | -0.1     |            |       | 2.0 U             |
| 12  | FEWA              | 100.0  | 100/100   |        | 19.4     | 97.0       |       |                   |
| 13  | LC3W 0056, 57, 60 | 100.0  | 100/100   |        | 55.2     | 110.4      |       | 55.2              |
| 13  | LC3WA             | 100.0  | 100/100   |        | 71.6     | 82.0       |       |                   |
| 14  | LC3W01            | 100.0  | 100/100   |        | 2.3      |            |       | 2.0 U             |
| 14  | LC3W01A           | 100.0  | 100/100   |        | 18.6     | 93.0       |       |                   |
| 15  | FB5 0045, 60, 70  | 100.0  | 1.00/200  |        | -0.3     |            |       | 0.40 U            |
| 3   | FB5A              | 100.0  | 1.00/200  |        | 15.3     | 91.5       |       |                   |
| 16  | LC35 0045, 60, 70 | 100.0  | 1.00/200  | 4.0    | 52.7     | 108.1      |       | 42.2              |
| 16  | LC35A             | 100.0  | 1.00/200  |        | 65.3     | 63.0       |       |                   |
| 37  | ICCV(50)          |        |           |        | 50.6     | 101.2      |       | 50.6              |
| 38  | ICCB              |        |           |        | -0.5     |            |       | 2.0 U             |

=====

Multi. File: ASSETLPB.HMU      Analyst: SM  
Date: 02/01/93                      Time: 17:47  
Data File: AS020193.DAT          ID/Wt File: AS020193.IDW

=====

-----1592-----

Element File: TLAUTSPK.GEL      Element: T1                      Wavelength: 276.8  
Date: 02/01/93                      Time: 17:50                      Slit: 0.70 L  
Data File: AS020193.DAT          ID/Wt File: AS020193.IDW          Lamp Current: 7  
Technique: HGA                      Calib. Type: Nonlinear              Energy: 55

-----

~~~~~

T1      ID: Calib. Blank              Seq. No.: 00071      A/S Pos.: 1      Date: 02/01/93

Replicate 1                      *S0*  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.036  
Blank Corrected Pk Area (A-s): 0.002

Time: 17:50  
Peak Height (A): 0.007  
Background Pk Height (A): 0.052

Replicate 2  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.033  
Blank Corrected Pk Area (A-s): 0.005

Time: 17:53  
Peak Height (A): 0.009  
Background Pk Height (A): 0.051

Mean Pk Area (A-s):              0.003

SD: 0.0022

RSD(%): 66.97

Auto-zero performed.

~~~~~

T1      ID: Standard 1              Seq. No.: 00072      A/S Pos.: 2      Date: 02/01/93

Replicate 1                      *S10*  
Peak Area (A-s): 0.049  
Background Pk Area (A-s): 0.098  
Blank Corrected Pk Area (A-s): 0.046

Time: 17:55  
Peak Height (A): 0.074  
Background Pk Height (A): 0.129

Replicate 2  
Peak Area (A-s): 0.049  
Background Pk Area (A-s): 0.099  
Blank Corrected Pk Area (A-s): 0.046

Time: 17:58  
Peak Height (A): 0.075  
Background Pk Height (A): 0.130

Mean Pk Area (A-s):              0.046

SD: 0.0003

RSD(%): 0.76

Standard number 1 applied. [10.0]  
Correlation coefficient: 1.00000

Slope: 0.0046

~~~~~

T1      ID: Standard 2              Seq. No.: 00073      A/S Pos.: 3      Date: 02/01/93

Replicate 1                      *S50*  
Peak Area (A-s): 0.203  
Background Pk Area (A-s): 0.231  
Blank Corrected Pk Area (A-s): 0.200  
Concentration (ug/L ): 43.6

Time: 18:01  
Peak Height (A): 0.273  
Background Pk Height (A): 0.318

Replicate 2  
Peak Area (A-s): 0.204  
Background Pk Area (A-s): 0.226  
Blank Corrected Pk Area (A-s): 0.201

Time: 18:03  
Peak Height (A): 0.259  
Background Pk Height (A): 0.296

Concentration (ug/L ): 43.9

550

Mean Conc (ug/L ): 43.8

SD: 0.19

RSD(%): 0.43  
1593

Standard number 2 applied. [50.0]  
Correlation coefficient: 1.00000

Slope: 0.0047

~~~~~  
T1 ID: Standard 3 Seq. No.: 00074 A/S Pos.: 4 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.350  
Background Pk Area (A-s): 0.384  
Blank Corrected Pk Area (A-s): 0.346  
Concentration (ug/L ): 99.9

5100

Time: 18:06  
Peak Height (A): 0.434  
Background Pk Height (A): 0.530

Replicate 2  
Peak Area (A-s): 0.354  
Background Pk Area (A-s): 0.375  
Blank Corrected Pk Area (A-s): 0.350  
Concentration (ug/L ): 101.5

Time: 18:09  
Peak Height (A): 0.387  
Background Pk Height (A): 0.466

Mean Conc (ug/L ): 100.7

SD: 1.15

RSD(%): 1.15

Standard number 3 applied. [100.0]  
Correlation coefficient: 1.00000

Slope: 0.0048

~~~~~  
T1 ID: ICD Seq. No.: 00075 A/S Pos.: 5 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.215  
Background Pk Area (A-s): 0.234  
Blank Corrected Pk Area (A-s): 0.212  
Concentration (ug/L ): 53.4

Time: 18:11  
Peak Height (A): 0.269  
Background Pk Height (A): 0.298

Replicate 2  
Peak Area (A-s): 0.218  
Background Pk Area (A-s): 0.247  
Blank Corrected Pk Area (A-s): 0.215  
Concentration (ug/L ): 54.4

Time: 18:14  
Peak Height (A): 0.261  
Background Pk Height (A): 0.309

Mean Conc (ug/L ): 53.9

SD: 0.70

RSD(%): 1.29

QC sample is within range 45 - 55

~~~~~  
T1 ID: ICB Seq. No.: 00076 A/S Pos.: 1 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.029  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -0.6

Time: 18:17  
Peak Height (A): 0.009  
Background Pk Height (A): 0.039

Replicate 2  
Peak Area (A-s): 0.000  
Background Pk Area (A-s): 0.012  
Blank Corrected Pk Area (A-s): -0.003

Time: 18:19  
Peak Height (A): 0.008  
Background Pk Height (A): 0.017

Concentration (ug/L ): -0.6

ICB

Mean Conc (ug/L ): -0.6

SD: 0.02

RSD(%): 4.22

sample is within range

TI ID: CRA

Seq. No.: 00077

A/S Pos.: 2

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.046

Background Pk Area (A-s): 0.085

Blank Corrected Pk Area (A-s): 0.042

Concentration (ug/L ): 9.2

Time: 18:22

Peak Height (A): 0.059

Background Pk Height (A): 0.097

Replicate 2

Peak Area (A-s): 0.044

Background Pk Area (A-s): 0.081

Blank Corrected Pk Area (A-s): 0.041

Concentration (ug/L ): 9.0

Time: 18:25

Peak Height (A): 0.054

Background Pk Height (A): 0.088

Mean Conc (ug/L ): 9.1

SD: 0.21

RSD(%): 2.25

QC sample is within range

TI ID: CCV(50)

Seq. No.: 00078

A/S Pos.: 37

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.188

Background Pk Area (A-s): 0.190

Blank Corrected Pk Area (A-s): 0.185

Concentration (ug/L ): 45.6

Time: 18:27

Peak Height (A): 0.213

Background Pk Height (A): 0.212

Replicate 2

Peak Area (A-s): 0.198

Background Pk Area (A-s): 0.204

Blank Corrected Pk Area (A-s): 0.195

Concentration (ug/L ): 48.3

Time: 18:30

Peak Height (A): 0.220

Background Pk Height (A): 0.238

Mean Conc (ug/L ): 46.9

SD: 1.95

RSD(%): 4.15

QC sample is within range 45 - 55

TI ID: CCB

Seq. No.: 00079

A/S Pos.: 38

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.006

Background Pk Area (A-s): 0.018

Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L ): 0.5

Time: 18:32

Peak Height (A): 0.013

Background Pk Height (A): 0.022

Replicate 2

Peak Area (A-s): 0.003

Background Pk Area (A-s): 0.011

Blank Corrected Pk Area (A-s): -0.000

Concentration (ug/L ): -0.0

Time: 18:35

Peak Height (A): 0.008

Background Pk Height (A): 0.015

Mean Conc (ug/L ):

0.2

SD: 0.37

CCB

RSD(%): 1595  
149.84

QC sample is within range

ID: PBW

Seq. No.: 00080

A/S Pos.: 12

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.005

Background Pk Area (A-s): 0.024

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.3

Time: 18:37

Peak Height (A): 0.008

Background Pk Height (A): 0.035

Replicate 2

Peak Area (A-s): 0.001

Background Pk Area (A-s): 0.025

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -0.5

Time: 18:40

Peak Height (A): 0.009

Background Pk Height (A): 0.030

Mean Conc (ug/L ):

-0.1

SD: 0.59

RSD(%): 594.47

T1 ID: PBW A

Seq. No.: 00081

A/S Pos.: 12

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.088

Background Pk Area (A-s): 0.097

Blank Corrected Pk Area (A-s): 0.085

Concentration (ug/L ): 19.2

Time: 18:43

Peak Height (A): 0.121

Background Pk Height (A): 0.124

Replicate 2

Peak Area (A-s): 0.090

Background Pk Area (A-s): 0.089

Blank Corrected Pk Area (A-s): 0.087

Concentration (ug/L ): 19.6

Time: 18:45

Peak Height (A): 0.131

Background Pk Height (A): 0.116

Mean Conc (ug/L ):

19.4

SD: 0.29

RSD(%): 1.50

Recovery is 97.6%

T1 ID: LCSW

Seq. No.: 00082

A/S Pos.: 13

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.220

Background Pk Area (A-s): 0.198

Blank Corrected Pk Area (A-s): 0.216

Concentration (ug/L ): 54.7

Time: 18:48

Peak Height (A): 0.284

Background Pk Height (A): 0.270

Replicate 2

Peak Area (A-s): 0.223

Background Pk Area (A-s): 0.212

Blank Corrected Pk Area (A-s): 0.220

Concentration (ug/L ): 55.8

Time: 18:50

Peak Height (A): 0.263

Background Pk Height (A): 0.267

Mean Conc (ug/L ):

55.2

SD: 0.74

RSD(%): 1.34

~~~~~  
T1 ID: LCSW A Seq. No.: 00083 A/S Pos.: 13 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.270  
Background Pk Area (A-s): 0.251  
Blank Corrected Pk Area (A-s): 0.266  
Concentration (ug/L ): 70.6

Time: 18:53  
Peak Height (A): 0.321  
Background Pk Height (A): 0.323

Replicate 2  
Peak Area (A-s): 0.276  
Background Pk Area (A-s): 0.253  
Blank Corrected Pk Area (A-s): 0.272  
Concentration (ug/L ): 72.6

Time: 18:56  
Peak Height (A): 0.328  
Background Pk Height (A): 0.324

Mean Conc (ug/L ): 71.6 SD: 1.40 RSD(%): 1.95

Recovery is 81.7% (outside of specified limits)

~~~~~  
T1 ID: J05601 Seq. No.: 00084 A/S Pos.: 14 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.018  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.4

Time: 18:58  
Peak Height (A): 0.009  
Background Pk Height (A): 0.013

Replicate 2  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.014  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.3

Time: 19:00  
Peak Height (A): 0.009  
Background Pk Height (A): 0.013

Mean Conc (ug/L ): 0.3 SD: 0.11 RSD(%): 32.81

~~~~~  
T1 ID: J05601 A Seq. No.: 00085 A/S Pos.: 14 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.085  
Background Pk Area (A-s): 0.081  
Blank Corrected Pk Area (A-s): 0.082  
Concentration (ug/L ): 18.5

Time: 19:03  
Peak Height (A): 0.144  
Background Pk Height (A): 0.122

Replicate 2  
Peak Area (A-s): 0.086  
Background Pk Area (A-s): 0.079  
Blank Corrected Pk Area (A-s): 0.083  
Concentration (ug/L ): 18.7

Time: 19:06  
Peak Height (A): 0.143  
Background Pk Height (A): 0.120

Mean Conc (ug/L ): 18.6 SD: 0.13 RSD(%): 0.72

Recovery is 91.2%

~~~~~  
T1 ID: PBS Seq. No.: 00086 A/S Pos.: 15 Date: 02/01/93

Replicate 1

Time: 19:08

PBS  
Peak Area (A-s): -0.000  
Background Pk Area (A-s): 0.018  
Blank Corrected Pk Area (A-s): -0.004  
Concentration (ug/L ): -0.8

Peak Height (A): 0.007  
Background Pk Height (A): 0.016 1597

replicate 2  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.017  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.3

Time: 19:11  
Peak Height (A): 0.009  
Background Pk Height (A): 0.021

Mean Conc (ug/L ): -0.3

SD: 0.76

RSD(%): 288.66

T1 ID: PBS A

Seq. No.: 00087

A/S Pos.: 15

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.083  
Background Pk Area (A-s): 0.078  
Blank Corrected Pk Area (A-s): 0.080  
Concentration (ug/L ): 17.9

Time: 19:14  
Peak Height (A): 0.140  
Background Pk Height (A): 0.121

Replicate 2  
Peak Area (A-s): 0.086  
Background Pk Area (A-s): 0.075  
Blank Corrected Pk Area (A-s): 0.083  
Concentration (ug/L ): 18.7

Time: 19:16  
Peak Height (A): 0.142  
Background Pk Height (A): 0.113

Mean Conc (ug/L ): 18.3

SD: 0.58

RSD(%): 3.15

Recovery is 92.7%

T1 ID: LCSS X4

Seq. No.: 00088

A/S Pos.: 16

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.214  
Background Pk Area (A-s): 0.230  
Blank Corrected Pk Area (A-s): 0.211  
Concentration (ug/L ): 53.2

Time: 19:19  
Peak Height (A): 0.345  
Background Pk Height (A): 0.378

Replicate 2  
Peak Area (A-s): 0.211  
Background Pk Area (A-s): 0.231  
Blank Corrected Pk Area (A-s): 0.208  
Concentration (ug/L ): 52.2

Time: 19:21  
Peak Height (A): 0.348  
Background Pk Height (A): 0.382

Mean Conc (ug/L ): 52.7

SD: 0.67

RSD(%): 1.27

T1 ID: LCSS A X4

Seq. No.: 00089

A/S Pos.: 16

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.255  
Background Pk Area (A-s): 0.275  
Blank Corrected Pk Area (A-s): 0.251  
Concentration (ug/L ): 65.7

Time: 19:24  
Peak Height (A): 0.389  
Background Pk Height (A): 0.454

Replicate 2

Time: 19:27

Peak Area (A-s): 0.252  
Background Pk Area (A-s): 0.276  
Blank Corrected Pk Area (A-s): 0.249  
Concentration (ug/L ): 64.9

LCSSA X4

Peak Height (A): 0.400  
Background Pk Height (A): 0.460 1598

Mean Conc (ug/L ): 65.3

SD: 0.54

RSD(%): 0.82

Recovery is 62.9% (outside of specified limits)

T1 ID: CCV(50)

Seq. No.: 00090

A/S Pos.: 37

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.207  
Background Pk Area (A-s): 0.230  
Blank Corrected Pk Area (A-s): 0.204  
Concentration (ug/L ): 51.0

Time: 19:29  
Peak Height (A): 0.280  
Background Pk Height (A): 0.325

Replicate 2  
Peak Area (A-s): 0.205  
Background Pk Area (A-s): 0.219  
Blank Corrected Pk Area (A-s): 0.201  
Concentration (ug/L ): 50.3

Time: 19:32  
Peak Height (A): 0.258  
Background Pk Height (A): 0.282

Mean Conc (ug/L ): 50.6

SD: 0.53

RSD(%): 1.06

QC sample is within range 45 - 55

T1 ID: CCB

Seq. No.: 00091

A/S Pos.: 38

Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.028  
Blank Corrected Pk Area (A-s): -0.002  
Concentration (ug/L ): -0.4

Time: 19:34  
Peak Height (A): 0.007  
Background Pk Height (A): 0.029

Replicate 2  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.019  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -0.5

Time: 19:37  
Peak Height (A): 0.009  
Background Pk Height (A): 0.020

Mean Conc (ug/L ): -0.5

SD: 0.09

RSD(%): 18.33

QC sample is within range

Std. Prepped Date: 2/1/93/0830 IEA Laboratories  
 200 Monroe Turnpike  
 Start Run Time : 1818 Monroe, Connecticut 06468  
 (203) 261-4458

Date: 2/1/93  
 page 1 of 1

1599

FURNACE DATA SHEET

Element: Se I.D. Wt. File: J060 Instrument 5100N Analyst Jeff Noe

| Cup | Sample ID | % Sol. | Wt.V/Vol | Factor | Sample Recovery | % Recovery | Flags | Value ug/L,<br>mg/kg |
|-----|-----------|--------|----------|--------|-----------------|------------|-------|----------------------|
| 5   | ICV       |        |          |        | 53.3            | 106.6      |       | 53.3                 |
| 1   | ICB       |        |          |        | 0.7             |            |       | 2.0 U                |
| 2   | CRA       |        |          |        | 5.0             | 100.0      |       | 5.0                  |
| 37  | CCV(50)   |        |          |        | 52.5            | 105.0      |       | 52.5                 |
| 38  | CCB       |        |          |        | -0.0            |            |       | 2.0 U                |
| 6   | J06006    | 100.0  | 100/100  |        | 0.1             |            |       | 2.0 U FIELD BLANK    |
| 6   | J06006A   | 100.0  | 100/100  |        | 9.3             | 93.0       |       | 0.40 U S-99          |
| 7   | J06001    | 87.6   | 1.15/200 |        | 1.3             |            |       |                      |
| 7   | J06001A   | 87.6   | 1.15/200 |        | 9.1             | 91.0       |       | 0.52 B S-100         |
| 8   | J06002    | 86.7   | 1.29/200 |        | 2.9             |            |       |                      |
| 8   | J06002A   | 86.7   | 1.29/200 |        | 9.2             | 63.0       | W     | 0.42 U S-100         |
| 9   | J06002D   | 86.7   | 1.11/200 |        | 1.7             |            |       |                      |
| 9   | J06002DA  | 86.7   | 1.11/200 |        | 8.4             | 84.0       | W     |                      |
| 10  | J06002S   | 86.7   | 1.11/200 |        | 7.1             | 44.6       | N     | 1.4 S-100            |
| 4   | J06002SA  | 86.7   | 1.17/200 |        | 14.3            | 72.0       | N     | Jeff Noe 2/02/93     |
| 37  | CCV(50)   |        |          |        | 46.1            | 92.2       |       | 46.1                 |
| 38  | CCB       |        |          |        | -0.4            |            |       | 2.0 U                |
| 11  | J06003    | 84.7   | 1.06/200 |        | 2.8             |            |       | 0.62 U               |
| 11  | J06003A   | 84.7   | 1.06/200 |        | 9.3             | 65.0       | W     |                      |
| 12  | J06004    | 86.2   | 1.15/200 |        | 5.1             |            |       | 1.0                  |
| 12  | J06004A   | 86.2   | 1.15/200 |        | 12.2            | 71.0       | MSA   | 0.41 U               |
| 13  | J06401    | 78.8   | 1.25/200 |        | 0.1             |            |       |                      |
| 13  | J06401A   | 78.8   | 1.25/200 |        | 6.5             | 65.0       | W     | 0.39 U               |
| 14  | J06401D   | 78.8   | 1.34/200 |        | -0.4            |            |       |                      |
| 14  | J06401DA  | 77.5   | 1.34/200 |        | 7.5             | 75.0       | W     |                      |
| 15  | J06401S   | 78.8   | 1.29/200 |        | 7.8             | 78.1       |       | 1.5                  |
| 15  | J06401SA  | 78.1   | 1.29/200 |        | 13.3            | 55.0       | N     |                      |
| 37  | CCV(50)   |        |          |        | 42.6            | 85.2       |       | 42.6                 |
| 38  | CCB       |        |          |        | 0.7             |            |       | 2.0 U                |

CCV Failed  
 Jeff Noe 2/02/93

Element File: SEAUTSPK.GEL  
Date: 02/01/93  
Data File: J060.DAT  
Technique: HGA

Element: Se  
Time: 18:18  
ID/Wt File: J060.IDW  
Calib. Type: Linear

Wavelength: 196.0  
Slit: 2.00 L  
Lamp Current: 0  
Energy: 54

1600

Se ID: Calib. Blank Seq. No.: 00034 A/S Pos.: 1 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.066  
Blank Corrected Pk Area (A-s): 0.002

Time: 18:18  
Peak Height (A): 0.017  
Background Pk Height (A): 0.031

Replicate 2  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.068  
Blank Corrected Pk Area (A-s): 0.001

Time: 18:21  
Peak Height (A): 0.010  
Background Pk Height (A): 0.032

Mean Pk Area (A-s): 0.002

SD: 0.0005

RSD(%): 29.19

Auto-zero performed.

Se ID: Standard 1 Seq. No.: 00035 A/S Pos.: 2 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.026  
Background Pk Area (A-s): 0.070  
Blank Corrected Pk Area (A-s): 0.024

Time: 18:24  
Peak Height (A): 0.035  
Background Pk Height (A): 0.033

Replicate 2  
Peak Area (A-s): 0.029  
Background Pk Area (A-s): 0.063  
Blank Corrected Pk Area (A-s): 0.028

Time: 18:27  
Peak Height (A): 0.036  
Background Pk Height (A): 0.034

Mean Pk Area (A-s): 0.026

SD: 0.0025

RSD(%): 9.47

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000

Slope: 0.0052

Int: 0.000

Se ID: Standard 2 Seq. No.: 00036 A/S Pos.: 3 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.216  
Background Pk Area (A-s): 0.101  
Blank Corrected Pk Area (A-s): 0.214  
Concentration (ug/L ): 41.1

Time: 18:30  
Peak Height (A): 0.240  
Background Pk Height (A): 0.053

Replicate 2  
Peak Area (A-s): 0.212  
Background Pk Area (A-s): 0.097  
Blank Corrected Pk Area (A-s): 0.210  
Concentration (ug/L ): 40.4

Time: 18:33  
Peak Height (A): 0.222  
Background Pk Height (A): 0.050

Mean Conc (ug/L ): 40.8

SD: 0.49

RSD(%): 1.21

Standard number 2 applied. [50.0]

Correlation coefficient: 0.99976 *550* Slope: 0.0042 Int: 0.002

~~~~~  
Se ID: Standard 3 Seq. No.: 00037 A/S Pos.: 4 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.414  
Background Pk Area (A-s): 0.139  
Blank Corrected Pk Area (A-s): 0.413  
Concentration (ug/L ): 97.7

*5100*

Time: 18:36  
Peak Height (A): 0.450  
Background Pk Height (A): 0.091

*1601*

Replicate 2  
Peak Area (A-s): 0.416  
Background Pk Area (A-s): 0.137  
Blank Corrected Pk Area (A-s): 0.415  
Concentration (ug/L ): 98.2

Time: 18:39  
Peak Height (A): 0.449  
Background Pk Height (A): 0.093

Mean Conc (ug/L ): 97.9

SD: 0.32

RSD(%): 0.32

Standard number 3 applied. [100.0]  
Correlation coefficient: 0.99988

Slope: 0.0041

Int: 0.003

~~~~~  
Se ID: ICV

Seq. No.: 00038 A/S Pos.: 5 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.222  
Background Pk Area (A-s): 0.097  
Blank Corrected Pk Area (A-s): 0.221  
Concentration (ug/L ): 52.8

Time: 18:42  
Peak Height (A): 0.241  
Background Pk Height (A): 0.056

Replicate 2  
Peak Area (A-s): 0.227  
Background Pk Area (A-s): 0.104  
Blank Corrected Pk Area (A-s): 0.225  
Concentration (ug/L ): 53.9

Time: 18:45  
Peak Height (A): 0.259  
Background Pk Height (A): 0.053

Mean Conc (ug/L ): 53.3

SD: 0.80

RSD(%): 1.50

QC sample is within range 45 - 55

~~~~~  
Se ID: ICB

Seq. No.: 00039 A/S Pos.: 1 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.008  
Background Pk Area (A-s): 0.058  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.6

Time: 18:48  
Peak Height (A): 0.014  
Background Pk Height (A): 0.027

Replicate 2  
Peak Area (A-s): 0.009  
Background Pk Area (A-s): 0.059  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.8

Time: 18:51  
Peak Height (A): 0.013  
Background Pk Height (A): 0.032

Mean Conc (ug/L ): 0.7

SD: 0.15

RSD(%): 19.85

QC sample is within range

~~~~~  
Se ID: CRA Seq. No.: 00040 A/S Pos.: 2 Date: 02/01/93 1602

Replicate 1  
Peak Area (A-s): 0.027  
Background Pk Area (A-s): 0.062  
Blank Corrected Pk Area (A-s): 0.025  
Concentration (ug/L ): 5.4

Time: 18:54  
Peak Height (A): 0.038  
Background Pk Height (A): 0.032

Replicate 2  
Peak Area (A-s): 0.024  
Background Pk Area (A-s): 0.063  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 4.7

Time: 18:57  
Peak Height (A): 0.036  
Background Pk Height (A): 0.028

Mean Conc (ug/L ): 5.0

SD: 0.45

RSD(%): 6.98

QC sample is within range

~~~~~  
Se ID: CCV(50) Seq. No.: 00041 A/S Pos.: 37 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.223  
Background Pk Area (A-s): 0.099  
Blank Corrected Pk Area (A-s): 0.222  
Concentration (ug/L ): 53.0

Time: 19:00  
Peak Height (A): 0.254  
Background Pk Height (A): 0.056

Replicate 2  
Peak Area (A-s): 0.219  
Background Pk Area (A-s): 0.100  
Blank Corrected Pk Area (A-s): 0.217  
Concentration (ug/L ): 51.9

Time: 19:03  
Peak Height (A): 0.247  
Background Pk Height (A): 0.054

Mean Conc (ug/L ): 52.5

SD: 0.76

RSD(%): 1.45

QC sample is within range 45 - 55

~~~~~  
Se ID: CCB Seq. No.: 00042 A/S Pos.: 38 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.007  
Background Pk Area (A-s): 0.061  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 0.5

Time: 19:06  
Peak Height (A): 0.014  
Background Pk Height (A): 0.030

Replicate 2  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.060  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -0.4

Time: 19:09  
Peak Height (A): 0.014  
Background Pk Height (A): 0.031

Mean Conc (ug/L ): 0.0

SD: 0.59

RSD(%): 1673.76

QC sample is within range

~~~~~  
Se ID: J06006 Seq. No.: 00043 A/S Pos.: 6 Date: 160301/93

Replicate 1  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.066  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.0

FIELD BLANK

Time: 19:12  
Peak Height (A): 0.012  
Background Pk Height (A): 0.029

Replicate 2  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.062  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 0.1

Time: 19:15  
Peak Height (A): 0.016  
Background Pk Height (A): 0.033

Mean Conc (ug/L ): 0.1 SD: 0.08 RSD(%): 96.72

~~~~~  
Se ID: J06006 A Seq. No.: 00044 A/S Pos.: 6 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.045  
Background Pk Area (A-s): 0.072  
Blank Corrected Pk Area (A-s): 0.043  
Concentration (ug/L ): 9.7

Time: 19:18  
Peak Height (A): 0.058  
Background Pk Height (A): 0.032

Replicate 2  
Peak Area (A-s): 0.042  
Background Pk Area (A-s): 0.073  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.0

Time: 19:21  
Peak Height (A): 0.055  
Background Pk Height (A): 0.031

Mean Conc (ug/L ): 9.3 SD: 0.51 RSD(%): 5.44

Recovery is 92.4%

~~~~~  
Se ID: J06001 Seq. No.: 00045 A/S Pos.: 7 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.009  
Background Pk Area (A-s): 0.102  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 1.0

S-99

Time: 19:24  
Peak Height (A): 0.023  
Background Pk Height (A): 0.043

Replicate 2  
Peak Area (A-s): 0.012  
Background Pk Area (A-s): 0.120  
Blank Corrected Pk Area (A-s): 0.010  
Concentration (ug/L ): 1.6

Time: 19:27  
Peak Height (A): 0.020  
Background Pk Height (A): 0.040

Mean Conc (ug/L ): 1.3 SD: 0.42 RSD(%): 32.23

~~~~~  
Se ID: J06001 A Seq. No.: 00046 A/S Pos.: 7 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.042  
Background Pk Area (A-s): 0.131

Time: 19:30  
Peak Height (A): 0.058  
Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 8.9

J06001A

1604

Replicate 2  
Peak Area (A-s): 0.043  
Background Pk Area (A-s): 0.133  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 9.2

Time: 19:33  
Peak Height (A): 0.060  
Background Pk Height (A): 0.058

Mean Conc (ug/L ): 9.1 SD: 0.19 RSD(%): 2.12

Recovery is 77.4% (outside of specified limits)

~~~~~  
Se ID: J06002 Seq. No.: 00047 A/S Pos.: 8 Date: 02/01/93

Replicate 1 *S100*  
Peak Area (A-s): 0.016  
Background Pk Area (A-s): 0.109  
Blank Corrected Pk Area (A-s): 0.015  
Concentration (ug/L ): 2.7

Time: 19:36  
Peak Height (A): 0.028  
Background Pk Height (A): 0.040

Replicate 2  
Peak Area (A-s): 0.018  
Background Pk Area (A-s): 0.116  
Blank Corrected Pk Area (A-s): 0.016  
Concentration (ug/L ): 3.1

Time: 19:39  
Peak Height (A): 0.024  
Background Pk Height (A): 0.043

Mean Conc (ug/L ): 2.9 SD: 0.29 RSD(%): 9.90

~~~~~  
Se ID: J06002A Seq. No.: 00048 A/S Pos.: 8 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.042  
Background Pk Area (A-s): 0.133  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.0

Time: 19:43  
Peak Height (A): 0.066  
Background Pk Height (A): 0.060

Replicate 2  
Peak Area (A-s): 0.044  
Background Pk Area (A-s): 0.138  
Blank Corrected Pk Area (A-s): 0.042  
Concentration (ug/L ): 9.4

Time: 19:46  
Peak Height (A): 0.063  
Background Pk Height (A): 0.066

Mean Conc (ug/L ): 9.2 SD: 0.28 RSD(%): 3.03

Recovery is 63.0% (outside of specified limits)

~~~~~  
Se ID: J06002D Seq. No.: 00049 A/S Pos.: 9 Date: 02/01/93

Replicate 1 *S-100*  
Peak Area (A-s): 0.010  
Background Pk Area (A-s): 0.112  
Blank Corrected Pk Area (A-s): 0.008  
Concentration (ug/L ): 1.2

Time: 19:49  
Peak Height (A): 0.021  
Background Pk Height (A): 0.038

Replicate 2 Time: 19:52

Peak Area (A-s): 0.014  
Background Pk Area (A-s): 0.115  
Blank Corrected Pk Area (A-s): 0.012  
Concentration (ug/L ): 2.2

J06002D

Peak Height (A): 0.024  
Background Pk Height (A): 0.0401605

S-100

Mean Conc (ug/L ): 1.7

SD: 0.68

RSD(%): 39.35

Se ID: J06002DA

Seq. No.: 00050

A/S Pos.: 9

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.037  
Background Pk Area (A-s): 0.124  
Blank Corrected Pk Area (A-s): 0.035  
Concentration (ug/L ): 7.7

Time: 19:55

Peak Height (A): 0.054  
Background Pk Height (A): 0.067

Replicate 2

Peak Area (A-s): 0.042  
Background Pk Area (A-s): 0.125  
Blank Corrected Pk Area (A-s): 0.041  
Concentration (ug/L ): 9.0

Time: 19:58

Peak Height (A): 0.058  
Background Pk Height (A): 0.062

Mean Conc (ug/L ): 8.4

SD: 0.93

RSD(%): 11.12

Recovery is 66.5% (outside of specified limits)

~~Se ID: J06002B~~

~~Seq. No.: 00051~~

~~A/S Pos.: 10~~

~~Date: 02/01/93~~

Se ID: J06002S

Seq. No.: 00051

A/S Pos.: 10

Date: 02/01/93

Replicate 1

Peak Area (A-s): 0.031  
Background Pk Area (A-s): 0.110  
Blank Corrected Pk Area (A-s): 0.029  
Concentration (ug/L ): 6.3

Time: 20:01

Peak Height (A): 0.053  
Background Pk Height (A): 0.037

Replicate 2

Peak Area (A-s): 0.038  
Background Pk Area (A-s): 0.108  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 7.9

Time: 20:04

Peak Height (A): 0.050  
Background Pk Height (A): 0.042

Mean Conc (ug/L ): 7.1

SD: 1.12

RSD(%): 15.78

~~Se ID: J06002S A~~

~~Seq. No.: 00052~~

~~A/S Pos.: 10~~

~~Date: 02/01/93~~

Replicate 1

Peak Area (A-s): 0.062  
Background Pk Area (A-s): 0.125  
Blank Corrected Pk Area (A-s): 0.061  
Concentration (ug/L ): 13.9

Time: 20:08

Peak Height (A): 0.086  
Background Pk Height (A): 0.072

Replicate 2

Peak Area (A-s): 0.066  
Background Pk Area (A-s): 0.118  
Blank Corrected Pk Area (A-s): 0.064  
Concentration (ug/L ): 14.7

Time: 20:11

Peak Height (A): 0.090  
Background Pk Height (A): 0.055

~~Mean Conc (ug/L ): 14.3~~

~~SD: 0.36~~

~~RSD(%): 3.90~~

17 Nov 02/02/93

Recovery is 72.1% (outside of specified limits) ~~J06002SA~~ 14/11/93  
2/02/93

Se ID: CCV(50) Seq. No.: 00053 A/S Pos.: 37 Date: 02/01/93  
1606

Replicate 1  
Peak Area (A-s): 0.189  
Background Pk Area (A-s): 0.094  
Blank Corrected Pk Area (A-s): 0.187  
Concentration (ug/L ): 44.6

Time: 20:14  
Peak Height (A): 0.197  
Background Pk Height (A): 0.044

Replicate 2  
Peak Area (A-s): 0.201  
Background Pk Area (A-s): 0.093  
Blank Corrected Pk Area (A-s): 0.199  
Concentration (ug/L ): 47.5

Time: 20:17  
Peak Height (A): 0.203  
Background Pk Height (A): 0.047

Mean Conc (ug/L ): 46.1 SD: 2.00 RSD(%): 4.34

QC sample is within range 45 - 55

Se ID: CCB Seq. No.: 00054 A/S Pos.: 38 Date: 02/01/93

Replicate 1  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.056  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -0.2

Time: 20:20  
Peak Height (A): 0.011  
Background Pk Height (A): 0.029

Replicate 2  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.053  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.5

Time: 20:23  
Peak Height (A): 0.012  
Background Pk Height (A): 0.025

Mean Conc (ug/L ): -0.4 SD: 0.21 RSD(%): 56.44

QC sample is within range

~~Se ID: J06003 Seq. No.: 00055 A/S Pos.: 11 Date: 02/01/93~~

~~Replicate 1  
Peak Area (A-s): 0.014  
Background Pk Area (A-s): 0.091  
Blank Corrected Pk Area (A-s): 0.012  
Concentration (ug/L ): 2.1~~

~~Time: 20:26  
Peak Height (A): 0.029  
Background Pk Height (A): 0.037~~

~~Replicate 2  
Peak Area (A-s): 0.019  
Background Pk Area (A-s): 0.100  
Blank Corrected Pk Area (A-s): 0.018  
Concentration (ug/L ): 3.5~~

~~Time: 20:29  
Peak Height (A): 0.028  
Background Pk Height (A): 0.036~~

~~Mean Conc (ug/L ): 2.8 SD: 0.36 RSD(%): 24.12~~

Std. Prepped Date: 2/1/93/0830TEA Laboratories  
200 Nonrpe Turnpike  
Nonrpe, Connecticut 06460  
(203) 452-8200Date: 2/2/93Start Run Time: 0159page 1 of 1

## FURNACE DATA SHEET

1607

Element: Pb

I.D. wt. File: AS020193 Instrument 5100Analyst JFF/Me

| Cup | Sample ID        | % Sol. | Wt. V/Vol | Dil Factor | Sample Recovery | % Recovery | Flags | Value ug/L | mg/kg |
|-----|------------------|--------|-----------|------------|-----------------|------------|-------|------------|-------|
| 5   | ICV              |        |           |            | 47.8            | 95.6       |       | 47.8       |       |
| 1   | ICB              |        |           |            | 0.1             |            |       | 1.0 U      |       |
| 2   | ICRA             |        |           |            | 3.0             | 100.0      |       | 3.0        |       |
| 37  | ICCV(50)         |        |           |            | 48.0            | 96.0       |       | 48.0       |       |
| 38  | ICCB             |        |           |            | 0.2             |            |       | 1.0 U      |       |
| 6   | IF03641A         | 100.0  | 100/100   |            | 0.2             |            |       | 1.0 U      |       |
| 6   | IF03641A         | 100.0  | 100/100   |            | 16.7            | 83.5       | W     |            |       |
| 7   | IF03642          | 100.0  | 100/100   |            | 0.3             |            |       | 1.0 U      |       |
| 7   | IF03642A         | 100.0  | 100/100   |            | 16.1            | 80.5       | W     |            |       |
| 8   | IF03643          | 100.0  | 100/100   |            | 0.3             |            |       | 1.0 U      |       |
| 8   | IF03643A         | 100.0  | 100/100   |            | 16.5            | 82.5       | W     |            |       |
| 9   | IF03644          | 100.0  | 100/100   |            | 0.2             |            |       | 1.0 U      |       |
| 9   | IF03644A         | 100.0  | 100/100   |            | 17.8            | 89.0       |       |            |       |
| 10  | IF03646          | 100.0  | 100/100   |            | 0.3             |            |       | 1.0 U      |       |
| 10  | IF03646A         | 100.0  | 100/100   |            | 15.0            | 75.0       | W     |            |       |
| 37  | ICCV(50)         |        |           |            | 53.5            | 107.0      |       | 53.5       |       |
| 38  | ICCB             |        |           |            | 0.3             |            |       | 1.0 U      |       |
| 11  | IF03647          | 100.0  | 100/100   |            | 0.3             |            |       | 1.0 U      |       |
| 11  | IF03647A         | 100.0  | 100/100   |            | 16.3            | 82.5       | W     |            |       |
| 12  | IFBW 0056,57,60  | 100.0  | 100/100   |            | 0.4             |            |       | 1.0 U      |       |
| 12  | IFBWA            | 100.0  | 100/100   |            | 16.8            | 84.0       | W     |            |       |
| 15  | ILCSW 0056,57,60 | 100.0  | 100/100   |            | 51.8            | 103.6      |       | 51.8       |       |
| 13  | ILCSWA           | 100.0  | 100/100   |            | 67.5            | 78.5       |       |            |       |
| 14  | IC03601          | 100.0  | 100/100   |            | 27.0            |            |       | 27.0       |       |
| 14  | IC03601A         | 100.0  | 100/100   |            | 48.9            | 97.5       |       |            |       |
| 15  | IPBS 0045,60,70  | 100.0  | 1.00/200  |            | 0.4             |            |       | 0.20 U     |       |
| 15  | IPBSA            | 100.0  | 1.00/200  |            | 14.3            | 71.5       | W     |            |       |
| 37  | ICCV(50)         |        |           |            | 53.4            | 106.8      |       | 53.4       |       |
| 38  | ICCB             |        |           |            | 0.2             |            |       | 1.0 U      |       |
| 17  | ILCBS 0045,60,70 | 100.0  | 1.00/200  | 100.0      | 11.5            | 97.5       |       | 230.0      |       |
| 17  | ILCSA            | 100.0  | 1.00/200  |            | 32.1            | 103.0      |       |            |       |
| 18  | IC04506          | 100.0  | 1.35/200  |            | 114.1           |            |       | 6/2        |       |
| 18  | IC04506A         | 100.0  | 1.35/200  |            | 121.5           | 37.0       |       | 0/C        |       |
| 19  | IC04507          | 100.0  | 1.03/200  |            | 285.5           |            |       | 0/C        |       |
| 19  | IC04507A         | 100.0  | 1.03/200  |            | 308.0           | 112.5      |       | 0/C        |       |
| 20  | IC04508          | 100.0  | 1.01/200  |            | 2.3             |            |       | 0.46 B     |       |
| 20  | IC04508A         | 100.0  | 1.01/200  |            | 14.5            | 71.0       | W     |            |       |
| 7   | ICCV(50)         |        |           |            | 53.7            | 107.4      |       | 53.7       |       |
| 3   | ICCB             |        |           |            | 0.3             |            |       | 1.0 U      |       |

Background Pk Area (A-s): 0.083  
Blank Corrected Pk Area (A-s): 0.152  
Concentration (ug/L ): 48.5

Background Pk Height (A): 0.042

CCV 50

Mean Conc (ug/L ): 49.1

SD: 0.81

RSD(%): 1.65

QC sample is within range 45 - 55

~~~~~1608~~~~~  
Se ID: CCB Seq. No.: 00154 A/S Pos.: 38 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.046  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): 0.3

Time: 01:48  
Peak Height (A): 0.008  
Background Pk Height (A): 0.017

*Jeff Nee 2/2/93*

Replicate 2  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.049  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): 0.4

Time: 01:51  
Peak Height (A): 0.007  
Background Pk Height (A): 0.019

Mean Conc (ug/L ): 0.3

SD: 0.06

RSD(%): 19.00

~~QC sample is within range~~

-----  
Element File: PBAUTSPK.GEL  
Date: 02/02/93  
Data File: AS020193.DAT  
Technique: HGA

Element: Pb  
Time: 01:59  
ID/Wt File: AS020193.IDW  
Calib. Type: Nonlinear

Wavelength: 283.3  
Slit: 0.70 L  
Lamp Current: 10  
Energy: 61  
-----

Pb ID: Calib. Blank

Seq. No.: 00155

A/S Pos.: 1

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.034  
Blank Corrected Pk Area (A-s): 0.001

Time: 01:59  
Peak Height (A): 0.009  
Background Pk Height (A): 0.042

SO

Replicate 2  
Peak Area (A-s): 0.002

Time: 02:01  
Peak Height (A): 0.009

Auto-zero performed.

50

Pb ID: Standard 1 Seq. No.: 00156 A/S Pos.: 2 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.034  
Background Pk Area (A-s): 0.051  
Blank Corrected Pk Area (A-s): 0.033

53

Time: 02:04  
Peak Height (A): 0.071  
Background Pk Height (A): 0.050

1609

Replicate 2  
Peak Area (A-s): 0.032  
Background Pk Area (A-s): 0.052  
Blank Corrected Pk Area (A-s): 0.030

Time: 02:06  
Peak Height (A): 0.069  
Background Pk Height (A): 0.049

Mean Pk Area (A-s): 0.031

SD: 0.0018

RSD(%): 5.74

Standard number 1 applied. [3.0]  
Correlation coefficient: 1.00000

Slope: 0.0105

Pb ID: Standard 2 Seq. No.: 00157 A/S Pos.: 3 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.330  
Background Pk Area (A-s): 0.133  
Blank Corrected Pk Area (A-s): 0.328  
Concentration (ug/L ): 31.3

550

Time: 02:09  
Peak Height (A): 0.611  
Background Pk Height (A): 0.212

Replicate 2  
Peak Area (A-s): 0.328  
Background Pk Area (A-s): 0.135  
Blank Corrected Pk Area (A-s): 0.327  
Concentration (ug/L ): 31.2

Time: 02:12  
Peak Height (A): 0.617  
Background Pk Height (A): 0.210

Mean Conc (ug/L ): 31.3

SD: 0.09

RSD(%): 0.29

Standard number 2 applied. [50.0]

Correlation coefficient: 1.00000

Slope: 0.0109

Pb ID: Standard 3 Seq. No.: 00158 A/S Pos.: 4 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.542  
Background Pk Area (A-s): 0.215  
Blank Corrected Pk Area (A-s): 0.540  
Concentration (ug/L ): 145.4

5100

Time: 02:14  
Peak Height (A): 0.908  
Background Pk Height (A): 0.381

Replicate 2  
Peak Area (A-s): 0.540  
Background Pk Area (A-s): 0.213  
Blank Corrected Pk Area (A-s): 0.538  
Concentration (ug/L ): 143.5

Time: 02:17  
Peak Height (A): 0.891  
Background Pk Height (A): 0.370

Correlation coefficient: 1.00000

Slope: 0.0113

5100

Pb ID: ICV

Seq. No.: 00159

A/S Pos.: 5

Date: 02/02/93

1610

Replicate 1

Time: 02:20

Peak Area (A-s): 0.320

Peak Height (A): 0.592

Background Pk Area (A-s): 0.133

Background Pk Height (A): 0.202

Blank Corrected Pk Area (A-s): 0.318

Concentration (ug/L ): 48.1

Replicate 2

Time: 02:22

Peak Area (A-s): 0.317

Peak Height (A): 0.604

Background Pk Area (A-s): 0.132

Background Pk Height (A): 0.203

Blank Corrected Pk Area (A-s): 0.315

Concentration (ug/L ): 47.5

Mean Conc (ug/L ): 47.8

SD: 0.41

RSD(%): 0.85

QC sample is within range 45 - 55

Pb ID: ICB

Seq. No.: 00160

A/S Pos.: 1

Date: 02/02/93

Replicate 1

Time: 02:25

Peak Area (A-s): 0.003

Peak Height (A): 0.009

Background Pk Area (A-s): 0.036

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.1

Replicate 2

Time: 02:27

Peak Area (A-s): 0.002

Peak Height (A): 0.009

Background Pk Area (A-s): 0.036

Background Pk Height (A): 0.053

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): 0.0

Mean Conc (ug/L ): 0.1

SD: 0.06

RSD(%): 71.10

QC sample is within range

Pb ID: CRA

Seq. No.: 00161

A/S Pos.: 2

Date: 02/02/93

Replicate 1

Time: 02:30

Peak Area (A-s): 0.034

Peak Height (A): 0.069

Background Pk Area (A-s): 0.054

Background Pk Height (A): 0.054

Blank Corrected Pk Area (A-s): 0.032

Concentration (ug/L ): 3.1

Replicate 2

Time: 02:32

Peak Area (A-s): 0.033

Peak Height (A): 0.068

Background Pk Area (A-s): 0.055

Background Pk Height (A): 0.056

Blank Corrected Pk Area (A-s): 0.032

Concentration (ug/L ): 3.0

Mean Conc (ug/L ): 3.0

SD: 0.02

RSD(%): 0.77

Pb ID: CCV(50) Seq. No.: 00162 A/S Pos.: 37 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.319  
Background Pk Area (A-s): 0.135  
Blank Corrected Pk Area (A-s): 0.318  
Concentration (ug/L ): 48.0

Time: 02:35  
Peak Height (A): 0.597  
Background Pk Height (A): 0.210

1611

Replicate 2  
Peak Area (A-s): 0.319  
Background Pk Area (A-s): 0.135  
Blank Corrected Pk Area (A-s): 0.317  
Concentration (ug/L ): 47.9

Time: 02:38  
Peak Height (A): 0.604  
Background Pk Height (A): 0.206

Mean Conc (ug/L ): 48.0

SD: 0.07

RSD(%): 0.15

QC sample is within range 45 - 55

Pb ID: CCB Seq. No.: 00163 A/S Pos.: 38 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.038  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.2

Time: 02:40  
Peak Height (A): 0.010  
Background Pk Height (A): 0.057

Replicate 2  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.038  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.3

Time: 02:43  
Peak Height (A): 0.009  
Background Pk Height (A): 0.057

Mean Conc (ug/L ): 0.2

SD: 0.10

RSD(%): 43.65

QC sample is within range

Pb ID: F03641 Seq. No.: 00164 A/S Pos.: 6 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.135  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.3

Time: 02:46  
Peak Height (A): 0.011  
Background Pk Height (A): 0.167

Replicate 2  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.148  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.1

Time: 02:48  
Peak Height (A): 0.011  
Background Pk Height (A): 0.169

Mean Conc (ug/L ): 0.2

SD: 0.17

RSD(%): 94.14

Replicate 1  
Peak Area (A-s): 0.143  
Background Pk Area (A-s): 0.180  
Blank Corrected Pk Area (A-s): 0.141  
Concentration (ug/L ): 16.8

F03641A

Time: 02:51  
Peak Height (A): 0.234  
Background Pk Height (A): 0.151

1612

Replicate 2  
Peak Area (A-s): 0.142  
Background Pk Area (A-s): 0.188  
Blank Corrected Pk Area (A-s): 0.140  
Concentration (ug/L ): 16.6

Time: 02:54  
Peak Height (A): 0.244  
Background Pk Height (A): 0.165

Mean Conc (ug/L ): 16.7 SD: 0.14 RSD(%): 0.86

Recovery is 82.4% (outside of specified limits)

Pb ID: F03642 Seq. No.: 00166 A/S Pos.: 7 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.145  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.2

Time: 02:56  
Peak Height (A): 0.008  
Background Pk Height (A): 0.161

Replicate 2  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.155  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 0.4

Time: 02:59  
Peak Height (A): 0.009  
Background Pk Height (A): 0.161

Mean Conc (ug/L ): 0.3 SD: 0.10 RSD(%): 36.70

Pb ID: F03642 A Seq. No.: 00167 A/S Pos.: 7 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.140  
Background Pk Area (A-s): 0.179

Time: 03:02  
Peak Height (A): 0.252  
Background Pk Height (A): 0.167

Blank Corrected Pk Area (A-s): 0.138  
Concentration (ug/L ): 16.3

Replicate 2  
Peak Area (A-s): 0.137  
Background Pk Area (A-s): 0.177  
Blank Corrected Pk Area (A-s): 0.135  
Concentration (ug/L ): 15.9

Time: 03:04  
Peak Height (A): 0.251  
Background Pk Height (A): 0.171

Mean Conc (ug/L ): 16.1 SD: 0.28 RSD(%): 1.77

Recovery is 79.0% (outside of specified limits)

Pb ID: F03643 Seq. No.: 00168 A/S Pos.: 8 Date: 02/02/93

Concentration (ug/L ): 0.3

F03643

Replicate 2

Time: 03:10

Peak Area (A-s): 0.004

Peak Height (A): 0.010

1613

Background Pk Area (A-s): 0.141

Background Pk Height (A): 0.165

Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L ): 0.2

Mean Conc (ug/L ): 0.3

SD: 0.10

RSD(%): 38.16

Pb ID: F03643 A

Seq. No.: 00169

A/S Pos.: 8

Date: 02/02/93

Replicate 1

Time: 03:12

Peak Area (A-s): 0.141

Peak Height (A): 0.246

Background Pk Area (A-s): 0.179

Background Pk Height (A): 0.158

Blank Corrected Pk Area (A-s): 0.139

Concentration (ug/L ): 16.5

Replicate 2

Time: 03:15

Peak Area (A-s): 0.141

Peak Height (A): 0.246

Background Pk Area (A-s): 0.177

Background Pk Height (A): 0.159

Blank Corrected Pk Area (A-s): 0.140

Concentration (ug/L ): 16.5

Mean Conc (ug/L ): 16.5

SD: 0.04

RSD(%): 0.25

Recovery is 81.2% (outside of specified limits)

Pb ID: F03644

Seq. No.: 00170

A/S Pos.: 9

Date: 02/02/93

Replicate 1

Time: 03:18

Peak Area (A-s): 0.003

Peak Height (A): 0.010

Background Pk Area (A-s): 0.042

Background Pk Height (A): 0.047

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.1

Replicate 2

Time: 03:20

Peak Area (A-s): 0.005

Peak Height (A): 0.011

Background Pk Area (A-s): 0.042

Background Pk Height (A): 0.050

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): 0.2

Mean Conc (ug/L ): 0.2

SD: 0.12

RSD(%): 74.12

Pb ID: F03644 A

Seq. No.: 00171

A/S Pos.: 9

Date: 02/02/93

Replicate 1

Time: 03:23

Peak Area (A-s): 0.154

Peak Height (A): 0.314

Background Pk Area (A-s): 0.080

Background Pk Height (A): 0.096

Blank Corrected Pk Area (A-s): 0.152

Concentration (ug/L ): 18.4

Concentration (ug/L ): 17.2

F03644A

Mean Conc (ug/L ): 17.8

SD: 0.85

RSD(%): 4.80

1614

Recovery is 87.9%

Pb ID: F03646

Seq. No.: 00172

A/S Pos.: 10

Date: 02/02/93

Replicate 1

Time: 03:28

Peak Area (A-s): 0.004

Peak Height (A): 0.008

Background Pk Area (A-s): 0.199

Background Pk Height (A): 0.231

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L ): 0.2

Replicate 2

Time: 03:31

Peak Area (A-s): 0.005

Peak Height (A): 0.010

Background Pk Area (A-s): 0.200

Background Pk Height (A): 0.236

Blank Corrected Pk Area (A-s): 0.004

Concentration (ug/L ): 0.3

Mean Conc (ug/L ): 0.3

SD: 0.07

RSD(%): 23.18

Pb ID: F03646

Seq. No.: 00173

A/S Pos.: 10

Date: 02/02/93

Replicate 1

Time: 03:34

Peak Area (A-s): 0.128

Peak Height (A): 0.252

Background Pk Area (A-s): 0.237

Background Pk Height (A): 0.235

Blank Corrected Pk Area (A-s): 0.126

Concentration (ug/L ): 14.5

Replicate 2

Time: 03:37

Peak Area (A-s): 0.134

Peak Height (A): 0.251

Background Pk Area (A-s): 0.240

Background Pk Height (A): 0.237

Blank Corrected Pk Area (A-s): 0.132

Concentration (ug/L ): 15.5

Mean Conc (ug/L ): 15.0

SD: 0.65

RSD(%): 4.30

Recovery is 73.6% (outside of specified limits)

Pb ID: CCV(50)

Seq. No.: 00174

A/S Pos.: 37

Date: 02/02/93

Replicate 1

Time: 03:39

Peak Area (A-s): 0.345

Peak Height (A): 0.603

Background Pk Area (A-s): 0.151

Background Pk Height (A): 0.211

Blank Corrected Pk Area (A-s): 0.344

Concentration (ug/L ): 53.5

Replicate 2

Time: 03:42

Peak Area (A-s): 0.345

Peak Height (A): 0.603

Background Pk Area (A-s): 0.149

Background Pk Height (A): 0.202

Blank Corrected Pk Area (A-s): 0.344

Concentration (ug/L ): 53.4

CCV &gt; V

~~~~~  
Pb ID: CCB Seq. No.: 00175 A/S Pos.: 38 Date: 01/16/93

Replicate 1 Time: 03:44  
Peak Area (A-s): 0.006 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.057  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 0.4

Replicate 2 Time: 03:47  
Peak Area (A-s): 0.004 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.056  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.2

Mean Conc (ug/L ): 0.3 SD: 0.12 RSD(%): 35.56

QC sample is within range

~~~~~  
Pb ID: F03647 Seq. No.: 00176 A/S Pos.: 11 Date: 02/02/93

Replicate 1 Time: 03:50  
Peak Area (A-s): 0.005 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.051  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.3

Replicate 2 Time: 03:52  
Peak Area (A-s): 0.006 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.052  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 0.4

Mean Conc (ug/L ): 0.3 SD: 0.07 RSD(%): 22.50

*Handwritten signature*  
2/22

~~~~~  
Pb ID: F03647 Seq. No.: 00177 A/S Pos.: 11 Date: 02/02/93

Replicate 1 Time: 03:55  
Peak Area (A-s): 0.144 Peak Height (A): 0.283  
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.089  
Blank Corrected Pk Area (A-s): 0.142  
Concentration (ug/L ): 16.9

Replicate 2 Time: 03:58  
Peak Area (A-s): 0.139 Peak Height (A): 0.275  
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.087  
Blank Corrected Pk Area (A-s): 0.137  
Concentration (ug/L ): 16.1

Mean Conc (ug/L ): 16.5 SD: 0.54 RSD(%): 3.30

Pb ID: PBW Seq. No.: 00178 A/S Pos.: 12 Date: 02/02/93

Replicate 1 Time: 04:00  
Peak Area (A-s): 0.007 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.074 **1616**  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 0.5

Replicate 2 Time: 04:03  
Peak Area (A-s): 0.009 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.069  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.6

Mean Conc (ug/L ): 0.6 SD: 0.11 RSD(%): 19.21

~~~~~  
Pb ID: PBW **A** Seq. No.: 00179 A/S Pos.: 12 Date: 02/02/93

Replicate 1 Time: 04:05  
Peak Area (A-s): 0.145 Peak Height (A): 0.272  
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.086  
Blank Corrected Pk Area (A-s): 0.144  
Concentration (ug/L ): 17.1

Replicate 2 Time: 04:08  
Peak Area (A-s): 0.141 Peak Height (A): 0.270  
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.091  
Blank Corrected Pk Area (A-s): 0.139  
Concentration (ug/L ): 16.5

Mean Conc (ug/L ): 16.8 SD: 0.46 RSD(%): 2.72

Recovery is 81.1% (outside of specified limits)

~~~~~  
Pb ID: LCSW Seq. No.: 00180 A/S Pos.: 13 Date: 02/02/93

Replicate 1 Time: 04:11

Peak Area (A-s): 0.334 Peak Height (A): 0.567  
Background Pk Area (A-s): 0.140 Background Pk Height (A): 0.183  
Blank Corrected Pk Area (A-s): 0.332  
Concentration (ug/L ): 51.0

Replicate 2 Time: 04:13  
Peak Area (A-s): 0.342 Peak Height (A): 0.574  
Background Pk Area (A-s): 0.145 Background Pk Height (A): 0.185  
Blank Corrected Pk Area (A-s): 0.340  
Concentration (ug/L ): 52.6

Mean Conc (ug/L ): 51.8 SD: 1.18 RSD(%): 2.27

~~~~~  
Pb ID: LCSW **A** Seq. No.: 00181 A/S Pos.: 13 Date: 02/02/93

Concentration (ug/L ): 69.4

LCSWA

Replicate 2

Peak Area (A-s): 0.400

Background Pk Area (A-s): 0.172

Blank Corrected Pk Area (A-s): 0.399

Concentration (ug/L ): 65.6

Time: 04:18

Peak Height (A): 0.710

Background Pk Height (A): 0.247

1617

Mean Conc (ug/L ): 67.5

67.5

SD: 2.74

RSD(%): 4.06

Recovery is 78.4% (outside of specified limits)

Pb ID: J05601

Seq. No.: 00182

A/S Pos.: 14

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.205

Background Pk Area (A-s): 0.097

Blank Corrected Pk Area (A-s): 0.203

Concentration (ug/L ): 26.5

Time: 04:21

Peak Height (A): 0.433

Background Pk Height (A): 0.131

Replicate 2

Peak Area (A-s): 0.211

Background Pk Area (A-s): 0.098

Blank Corrected Pk Area (A-s): 0.209

Concentration (ug/L ): 27.5

Time: 04:23

Peak Height (A): 0.454

Background Pk Height (A): 0.136

Mean Conc (ug/L ): 27.0

27.0

SD: 0.70

RSD(%): 2.57

Pb ID: J05601 A

Seq. No.: 00182

A/S Pos.: 14

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.321

Background Pk Area (A-s): 0.143

Blank Corrected Pk Area (A-s): 0.319

Concentration (ug/L ): 48.3

Time: 04:26

Peak Height (A): 0.644

Background Pk Height (A): 0.219

Replicate 2

Time: 04:29

Peak Area (A-s): 0.307

Background Pk Area (A-s): 0.138

Blank Corrected Pk Area (A-s): 0.305

Concentration (ug/L ): 45.5

Peak Height (A): 0.606

Background Pk Height (A): 0.202

Mean Conc (ug/L ): 46.9

46.9

SD: 1.95

RSD(%): 4.16

Recovery is 99.2%

ID: PBS

Seq. No.: 00184

A/S Pos.: 15

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.006

Background Pk Area (A-s): 0.058

Blank Corrected Pk Area (A-s): 0.004

Time: 04:31

Peak Height (A): 0.015

Background Pk Height (A): 0.076

Background Pk Area (A-s): 0.056  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.5

Background Pk Height (A): 0.076

Mean Conc (ug/L ): 0.4

0.4

SD: 0.13

RSD(%): 29.05

1618

Pb ID: PBS A

Seq. No.: 00185

A/S Pos.: 15

Date: 02/02/93

Replicate 1

Time: 04:36

Peak Area (A-s): 0.123

Peak Height (A): 0.267

Background Pk Area (A-s): 0.091

Background Pk Height (A): 0.087

Blank Corrected Pk Area (A-s): 0.121

Concentration (ug/L ): 13.9

Replicate 2

Time: 04:39

Peak Area (A-s): 0.129

Peak Height (A): 0.256

Background Pk Area (A-s): 0.091

Background Pk Height (A): 0.084

Blank Corrected Pk Area (A-s): 0.127

Concentration (ug/L ): 14.8

Mean Conc (ug/L ): 14.3

14.3

SD: 0.63

RSD(%): 4.41

Recovery is 69.3% (outside of specified limits)

Pb ID: CCV(50)

Seq. No.: 00186

A/S Pos.: 37

Date: 02/02/93

Replicate 1

Time: 04:41

Peak Area (A-s): 0.347

Peak Height (A): 0.570

Background Pk Area (A-s): 0.151

Background Pk Height (A): 0.196

Blank Corrected Pk Area (A-s): 0.345

Concentration (ug/L ): 53.7

Replicate 2

Time: 04:44

Peak Area (A-s): 0.344

Peak Height (A): 0.577

Background Pk Area (A-s): 0.151

Background Pk Height (A): 0.196

Blank Corrected Pk Area (A-s): 0.342

Concentration (ug/L ): 53.1

Mean Conc (ug/L ): 53.4

53.4

SD: 0.43

RSD(%): 0.81

QC sample is within range 45 - 55

Pb ID: CCB

Seq. No.: 00187

A/S Pos.: 38

Date: 02/02/93

Replicate 1

Time: 04:47

Peak Area (A-s): 0.003

Peak Height (A): 0.011

Background Pk Area (A-s): 0.041

Background Pk Height (A): 0.063

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.1

Replicate 2

Time: 04:49

Peak Area (A-s): 0.005

Peak Height (A): 0.010

Background Pk Area (A-s): 0.043

Background Pk Height (A): 0.069

QC sample is within range

CCB

1619

Pb ID: LCSS X100 Seq. No.: 00188 A/S Pos.: 17 Date: 02/02/93

Replicate 1 Time: 04:52  
Peak Area (A-s): 0.101 Peak Height (A): 0.191  
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.066  
Blank Corrected Pk Area (A-s): 0.100  
Concentration (ug/L ): 11.0

Replicate 2 Time: 04:54  
Peak Area (A-s): 0.109 Peak Height (A): 0.211  
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.066  
Blank Corrected Pk Area (A-s): 0.107  
Concentration (ug/L ): 12.0

Mean Conc (ug/L ): 11.5 SD: 0.73 RSD(%): 6.38

Pb ID: LCSS A X100 Seq. No.: 00189 A/S Pos.: 17 Date: 02/02/93

Replicate 1 Time: 04:57  
Peak Area (A-s): 0.243 Peak Height (A): 0.440  
Background Pk Area (A-s): 0.125 Background Pk Height (A): 0.138  
Blank Corrected Pk Area (A-s): 0.242  
Concentration (ug/L ): 33.3

Replicate 2 Time: 05:00  
Peak Area (A-s): 0.230 Peak Height (A): 0.419  
Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.133  
Blank Corrected Pk Area (A-s): 0.229  
Concentration (ug/L ): 31.0

Mean Conc (ug/L ): 32.1 SD: 1.65 RSD(%): 5.12

Recovery is 103.1%

Pb ID: J04506 Seq. No.: 00190 A/S Pos.: 18 Date: 02/02/93

Replicate 1 Time: 05:02  
Peak Area (A-s): 0.582 Peak Height (A): 0.964  
Background Pk Area (A-s): 0.223 Background Pk Height (A): 0.398  
Blank Corrected Pk Area (A-s): 0.580  
Concentration (ug/L ): 111.0

Sample abs. is greater than that of the largest standard.

Replicate 2 Time: 05:05  
Peak Area (A-s): 0.605 Peak Height (A): 0.989  
Background Pk Area (A-s): 0.233 Background Pk Height (A): 0.415  
Blank Corrected Pk Area (A-s): 0.603  
Concentration (ug/L ): 117.3

Sample abs. is greater than that of the largest standard.

Replicate 1

Time: 05:07

Peak Area (A-s): 0.625

Peak Height (A): 0.995

Background Pk Area (A-s): 0.254

Background Pk Height (A): 0.441

Blank Corrected Pk Area (A-s): 0.623

Concentration (ug/L ): 122.7

1620

Sample abs. is greater than that of the largest standard.

Replicate 2

Time: 05:10

Peak Area (A-s): 0.615

Peak Height (A): 0.981

Background Pk Area (A-s): 0.250

Background Pk Height (A): 0.430

Blank Corrected Pk Area (A-s): 0.614

Concentration (ug/L ): 120.2

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 121.5

SD: 1.77

RSD(%): 1.45

Recovery is 36.9% (outside of specified limits)

Pb ID: J04507

Seq. No.: 00192

A/S Pos.: 19

Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Time: 05:12

Peak Area (A-s): 1.154

Peak Height (A): 1.283

Background Pk Area (A-s): 0.770

Background Pk Height (A): 1.430

Blank Corrected Pk Area (A-s): 1.152

Concentration (ug/L ): 293.7

Sample abs. is greater than that of the largest standard.

Replicate 2

Time: 05:15

Peak Area (A-s): 1.108

Peak Height (A): 1.340

Background Pk Area (A-s): 0.799

Background Pk Height (A): 1.563

Blank Corrected Pk Area (A-s): 1.106

Concentration (ug/L ): 277.3

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 285.5

SD: 11.58

RSD(%): 4.06

Pb ID: J04507 A

Seq. No.: 00193

A/S Pos.: 19

Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Time: 05:17

Peak Area (A-s): 1.190

Peak Height (A): 1.308

Background Pk Area (A-s): 0.758

Background Pk Height (A): 1.399

Blank Corrected Pk Area (A-s): 1.189

Concentration (ug/L ): 306.9

Sample abs. is greater than that of the largest standard.

Replicate 2

Time: 05:20

Peak Area (A-s): 1.196

Peak Height (A): 1.259

Background Pk Area (A-s): 0.768

Background Pk Height (A): 1.383

Blank Corrected Pk Area (A-s): 1.194

Concentration (ug/L ): 309.0

Recovery is 112.5%

J 04507A

1621

Pb ID: J04508

Seq. No.: 00194

A/S Pos.: 20

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.027  
Background Pk Area (A-s): 0.049  
Blank Corrected Pk Area (A-s): 0.025  
Concentration (ug/L ): 2.4

Time: 05:23  
Peak Height (A): 0.045  
Background Pk Height (A): 0.056

Replicate 2  
Peak Area (A-s): 0.025  
Background Pk Area (A-s): 0.061  
Blank Corrected Pk Area (A-s): 0.023  
Concentration (ug/L ): 2.2

Time: 05:25  
Peak Height (A): 0.048  
Background Pk Height (A): 0.076

Mean Conc (ug/L ): 2.3 SD: 0.13 RSD(%): 5.52

Pb ID: J04508 A

Seq. No.: 00195

A/S Pos.: 20

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.137  
Background Pk Area (A-s): 0.095  
Blank Corrected Pk Area (A-s): 0.136  
Concentration (ug/L ): 15.9

Time: 05:28  
Peak Height (A): 0.280  
Background Pk Height (A): 0.089

Replicate 2  
Peak Area (A-s): 0.144  
Background Pk Area (A-s): 0.094  
Blank Corrected Pk Area (A-s): 0.143  
Concentration (ug/L ): 17.0

Time: 05:30  
Peak Height (A): 0.288  
Background Pk Height (A): 0.091

Mean Conc (ug/L ): 16.5 SD: 0.71 RSD(%): 4.32

Recovery is 70.9% (outside of specified limits)

Pb ID: CCV(50)

Seq. No.: 00196

A/S Pos.: 37

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.345  
Background Pk Area (A-s): 0.146  
Blank Corrected Pk Area (A-s): 0.344  
Concentration (ug/L ): 53.4

Time: 05:33  
Peak Height (A): 0.560  
Background Pk Height (A): 0.187

Replicate 2  
Peak Area (A-s): 0.347  
Background Pk Area (A-s): 0.145  
Blank Corrected Pk Area (A-s): 0.346  
Concentration (ug/L ): 53.9

Time: 05:35  
Peak Height (A): 0.573  
Background Pk Height (A): 0.196

Mean Conc (ug/L ): 53.7 SD: 0.32 RSD(%): 0.60

Pb ID: C08

Seq. No.: 00197

A/S Pos.: 38

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.005

Background Pk Area (A-s): 0.038

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L): 0.3

Time: 05:38

Peak Height (A): 0.011

Background Pk Height (A): 0.061

1622

Replicate 2

Peak Area (A-s): 0.005

Background Pk Area (A-s): 0.035

Blank Corrected Pk Area (A-s): 0.003

Concentration (ug/L): 0.3

Time: 05:41

Peak Height (A): 0.008

Background Pk Height (A): 0.057

Mean Conc (ug/L): 0.3

SD: 0.03

RSD(%): 12.31

QC sample is within range

Std. Prepped Date: \_\_/\_\_/\_\_

Start Run Time : \_\_\_\_\_

IEA Laboratories  
200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 452-8200

Date: \_\_/\_\_/\_\_

page \_\_ of \_\_

FURNACE DATA SHEET

Element: As I.D. Wt. File: \_\_\_\_\_ Instrument \_\_\_\_\_ Analyst \_\_\_\_\_

=====

| ! Cup | ! Sample ID | ! % Sol. | ! Wt. V/Vol | ! Factor | ! Recovery | ! % Recovery | ! Flags | ! Value ug/L, :<br>mg/kg |
|-------|-------------|----------|-------------|----------|------------|--------------|---------|--------------------------|
|-------|-------------|----------|-------------|----------|------------|--------------|---------|--------------------------|

=====

Std. Prepped Date: 2/1/93/0830 IEA Laboratories  
 200 Monroe Turnpike  
 Start Run Time : 0317 Monroe, Connecticut 06468  
 (203) 261-4458

Date: 2/2/93  
 page 1 of 1

1623

FURNACE DATA SHEET

Element: Pb I.D. Wt. File: J060 Instrument 5100N Analyst Jeff Noe

| Cup | Sample ID | % Sol. | Wt.V/Vol | Factor | Recovery | %Recovery | Flags | Value ug/L,<br>mg/kg |
|-----|-----------|--------|----------|--------|----------|-----------|-------|----------------------|
| 5   | ICV       |        |          |        | 50.1     | 100.2     |       | 50.1                 |
| 1   | ICB       |        |          |        | -0.1     |           |       | 1.0 U                |
| 2   | CRA       |        |          |        | 3.2      | 106.7     |       | 3.2                  |
| 37  | CCV(50)   |        |          |        | 47.4     | 94.8      |       | 47.4                 |
| 38  | CCB       |        |          |        | -0.1     |           |       | 1.0 U                |
| 6   | J06006    | 100.0  | 100/100  |        | 0.3      |           |       | 1.0 U                |
| 6   | J06006A   | 100.0  | 100/100  |        | 16.3     | 81.5      | W     |                      |
| 7   | J06001    | 87.6   | 1.15/200 |        | 270.6    |           |       | 0/C                  |
| 7   | J06001A   | 87.6   | 1.15/200 |        | 275.8    | 26.0      |       | 0/C                  |
| 8   | J06002    | 86.7   | 1.29/200 |        | 408.5    |           |       | 0/C                  |
| 8   | J06002A   | 86.7   | 1.29/200 |        | 409.1    | 3.0       |       | 0/C                  |
| 9   | J06002D   | 86.7   | 1.11/200 |        | 384.3    |           |       | 0/C                  |
| 9   | J06002DA  | 86.7   | 1.11/200 |        | 386.8    | 12.5      |       | 0/C                  |
| 10  | J06002S   | 86.7   | 1.17/200 |        | 415.7    | 226.0     |       | 0/C                  |
| +   | J06002SA  | 86.7   | 1.17/200 |        | 421.9    | 31.0      |       | 0/C                  |
| 37  | CCV(50)   |        |          |        | 51.1     | 102.2     |       | 51.1                 |
| 38  | CCB       |        |          |        | 0.2      |           |       | 1.0 U                |
| 11  | J06003    | 84.7   | 1.06/200 |        | 678.1    |           |       | 0/C                  |
| 11  | J06003A   | 84.7   | 1.06/200 |        | 708.1    | 150.0     |       | 0/C                  |
| 12  | J06004    | 86.2   | 1.15/200 |        | 456.8    |           |       | 0/C                  |
| 12  | J06004A   | 86.2   | 1.15/200 |        | 481.5    | 123.5     |       | 0/C                  |
| 13  | J06401    | 78.8   | 1.25/200 |        | 34.2     |           |       | 8.9                  |
| 13  | J06401A   | 78.8   | 1.25/200 |        | 47.9     | 68.5      | MSA   |                      |
| 14  | J06401D   | 78.8   | 1.34/200 |        | 37.1     |           |       | 7.1                  |
| 14  | J06401DA  | 77.5   | 1.34/200 |        | 53.9     | 84.0      | MSA   |                      |
| 15  | J06401S   | 78.8   | 1.29/200 |        | 59.4     | 122.2     |       | 11.8                 |
| 15  | J06401SA  | 78.1   | 1.29/200 |        | 72.5     | 65.5      | N     |                      |
| 37  | CCV(50)   |        |          |        | 52.1     | 104.2     |       | 52.1                 |
| 38  | CCB       |        |          |        | 0.1      |           |       | 1.0 U                |

FIELD BLANK

S-99 dil 1:20  
 S-100 <sup>2/22</sup>  
 Use ICAP  
 DATA dil 1:50  
 S-100  
 S-100  
 Jeff Noe 2/2/93

S-101 dil 1:100  
 Use ICAP  
 DATA dil 1:100  
 S-102 <sup>2/22</sup>

Cancelled  
 Jeff Noe  
 2/2/93

-----  
Element File: PBAUTSPK.GEL      Element: Pb      Wavelength: 283.3  
Date: 02/02/93      Time: 03:17      Slit: 0.70 L  
Data File: JO60.DAT      ID/Wt File: JO60.IDW      Lamp Current: 10  
Technique: HGA      Calib. Type: Nonlinear      Energy: 58  
-----

1624

~~~~~  
Pb      ID: Calib. Blank      Seq. No.: 00123      A/S Pos.: 1      Date: 02/02/93

Replicate 1      *S0*      Time: 03:17  
Peak Area (A-s): -0.002      Peak Height (A): 0.008  
Background Pk Area (A-s): 0.053      Background Pk Height (A): 0.094  
Blank Corrected Pk Area (A-s): -0.002

Replicate 2      Time: 03:19  
Peak Area (A-s): 0.003      Peak Height (A): 0.008  
Background Pk Area (A-s): 0.056      Background Pk Height (A): 0.110  
Blank Corrected Pk Area (A-s): 0.003

Mean Pk Area (A-s):      0.001      SD: 0.0035      RSD(%): 376.79

Auto-zero performed.

~~~~~  
Pb      ID: Standard 1      Seq. No.: 00124      A/S Pos.: 2      Date: 02/02/93

Replicate 1      *S3*      Time: 03:22  
Peak Area (A-s): 0.036      Peak Height (A): 0.070  
Background Pk Area (A-s): 0.067      Background Pk Height (A): 0.097  
Blank Corrected Pk Area (A-s): 0.035

Replicate 2      Time: 03:25  
Peak Area (A-s): 0.034      Peak Height (A): 0.071  
Background Pk Area (A-s): 0.062      Background Pk Height (A): 0.092  
Blank Corrected Pk Area (A-s): 0.033

Mean Pk Area (A-s):      0.034      SD: 0.0010      RSD(%): 2.96

Standard number 1 applied. [3.0]  
Correlation coefficient: 1.00000      Slope: 0.0114

~~~~~  
Pb      ID: Standard 2      Seq. No.: 00125      A/S Pos.: 3      Date: 02/02/93

Replicate 1      *S50*      Time: 03:27  
Peak Area (A-s): 0.390      Peak Height (A): 0.659  
Background Pk Area (A-s): 0.153      Background Pk Height (A): 0.208  
Blank Corrected Pk Area (A-s): 0.389  
Concentration (ug/L ): 34.1

Replicate 2      Time: 03:30  
Peak Area (A-s): 0.375      Peak Height (A): 0.675  
Background Pk Area (A-s): 0.152      Background Pk Height (A): 0.208  
Blank Corrected Pk Area (A-s): 0.374  
Concentration (ug/L ): 32.9

Mean Conc (ug/L ):      33.5      SD: 0.88      RSD(%): 2.63

Standard number 2 applied. [50.0]

Correlation coefficient: 1.00000

Slope: 0.0118 S50

Pb ID: Standard 3

Seq. No.: 00126

A/S Pos.: 4

Date: 02/02/93

Replicate 1

S100

Time: 03:33

1625

Peak Area (A-s): 0.647

Peak Height (A): 0.986

Background Pk Area (A-s): 0.243

Background Pk Height (A): 0.376

Blank Corrected Pk Area (A-s): 0.646

Concentration (ug/L ): 135.7

Replicate 2

Time: 03:36

Peak Area (A-s): 0.651

Peak Height (A): 1.002

Background Pk Area (A-s): 0.247

Background Pk Height (A): 0.376

Blank Corrected Pk Area (A-s): 0.650

Concentration (ug/L ): 137.7

Mean Conc (ug/L ): 136.7

SD: 1.37

RSD(%): 1.00

Standard number 3 applied. [100.0]

Correlation coefficient: 1.00000

Slope: 0.0121

Pb ID: ICV

Seq. No.: 00127

A/S Pos.: 5

Date: 02/02/93

Replicate 1

Time: 03:38

Peak Area (A-s): 0.385

Peak Height (A): 0.690

Background Pk Area (A-s): 0.159

Background Pk Height (A): 0.214

Blank Corrected Pk Area (A-s): 0.384

Concentration (ug/L ): 50.5

Replicate 2

Time: 03:41

Peak Area (A-s): 0.381

Peak Height (A): 0.690

Background Pk Area (A-s): 0.160

Background Pk Height (A): 0.216

Blank Corrected Pk Area (A-s): 0.380

Concentration (ug/L ): 49.8

Mean Conc (ug/L ): 50.1

SD: 0.48

RSD(%): 0.96

QC sample is within range 45 - 55

Pb ID: ICB

Seq. No.: 00128

A/S Pos.: 1

Date: 02/02/93

Replicate 1

Time: 03:44

Peak Area (A-s): -0.001

Peak Height (A): 0.007

Background Pk Area (A-s): 0.052

Background Pk Height (A): 0.104

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -0.1

Replicate 2

Time: 03:47

Peak Area (A-s): 0.001

Peak Height (A): 0.008

Background Pk Area (A-s): 0.049

Background Pk Height (A): 0.104

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): 0.0

Mean Conc (ug/L ): -0.1

SD: 0.11

RSD(%): 188.53

QC sample is within range

~~~~~  
Pb ID: CRA Seq. No.: 00129 A/S Pos.: 2 Date: 02/02/93

Replicate 1 Time: 03:49  
Peak Area (A-s): 0.038 Peak Height (A): 0.072  
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.107 **1626**  
Blank Corrected Pk Area (A-s): 0.037  
Concentration (ug/L ): 3.2

Replicate 2 Time: 03:52  
Peak Area (A-s): 0.037 Peak Height (A): 0.073  
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.102  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 3.2

Mean Conc (ug/L ): 3.2 SD: 0.04 RSD(%): 1.21

QC sample is within range

~~~~~  
Pb ID: CCV(50) Seq. No.: 00130 A/S Pos.: 37 Date: 02/02/93

Replicate 1 Time: 03:55  
Peak Area (A-s): 0.370 Peak Height (A): 0.649  
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.202  
Blank Corrected Pk Area (A-s): 0.369  
Concentration (ug/L ): 47.9

Replicate 2 Time: 03:57  
Peak Area (A-s): 0.364 Peak Height (A): 0.649  
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.194  
Blank Corrected Pk Area (A-s): 0.363  
Concentration (ug/L ): 46.9

Mean Conc (ug/L ): 47.4 SD: 0.70 RSD(%): 1.48

QC sample is within range 45 - 55

~~~~~  
Pb ID: CCB Seq. No.: 00131 A/S Pos.: 38 Date: 02/02/93

Replicate 1 Time: 04:00  
Peak Area (A-s): -0.002 Peak Height (A): 0.006  
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.110  
Blank Corrected Pk Area (A-s): -0.003  
Concentration (ug/L ): -0.2

Replicate 2 Time: 04:03  
Peak Area (A-s): 0.002 Peak Height (A): 0.008  
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.110  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.1

Mean Conc (ug/L ): -0.1 SD: 0.25 RSD(%): 414.51

QC sample is within range

~~~~~  
Pb ID: J06006 Seq. No.: 00132 A/S Pos.: 6 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.053  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.2  
Time: 04:06  
Peak Height (A): 0.012  
Background Pk Height (A): 0.097 1627

FIELD BLANK

Replicate 2  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.052  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.3  
Time: 04:08  
Peak Height (A): 0.012  
Background Pk Height (A): 0.090

Mean Conc (ug/L ): 0.3 SD: 0.03 RSD(%): 11.60

~~~~~  
Pb ID: J06006 A Seq. No.: 00133 A/S Pos.: 6 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.155  
Background Pk Area (A-s): 0.094  
Blank Corrected Pk Area (A-s): 0.154  
Concentration (ug/L ): 16.2  
Time: 04:11  
Peak Height (A): 0.314  
Background Pk Height (A): 0.100

Replicate 2  
Peak Area (A-s): 0.158  
Background Pk Area (A-s): 0.096  
Blank Corrected Pk Area (A-s): 0.157  
Concentration (ug/L ): 16.5  
Time: 04:14  
Peak Height (A): 0.321  
Background Pk Height (A): 0.098

Mean Conc (ug/L ): 16.3 SD: 0.24 RSD(%): 1.45

Recovery is 80.4% (outside of specified limits)

~~~~~  
Pb ID: J06001 S-99 Seq. No.: 00134 A/S Pos.: 7 Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1  
Peak Area (A-s): 1.373  
Background Pk Area (A-s): 0.657  
Blank Corrected Pk Area (A-s): 1.372  
Concentration (ug/L ): 267.3  
Time: 04:17  
Peak Height (A): 1.540  
Background Pk Height (A): 0.887

Sample abs. is greater than that of the largest standard.

Replicate 2  
Peak Area (A-s): 1.399  
Background Pk Area (A-s): 0.666  
Blank Corrected Pk Area (A-s): 1.398  
Concentration (ug/L ): 273.9  
Time: 04:20  
Peak Height (A): 1.500  
Background Pk Height (A): 0.845

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 270.6 SD: 4.68 RSD(%): 1.73

~~~~~  
Pb ID: J06001 A Seq. No.: 00135 A/S Pos.: 7 Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Time: 04:23

Peak Area (A-s): 1.422

Peak Height (A): 1.591

Background Pk Area (A-s): 0.673

Background Pk Height (A): 0.872

Blank Corrected Pk Area (A-s): 1.421

Concentration (ug/L ): 279.6

J06001A

1628

Sample abs. is greater than that of the largest standard.

Replicate 2

Time: 04:25

Peak Area (A-s): 1.392

Peak Height (A): 1.493

Background Pk Area (A-s): 0.653

Background Pk Height (A): 0.851

Blank Corrected Pk Area (A-s): 1.391

Concentration (ug/L ): 272.1

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 275.8

SD: 5.27

RSD(%): 1.91

Recovery is 26.2% (outside of specified limits)

Pb ID: J06002

S-100

Seq. No.: 00136

A/S Pos.: 8

Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Time: 04:28

Peak Area (A-s): 1.918

Peak Height (A): 1.598

Background Pk Area (A-s): 1.834

Background Pk Height (A): 2.194

Blank Corrected Pk Area (A-s): 1.917

Concentration (ug/L ): 409.6

Sample abs. is greater than that of the largest standard.

Replicate 2

Time: 04:31

Peak Area (A-s): 1.910

Peak Height (A): 1.623

Background Pk Area (A-s): 1.795

Background Pk Height (A): 2.191

Blank Corrected Pk Area (A-s): 1.909

Concentration (ug/L ): 407.4

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 408.5

SD: 1.60

RSD(%): 0.39

Pb ID: J06002 A

Seq. No.: 00137

A/S Pos.: 8

Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Time: 04:34

Peak Area (A-s): 1.902

Peak Height (A): 1.510

Background Pk Area (A-s): 1.767

Background Pk Height (A): 2.170

Blank Corrected Pk Area (A-s): 1.902

Concentration (ug/L ): 405.4

Sample abs. is greater than that of the largest standard.

Replicate 2

Time: 04:37

Peak Area (A-s): 1.931

Peak Height (A): 1.566

Background Pk Area (A-s): 1.729

Background Pk Height (A): 2.135

Blank Corrected Pk Area (A-s): 1.930

Concentration (ug/L ): 412.9

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 409.1

SD: 5.34

RSD(%): 1.31

Concentration (ug/L ): 0.2

CCB

Mean Conc (ug/L ): 0.2

0.2

SD: 0.11

RSD(%): 16.318

QC sample is within range

Pb ID: J06003

S-101

Seq. No.: 00144

A/S Pos.: 11

Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Peak Area (A-s): 2.915

Time: 05:13

Background Pk Area (A-s): 3.755

Peak Height (A): 1.631

Blank Corrected Pk Area (A-s): 2.914

Background Pk Height (A): 2.401

Concentration (ug/L ): 686.8

Sample abs. is greater than that of the largest standard.

Replicate 2

Peak Area (A-s): 2.853

Time: 05:16

Background Pk Area (A-s): 3.802

Peak Height (A): 1.511

Blank Corrected Pk Area (A-s): 2.853

Background Pk Height (A): 2.388

Concentration (ug/L ): 669.4

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 678.1

SD: 12.34

RSD(%): 1.82

Pb ID: J06003 A

Seq. No.: 00145

A/S Pos.: 11

Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Peak Area (A-s): 2.996

Time: 05:19

Background Pk Area (A-s): 3.633

Peak Height (A): 1.650

Blank Corrected Pk Area (A-s): 2.995

Background Pk Height (A): 2.427

Concentration (ug/L ): 710.1

Sample abs. is greater than that of the largest standard.

Replicate 2

Peak Area (A-s): 2.982

Time: 05:21

Background Pk Area (A-s): 3.654

Peak Height (A): 1.624

Blank Corrected Pk Area (A-s): 2.981

Background Pk Height (A): 2.394

Concentration (ug/L ): 706.1

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 708.1

SD: 2.87

RSD(%): 0.40

Recovery is 150.0% (outside of specified limits)

Pb ID: J06004

S102

Seq. No.: 00146

A/S Pos.: 12

Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1

Peak Area (A-s): 2.109

Time: 05:24

Background Pk Area (A-s): 2.282

Peak Height (A): 1.512

Blank Corrected Pk Area (A-s): 2.108

Background Pk Height (A): 2.326

Concentration (ug/L ): 461.3

Sample abs. is greater than that of the largest standard.

Replicate 2  
Peak Area (A-s): 2.076  
Background Pk Area (A-s): 2.282  
Blank Corrected Pk Area (A-s): 2.075  
Concentration (ug/L ): 452.2

J06004

Time: 05:27  
Peak Height (A): 1.583  
Background Pk Height (A): 2.339 1632

S-102

Sample abs. is greater than that of the largest standard.  
Mean Conc (ug/L ): 456.8  
SD: 6.43

RSD(%): 1.41

Pb ID: J06004A

Seq. No.: 00147

A/S Pos.: 12

Date: 02/02/93

Sample abs. is greater than that of the largest standard. ...

Replicate 1  
Peak Area (A-s): 2.158  
Background Pk Area (A-s): 2.202  
Blank Corrected Pk Area (A-s): 2.157  
Concentration (ug/L ): 474.7

Time: 05:30  
Peak Height (A): 1.482  
Background Pk Height (A): 2.358

Sample abs. is greater than that of the largest standard.

Replicate 2  
Peak Area (A-s): 2.208  
Background Pk Area (A-s): 2.197  
Blank Corrected Pk Area (A-s): 2.207  
Concentration (ug/L ): 488.3

Time: 05:33  
Peak Height (A): 1.583  
Background Pk Height (A): 2.313

Sample abs. is greater than that of the largest standard.  
Mean Conc (ug/L ): 481.5  
SD: 9.66

RSD(%): 2.01

Recovery is 123.6% (outside of specified limits)

~~Pb ID: J06401~~

~~Seq. No.: 00148~~

~~A/S Pos.: 13~~

~~Date: 02/02/93~~

~~Replicate 1  
Peak Area (A-s): 0.294  
Background Pk Area (A-s): 0.193  
Blank Corrected Pk Area (A-s): 0.293  
Concentration (ug/L ): 35.6~~

~~Time: 05:35  
Peak Height (A): 0.462  
Background Pk Height (A): 0.165~~

~~Replicate 2  
Peak Area (A-s): 0.276  
Background Pk Area (A-s): 0.188  
Blank Corrected Pk Area (A-s): 0.275  
Concentration (ug/L ): 32.9~~

~~Time: 05:38  
Peak Height (A): 0.429  
Background Pk Height (A): 0.168~~

~~Mean Conc (ug/L ): 34.2~~

~~SD: 1.91~~

~~RSD(%): 5.57~~

~~Pb ID: J06401~~

~~Seq. No.: 00149~~

~~A/S Pos.: 13~~

~~Date: 02/02/93~~

~~Replicate 1  
Peak Area (A-s): 0.368  
Background Pk Area (A-s): 0.207  
Blank Corrected Pk Area (A-s): 0.367  
Concentration (ug/L ): 47.5~~

~~Time: 05:41  
Peak Height (A): 0.564  
Background Pk Height (A): 0.173~~

~~Replicate 2  
Peak Area (A-s): 0.372~~

~~Time: 05:43  
Peak Height (A): 0.577~~

Jeff Noe 2/2/93

Background Pk Area (A-s): 0.212 Background Pk Height (A): 0.175  
Blank Corrected Pk Area (A-s): 0.371  
Concentration (ug/L ): 48.2

Mean Conc (ug/L ): 47.9 SD: 0.46 RSD(%): 0.1633

Recovery is 68.1% (outside of specified limits)

Pb ID: J06401D Seq. No.: 00150 A/S Pos.: 14 Date: 02/02/93

Replicate 1 Time: 05:46  
Peak Area (A-s): 0.302 Peak Height (A): 0.471  
Background Pk Area (A-s): 0.203 Background Pk Height (A): 0.170  
Blank Corrected Pk Area (A-s): 0.301  
Concentration (ug/L ): 36.9

Replicate 2 Time: 05:48  
Peak Area (A-s): 0.304 Peak Height (A): 0.476  
Background Pk Area (A-s): 0.199 Background Pk Height (A): 0.164  
Blank Corrected Pk Area (A-s): 0.303  
Concentration (ug/L ): 37.3

Mean Conc (ug/L ): 37.1 SD: 0.27 RSD(%): 0.73

Pb ID: J06401D Seq. No.: 00151 A/S Pos.: 14 Date: 02/02/93

Replicate 1 Time: 05:51  
Peak Area (A-s): 0.403 Peak Height (A): 0.612  
Background Pk Area (A-s): 0.219 Background Pk Height (A): 0.182  
Blank Corrected Pk Area (A-s): 0.402  
Concentration (ug/L ): 53.6

Replicate 2 Time: 05:54  
Peak Area (A-s): 0.407 Peak Height (A): 0.612  
Background Pk Area (A-s): 0.221 Background Pk Height (A): 0.184  
Blank Corrected Pk Area (A-s): 0.406  
Concentration (ug/L ): 54.2

Mean Conc (ug/L ): 53.9 SD: 0.46 RSD(%): 0.86

Recovery is 84.1% (outside of specified limits)

Pb ID: J06401S Seq. No.: 00152 A/S Pos.: 15 Date: 02/02/93

Replicate 1 Time: 05:57  
Peak Area (A-s): 0.434 Peak Height (A): 0.644  
Background Pk Area (A-s): 0.227 Background Pk Height (A): 0.198  
Blank Corrected Pk Area (A-s): 0.433  
Concentration (ug/L ): 59.0

Replicate 2 Time: 05:59  
Peak Area (A-s): 0.439 Peak Height (A): 0.657  
Background Pk Area (A-s): 0.236 Background Pk Height (A): 0.206  
Blank Corrected Pk Area (A-s): 0.438  
Concentration (ug/L ): 59.9

Mean Conc (ug/L ): 59.4 SD: 0.63 RSD(%): 1.05

Pb ID: J06401S Seq. No.: 00153 A/S Pos.: 15 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.507  
Background Pk Area (A-s): 0.246  
Blank Corrected Pk Area (A-s): 0.506  
Concentration (ug/L ): 72.2

Time: 06:02  
Peak Height (A): 0.731  
Background Pk Height (A): 0.229

Replicate 2  
Peak Area (A-s): 0.510  
Background Pk Area (A-s): 0.253  
Blank Corrected Pk Area (A-s): 0.509  
Concentration (ug/L ): 72.9

Time: 06:05  
Peak Height (A): 0.747  
Background Pk Height (A): 0.235

Mean Conc (ug/L ): 72.5 SD: 0.45 RSD(%): 0.62

~~Recovery is 65.7% (outside of specified limits)~~

Pb ID: CCV(50) Seq. No.: 00154 A/S Pos.: 37 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.395  
Background Pk Area (A-s): 0.166  
Blank Corrected Pk Area (A-s): 0.394  
Concentration (ug/L ): 52.1

Time: 06:08  
Peak Height (A): 0.667  
Background Pk Height (A): 0.213

Replicate 2  
Peak Area (A-s): 0.395  
Background Pk Area (A-s): 0.169  
Blank Corrected Pk Area (A-s): 0.394  
Concentration (ug/L ): 52.2

Time: 06:10  
Peak Height (A): 0.685  
Background Pk Height (A): 0.223

Mean Conc (ug/L ): 52.1 SD: 0.07 RSD(%): 0.13

QC sample is within range 45 - 55

Pb ID: CCB Seq. No.: 00155 A/S Pos.: 38 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.067  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): 0.2

Time: 06:13  
Peak Height (A): 0.008  
Background Pk Height (A): 0.117

Replicate 2  
Peak Area (A-s): 0.001  
Background Pk Area (A-s): 0.066  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): 0.0

Time: 06:16  
Peak Height (A): 0.012  
Background Pk Height (A): 0.111

Mean Conc (ug/L ): 0.1 SD: 0.12 RSD(%): 125.52

QC sample is within range

Std. Prepped Date: 2/2/93 IEA Laboratories  
 200 Monroe Turnpike  
 Start Run Time : 1011 Monroe, Connecticut 06468  
 (203) 261-4458

Date: 2/2/93

page 1 of 1

FURNACE DATA SHEET

Element: As I.D. Wt. File: AS020293 Instrument 5100N Analyst Y/H Mc

1635

| Cup | Sample ID               | % Sol. | Wt.V/Vol | Dil Factor | Sample Recovery | % Recovery | Flags | Value ug/L,<br>mg/kg |
|-----|-------------------------|--------|----------|------------|-----------------|------------|-------|----------------------|
| 5   | ICV                     |        |          |            | 52.4            | 104.8      |       | 52.4                 |
| 1   | ICB                     |        |          |            | -0.1            |            |       | 1.0 U                |
| 2   | CRA                     |        |          |            | 10.4            | 104.0      |       | 10.4                 |
| 37  | CCV(50)                 |        |          |            | 52.2            | 104.4      |       | 52.2                 |
| 38  | CCB                     |        |          |            | 0.3             |            |       | 1.0 U                |
| 6   | PBS <sup>0045, 60</sup> | 100.0  | 1.00/200 |            | -0.5            |            |       | 0.20 U               |
| 7   | PBSA <sup>64, 70</sup>  | 100.0  | 1.00/200 |            | 19.4            | 97.0       |       |                      |
| 8   | J06006                  | 100.0  | 100/100  |            | -0.3            |            |       | 1.0 U FIELD BLANK    |
| 9   | J06006A                 | 100.0  | 100/100  |            | 20.6            | 103.0      |       |                      |
| 10  | J06001                  | 87.6   | 1.15/200 |            | 80.3            |            |       | 15.9 S-99            |
| 11  | J06001A                 | 87.6   | 1.15/200 |            | 96.8            | 82.5       | MSA   | 7.7 S-100            |
| 12  | J06002                  | 86.7   | 1.29/200 |            | 43.3            |            |       |                      |
| 13  | J06002A                 | 86.7   | 1.29/200 |            | 61.2            | 89.5       |       | 7.0 S-100            |
| 14  | J06002D                 | 86.7   | 1.11/200 |            | 33.6            |            |       |                      |
| 15  | 8002DA                  | 86.7   | 1.11/200 |            | 52.6            | 95.0       |       |                      |
| 37  | CCV(50)                 |        |          |            | 51.6            | 103.2      |       | 51.6                 |
| 38  | CCB                     |        |          |            | 0.4             |            |       | 1.0 U                |
| 16  | J06002S                 | 86.7   | 1.17/200 |            | 66.8            | 68.9       | N     | 13.2 S-100           |
| 17  | J06003                  | 84.7   | 1.06/200 |            | 104.5           |            |       | O/C 1/5 Ditt'n S-101 |
| 18  | J06003A                 | 84.7   | 1.06/200 |            | 123.8           | 96.5       |       | O/C dil 1:4 2/22     |
| 19  | J06004                  | 86.2   | 1.15/200 |            | 93.9            |            |       | O/C 1/5 Ditt'n S-102 |
| 20  | J06004A                 | 86.2   | 1.15/200 |            | 106.0           | 60.5       |       | O/C dil 1:4          |
| 21  | J06401                  | 78.8   | 1.25/200 |            | 8.0             |            |       | 1.6 B                |
| 22  | J06401A                 | 78.8   | 1.25/200 |            | 24.9            | 84.5       | N     |                      |
| 23  | J06401D                 | 78.8   | 1.34/200 |            | 8.6             |            |       | 1.6 B                |
| 24  | J06401DA                | 78.8   | 1.34/200 |            | 25.5            | 84.5       | MSA   |                      |
| 25  | J06401S                 | 78.8   | 1.29/200 |            | 42.2            | 84.9       |       | 8.9                  |
| 37  | CCV(50)                 |        |          |            | 50.8            | 101.6      |       | 50.8                 |
| 38  | CCB                     |        |          |            | 0.1             |            |       | 1.0 U                |

Sample cancelled  
 Y/H Mc 2/3/93

-----  
Element File: ASCLP.GEL  
Date: 02/02/93  
Data File: AS020293.DAT  
Technique: HGA

Element: As  
Time: 10:11  
ID/Wt File: AS020293.IDW  
Calib. Type: Linear

Wavelength: 193.7  
Slit: 0.70 L  
Lamp Current: 0  
Energy: 54  
-----

As ID: Calib. Blank

Seq. No.: 00001

A/S Pos.: 1

Date: 02/02/93

Replicate 1

S0

Peak Area (A-s): -0.002

Background Pk Area (A-s): 0.065

Blank Corrected Pk Area (A-s): -0.002

Time: 10:11

Peak Height (A): 0.011 0 1636

Background Pk Height (A): 0.025

Replicate 2

Peak Area (A-s): 0.001

Background Pk Area (A-s): 0.071

Blank Corrected Pk Area (A-s): 0.001

Time: 10:14

Peak Height (A): 0.010

Background Pk Height (A): 0.030

Mean Pk Area (A-s): -0.000

SD: 0.0022

RSD(%): 676.17

Auto-zero performed.

-----  
As ID: Standard 1

Seq. No.: 00002

A/S Pos.: 2

Date: 02/02/93

Replicate 1

S10

Peak Area (A-s): 0.057

Background Pk Area (A-s): 0.075

Blank Corrected Pk Area (A-s): 0.057

Time: 10:17

Peak Height (A): 0.074

Background Pk Height (A): 0.036

Replicate 2

Peak Area (A-s): 0.062

Background Pk Area (A-s): 0.072

Blank Corrected Pk Area (A-s): 0.062

Time: 10:19

Peak Height (A): 0.074

Background Pk Height (A): 0.035

Mean Pk Area (A-s): 0.060

SD: 0.0037

RSD(%): 6.17

Standard number 1 applied. [10.0]

Correlation coefficient: 1.00000

Slope: 0.0060

Int: 0.000

-----  
As ID: Standard 2

Seq. No.: 00003

A/S Pos.: 3

Date: 02/02/93

Replicate 1

S50

Peak Area (A-s): 0.301

Background Pk Area (A-s): 0.086

Blank Corrected Pk Area (A-s): 0.301

Concentration (ug/L ): 50.6

Time: 10:23

Peak Height (A): 0.353

Background Pk Height (A): 0.042

Replicate 2

Peak Area (A-s): 0.302

Background Pk Area (A-s): 0.088

Blank Corrected Pk Area (A-s): 0.302

Concentration (ug/L ): 50.8

Time: 10:25

Peak Height (A): 0.325

Background Pk Height (A): 0.039

Mean Conc (ug/L ): 50.7

SD: 0.16

RSD(%): 0.32

Standard number 2 applied. [50.0]

Correlation coefficient: 1.00000

Slope: 0.0060 **550**

Int: -0.000

As ID: Standard 3

Seq. No.: 00004

A/S Pos.: 4

Date: 02/02/93

Replicate 1

**S100**

Peak Area (A-s): 0.589

Time: 10:28

Background Pk Area (A-s): 0.103

Peak Height (A): 0.642

Blank Corrected Pk Area (A-s): 0.589

Background Pk Height (A): 0.056

Concentration (ug/L ): 97.6

**1637**

Replicate 2

Peak Area (A-s): 0.596

Time: 10:31

Background Pk Area (A-s): 0.103

Peak Height (A): 0.644

Blank Corrected Pk Area (A-s): 0.596

Background Pk Height (A): 0.054

Concentration (ug/L ): 98.7

Mean Conc (ug/L ): 98.2

SD: 0.77

RSD(%): 0.78

Standard number 3 applied. [100.0]

Correlation coefficient: 0.99995

Slope: 0.0059

Int: 0.001

As ID: ICV

Seq. No.: 00005

A/S Pos.: 5

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.313

Time: 10:34

Background Pk Area (A-s): 0.091

Peak Height (A): 0.350

Blank Corrected Pk Area (A-s): 0.313

Background Pk Height (A): 0.043

Concentration (ug/L ): 52.6

Replicate 2

Peak Area (A-s): 0.311

Time: 10:37

Background Pk Area (A-s): 0.094

Peak Height (A): 0.353

Blank Corrected Pk Area (A-s): 0.311

Background Pk Height (A): 0.044

Concentration (ug/L ): 52.2

Mean Conc (ug/L ): 52.4

SD: 0.23

RSD(%): 0.44

QC sample is within range

As ID: ICB

Seq. No.: 00006

A/S Pos.: 1

Date: 02/02/93

Replicate 1

Peak Area (A-s): -0.001

Time: 10:40

Background Pk Area (A-s): 0.082

Peak Height (A): 0.011

Blank Corrected Pk Area (A-s): -0.001

Background Pk Height (A): 0.038

Concentration (ug/L ): -0.4

Replicate 2

Peak Area (A-s): 0.001

Time: 10:43

Background Pk Area (A-s): 0.079

Peak Height (A): 0.010

Blank Corrected Pk Area (A-s): 0.002

Background Pk Height (A): 0.036

Concentration (ug/L ): 0.1

Mean Conc (ug/L ): -0.1

SD: 0.31

RSD(%): 227.22

QC sample is within range

As ID: CRA

Seq. No.: 00007

A/S Pos.: 2

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.064

Background Pk Area (A-s): 0.085

Blank Corrected Pk Area (A-s): 0.064

Concentration (ug/L ): 10.7

Time: 10:46

Peak Height (A): 0.073

Background Pk Height (A): 0.0451638

Replicate 2

Peak Area (A-s): 0.061

Background Pk Area (A-s): 0.082

Blank Corrected Pk Area (A-s): 0.061

Concentration (ug/L ): 10.1

Time: 10:49

Peak Height (A): 0.070

Background Pk Height (A): 0.037

Mean Conc (ug/L ): 10.4

SD: 0.39

RSD(%): 3.80

QC sample is within range

As ID: CCV(50)

Seq. No.: 00008

A/S Pos.: 37

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.307

Background Pk Area (A-s): 0.096

Blank Corrected Pk Area (A-s): 0.307

Concentration (ug/L ): 51.6

Time: 10:52

Peak Height (A): 0.352

Background Pk Height (A): 0.044

Replicate 2

Peak Area (A-s): 0.314

Background Pk Area (A-s): 0.094

Blank Corrected Pk Area (A-s): 0.314

Concentration (ug/L ): 52.8

Time: 10:55

Peak Height (A): 0.321

Background Pk Height (A): 0.043

Mean Conc (ug/L ): 52.2

SD: 0.79

RSD(%): 1.51

QC sample is within range 45.0 - 55.0

As ID: CCB

Seq. No.: 00009

A/S Pos.: 38

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.005

Background Pk Area (A-s): 0.078

Blank Corrected Pk Area (A-s): 0.005

Concentration (ug/L ): 0.7

Time: 10:58

Peak Height (A): 0.011

Background Pk Height (A): 0.036

Replicate 2

Peak Area (A-s): -0.000

Background Pk Area (A-s): 0.084

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): -0.1

Time: 11:01

Peak Height (A): 0.011

Background Pk Height (A): 0.035

Mean Conc (ug/L ): 0.3

SD: 0.61

RSD(%): 208.02

QC sample is within range

~~~~~  
As ID: PBS Seq. No.: 00010 A/S Pos.: 6 Date: 02/02/93 1639

Replicate 1  
Peak Area (A-s): -0.001 Time: 11:04  
Background Pk Area (A-s): 0.083 Peak Height (A): 0.011  
Blank Corrected Pk Area (A-s): -0.001 Background Pk Height (A): 0.043  
Concentration (ug/L ): -0.3

Replicate 2  
Peak Area (A-s): -0.003 Time: 11:07  
Background Pk Area (A-s): 0.085 Peak Height (A): 0.008  
Blank Corrected Pk Area (A-s): -0.003 Background Pk Height (A): 0.038  
Concentration (ug/L ): -0.7

Mean Conc (ug/L ): -0.5 SD: 0.23 RSD(%): 44.87

~~~~~  
As ID: PBSA Seq. No.: 00011 A/S Pos.: 7 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.120 Time: 11:10  
Background Pk Area (A-s): 0.089 Peak Height (A): 0.143  
Blank Corrected Pk Area (A-s): 0.120 Background Pk Height (A): 0.040  
Concentration (ug/L ): 20.1

Replicate 2  
Peak Area (A-s): 0.112 Time: 11:13  
Background Pk Area (A-s): 0.092 Peak Height (A): 0.141  
Blank Corrected Pk Area (A-s): 0.112 Background Pk Height (A): 0.043  
Concentration (ug/L ): 18.8

Mean Conc (ug/L ): 19.4 SD: 0.94 RSD(%): 4.82

~~~~~  
As ID: J06006 Seq. No.: 00012 A/S Pos.: 8 Date: 02/02/93

Replicate 1 *FIELD BLANK*  
Peak Area (A-s): 0.001 Time: 11:16  
Background Pk Area (A-s): 0.081 Peak Height (A): 0.010  
Blank Corrected Pk Area (A-s): 0.001 Background Pk Height (A): 0.030  
Concentration (ug/L ): -0.0

Replicate 2  
Peak Area (A-s): -0.003 Time: 11:19  
Background Pk Area (A-s): 0.082 Peak Height (A): 0.010  
Blank Corrected Pk Area (A-s): -0.002 Background Pk Height (A): 0.029  
Concentration (ug/L ): -0.6

Mean Conc (ug/L ): -0.3 SD: 0.39 RSD(%): 125.05

~~~~~  
As ID: J06006A Seq. No.: 00013 A/S Pos.: 9 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.122 Time: 11:22  
Background Pk Area (A-s): 0.089 Peak Height (A): 0.135  
Blank Corrected Pk Area (A-s): 0.122 Background Pk Height (A): 0.035  
Concentration (ug/L ): 20.4

Replicate 2  
Peak Area (A-s): 0.124  
Background Pk Area (A-s): 0.088  
Blank Corrected Pk Area (A-s): 0.125  
Concentration (ug/L ): 20.8

J06006A

Time: 11:25  
Peak Height (A): 0.129  
Background Pk Height (A): 0.033

Mean Conc (ug/L ): 20.6

SD: 0.32

1640  
RSD(%): 1.54

As ID: J06001

Seq. No.: 00014

A/S Pos.: 10

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.480  
Background Pk Area (A-s): 0.851  
Blank Corrected Pk Area (A-s): 0.481  
Concentration (ug/L ): 80.8

3-99

Time: 11:28  
Peak Height (A): 0.374  
Background Pk Height (A): 0.852

Replicate 2  
Peak Area (A-s): 0.475  
Background Pk Area (A-s): 0.903  
Blank Corrected Pk Area (A-s): 0.475  
Concentration (ug/L ): 79.9

Time: 11:31  
Peak Height (A): 0.426  
Background Pk Height (A): 0.921

Mean Conc (ug/L ): 80.3

SD: 0.68

RSD(%): 0.85

As ID: J06001A

Seq. No.: 00015

A/S Pos.: 11

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.573  
Background Pk Area (A-s): 0.877  
Blank Corrected Pk Area (A-s): 0.573  
Concentration (ug/L ): 96.4

Time: 11:34  
Peak Height (A): 0.497  
Background Pk Height (A): 0.882

Replicate 2  
Peak Area (A-s): 0.577  
Background Pk Area (A-s): 0.877  
Blank Corrected Pk Area (A-s): 0.577  
Concentration (ug/L ): 97.1

Time: 11:37  
Peak Height (A): 0.497  
Background Pk Height (A): 0.867

Mean Conc (ug/L ): 96.8

SD: 0.49

RSD(%): 0.50

As ID: J06002

Seq. No.: 00016

A/S Pos.: 12

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.261  
Background Pk Area (A-s): 0.883  
Blank Corrected Pk Area (A-s): 0.261  
Concentration (ug/L ): 43.8

S-100

Time: 11:40  
Peak Height (A): 0.220  
Background Pk Height (A): 0.866

Replicate 2  
Peak Area (A-s): 0.255  
Background Pk Area (A-s): 0.872  
Blank Corrected Pk Area (A-s): 0.255  
Concentration (ug/L ): 42.8

Time: 11:43  
Peak Height (A): 0.218  
Background Pk Height (A): 0.828

Mean Conc (ug/L ): 43.3

SD: 0.74

RSD(%): 1.71

~~~~~  
As ID: J06002A Seq. No.: 00017 A/S Pos.: 13 Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.357

Background Pk Area (A-s): 0.850

Blank Corrected Pk Area (A-s): 0.358

Concentration (ug/L ): 60.1

Time: 11:46

Peak Height (A): 0.315

Background Pk Height (A): 0.880

1641

Replicate 2

Peak Area (A-s): 0.370

Background Pk Area (A-s): 0.869

Blank Corrected Pk Area (A-s): 0.370

Concentration (ug/L ): 62.2

Time: 11:49

Peak Height (A): 0.297

Background Pk Height (A): 0.834

Mean Conc (ug/L ):

61.2

SD: 1.50

RSD(%): 2.46

~~~~~  
As ID: J06002D

Seq. No.: 00018

A/S Pos.: 14

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.200

Background Pk Area (A-s): 0.758

Blank Corrected Pk Area (A-s): 0.201

Concentration (ug/L ): 33.6

Time: 11:52

Peak Height (A): 0.182

Background Pk Height (A): 0.799

S-100

Replicate 2

Peak Area (A-s): 0.200

Background Pk Area (A-s): 0.755

Blank Corrected Pk Area (A-s): 0.200

Concentration (ug/L ): 33.5

Time: 11:55

Peak Height (A): 0.161

Background Pk Height (A): 0.753

Mean Conc (ug/L ):

33.6

SD: 0.08

RSD(%): 0.25

~~~~~  
As ID: J06002DA

Seq. No.: 00019

A/S Pos.: 15

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.312

Background Pk Area (A-s): 0.755

Blank Corrected Pk Area (A-s): 0.313

Concentration (ug/L ): 52.5

Time: 11:58

Peak Height (A): 0.251

Background Pk Height (A): 0.726

Replicate 2

Peak Area (A-s): 0.314

Background Pk Area (A-s): 0.760

Blank Corrected Pk Area (A-s): 0.314

Concentration (ug/L ): 52.8

Time: 12:01

Peak Height (A): 0.261

Background Pk Height (A): 0.699

Mean Conc (ug/L ):

52.6

SD: 0.19

RSD(%): 0.35

~~~~~  
As ID: CCV(50)

Seq. No.: 00020

A/S Pos.: 37

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.303

Background Pk Area (A-s): 0.135

Blank Corrected Pk Area (A-s): 0.304

Concentration (ug/L ): 51.0

Time: 12:04

Peak Height (A): 0.260

Background Pk Height (A): 0.069

Replicate 2  
Peak Area (A-s): 0.311  
Background Pk Area (A-s): 0.108  
Blank Corrected Pk Area (A-s): 0.312  
Concentration (ug/L ): 52.3

CCV(50)

Time: 12:07  
Peak Height (A): 0.274  
Background Pk Height (A): 0.050

Mean Conc (ug/L ): 51.6

SD: 0.97

1642  
RSD(%): 1.28

QC sample is within range 45.0 - 55.0

As ID: CCB

Seq. No.: 00021

A/S Pos.: 38

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.089  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.9

Time: 12:10  
Peak Height (A): 0.010  
Background Pk Height (A): 0.045

Replicate 2  
Peak Area (A-s): -0.000  
Background Pk Area (A-s): 0.090  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.2

Time: 12:13  
Peak Height (A): 0.009  
Background Pk Height (A): 0.044

Mean Conc (ug/L ): 0.4

SD: 0.81

RSD(%): 219.69

QC sample is within range

s ID: J06002S

Seq. No.: 00022

A/S Pos.: 16

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.400  
Background Pk Area (A-s): 0.646  
Blank Corrected Pk Area (A-s): 0.401  
Concentration (ug/L ): 67.3

Time: 12:16  
Peak Height (A): 0.378  
Background Pk Height (A): 0.642

Replicate 2  
Peak Area (A-s): 0.394  
Background Pk Area (A-s): 0.669  
Blank Corrected Pk Area (A-s): 0.394  
Concentration (ug/L ): 66.2

Time: 12:19  
Peak Height (A): 0.377  
Background Pk Height (A): 0.693

Mean Conc (ug/L ): 66.8

SD: 0.79

RSD(%): 1.19

As ID: J06003

Seq. No.: 00023

A/S Pos.: 17

Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.621  
Background Pk Area (A-s): 0.486  
Blank Corrected Pk Area (A-s): 0.621  
Concentration (ug/L ): 104.5

Time: 12:22  
Peak Height (A): 0.449  
Background Pk Height (A): 0.320

Replicate 2  
Peak Area (A-s): 0.621  
Background Pk Area (A-s): 0.475  
Blank Corrected Pk Area (A-s): 0.621

Time: 12:25  
Peak Height (A): 0.493  
Background Pk Height (A): 0.340

Concentration (ug/L ): 104.5 J06003 S-101  
Mean Conc (ug/L ): 104.5 SD: 0.01 RSD(%) 0.00  
1643

~~~~~  
s ID: J06003A Seq. No.: 00024 A/S Pos.: 18 Date: 02/02/93

Sample abs. is greater than that of the largest standard.

Replicate 1 Time: 12:28  
Peak Area (A-s): 0.734 Peak Height (A): 0.585  
Background Pk Area (A-s): 0.481 Background Pk Height (A): 0.341  
Blank Corrected Pk Area (A-s): 0.735  
Concentration (ug/L ): 123.6

Sample abs. is greater than that of the largest standard.

Replicate 2 Time: 12:31  
Peak Area (A-s): 0.736 Peak Height (A): 0.564  
Background Pk Area (A-s): 0.479 Background Pk Height (A): 0.333  
Blank Corrected Pk Area (A-s): 0.736  
Concentration (ug/L ): 123.9

Sample abs. is greater than that of the largest standard.

Mean Conc (ug/L ): 123.8 SD: 0.20 RSD(%) 0.16

~~~~~  
As ID: J06004 Seq. No.: 00025 A/S Pos.: 19 Date: 02/02/93

Replicate 1 S-102 Time: 12:34  
Peak Area (A-s): 0.540 Peak Height (A): 0.569  
Background Pk Area (A-s): 0.320 Background Pk Height (A): 0.255  
Blank Corrected Pk Area (A-s): 0.540  
Concentration (ug/L ): 90.9

Replicate 2 Time: 12:37  
Peak Area (A-s): 0.576 Peak Height (A): 0.542  
Background Pk Area (A-s): 0.332 Background Pk Height (A): 0.293  
Blank Corrected Pk Area (A-s): 0.577  
Concentration (ug/L ): 97.0

Mean Conc (ug/L ): 93.9 SD: 4.32 RSD(%) 4.59

~~~~~  
As ID: J06004A Seq. No.: 00026 A/S Pos.: 20 Date: 02/02/93

Replicate 1 Time: 12:40  
Peak Area (A-s): 0.605 Peak Height (A): 0.664  
Background Pk Area (A-s): 0.311 Background Pk Height (A): 0.266  
Blank Corrected Pk Area (A-s): 0.605  
Concentration (ug/L ): 101.8

Sample abs. is greater than that of the largest standard.

Replicate 2 Time: 12:42  
Peak Area (A-s): 0.655 Peak Height (A): 0.613  
Background Pk Area (A-s): 0.327 Background Pk Height (A): 0.274  
Blank Corrected Pk Area (A-s): 0.655  
Concentration (ug/L ): 110.2

Mean Conc (ug/L ): 106.0 SD: 5.92 RSD(%) 5.58

As ID: J06401 Seq. No.: 00027 A/S Pos.: 21 Date: 02/02/93

1644

Replicate 1  
Peak Area (A-s): 0.049  
Background Pk Area (A-s): 0.345  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 8.1

Time: 12:46  
Peak Height (A): 0.047  
Background Pk Height (A): 0.326

Replicate 2  
Peak Area (A-s): 0.048  
Background Pk Area (A-s): 0.337  
Blank Corrected Pk Area (A-s): 0.048  
Concentration (ug/L ): 8.0

Time: 12:48  
Peak Height (A): 0.061  
Background Pk Height (A): 0.316

Mean Conc (ug/L ): 8.0 SD: 0.11 RSD(%): 1.43

As ID: J06401A Seq. No.: 00028 A/S Pos.: 22 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.146  
Background Pk Area (A-s): 0.313  
Blank Corrected Pk Area (A-s): 0.146  
Concentration (ug/L ): 24.5

Time: 12:51  
Peak Height (A): 0.159  
Background Pk Height (A): 0.268

Replicate 2  
Peak Area (A-s): 0.151  
Background Pk Area (A-s): 0.323  
Blank Corrected Pk Area (A-s): 0.151  
Concentration (ug/L ): 25.3

Time: 12:54  
Peak Height (A): 0.149  
Background Pk Height (A): 0.283

Mean Conc (ug/L ): 24.9 SD: 0.61 RSD(%): 2.45

As ID: J06401D Seq. No.: 00029 A/S Pos.: 23 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.051  
Background Pk Area (A-s): 0.368  
Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 8.5

Time: 12:57  
Peak Height (A): 0.055  
Background Pk Height (A): 0.337

Replicate 2  
Peak Area (A-s): 0.052  
Background Pk Area (A-s): 0.371  
Blank Corrected Pk Area (A-s): 0.052  
Concentration (ug/L ): 8.6

Time: 13:00  
Peak Height (A): 0.053  
Background Pk Height (A): 0.380

Mean Conc (ug/L ): 8.6 SD: 0.03 RSD(%): 0.34

As ID: J06401DA Seq. No.: 00030 A/S Pos.: 24 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.152  
Background Pk Area (A-s): 0.372  
Blank Corrected Pk Area (A-s): 0.152  
Concentration (ug/L ): 25.5

Time: 13:03  
Peak Height (A): 0.151  
Background Pk Height (A): 0.308

*diff Noe sample cancelled*  
*2/3/93*

~~Replicate 2~~ ~~J06401DA~~ ~~Time: 13:06~~ ~~1645~~  
~~Peak Area (A-s): 0.152~~ ~~Peak Height (A): 0.158~~  
~~Background Pk Area (A-s): 0.370~~ ~~Background Pk Height (A): 0.322~~  
~~Blank Corrected Pk Area (A-s): 0.152~~  
~~Concentration (ug/L ): 25.4~~

~~Mean Conc (ug/L ): 25.5~~ ~~SD: 0.05~~ ~~RSD(%): 0.20~~

As ID: J06401S Seq. No.: 00031 A/S Pos.: 25 Date: 02/02/93

Replicate 1 Time: 13:09  
Peak Area (A-s): 0.255 Peak Height (A): 0.269  
Background Pk Area (A-s): 0.344 Background Pk Height (A): 0.292  
Blank Corrected Pk Area (A-s): 0.255  
Concentration (ug/L ): 42.8

Replicate 2 Time: 13:12  
Peak Area (A-s): 0.248 Peak Height (A): 0.269  
Background Pk Area (A-s): 0.330 Background Pk Height (A): 0.311  
Blank Corrected Pk Area (A-s): 0.248  
Concentration (ug/L ): 41.7

~~Mean Conc (ug/L ): 42.2~~ ~~SD: 0.84~~ ~~RSD(%): 1.99~~

As ID: CCV(50) Seq. No.: 00032 A/S Pos.: 37 Date: 02/02/93

Replicate 1 Time: 13:15  
Peak Area (A-s): 0.296 Peak Height (A): 0.254  
Background Pk Area (A-s): 0.123 Background Pk Height (A): 0.057  
Blank Corrected Pk Area (A-s): 0.296  
Concentration (ug/L ): 49.7

Replicate 2 Time: 13:18  
Peak Area (A-s): 0.309 Peak Height (A): 0.271  
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.053  
Blank Corrected Pk Area (A-s): 0.309  
Concentration (ug/L ): 51.9

Mean Conc (ug/L ): 50.8 SD: 1.56 RSD(%): 3.07

QC sample is within range 45.0 - 55.0

As ID: CCB Seq. No.: 00033 A/S Pos.: 38 Date: 02/02/93

Replicate 1 Time: 13:21  
Peak Area (A-s): 0.003 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.049  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.3

Replicate 2 Time: 13:24  
Peak Area (A-s): -0.000 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.051  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.2

Mean Conc (ug/L ): 0.1

SD: 0.35

CCB

RSD(%): 416.94

QC sample is within range

C 1646

Std. Prepped Date: 2, 2, 93/0830

IEA Laboratories

Date: 2, 2, 93

Part Run Time : 1014

200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 452-8200

Page 1 of 1

0 1647

FURNACE DATA SHEET

Element: Se

I.D. Wt. File: Se 020293

Instrument 5100

Analyst Jeff Noe

|     |                  |        |          | Dil    | Sample   |            | Value ug/L |
|-----|------------------|--------|----------|--------|----------|------------|------------|
| Cup | Sample ID        | % Sol. | Wt.V/Vol | Factor | Recovery | % Recovery | Flags      |
|     |                  |        |          |        |          |            | mg/kg      |
| 5   | ICV              |        |          |        | 51.8     | 103.6      | 51.8       |
| 1   | ICB              |        |          |        | -0.4     |            | 1.0 U      |
| 2   | CRA              |        |          |        | 5.2      | 104.0      | 5.2        |
| 37  | CCV(50)          |        |          |        | 50.9     | 101.8      | 50.9       |
| 38  | CCB              |        |          |        | -0.3     |            | 1.0 U      |
| 6   | F03647           | 100.0  | 100/100  |        | -0.3     |            | 1.0 U      |
| 6   | F03647A          | 100.0  | 100/100  |        | 9.2      | 92.0       |            |
| 7   | PBW 0056, 57, 60 | 100.0  | 100/100  |        | -0.5     |            | 1.0 U      |
| 7   | PBWA             | 100.0  | 100/100  |        | 9.2      | 92.0       |            |
| 8   | LCSW             | 100.0  | 100/100  |        | 21.4     | 85.6       | 21.4       |
| 8   | LCSWA            | 100.0  | 100/100  |        | 29.0     | 76.0       |            |
| 9   | J05601           | 100.0  | 100/100  |        | -0.6     |            | 1.0 U      |
|     | J05601A          | 100.0  | 100/100  |        | 9.5      | 95.0       |            |
| 10  | RINSE            | 100.0  | 100/100  |        | -0.6     |            | 1.0 U      |
| 10  | RINSEA           | 100.0  | 100/100  |        | 8.5      |            | 8.5        |
| 37  | CCV(50)          |        |          |        | 49.1     | 98.2       | 49.1       |
| 38  | CCB              |        |          |        | -0.8     |            | 1.0 U      |
| 11  | PBS              | 100.0  | 1.00/200 |        | -0.4     |            | 0.20 U     |
| 11  | PBSA             | 100.0  | 1.00/200 |        | 6.7      | 67.0       | W          |
| 12  | LCSS             | 100.0  | 1.00/200 | 4.0    | 31.4     | 64.1       | 25.1       |
| 12  | LCSSA            | 100.0  | 1.00/200 |        | 35.8     | 44.0       |            |
| 13  | J06003           | 84.7   | 1.06/200 |        | 3.1      |            | 0.69 E     |
| 13  | J06003A          | 84.7   | 1.06/200 |        | 11.8     | 87.0       |            |
| 14  | J06004           | 86.2   | 1.15/200 |        | 6.5      |            | 1.3        |
| 14  | J06004A          | 86.2   | 1.15/200 |        | 15.9     | 94.0       |            |
| 15  | RINSE            | 100.0  | 100/100  |        | -0.5     |            | 1.0 U      |
| 15  | RINSEA           | 100.0  | 100/100  |        | 8.1      |            | 8.1        |
| 37  | CCV(50)          |        |          |        | 49.2     | 98.4       | 49.2       |

*1477-e 2/3/93*  
*CCB did not run*

Multi-File: ASSETL.POLY.POL Analyst: J.W.  
Date: 02/02/93 Time: 0:10  
Data File: SE020273.IDW ID/Wt File: SE020273.IDW

Element File: SEACTERX.DAT Element: Se Wavelength: 176.10  
Date: 02/02/93 Time: 10:14 Slit: 2.00 L  
Data File: SE020273.IDW ID/Wt File: SE020273.IDW Lamp Current: 0  
Technique: HDA Calib. Type: Linear Energy: 60

Se ID: Calib. Blank Seq. No.: 00001 A/S Pos.: 1 Date: 02/02/93

Replicate 1 **SO** Time: 10:14  
Peak Area (A-s): 0.002 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.002

Replicate 2 Time: 10:14  
Peak Area (A-s): 0.004 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.004

Mean Pk Area (A-s): 0.003 SD: 0.0012 RSD(%): 40.67

Auto-zero performed.

ID: Standard 1 Seq. No.: 00002 A/S Pos.: 2 Date: 02/02/93

Replicate 1 **SS** Time: 10:19  
Peak Area (A-s): 0.023 Peak Height (A): 0.037  
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.020

Replicate 2 Time: 10:22  
Peak Area (A-s): 0.024 Peak Height (A): 0.035  
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.019  
Blank Corrected Pk Area (A-s): 0.021

Mean Pk Area (A-s): 0.020 SD: 0.0009 RSD(%): 4.46

Standard number 1 applied. [5.0]  
Correlation coefficient: 1.00000

Slope: 0.0041 Int: -0.000

Se ID: Standard 2 Seq. No.: 00003 A/S Pos.: 3 Date: 02/02/93

Replicate 1 **S50** Time: 10:25  
Peak Area (A-s): 0.162 Peak Height (A): 0.272  
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.070  
Blank Corrected Pk Area (A-s): 0.179  
Concentration (ug/L): 44.0

Replicate 2 Time: 10:28  
Peak Area (A-s): 0.179 Peak Height (A): 0.276  
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.071  
Blank Corrected Pk Area (A-s): 0.176

Concentration (ug/L ): 43.3

S50

Mean Conc (ug/L ): 43.7

SD: 0.53

RSD(%): 1.21  
1649

Standard number 2 applied. [50.0]

Correlation coefficient: 0.99990

Slope: 0.0035

Int: 0.001

~~~~~  
Se ID: Standard 3

Seq. No.: 00004

A/S Pos.: 4

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.349

Background Pk Area (A-s): 0.130

Blank Corrected Pk Area (A-s): 0.347

Concentration (ug/L ): 97.7

S100

Time: 10:31

Peak Height (A): 0.516

Background Pk Height (A): 0.133

Replicate 2

Peak Area (A-s): 0.345

Background Pk Area (A-s): 0.129

Blank Corrected Pk Area (A-s): 0.342

Concentration (ug/L ): 96.4

Time: 10:34

Peak Height (A): 0.505

Background Pk Height (A): 0.130

Mean Conc (ug/L ): 97.1

SD: 0.94

RSD(%): 0.97

Standard number 3 applied. [100.0]

Correlation coefficient: 0.99985

Slope: 0.0034

Int: 0.002

~~~~~  
Se ID: ICB

Seq. No.: 00005

A/S Pos.: 5

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.183

Background Pk Area (A-s): 0.094

Blank Corrected Pk Area (A-s): 0.181

Concentration (ug/L ): 51.8

Time: 10:37

Peak Height (A): 0.281

Background Pk Height (A): 0.072

Replicate 2

Peak Area (A-s): 0.183

Background Pk Area (A-s): 0.093

Blank Corrected Pk Area (A-s): 0.180

Concentration (ug/L ): 51.8

Time: 10:39

Peak Height (A): 0.281

Background Pk Height (A): 0.071

Mean Conc (ug/L ): 51.8

SD: 0.01

RSD(%): 0.02

QC sample is within range 45 - 55

~~~~~  
Se ID: ICB

Seq. No.: 00006

A/S Pos.: 1

Date: 02/02/93

Replicate 1

Peak Area (A-s): 0.004

Background Pk Area (A-s): 0.052

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -0.4

Time: 10:42

Peak Height (A): 0.010

Background Pk Height (A): 0.020

Replicate 2

Peak Area (A-s): 0.004

Background Pk Area (A-s): 0.051

Blank Corrected Pk Area (A-s): 0.001

Time: 10:45

Peak Height (A): 0.010

Background Pk Height (A): 0.020

Concentration (ug/L ): -0.5

ICB

Mean Conc (ug/L ): -0.4

SD: 0.05

RSD(%): 12.41

1650

sample is within range

Se ID: CRA

Seq. No.: 00007

A/S Pos.: 2

Date: 02/02/93

Replicate 1

Time: 10:48

Peak Area (A-s): 0.023

Peak Height (A): 0.038

Background Pk Area (A-s): 0.057

Background Pk Height (A): 0.020

Blank Corrected Pk Area (A-s): 0.020

Concentration (ug/L ): 5.0

Replicate 2

Time: 10:51

Peak Area (A-s): 0.024

Peak Height (A): 0.039

Background Pk Area (A-s): 0.058

Background Pk Height (A): 0.020

Blank Corrected Pk Area (A-s): 0.021

Concentration (ug/L ): 5.4

Mean Conc (ug/L ): 5.2

SD: 0.23

RSD(%): 4.43

QC sample is within range

Se ID: CCV(50)

Seq. No.: 00008

A/S Pos.: 37

Date: 02/02/93

Replicate 1

Time: 10:54

Peak Area (A-s): 0.180

Peak Height (A): 0.268

Background Pk Area (A-s): 0.095

Background Pk Height (A): 0.069

Blank Corrected Pk Area (A-s): 0.177

Concentration (ug/L ): 50.9

Replicate 2

Time: 10:57

Peak Area (A-s): 0.180

Peak Height (A): 0.274

Background Pk Area (A-s): 0.095

Background Pk Height (A): 0.071

Blank Corrected Pk Area (A-s): 0.177

Concentration (ug/L ): 50.9

Mean Conc (ug/L ): 50.9

SD: 0.04

RSD(%): 0.07

QC sample is within range 45 - 55

Se ID: CCB

Seq. No.: 00009

A/S Pos.: 38

Date: 02/02/93

Replicate 1

Time: 11:00

Peak Area (A-s): 0.004

Peak Height (A): 0.009

Background Pk Area (A-s): 0.055

Background Pk Height (A): 0.021

Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L ): -0.3

Replicate 2

Time: 11:03

Peak Area (A-s): 0.004

Peak Height (A): 0.012

Background Pk Area (A-s): 0.055

Background Pk Height (A): 0.021

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -0.3

Mean Conc (ug/L ): -0.3 SD: 0.03 CCB RSD(%): 11.87

QC sample is within range

1651

Se ID: F03647 Seq. No.: 00010 A/S Pos.: 6 Date: 02/02/93

Replicate 1 Time: 11:05  
Peak Area (A-s): 0.004 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.5

Replicate 2 Time: 11:08  
Peak Area (A-s): 0.004 Peak Height (A): 0.010  
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.4

Mean Conc (ug/L ): -0.5 SD: 0.03 RSD(%): 6.03

Se ID: F03647 A Seq. No.: 00011 A/S Pos.: 6 Date: 02/02/93

Replicate 1 Time: 11:11  
Peak Area (A-s): 0.037 Peak Height (A): 0.058  
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.020  
Blank Corrected Pk Area (A-s): 0.034  
Concentration (ug/L ): 9.1

Replicate 2 Time: 11:14  
Peak Area (A-s): 0.037 Peak Height (A): 0.064  
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.034  
Concentration (ug/L ): 9.3

Mean Conc (ug/L ): 9.2 SD: 0.15 RSD(%): 1.62

Recovery is 96.4%

Se ID: PBW Seq. No.: 00012 A/S Pos.: 7 Date: 02/02/93

Replicate 1 Time: 11:17  
Peak Area (A-s): 0.003 Peak Height (A): 0.009  
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.021  
Blank Corrected Pk Area (A-s): 0.000  
Concentration (ug/L ): -0.6

Replicate 2 Time: 11:20  
Peak Area (A-s): 0.004 Peak Height (A): 0.011  
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.022  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.5

Mean Conc (ug/L ): -0.5 SD: 0.07 RSD(%): 13.56

~~~~~  
Se ID: PBW A Seq. No.: 00013 A/S Pos.: 7 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.038  
Background Pk Area (A-s): 0.063  
Blank Corrected Pk Area (A-s): 0.035  
Concentration (ug/L ): 9.4

Time: 11:23  
Peak Height (A): 0.060  
Background Pk Height (A): 0.021

1652

Replicate 2  
Peak Area (A-s): 0.036  
Background Pk Area (A-s): 0.063  
Blank Corrected Pk Area (A-s): 0.033  
Concentration (ug/L ): 9.0

Time: 11:26  
Peak Height (A): 0.060  
Background Pk Height (A): 0.020

Mean Conc (ug/L ): 9.2 SD: 0.33 RSD(%): 3.61

Recovery is 97.3%

~~~~~  
Se ID: LCSW Seq. No.: 00014 A/S Pos.: 8 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.080  
Background Pk Area (A-s): 0.073  
Blank Corrected Pk Area (A-s): 0.077  
Concentration (ug/L ): 21.6

Time: 11:29  
Peak Height (A): 0.129  
Background Pk Height (A): 0.038

Replicate 2  
Peak Area (A-s): 0.078  
Background Pk Area (A-s): 0.074  
Blank Corrected Pk Area (A-s): 0.075  
Concentration (ug/L ): 21.2

Time: 11:32  
Peak Height (A): 0.129  
Background Pk Height (A): 0.037

Mean Conc (ug/L ): 21.4 SD: 0.28 RSD(%): 1.33

~~~~~  
Se ID: LCSW A Seq. No.: 00015 A/S Pos.: 8 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.106  
Background Pk Area (A-s): 0.086  
Blank Corrected Pk Area (A-s): 0.103  
Concentration (ug/L ): 29.3

Time: 11:35  
Peak Height (A): 0.177  
Background Pk Height (A): 0.048

Replicate 2  
Peak Area (A-s): 0.104  
Background Pk Area (A-s): 0.080  
Blank Corrected Pk Area (A-s): 0.101  
Concentration (ug/L ): 28.7

Time: 11:38  
Peak Height (A): 0.176  
Background Pk Height (A): 0.048

Mean Conc (ug/L ): 29.0 SD: 0.43 RSD(%): 1.47

Recovery is 75.7% (outside of specified limits)

~~~~~  
Se ID: J05601 Seq. No.: 00016 A/S Pos.: 9 Date: 02/02/93

Replicate 1

Time: 11:42

Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.057  
Blank Corrected Pk Area (A-s): 0.002  
Concentration (ug/L ): -0.2

J05601

Peak Height (A): 0.011  
Background Pk Height (A): 0.020

0: 1653

Replicate 2  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.054  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.2

Time: 11:44  
Peak Height (A): 0.010  
Background Pk Height (A): 0.018

Mean Conc (ug/L ): 0.0 SD: 0.24 RSD(%): 2840.07

Se ID: J05601A Seq. No.: 00017 A/S Pos.: 9 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.039  
Background Pk Area (A-s): 0.060  
Blank Corrected Pk Area (A-s): 0.036  
Concentration (ug/L ): 9.8

Time: 11:47  
Peak Height (A): 0.057  
Background Pk Height (A): 0.019

Replicate 2  
Peak Area (A-s): 0.037  
Background Pk Area (A-s): 0.060  
Blank Corrected Pk Area (A-s): 0.034  
Concentration (ug/L ): 9.2

Time: 11:50  
Peak Height (A): 0.057  
Background Pk Height (A): 0.022

Mean Conc (ug/L ): 9.5 SD: 0.42 RSD(%): 4.38

recovery is 95.3%

Se ID: RINSE Seq. No.: 00018 A/S Pos.: 10 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.054  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): -0.4

Time: 11:53  
Peak Height (A): 0.009  
Background Pk Height (A): 0.019

Replicate 2  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.058  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.6

Time: 11:56  
Peak Height (A): 0.009  
Background Pk Height (A): 0.021

Mean Conc (ug/L ): -0.6 SD: 0.29 RSD(%): 47.37

Se ID: RINSE Seq. No.: 00019 A/S Pos.: 10 Date: 02/02/93

Replicate 1  
Peak Area (A-s): 0.035  
Background Pk Area (A-s): 0.059  
Blank Corrected Pk Area (A-s): 0.032  
Concentration (ug/L ): 8.6

Time: 11:59  
Peak Height (A): 0.060  
Background Pk Height (A): 0.022

Replicate 2 Time: 12:02

Peak Area (A-s): 0.034  
Background Pk Area (A-s): 0.039  
Blank Corrected Pk Area (A-s): 0.031  
Concentration (ug/L ): 8.3

*Rinse A*

Peak Height (A): 0.059  
Background Pk Height (A): 0.020

1654

Mean Conc (ug/L ): 8.5

8.5

SD: 0.20

RSD(%): 2.37

Recovery is 90.9%

Se ID: CCV(50)

Seq. No.: 00020

A/S Pos.: 37

Date: 02/02/93

Replicate 1

Time: 12:05

Peak Area (A-s): 0.170

Peak Height (A): 0.261

Background Pk Area (A-s): 0.095

Background Pk Height (A): 0.068

Blank Corrected Pk Area (A-s): 0.167

Concentration (ug/L ): 47.8

Replicate 2

Time: 12:08

Peak Area (A-s): 0.178

Peak Height (A): 0.268

Background Pk Area (A-s): 0.094

Background Pk Height (A): 0.069

Blank Corrected Pk Area (A-s): 0.175

Concentration (ug/L ): 50.3

Mean Conc (ug/L ): 49.1

49.1

SD: 1.77

RSD(%): 3.61

QC sample is within range 45 - 55

ID: CCB

Seq. No.: 00021

A/S Pos.: 38

Date: 02/02/93

Replicate 1

Time: 12:11

Peak Area (A-s): 0.003

Peak Height (A): 0.010

Background Pk Area (A-s): 0.056

Background Pk Height (A): 0.020

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): -0.7

Replicate 2

Time: 12:14

Peak Area (A-s): 0.002

Peak Height (A): 0.008

Background Pk Area (A-s): 0.058

Background Pk Height (A): 0.023

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -1.0

Mean Conc (ug/L ): -0.8

-0.8

SD: 0.22

RSD(%): 26.79

QC sample is within range

~~Se ID: FBS~~

~~Seq. No.: 00022~~

~~A/S Pos.: 11~~

~~Date: 02/02/93~~

~~Replicate 1~~

~~Time: 12:17~~

~~Peak Area (A-s): 0.004~~

~~Peak Height (A): 0.008~~

~~Background Pk Area (A-s): 0.052~~

~~Background Pk Height (A): 0.019~~

~~Blank Corrected Pk Area (A-s): 0.001~~

~~Concentration (ug/L ): -0.3~~

~~Replicate 2~~

~~Time: 12:20~~

~~Peak Area (A-s): 0.004~~

~~Peak Height (A): 0.009~~

~~Background Pk Area (A-s): 0.051~~

~~Background Pk Height (A): 0.019~~

*2/3/93*

IGA  
200 MONROE TURNPIKE  
MONROE CT 06460 (203) 452-0200

ced printed on: 2, 8, 93/8:3  
ceat run time: 10:00

FURNACE DATA SHEET

38-2/4  
0-cc: 2, 8, 93  
1655

Element: PB

L.O. uc. file:

temperature: 3030

Analyst: P. Muckey

| Op. | Element | Sample ID      | X<br>Cal'd | uc. Val/<br>Val | Off<br>Factor | Sample<br>Recovery | X<br>Recovery | Flags | Value with notes |
|-----|---------|----------------|------------|-----------------|---------------|--------------------|---------------|-------|------------------|
| 5   | X       | ICV            |            |                 |               | 50.5               | 101.0         |       |                  |
| 6   |         | ICB            |            |                 |               | -0.2               |               |       | 1.04             |
| 7   |         | CRA            |            |                 |               | 3.1                | 103.3         |       |                  |
| 8   |         | CCV(50)        |            |                 |               | 50.7               | 101.4         |       |                  |
| 9   |         | CCB            |            |                 |               | -0.2               |               |       | 1.04             |
| 10  |         | PRW 56, 57, 60 |            | 100/100         |               | 0.3                |               |       | 1.04             |
| 11  |         | PRWA           |            |                 |               | 20.3               | 101.5         |       |                  |
| 12  |         | PBS 45, 60, 64 | 70         | -1/200          |               | 0.1                |               |       | 1.04             |
| 13  |         | PBSA           |            |                 |               | 17.8               | 89.0          |       |                  |
| 14  |         | JO45 06        | 100        | 1.35/200        | X5            | 22.1               |               |       | 16.4             |
| 15  |         | 06A            |            | 1.17/200        |               | 42.8               | 103.5         |       |                  |
| 16  |         | JO45 07        | 100        | 1.62/200        | X10           | 45.9               |               |       | 89.1             |
| 17  |         | 07A            |            |                 |               | 307.0              | 105.5         |       |                  |
| 18  |         | CCV(50)        |            |                 |               | 50.8               | 101.6         |       |                  |
| 19  |         | CCB            |            |                 |               | 0.0                |               |       | 1.04             |
| 20  | S-100   | JO60 02        | 86.7       | 1.29/200        | X50           | 28.1               |               |       | 251              |
| 21  |         | 02A            |            |                 |               | 49.4               | 106.5         |       | RPD=8.7          |
| 22  | S-100   | JO60 02D       | 86.7       | 1.11/200        | X50           | 22.1               |               |       | 230              |
| 23  |         | 02DA           |            |                 |               | 44.2               | 110.5         |       |                  |
| 24  | S-100   | JO60 02S       | 86.7       | 1.17/200        | X50           | 32.6               | 177.5         |       | SA=3.9 321       |
| 25  |         | JO70 01        | 18.1       | 1.18/200        |               | 59.5               |               |       | 12.9             |
| 26  |         | 01A            | 27.6       |                 | 1/1A          | 76.8               | 80.5          |       |                  |
| 27  |         | JO70 02        | 19.1       | 1.17/200        | 1/1A          | 30.5               |               |       | 6.6              |
| 28  |         | 02A            |            |                 |               | 47.8               | 86.5          |       |                  |
| 29  |         | CCV(50)        |            |                 |               | 52.5               | 105.0         |       |                  |
| 30  |         | CCB            |            | 100/100         |               | 0.0                |               |       | 1.04             |
| 31  | 000536  | JO45 067       | X100       | 1.35/200        | X5            |                    |               |       |                  |
| 32  | 30A     | 06A            |            |                 | 4/2/3         |                    |               |       |                  |
| 33  | CCV(50) | JO45 07 4N     |            | 1.03/200        | X10           |                    |               |       |                  |
| 34  | CCB     | 07A 7/2        |            |                 |               |                    |               |       |                  |
| 35  |         | ICV(50)        |            |                 |               |                    |               |       |                  |
| 36  |         | CCB            |            |                 |               |                    |               |       |                  |

1656

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.027 | 0.007 | 0.026 |
| PEAK AREA (ABS-SECONDS)  | 0.036 | 0.003 | 0.033 |

READ: 0.003

T=10:00

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.071 | 0.006 | 0.070 |
| PEAK AREA (ABS-SECONDS)  | 0.057 | 0.003 | 0.054 |

READ: 0.003

MEAN= 0.003 STD.DEV.= 0.001 COEF.VAR.= 17.52 %

\*\*\*\*\*  
0.000 AUTOZERO

\*\*\*\*\*  
PE

53

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.115 | 0.028 | 0.114 |
| PEAK AREA (ABS-SECONDS)  | 0.082 | 0.017 | 0.066 |

READ: 0.014

1005

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.100 | 0.026 | 0.098 |
| PEAK AREA (ABS-SECONDS)  | 0.137 | 0.017 | 0.119 |

READ: 0.014

MEAN= 0.014 STD.DEV.= 0.001 COEF.VAR.= 3.61 %

\*\*\*\*\*  
3.0 STANDARD 1

\*\*\*\*\*  
PE

550

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.547 | 0.395 | 0.154 |
| PEAK AREA (ABS-SECONDS)  | 0.409 | 0.245 | 0.164 |

READ: 52.0

1016

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.546 | 0.400 | 0.148 |
| PEAK AREA (ABS-SECONDS)  | 0.404 | 0.254 | 0.150 |

READ: 53.9

MEAN= 53.0 STD.DEV.= 1.3 COEF.VAR.= 2.55 %

\*\*\*\*\*  
53.0

E-50: READING GREATER THAN HIGHEST STANDARD

\*\*\*\*\*  
50.0 STANDARD 2

\*\*\*\*\*  
PE

5100

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.959 | 0.670 | 0.288 |
| PEAK AREA (ABS-SECONDS)  | 0.585 | 0.150 | 0.288 |

10/1857

S100  
(CONTINUED)PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)AA  
0.935  
0.667ZAA  
0.655  
0.446BG  
0.281  
0.221

READ: 85.6

MEAN= 86.0 STD. DEV. = 0.5 COEF. VAR. = 0.58 %

\*\*\*\*\*  
86.0

E-50: READING GREATER THAN HIGHEST STANDARD

\*\*\*\*\*  
100.0 STANDARD 3\*\*\*\*\*  
PB 0005PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)AA  
0.552  
0.444ZAA  
0.401  
0.250BG  
0.154  
0.195

READ: 50.1

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)AA  
0.596  
0.421ZAA  
0.431  
0.254BG  
0.166  
0.168

READ: 50.9

MEAN= 50.5 STD. DEV. = 0.6 COEF. VAR. = 1.28 %

\*\*\*\*\*  
PB 0006PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)AA  
0.056  
0.044ZAA  
0.006  
0.004BG  
0.052  
0.039

READ: 0.2

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)AA  
0.072  
0.074ZAA  
0.004  
-0.001BG  
0.073  
0.075

READ: -0.7

MEAN= -0.2 STD. DEV. = 0.6 COEF. VAR. = 99.99 %

\*\*\*\*\*  
PB 0007PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)AA  
0.089  
0.087ZAA  
0.033  
0.019BG  
0.090  
0.069

READ: 2.9

1030

D: 3.3

CRA

1658

MEAN= 3.1 STD. DEV. = 0.3 COEF. VAR. = 9.98 %

\*\*\*\*\*

PE 0008

CCV(50)

|                          |       |       |       |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | AA    | ZAA   | BC    |
| PEAK AREA (ABS-SECONDS)  | 0.528 | 0.377 | 0.152 |
|                          | 0.442 | 0.251 | 0.191 |

READ: 50.3

----- 1035 -----

|                          |       |       |       |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | AA    | ZAA   | BC    |
| PEAK AREA (ABS-SECONDS)  | 0.522 | 0.383 | 0.146 |
|                          | 0.429 | 0.255 | 0.175 |

READ: 51.2

MEAN= 50.7 STD. DEV. = 0.7 COEF. VAR. = 1.33 %

\*\*\*\*\*

PE 0009

CCB

|                          |       |       |       |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | AA    | ZAA   | BC    |
| PEAK AREA (ABS-SECONDS)  | 0.084 | 0.004 | 0.082 |
|                          | 0.092 | 0.002 | 0.090 |

READ: -0.2

----- 1040 -----

|                          |       |       |       |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | AA    | ZAA   | BC    |
| PEAK AREA (ABS-SECONDS)  | 0.073 | 0.006 | 0.071 |
|                          | 0.067 | 0.002 | 0.065 |

READ: -0.2

MEAN= -0.2 STD. DEV. = 0.0 COEF. VAR. = 4.87 %

\*\*\*\*\*

PE 0010

PBW

|                          |       |       |       |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | AA    | ZAA   | BC    |
| PEAK AREA (ABS-SECONDS)  | 0.095 | 0.008 | 0.094 |
|                          | 0.113 | 0.005 | 0.108 |

READ: 0.3

----- 1045 -----

|                          |       |       |       |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | AA    | ZAA   | BC    |
| PEAK AREA (ABS-SECONDS)  | 0.086 | 0.008 | 0.086 |
|                          | 0.105 | 0.005 | 0.100 |

READ: 0.4

MEAN= 0.3 STD. DEV. = 0.1 COEF. VAR. = 18.13 %

\*\*\*\*\*

PE 0011

PBW A

PEAK AREA (ABS-SECONDS)

0.255

0.111

1659  
0.144

READ: 20.4

PBWA

1050

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.256  
0.259

ZAA  
0.183  
0.109

BC  
0.091  
0.160

READ: 20.1

MEAN= 20.3 STD. DEV. = 0.2 COEF. VAR. = 1.15 %

\*\*\*\*\*

PB 0012

PBS

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.197  
0.204

ZAA  
0.008  
0.005

BC  
0.192  
0.199

READ: 0.3

1055

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.216  
0.231

ZAA  
0.005  
0.002

BC  
0.211  
0.229

READ: -0.1

MEAN= 0.1 STD. DEV. = 0.3 COEF. VAR. = 99.99 %

\*\*\*\*\*

PB 0013

PBSA

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.193  
0.345

ZAA  
0.137  
0.099

BC  
0.192  
0.246

READ: 18.2

1160

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.219  
0.356

ZAA  
0.133  
0.095

BC  
0.214  
0.261

READ: 17.4

MEAN= 17.8 STD. DEV. = 0.6 COEF. VAR. = 3.44 %

\*\*\*\*\*

PB 0014

J04506

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.316  
0.211

ZAA  
0.228  
0.118

BC  
0.088  
0.093

READ: 21.9

1105

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.307  
0.191

ZAA  
0.224  
0.126

BC  
0.084

G 1660

J04506

I N= 22.1 STD. DEV. = 0.4 COEF. VAR. = 1.71 %

\*\*\*\*\*  
PE 0015

J04506A

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.572 | 0.412 | 0.160 |
| PEAK AREA (ABS-SECONDS)  | 0.352 | 0.217 | 0.135 |

READ: 42.7

1110

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.554 | 0.400 | 0.155 |
| PEAK AREA (ABS-SECONDS)  | 0.348 | 0.218 | 0.130 |

READ: 42.9

MEAN= 42.8 STD. DEV. = 0.1 COEF. VAR. = 0.30 %

\*\*\*\*\*

PE 0016

J04507

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.530 | 0.380 | 0.152 |
| PEAK AREA (ABS-SECONDS)  | 0.368 | 0.233 | 0.136 |

READ: 46.2

1115

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.521 | 0.378 | 0.146 |
| PEAK AREA (ABS-SECONDS)  | 0.373 | 0.230 | 0.142 |

READ: 45.6

MEAN= 45.9 STD. DEV. = 0.4 COEF. VAR. = 0.97 %

\*\*\*\*\*

PE 0017

J04507A

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.710 | 0.512 | 0.205 |
| PEAK AREA (ABS-SECONDS)  | 0.503 | 0.324 | 0.179 |

READ: 67.6

1120

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.704 | 0.503 | 0.203 |
| PEAK AREA (ABS-SECONDS)  | 0.487 | 0.319 | 0.168 |

READ: 66.3

I N= 67.0 STD. DEV. = 1.1 COEF. VAR. = 1.59 %

\*\*\*\*\*

PE 0018

CCV(50)

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.544 | 0.397 | 0.151 |
| PEAK AREA (ABS-SECONDS)  | 0.437 | 0.255 | 0.152 |

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

CCV(50) AA  
0.535  
0.457

ZAA  
0.390  
0.251

11251661  
BC  
0.150  
0.205

READ: 50.4

MEAN= 50.8 STD. DEV. = 0.6 COEF. VAR. = 1.21 %

\*\*\*\*\*  
PB 0019

CCB

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.075  
0.095

ZAA  
0.006  
0.004

BC  
0.074  
0.091

READ: 0.1

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.075  
0.079

ZAA  
0.006  
0.003

BC  
0.075  
0.077

READ: -0.1

MEAN= 0.0 STD. DEV. = 0.2 COEF. VAR. = 99.99 %

\*\*\*\*\*

PB 0020

J06002 X50 S-100

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.362  
0.263

ZAA  
0.260  
0.149

BC  
0.102  
0.114

READ: 28.2

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.330  
0.263

ZAA  
0.242  
0.148

BC  
0.092  
0.115

READ: 27.9

MEAN= 28.1 STD. DEV. = 0.2 COEF. VAR. = 0.69 %

\*\*\*\*\*  
PB 0021

J06002A X50

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.524  
0.403

ZAA  
0.380  
0.247

BC  
0.149  
0.156

READ: 49.4

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.539  
0.421

ZAA  
0.396  
0.247

BC  
0.150  
0.174

READ: 49.4

JO6002D X50 S-100

1662

0022

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.267 | 0.196 | 0.079 |
| PEAK AREA (ABS-SECONDS)  | 0.228 | 0.119 | 0.110 |

READ: 22.0

1145

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.267 | 0.196 | 0.073 |
| PEAK AREA (ABS-SECONDS)  | 0.233 | 0.120 | 0.113 |

READ: 22.2

MEAN= 22.1 STD. DEV.= 0.2 COEF. VAR.= 0.79 %

\*\*\*\*\*

PB 0023

JO6002DA

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.478 | 0.347 | 0.135 |
| PEAK AREA (ABS-SECONDS)  | 0.381 | 0.221 | 0.160 |

READ: 43.7

1150

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.494 | 0.362 | 0.137 |
| PEAK AREA (ABS-SECONDS)  | 0.375 | 0.226 | 0.149 |

D: 44.8

MEAN= 44.2 STD. DEV.= 0.8 COEF. VAR.= 1.89 %

\*\*\*\*\*

PB 0024

JO6002S X50 S-100

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.384 | 0.282 | 0.104 |
| PEAK AREA (ABS-SECONDS)  | 0.302 | 0.170 | 0.132 |

READ: 32.5

1155

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.404 | 0.290 | 0.117 |
| PEAK AREA (ABS-SECONDS)  | 0.292 | 0.171 | 0.121 |

READ: 32.8

MEAN= 32.6 STD. DEV.= 0.2 COEF. VAR.= 0.64 %

\*\*\*\*\*

PB 0025

JO7001

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.542 | 0.376 | 0.253 |
| PEAK AREA (ABS-SECONDS)  | 0.895 | 0.291 | 0.604 |

READ: 59.5

6/2/22

1200

1663

PEAK AREA (ABS-SECONDS)

JO 70 01 0.945

0.290

0.655

READ: 59.4

MEAN= 59.5 STD. DEV. = 0.1 COEF. VAR. = 0.21 %

\*\*\*\*\*

PB 0026

JO 70 01 A

PEAK HEIGHT (ABSORBANCE)

AA  
0.666ZAA  
0.466BG  
0.264

PEAK AREA (ABS-SECONDS)

0.998

0.357

0.640

READ: 75.9

PEAK HEIGHT (ABSORBANCE)

AA  
0.688ZAA  
0.476BG  
0.284

PEAK AREA (ABS-SECONDS)

1.060

0.365

0.695

READ: 77.8

MEAN= 76.8 STD. DEV. = 1.5 COEF. VAR. = 1.99 %

\*\*\*\*\*

PB 0027

JO 70 02

PEAK HEIGHT (ABSORBANCE)

AA  
0.332ZAA  
0.221BG  
0.290

PEAK AREA (ABS-SECONDS)

0.803

0.153

0.650

READ: 29.1

PEAK HEIGHT (ABSORBANCE)

AA  
0.340ZAA  
0.222BG  
0.324

PEAK AREA (ABS-SECONDS)

0.882

0.166

0.716

READ: 31.8

MEAN= 30.5 STD. DEV. = 2.1 COEF. VAR. = 6.74 %

\*\*\*\*\*

PB 0028

JO 70 02 A

PEAK HEIGHT (ABSORBANCE)

AA  
0.467ZAA  
0.328BG  
0.280

PEAK AREA (ABS-SECONDS)

0.898

0.237

0.661

READ: 47.2

PEAK HEIGHT (ABSORBANCE)

AA  
0.486ZAA  
0.336BG  
0.298

PEAK AREA (ABS-SECONDS)

0.939

0.243

0.696

READ: 48.5

MEAN= 47.8 STD. DEV. = 1.0 COEF. VAR. = 2.15 %

\*\*\*\*\*

PB 0029

PEAK AREA (ABS-SECONDS)

CCV(50)

0.461

0.262

0 1664

0.199

READ: 52.9

1220

PEAK HEIGHT (ABSORBANCE)

AA

ZAA

BC

PEAK AREA (ABS-SECONDS)

0.613

0.444

0.171

0.440

0.259

0.181

READ: 52.2

MEAN= 52.5 STD. DEV. = 0.6 COEF. VAR. = 1.08 %

PE 0030

CCB

PEAK HEIGHT (ABSORBANCE)

AA

ZAA

BC

PEAK AREA (ABS-SECONDS)

0.054

0.007

0.051

0.079

0.003

0.076

READ: 0.0

1225

PEAK HEIGHT (ABSORBANCE)

AA

ZAA

BC

PEAK AREA (ABS-SECONDS)

0.076

0.006

0.074

0.098

0.003

0.095

READ: 0.0

MEAN= 0.0 STD. DEV. = 0.1 COEF. VAR. = 99.99 %

PE 0031

PEAK HEIGHT (ABSORBANCE)

AA

ZAA

BC

PEAK AREA (ABS-SECONDS)

2.090

1.107

1.003

1.599

0.946

0.653

READ: 290.6

PEAK HEIGHT (ABSORBANCE)

AA

ZAA

BC

PEAK AREA (ABS-SECONDS)

2.134

1.122

1.041

1.608

0.946

0.663

READ: 290.6

2/4

MEAN= 290.6 STD. DEV. = 0.0 COEF. VAR. = 0.00 %

290.6

E-50: READING GREATER THAN HIGHEST STANDARD

PE 0032

PEAK HEIGHT (ABSORBANCE)

AA

ZAA

BC

PEAK AREA (ABS-SECONDS)

2.162

1.156

1.006

1.656

0.981

0.676

READ: 309.4

PEAK HEIGHT (ABSORBANCE)

AA

ZAA

BC

PEAK AREA (ABS-SECONDS)

2.079

1.112

0.971

1.684

0.985

0.722

Std. Prepped Date: 2/3/93 IEA Laboratories  
 200 Monroe Turnpike  
 Start Run Time : 11:52 Monroe, Connecticut 06468  
 (203) 261-4458

Date: 2/3/93  
 page \_\_\_ of \_\_\_

1665

FURNACE DATA SHEET

Element: Se I.D. Wt. File: SE020393 Instrument 5100N Analyst D. Muckew

| Cup | Sample ID       | % Sol. | Wt.V/Vol | Dil Factor | Sample Recovery | % Recovery | Flags | Value ug/L, mg/kg |
|-----|-----------------|--------|----------|------------|-----------------|------------|-------|-------------------|
| 5   | ICV             |        |          |            | 52.2            | 104.4      |       | 52.2              |
| 1   | ICB             |        |          |            | 0.8             |            |       | 2.0 U             |
| 2   | CRA             |        |          |            | 6.2             | 124.0      |       | 6.2               |
| 37  | CCV(50)         |        |          |            | 49.7            | 99.4       |       | 49.7              |
| 38  | CCB             |        |          |            | 0.1             |            |       | 2.0 U             |
| 6   | PBS 45,60,44,70 | 100.0  | 1.00/200 |            | 0.6             |            |       | 0.40 U            |
| 7   | PBSA            | 100.0  | 1.00/200 |            | 9.8             | 98.0       |       |                   |
| 8   | LCSS            | 100.0  | 1.00/200 | 4.0        | 40.1            | 81.8       |       | 32.1              |
| 9   | LCSSA           | 100.0  | 1.00/200 |            | 48.4            | 83.0       |       |                   |
| 10  | J06003          | 84.7   | 1.06/200 |            | 3.5             |            |       | 0.78 B S-101      |
| 11  | J06003A         | 84.7   | 1.06/200 |            | 12.7            | 92.0       |       |                   |
| 12  | J06004          | 86.2   | 1.15/200 |            | 7.1             |            |       | 1.4 S-102         |
| 13  | J06004A         | 86.2   | 1.15/200 |            | 15.8            | 87.0       |       |                   |
| 14  | T05703          | 100.0  | 100/100  |            | 3.2             |            |       | 3.2 B             |
| 1   | T05703A         | 100.0  | 100/100  |            | 11.9            | 87.0       |       |                   |
| 37  | CCV(50)         |        |          |            | 48.8            | 97.6       |       | 48.8              |
| 38  | CCB             |        |          |            | 0.7             |            |       | 2.0 U             |
| 10  | T057040         | 100.0  | 100/100  | 2.0        | 0.4             |            |       | 4.0 U             |
| 17  | T057041         | 100.0  | 100/100  | 2.0        | 2.2             |            |       | 4.4 B             |
| 18  | T057042         | 100.0  | 100/100  | 2.0        | 4.2             |            |       | 8.4 B             |
| 19  | T057043         | 100.0  | 100/100  | 2.0        | 5.6             |            |       | 11.2              |
| 20  | T05706          | 100.0  | 100/100  |            | 0.2             |            |       | 2.0 U             |
| 21  | T05706A         | 100.0  | 100/100  |            | 8.3             | 83.0       | W     |                   |
| 22  | T05710          | 100.0  | 100/100  |            | 0.3             |            |       | 2.0 U             |
| 23  | T05710A         | 100.0  | 100/100  |            | 9.6             | 96.0       |       |                   |
| 24  | T05714          | 100.0  | 100/100  |            | 0.3             |            |       | 2.0 U             |
| 25  | T05714A         | 100.0  | 100/100  |            | 10.0            | 100.0      |       |                   |
| 37  | CCV(50)         |        |          |            | 48.6            | 97.2       |       | 48.6              |
| 38  | CCB             |        |          |            | 1.0             |            |       | 2.0 U             |
| 26  | T05715          | 100.0  | 100/100  |            | 1.1             |            |       | 2.0 U             |
| 27  | T05715A         | 100.0  | 100/100  |            | 10.5            | 105.0      |       |                   |
| 37  | CCV(50)         |        |          |            | 47.6            | 95.2       |       | 47.6              |
| 38  | CCB             |        |          |            | 0.7             |            |       | 2.0 U             |
| 37  | CCV(50)         |        |          |            | 47.5            | 95.0       |       | 47.5              |
| 38  | CCB             |        |          |            | 0.5             |            |       | 2.0 U             |
| 28  | T05704          | 100.0  | 100/100  |            | 0.1             |            |       | 2.0 U             |
| 29  | T05704A         | 100.0  | 100/100  |            | 9.1             | 91.0       |       |                   |

=====

Multi. File: ASSETLPB.HMU      Analyst: J.N.  
Date: 02/03/93                      Time: 11:49  
Data File: SE020393.DAT           ID/Wt File: SE020393.IDW

=====

1666

-----

|                         |                          |                   |
|-------------------------|--------------------------|-------------------|
| Element File: SECLP.GEL | Element: Se              | Wavelength: 196.0 |
| Date: 02/03/93          | Time: 11:52              | Slit: 2.00 L      |
| Data File: SE020393.DAT | ID/Wt File: SE020393.IDW | Lamp Current: 0   |
| Technique: HGA          | Calib. Type: Linear      | Energy: 54        |

-----

~~~~~

Se      ID: Calib. Blank                      Seq. No.: 00001      A/S Pos.: 1..      Date: 02/03/93

Replicate 1                      *SO*                      Time: 11:52  
Peak Area (A-s): 0.002                      Peak Height (A): 0.012  
Background Pk Area (A-s): 0.068           Background Pk Height (A): 0.035  
Blank Corrected Pk Area (A-s): 0.002

Replicate 2                      Time: 11:55  
Peak Area (A-s): 0.002                      Peak Height (A): 0.011  
Background Pk Area (A-s): 0.062           Background Pk Height (A): 0.028  
Blank Corrected Pk Area (A-s): 0.002

Mean Pk Area (A-s):                      0.002                      SD: 0.0002                      RSD(%): 13.02

Auto-zero performed.

~~~~~

Se      ID: Standard 1                      Seq. No.: 00002      A/S Pos.: 2      Date: 02/03/93

Replicate 1                      *SS*                      Time: 11:58  
Peak Area (A-s): 0.022                      Peak Height (A): 0.032  
Background Pk Area (A-s): 0.067           Background Pk Height (A): 0.032  
Blank Corrected Pk Area (A-s): 0.021

Replicate 2                      Time: 12:01  
Peak Area (A-s): 0.020                      Peak Height (A): 0.041  
Background Pk Area (A-s): 0.071           Background Pk Height (A): 0.031  
Blank Corrected Pk Area (A-s): 0.018

Mean Pk Area (A-s):                      0.019                      SD: 0.0016                      RSD(%): 8.11

Standard number 1 applied. [5.0]

Correlation coefficient: 1.00000                      Slope: 0.0039                      Int: 0.000

~~~~~

Se      ID: Standard 2                      Seq. No.: 00003      A/S Pos.: 3      Date: 02/03/93

Replicate 1                      *SSO*                      Time: 12:04  
Peak Area (A-s): 0.202                      Peak Height (A): 0.293  
Background Pk Area (A-s): 0.102           Background Pk Height (A): 0.059  
Blank Corrected Pk Area (A-s): 0.200  
Concentration (ug/L) : 51.6

Replicate 2                      Time: 12:07  
Peak Area (A-s): 0.209                      Peak Height (A): 0.306  
Background Pk Area (A-s): 0.105           Background Pk Height (A): 0.061  
Blank Corrected Pk Area (A-s): 0.207

Concentration (ug/L ): 53.4

Mean Conc (ug/L ): 52.5 *58* SD: 1.31

RSD(%): 2.49

Standard number 2 applied. [50.0]

correlation coefficient: 0.99999

Slope: 0.0041

*1667*

Int: -0.000

~~~~~  
Se ID: Standard 3

Seq. No.: 00004

A/S Pos.: 4

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.405

Background Pk Area (A-s): 0.141

Blank Corrected Pk Area (A-s): 0.403

Concentration (ug/L ): 98.9

*5100*  
Time: 12:10

Peak Height (A): 0.578

Background Pk Height (A): 0.120

Replicate 2

Peak Area (A-s): 0.404

Background Pk Area (A-s): 0.140

Blank Corrected Pk Area (A-s): 0.402

Concentration (ug/L ): 98.5

Time: 12:13

Peak Height (A): 0.597

Background Pk Height (A): 0.122

Mean Conc (ug/L ): 98.7

SD: 0.22

RSD(%): 0.22

Standard number 3 applied. [100.0]

Correlation coefficient: 0.99997

Slope: 0.0040

Int: 0.000

~~~~~  
Se ID: ICV

Seq. No.: 00005

A/S Pos.: 5

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.212

Background Pk Area (A-s): 0.108

Blank Corrected Pk Area (A-s): 0.211

Concentration (ug/L ): 52.2

Time: 12:16

Peak Height (A): 0.316

Background Pk Height (A): 0.067

Replicate 2

Peak Area (A-s): 0.213

Background Pk Area (A-s): 0.108

Blank Corrected Pk Area (A-s): 0.211

Concentration (ug/L ): 52.3

Time: 12:19

Peak Height (A): 0.315

Background Pk Height (A): 0.066

Mean Conc (ug/L ): 52.2

SD: 0.11

RSD(%): 0.22

QC sample is within range 45 - 55

~~~~~  
Se ID: ICB

Seq. No.: 00006

A/S Pos.: 1

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.006

Background Pk Area (A-s): 0.072

Blank Corrected Pk Area (A-s): 0.004

Concentration (ug/L ): 1.1

Time: 12:22

Peak Height (A): 0.014

Background Pk Height (A): 0.036

Replicate 2

Peak Area (A-s): 0.004

Background Pk Area (A-s): 0.074

Blank Corrected Pk Area (A-s): 0.002

Time: 12:25

Peak Height (A): 0.016

Background Pk Height (A): 0.034

Concentration (ug/L ): 0.5

Mean Conc (ug/L ): 0.8

SD: 0.39

RSD(%): 49.66

QC sample is within range

ICB

1668

Se ID: CRA

Seq. No.: 00007

A/S Pos.: 2

Date: 02/03/93

Replicate 1

Time: 12:28

Peak Area (A-s): 0.026

Peak Height (A): 0.043

Background Pk Area (A-s): 0.075

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.024

Concentration (ug/L ): 5.9

Replicate 2

Time: 12:31

Peak Area (A-s): 0.028

Peak Height (A): 0.044

Background Pk Area (A-s): 0.075

Background Pk Height (A): 0.034

Blank Corrected Pk Area (A-s): 0.026

Concentration (ug/L ): 6.5

Mean Conc (ug/L ): 6.2

SD: 0.40

RSD(%): 6.41

QC sample is within range

Se ID: CCV(50)

Seq. No.: 00008

A/S Pos.: 37

Date: 02/03/93

Replicate 1

Time: 12:34

Peak Area (A-s): 0.200

Peak Height (A): 0.306

Background Pk Area (A-s): 0.112

Background Pk Height (A): 0.066

Blank Corrected Pk Area (A-s): 0.198

Concentration (ug/L ): 49.1

Replicate 2

Time: 12:37

Peak Area (A-s): 0.205

Peak Height (A): 0.317

Background Pk Area (A-s): 0.114

Background Pk Height (A): 0.067

Blank Corrected Pk Area (A-s): 0.203

Concentration (ug/L ): 50.3

Mean Conc (ug/L ): 49.7

SD: 0.82

RSD(%): 1.66

QC sample is within range 45 - 55

Se ID: CCB

Seq. No.: 00009

A/S Pos.: 38

Date: 02/03/93

Replicate 1

Time: 12:40

Peak Area (A-s): 0.002

Peak Height (A): 0.016

Background Pk Area (A-s): 0.078

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): -0.0

Replicate 2

Time: 12:43

Peak Area (A-s): 0.003

Peak Height (A): 0.015

Background Pk Area (A-s): 0.074

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.3

Mean Conc (ug/L ): 0.1 SD: 0.23 RSD(%): 169.34

QC sample is within range

1669

CCB

~~~~~  
e ID: PBS Seq. No.: 00010 A/S Pos.: 6 Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.002  
Background Pk Area (A-s): 0.078  
Blank Corrected Pk Area (A-s): -0.000  
Concentration (ug/L ): -0.0  
Time: 12:46  
Peak Height (A): 0.012  
Background Pk Height (A): 0.037

Replicate 2  
Peak Area (A-s): 0.007  
Background Pk Area (A-s): 0.074  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 1.2  
Time: 12:49  
Peak Height (A): 0.012  
Background Pk Height (A): 0.035

Mean Conc (ug/L ): 0.6 SD: 0.87 RSD(%): 152.69

~~~~~  
Se ID: PBSA Seq. No.: 00011 A/S Pos.: 7 Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.041  
Background Pk Area (A-s): 0.086  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.8  
Time: 12:52  
Peak Height (A): 0.066  
Background Pk Height (A): 0.038

Replicate 2  
Peak Area (A-s): 0.042  
Background Pk Area (A-s): 0.086  
Blank Corrected Pk Area (A-s): 0.040  
Concentration (ug/L ): 9.9  
Time: 12:55  
Peak Height (A): 0.071  
Background Pk Height (A): 0.037

Mean Conc (ug/L ): 9.8 SD: 0.08 RSD(%): 0.83

~~~~~  
Se ID: LCSS 114 Seq. No.: 00012 A/S Pos.: 8 Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.167  
Background Pk Area (A-s): 0.199  
Blank Corrected Pk Area (A-s): 0.165  
Concentration (ug/L ): 40.8  
Time: 12:58  
Peak Height (A): 0.274  
Background Pk Height (A): 0.074

Replicate 2  
Peak Area (A-s): 0.161  
Background Pk Area (A-s): 0.200  
Blank Corrected Pk Area (A-s): 0.159  
Concentration (ug/L ): 39.4  
Time: 13:01  
Peak Height (A): 0.270  
Background Pk Height (A): 0.080

Mean Conc (ug/L ): 40.1 SD: 0.98 RSD(%): 2.43

~~~~~  
Se ID: LCSSA 114 Seq. No.: 00013 A/S Pos.: 9 Date: 02/03/93

Replicate 1  
Time: 13:04

Peak Area (A-s): 0.196  
Background Pk Area (A-s): 0.196 *LCSSA*  
Blank Corrected Pk Area (A-s): 0.194  
Concentration (ug/L ): 48.1 *14*

Peak Height (A): 0.322

Background Pk Height (A): 0.090

1670

Replicate 2  
Peak Area (A-s): 0.198  
Background Pk Area (A-s): 0.195  
Blank Corrected Pk Area (A-s): 0.196  
Concentration (ug/L ): 48.6

Time: 13:07

Peak Height (A): 0.319

Background Pk Height (A): 0.084

Mean Conc (ug/L ): 48.4

SD: 0.39

RSD(%): 0.81

Se ID: J06003

Seq. No.: 00014

A/S Pos.: 10

Date: 02/03/93

*S-101*  
Replicate 1  
Peak Area (A-s): 0.017  
Background Pk Area (A-s): 0.156  
Blank Corrected Pk Area (A-s): 0.015  
Concentration (ug/L ): 3.7

Time: 13:10

Peak Height (A): 0.035

Background Pk Height (A): 0.053

Replicate 2  
Peak Area (A-s): 0.015  
Background Pk Area (A-s): 0.160  
Blank Corrected Pk Area (A-s): 0.013  
Concentration (ug/L ): 3.3

Time: 13:13

Peak Height (A): 0.038

Background Pk Height (A): 0.056

Mean Conc (ug/L ): 3.5

SD: 0.31

RSD(%): 8.90

Se ID: J06003A

Seq. No.: 00015

A/S Pos.: 11

Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.056  
Background Pk Area (A-s): 0.162  
Blank Corrected Pk Area (A-s): 0.054  
Concentration (ug/L ): 13.3

Time: 13:16

Peak Height (A): 0.097

Background Pk Height (A): 0.052

Replicate 2  
Peak Area (A-s): 0.051  
Background Pk Area (A-s): 0.164  
Blank Corrected Pk Area (A-s): 0.049  
Concentration (ug/L ): 12.2

Time: 13:19

Peak Height (A): 0.098

Background Pk Height (A): 0.055

Mean Conc (ug/L ): 12.7

SD: 0.78

RSD(%): 6.12

Se ID: J06004

Seq. No.: 00016

A/S Pos.: 12

Date: 02/03/93

*S-102*  
Replicate 1  
Peak Area (A-s): 0.030  
Background Pk Area (A-s): 0.130  
Blank Corrected Pk Area (A-s): 0.029  
Concentration (ug/L ): 7.1

Time: 13:22

Peak Height (A): 0.058

Background Pk Height (A): 0.044

Replicate 2  
Peak Area (A-s): 0.031  
Background Pk Area (A-s): 0.129

Time: 13:25

Peak Height (A): 0.056

Background Pk Height (A): 0.045

Blank Corrected Pk Area (A-s): 0.029  
Concentration (ug/L ): 7.1

Mean Conc (ug/L ): 7.1

SD: 0.05

RSD(%): 0.75

Se ID: J06004A

Seq. No.: 00017

A/S Pos.: 13

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.065

Background Pk Area (A-s): 0.132

Blank Corrected Pk Area (A-s): 0.063

Concentration (ug/L ): 15.6

Time: 13:27

Peak Height (A): 0.110

Background Pk Height (A): 0.047

Replicate 2

Peak Area (A-s): 0.066

Background Pk Area (A-s): 0.130

Blank Corrected Pk Area (A-s): 0.064

Concentration (ug/L ): 15.9

Time: 13:30

Peak Height (A): 0.114

Background Pk Height (A): 0.044

Mean Conc (ug/L ):

15.8

SD: 0.18

RSD(%): 1.12

Se ID: T05703

Seq. No.: 00018

A/S Pos.: 14

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.014

Background Pk Area (A-s): 0.203

Blank Corrected Pk Area (A-s): 0.012

Concentration (ug/L ): 2.9

Time: 13:33

Peak Height (A): 0.026

Background Pk Height (A): 0.071

Replicate 2

Peak Area (A-s): 0.016

Background Pk Area (A-s): 0.200

Blank Corrected Pk Area (A-s): 0.014

Concentration (ug/L ): 3.4

Time: 13:36

Peak Height (A): 0.026

Background Pk Height (A): 0.074

Mean Conc (ug/L ):

3.2

SD: 0.31

RSD(%): 9.92

Se ID: T05703A

Seq. No.: 00019

A/S Pos.: 15

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.048

Background Pk Area (A-s): 0.207

Blank Corrected Pk Area (A-s): 0.046

Concentration (ug/L ): 11.4

Time: 13:39

Peak Height (A): 0.066

Background Pk Height (A): 0.084

Replicate 2

Peak Area (A-s): 0.052

Background Pk Area (A-s): 0.210

Blank Corrected Pk Area (A-s): 0.050

Concentration (ug/L ): 12.4

Time: 13:42

Peak Height (A): 0.071

Background Pk Height (A): 0.087

Mean Conc (ug/L ):

11.9

SD: 0.66

RSD(%): 5.57

Se ID: CCV(50)

Seq. No.: 00020

A/S Pos.: 37

Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.194  
Background Pk Area (A-s): 0.115  
Blank Corrected Pk Area (A-s): 0.192  
Concentration (ug/L ): 47.5

CCV(50)

Time: 13:45  
Peak Height (A): 0.300  
Background Pk Height (A): 0.064 1672

Replicate 2  
Peak Area (A-s): 0.204  
Background Pk Area (A-s): 0.103  
Blank Corrected Pk Area (A-s): 0.202  
Concentration (ug/L ): 50.1

Time: 13:48  
Peak Height (A): 0.298  
Background Pk Height (A): 0.062

Mean Conc (ug/L ): 48.6

SD: 1.85

RSD(%): 3.78

QC sample is within range 45 - 55

Se ID: CCB

Seq. No.: 00021

A/S Pos.: 38

Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.076  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.8

Time: 13:51  
Peak Height (A): 0.013  
Background Pk Height (A): 0.036

Replicate 2  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.076  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.7

Time: 13:54  
Peak Height (A): 0.013  
Background Pk Height (A): 0.036

Mean Conc (ug/L ): 0.7

SD: 0.10

RSD(%): 13.42

QC sample is within range

Se ID: T057040

Seq. No.: 00022

A/S Pos.: 16

Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.005  
Background Pk Area (A-s): 0.131  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.7

Time: 13:57  
Peak Height (A): 0.015  
Background Pk Height (A): 0.046

Replicate 2  
Peak Area (A-s): 0.003  
Background Pk Area (A-s): 0.134  
Blank Corrected Pk Area (A-s): 0.001  
Concentration (ug/L ): 0.2

Time: 14:00  
Peak Height (A): 0.015  
Background Pk Height (A): 0.047

Mean Conc (ug/L ): 0.4

SD: 0.36

RSD(%): 80.48

Se ID: T057041

Seq. No.: 00023

A/S Pos.: 17

Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.010  
Background Pk Area (A-s): 0.136  
Blank Corrected Pk Area (A-s): 0.008

Time: 14:03  
Peak Height (A): 0.026  
Background Pk Height (A): 0.046

Std. Prepared Date: 2/3/93/8:30IEA Laboratories  
200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 452-8200Date: 2/3/93air Run Time : 11:53Page      of     

1673

## FURNACE DATA SHEET

Element: As

I.D. Wt. File: AS020393Instrument 5100Analyst J. Muck

| Cup | Sample ID   | % Sol. | Wt.V/Vol | Dil Factor | Sample Recovery | % Recovery | Flags | Value ug/L<br>mg/kg |
|-----|-------------|--------|----------|------------|-----------------|------------|-------|---------------------|
| 5   | ICV         |        |          |            | 51.4            | 102.8      |       | 51.4                |
| 1   | ICB         |        |          |            | -0.5            |            |       | 1.0 U               |
| 2   | ICRA        |        |          |            | 9.8             | 98.0       |       | 9.8                 |
| 37  | CCV(50)     |        |          |            | 51.8            | 103.6      |       | 51.8                |
| 38  | CCB         |        |          |            | -0.8            |            |       | 1.0 U               |
| 6   | J060010 MSA | 87.6   | 1.15/200 | 2.0        | 39.3            | 0.222      | Blank | 15.6 $y=0.2215$     |
| 7   | J060011 MSA | 87.6   | 1.15/200 | 2.0        | 53.4            | 0.300      | 15ppb | 21.2 $S=0.00523$    |
| 8   | J060012 MSA | 87.6   | 1.15/200 | 2.0        | 67.5            | 0.377      | 30ppb | 26.8 $R=0.9999$     |
| 9   | J060013 MSA | 87.6   | 1.15/200 | 2.0        | 81.9            | 0.458      | 45ppb | 32.5 $y/5x2=84.65$  |
| 10  | J06003      | 84.7   | 1.06/200 | 4.0        | 28.1            |            |       | 25.0 $(16.8)S$      |
| 11  | J06003A     | 84.7   | 1.06/200 | 4.0        | 48.4            | 101.5      |       | 5-101               |
| 12  | J06004      | 86.2   | 1.15/200 | 4.0        | 26.3            |            |       | 21.2                |
| 3   | J06004A     | 86.2   | 1.15/200 | 4.0        | 46.1            | 99.0       |       | 5-102               |
| 37  | CCV(50)     |        |          |            | 49.4            | 98.8       |       | 49.4                |
| 38  | CCB         |        |          |            | -0.7            |            |       | 1.0 U               |
| 14  | T057020 MSA | 100.0  | 100/100  | 2.0        | 0.9             |            |       | 2.0 U               |
| 15  | T057021 MSA | 100.0  | 100/100  | 2.0        | 7.6             |            |       | 15.2 B              |
| 16  | T057022 MSA | 100.0  | 100/100  | 2.0        | 14.6            |            |       | 29.2                |
| 17  | T057023 MSA | 100.0  | 100/100  | 2.0        | 20.9            |            |       | 41.8                |
| 18  | T057060 MSA | 100.0  | 100/100  | 2.0        | -0.0            |            |       | 2.0 U               |
| 19  | T057061 MSA | 100.0  | 100/100  | 2.0        | 2.9             |            |       | 5.8 B               |
| 20  | T057062 MSA | 100.0  | 100/100  | 2.0        | 5.2             |            |       | 10.4 B              |
| 21  | T057063 MSA | 100.0  | 100/100  | 2.0        | 8.3             |            |       | 16.6 B              |
| 37  | CCV(50)     |        |          |            | 48.5            | 97.0       |       | 48.5                |
| 38  | CCB         |        |          |            | 0.8             |            |       | 1.0 U               |

Element File: ASCLP.GEL  
Date: 02/03/93  
Data File: AS020393.DAT  
Technique: HGA

Element: As  
Time: 11:53  
ID/Wt File: AS020393.IDW  
Calib. Type: Linear

Wavelength: 193.7  
Slit: 0.70 L  
Lamp Current: 0  
Energy: 57 **1674**

As ID: Calib. Blank Seq. No.: 00001 A/S Pos.: 1 Date: 02/03/93

Replicate 1  
Peak Area (A-s): -0.001  
Background Pk Area (A-s): 0.085  
Blank Corrected Pk Area (A-s): -0.001  
Time: 11:53  
Peak Height (A): 0.009  
Background Pk Height (A): 0.031

Replicate 2  
Peak Area (A-s): -0.002  
Background Pk Area (A-s): 0.091  
Blank Corrected Pk Area (A-s): -0.002  
Time: 11:56  
Peak Height (A): 0.006  
Background Pk Height (A): 0.048

Mean Pk Area (A-s): -0.001 SD: 0.0007 RSD(%): 52.72

Auto-zero performed.

As ID: Standard 1 Seq. No.: 00002 A/S Pos.: 2 Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.056  
Background Pk Area (A-s): 0.094  
Blank Corrected Pk Area (A-s): 0.058  
Time: 11:59  
Peak Height (A): 0.063  
Background Pk Height (A): 0.050

Replicate 2  
Peak Area (A-s): 0.056  
Background Pk Area (A-s): 0.096  
Blank Corrected Pk Area (A-s): 0.057  
Time: 12:02  
Peak Height (A): 0.070  
Background Pk Height (A): 0.052

Mean Pk Area (A-s): 0.057 SD: 0.0004 RSD(%): 0.70

Standard number 1 applied. [10.0]  
Correlation coefficient: 1.00000 Slope: 0.0057 Int: 0.000

As ID: Standard 2 Seq. No.: 00003 A/S Pos.: 3 Date: 02/03/93

Replicate 1  
Peak Area (A-s): 0.290  
Background Pk Area (A-s): 0.106  
Blank Corrected Pk Area (A-s): 0.292  
Concentration (ug/L): 50.7  
Time: 12:04  
Peak Height (A): 0.334  
Background Pk Height (A): 0.053

Replicate 2  
Peak Area (A-s): 0.290  
Background Pk Area (A-s): 0.108  
Blank Corrected Pk Area (A-s): 0.291  
Concentration (ug/L): 50.7  
Time: 12:07  
Peak Height (A): 0.346  
Background Pk Height (A): 0.054

Mean Conc (ug/L): 50.7 SD: 0.02 RSD(%): 0.03

Standard number 2 applied. [50.0]

Correlation coefficient: 1.00000

Slope: 0.0058

Int: -0.000

ID: Standard 3

Seq. No.: 00004

A/S Pos.: 4

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.550

Background Pk Area (A-s): 0.124

Blank Corrected Pk Area (A-s): 0.551

Concentration (ug/L ): 94.5

Time: 12:10

Peak Height (A): 0.638

Background Pk Height (A): 0.061

Replicate 2

Peak Area (A-s): 0.552

Background Pk Area (A-s): 0.123

Blank Corrected Pk Area (A-s): 0.553

Concentration (ug/L ): 94.8

Time: 12:13

Peak Height (A): 0.636

Background Pk Height (A): 0.060

Mean Conc (ug/L ): 94.7

SD: 0.22

RSD(%): 0.24

Standard number 3 applied. [100.0]

Correlation coefficient: 0.99957

Slope: 0.0055

Int: 0.004

As ID: ICV

Seq. No.: 00005

A/S Pos.: 5

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.289

Background Pk Area (A-s): 0.106

Blank Corrected Pk Area (A-s): 0.290

Concentration (ug/L ): 51.7

Time: 12:16

Peak Height (A): 0.338

Background Pk Height (A): 0.054

Replicate 2

Peak Area (A-s): 0.285

Background Pk Area (A-s): 0.111

Blank Corrected Pk Area (A-s): 0.286

Concentration (ug/L ): 51.0

Time: 12:18

Peak Height (A): 0.334

Background Pk Height (A): 0.053

Mean Conc (ug/L ): 51.4

SD: 0.47

RSD(%): 0.91

QC sample is within range

As ID: ICB

Seq. No.: 00006

A/S Pos.: 1

Date: 02/03/93

Replicate 1

Peak Area (A-s): -0.000

Background Pk Area (A-s): 0.092

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -0.5

Time: 12:21

Peak Height (A): 0.006

Background Pk Height (A): 0.044

Replicate 2

Peak Area (A-s): -0.001

Background Pk Area (A-s): 0.093

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): -0.6

Time: 12:24

Peak Height (A): 0.006

Background Pk Height (A): 0.044

Mean Conc (ug/L ): -0.5

SD: 0.06

RSD(%): 11.60

QC sample is within range

As ID: CRA

Seq. No.: 00007

A/S Pos.: 2

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.054

Background Pk Area (A-s): 0.098

Blank Corrected Pk Area (A-s): 0.056

Concentration (ug/L ): 9.4

Time: 12:27

Peak Height (A): 0.068

Background Pk Height (A): 0.046

Replicate 2

Peak Area (A-s): 0.059

Background Pk Area (A-s): 0.096

Blank Corrected Pk Area (A-s): 0.060

Concentration (ug/L ): 10.2

Time: 12:30

Peak Height (A): 0.070

Background Pk Height (A): 0.046

Mean Conc (ug/L ): 9.8

SD: 0.58

RSD(%): 5.91

QC sample is within range

As ID: CCV(50)

Seq. No.: 00008

A/S Pos.: 37

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.289

Background Pk Area (A-s): 0.109

Blank Corrected Pk Area (A-s): 0.291

Concentration (ug/L ): 51.8

Time: 12:32

Peak Height (A): 0.325

Background Pk Height (A): 0.049

Replicate 2

Peak Area (A-s): 0.289

Background Pk Area (A-s): 0.111

Blank Corrected Pk Area (A-s): 0.291

Concentration (ug/L ): 51.8

Time: 12:35

Peak Height (A): 0.325

Background Pk Height (A): 0.048

Mean Conc (ug/L ): 51.8

SD: 0.00

RSD(%): 0.01

QC sample is within range 45.0 - 55.0

As ID: CCB

Seq. No.: 00009

A/S Pos.: 38

Date: 02/03/93

Replicate 1

Peak Area (A-s): -0.001

Background Pk Area (A-s): 0.094

Blank Corrected Pk Area (A-s): 0.000

Concentration (ug/L ): -0.6

Time: 12:38

Peak Height (A): 0.009

Background Pk Height (A): 0.041

Replicate 2

Peak Area (A-s): -0.003

Background Pk Area (A-s): 0.094

Blank Corrected Pk Area (A-s): -0.002

Concentration (ug/L ): -1.0

Time: 12:41

Peak Height (A): 0.007

Background Pk Height (A): 0.042

Mean Conc (ug/L ): -0.8

SD: 0.25

RSD(%): 30.38

QC sample is within range

As ID: J060010 MSA

Seq. No.: 00010

A/S Pos.: 6

Date: 01/67/73

X2

S-99

Time: 12:44

Peak Height (A): 0.183

Background Pk Height (A): 0.355

Replicate 1

Peak Area (A-s): 0.220

Background Pk Area (A-s): 0.457

Blank Corrected Pk Area (A-s): 0.221

Concentration (ug/L ): 39.2

Replicate 2

Peak Area (A-s): 0.221

Background Pk Area (A-s): 0.489

Blank Corrected Pk Area (A-s): 0.222

Concentration (ug/L ): 39.5

Time: 12:46

Peak Height (A): 0.181

Background Pk Height (A): 0.355

Mean Conc (ug/L ):

39.3

SD: 0.18

RSD(%): 0.46

As ID: J060011 MSA

Seq. No.: 00011

A/S Pos.: 7

Date: 02/03/93

X2

Replicate 1

Peak Area (A-s): 0.294

Background Pk Area (A-s): 0.493

Blank Corrected Pk Area (A-s): 0.296

Concentration (ug/L ): 52.7

Time: 12:49

Peak Height (A): 0.248

Background Pk Height (A): 0.362

Replicate 2

Peak Area (A-s): 0.302

Background Pk Area (A-s): 0.504

Blank Corrected Pk Area (A-s): 0.303

Concentration (ug/L ): 54.0

Time: 12:52

Peak Height (A): 0.256

Background Pk Height (A): 0.344

Mean Conc (ug/L ):

53.4

SD: 0.91

RSD(%): 1.71

As ID: J060012 MSA

Seq. No.: 00012

A/S Pos.: 8

Date: 02/03/93

X2

Replicate 1

Peak Area (A-s): 0.377

Background Pk Area (A-s): 0.503

Blank Corrected Pk Area (A-s): 0.378

Concentration (ug/L ): 67.7

Time: 12:55

Peak Height (A): 0.324

Background Pk Height (A): 0.379

Replicate 2

Peak Area (A-s): 0.375

Background Pk Area (A-s): 0.500

Blank Corrected Pk Area (A-s): 0.376

Concentration (ug/L ): 67.3

Time: 12:58

Peak Height (A): 0.329

Background Pk Height (A): 0.334

Mean Conc (ug/L ):

67.5

SD: 0.28

RSD(%): 0.41

As ID: J060013 MSA

Seq. No.: 00013

A/S Pos.: 9

Date: 02/03/93

X2

Replicate 1

Peak Area (A-s): 0.458

Background Pk Area (A-s): 0.510

Blank Corrected Pk Area (A-s): 0.460

Concentration (ug/L ): 82.4

Time: 13:00

Peak Height (A): 0.397

Background Pk Height (A): 0.356

Replicate 2

Peak Area (A-s): 0.453

Background Pk Area (A-s): 0.510

Blank Corrected Pk Area (A-s): 0.455

Concentration (ug/L ): 81.5

Mean Conc (ug/L ): 81.9

SD: 0.63

RSD(%): 0.77

As ID: J06003

Seq. No.: 00014

A/S Pos.: 10

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.157

Background Pk Area (A-s): 0.228

Blank Corrected Pk Area (A-s): 0.158

Concentration (ug/L ): 27.9

Time: 13:06

Peak Height (A): 0.114

Background Pk Height (A): 0.130

S-101

Replicate 2

Peak Area (A-s): 0.159

Background Pk Area (A-s): 0.206

Blank Corrected Pk Area (A-s): 0.160

Concentration (ug/L ): 28.3

Time: 13:09

Peak Height (A): 0.118

Background Pk Height (A): 0.117

Mean Conc (ug/L ): 28.1

SD: 0.28

RSD(%): 1.01

As ID: J06003A

Seq. No.: 00015

A/S Pos.: 11

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.270

Background Pk Area (A-s): 0.212

Blank Corrected Pk Area (A-s): 0.272

Concentration (ug/L ): 48.4

Time: 13:11

Peak Height (A): 0.211

Background Pk Height (A): 0.119

Replicate 2

Peak Area (A-s): 0.270

Background Pk Area (A-s): 0.209

Blank Corrected Pk Area (A-s): 0.271

Concentration (ug/L ): 48.3

Time: 13:14

Peak Height (A): 0.205

Background Pk Height (A): 0.116

Mean Conc (ug/L ): 48.4

SD: 0.10

RSD(%): 0.22

As ID: J06004

Seq. No.: 00016

A/S Pos.: 12

Date: 02/03/93

Replicate 1

Peak Area (A-s): 0.147

Background Pk Area (A-s): 0.165

Blank Corrected Pk Area (A-s): 0.148

Concentration (ug/L ): 26.0

Time: 13:17

Peak Height (A): 0.149

Background Pk Height (A): 0.080

S-102

Replicate 2

Peak Area (A-s): 0.150

Background Pk Area (A-s): 0.159

Blank Corrected Pk Area (A-s): 0.151

Concentration (ug/L ): 26.6

Time: 13:20

Peak Height (A): 0.145

Background Pk Height (A): 0.078

Mean Conc (ug/L ): 26.3

SD: 0.41

RSD(%): 1.56

J060013 MSA X2

Time: 13:03

Peak Height (A): 0.389

Background Pk Height (A): 0.355

1678

As ID: J06004A Seq. No.: 00017 A/S Pos.: 13 Date: 02/03/93

Replicate 1  
 Peak Area (A-s): 0.262  
 Background Pk Area (A-s): 0.165  
 Blank Corrected Pk Area (A-s): 0.263  
 Concentration (ug/L ): 46.8  
 Time: 13:23  
 Peak Height (A): 0.249  
 Background Pk Height (A): 0.082

Replicate 2  
 Peak Area (A-s): 0.253  
 Background Pk Area (A-s): 0.165  
 Blank Corrected Pk Area (A-s): 0.255  
 Concentration (ug/L ): 45.3  
 Time: 13:25  
 Peak Height (A): 0.238  
 Background Pk Height (A): 0.081

Mean Conc (ug/L ): 46.1 SD: 1.06 RSD(%): 2.31

As ID: CCV(50) Seq. No.: 00018 A/S Pos.: 37 Date: 02/03/93

Replicate 1  
 Peak Area (A-s): 0.269  
 Background Pk Area (A-s): 0.124  
 Blank Corrected Pk Area (A-s): 0.270  
 Concentration (ug/L ): 48.2  
 Time: 13:28  
 Peak Height (A): 0.268  
 Background Pk Height (A): 0.055

Replicate 2  
 Peak Area (A-s): 0.283  
 Background Pk Area (A-s): 0.123  
 Blank Corrected Pk Area (A-s): 0.284  
 Concentration (ug/L ): 50.7  
 Time: 13:31  
 Peak Height (A): 0.299  
 Background Pk Height (A): 0.050

Mean Conc (ug/L ): 49.4 SD: 1.79 RSD(%): 3.63

QC sample is within range 45.0 - 55.0

As ID: CCB Seq. No.: 00019 A/S Pos.: 38 Date: 02/03/93

Replicate 1  
 Peak Area (A-s): -0.002  
 Background Pk Area (A-s): 0.109  
 Blank Corrected Pk Area (A-s): -0.001  
 Concentration (ug/L ): -0.8  
 Time: 13:34  
 Peak Height (A): 0.007  
 Background Pk Height (A): 0.046

Replicate 2  
 Peak Area (A-s): -0.001  
 Background Pk Area (A-s): 0.108  
 Blank Corrected Pk Area (A-s): 0.000  
 Concentration (ug/L ): -0.7  
 Time: 13:37  
 Peak Height (A): 0.007  
 Background Pk Height (A): 0.044

Mean Conc (ug/L ): -0.7 SD: 0.10 RSD(%): 13.19

QC sample is within range

As ID: T057020 MSA Seq. No.: 00020 A/S Pos.: 14 Date: 02/03/93

Replicate 1  
 Time: 13:47

Std. Prepped Date: 2/5/93 8:30 IEA Laboratories  
 200 Monroe Turnpike  
 Start Run Time : 19:26 Monroe, Connecticut 06468  
 (203) 261-4458

Date: 2/5/93  
 page    of   

FURNACE DATA SHEET

1680

Element: TI I.D. Wt. File: TL020593 Instrument 5100 N Analyst A. Jenkins

| Cup | Sample ID | % Sol. | Wt.V/Vol | Dil Factor | Sample Recovery | % Recovery | Flags | Value ug/L,<br>mg/kg |
|-----|-----------|--------|----------|------------|-----------------|------------|-------|----------------------|
| 5   | ICV       |        |          |            | 50.7            | 101.4      |       | 50.7                 |
| 1   | ICB       |        |          |            | -0.0            |            |       | 2.0 U                |
| 2   | CRA       |        |          |            | 9.7             | 97.0       |       | 9.7                  |
| 37  | CCV(50)   |        |          |            | 49.2            | 98.4       |       | 49.2                 |
| 38  | CCB       |        |          |            | -0.0            |            |       | 2.0 U                |
| 6   | Z06001    | 87.6   | 1.15/200 |            | 0.6             |            |       | 0.40 U S-99          |
| 6   | Z06001A   | 87.6   | 1.15/200 |            | 19.2            | 96.0       |       |                      |
| 7   | Z06002    | 86.7   | 1.29/200 |            | 0.6             |            |       | 0.36 U S-100         |
| 7   | Z06002A   | 86.7   | 1.29/200 |            | 19.8            | 99.0       |       |                      |
| 8   | Z06002D   | 86.7   | 1.11/200 |            | 0.7             |            |       | 0.42 U S-100         |
| 8   | Z06002DA  | 86.7   | 1.11/200 |            | 19.7            | 98.5       |       |                      |
| 9   | Z06002S   | 86.7   | 1.17/200 |            | 51.2            | 102.4      |       | 10.1 S-100           |
| 9   | Z06002SA  | 86.7   | 1.17/200 |            | 64.4            | 66.0       | N     | 0.45 U S-101         |
| 10  | Z06003    | 84.7   | 1.06/200 |            | 1.0             |            |       |                      |
| 10  | 3003A     | 84.7   | 1.06/200 |            | 18.7            | 93.5       |       |                      |
| 37  | CCV(50)   |        |          |            | 49.6            | 99.2       |       | 49.6                 |
| 38  | CCB       |        |          |            | -0.0            |            |       | 2.0 U                |
| 11  | Z06004    | 86.2   | 1.15/200 |            | 1.4             |            |       | 0.40 U S-102         |
| 11  | Z06004A   | 86.2   | 1.15/200 |            | 20.3            | 101.5      |       |                      |
| 12  | Z06006    | 100.0  | 100/100  |            | -0.1            |            |       | 2.0 U FIELD BLANK    |
| 12  | Z06006A   | 100.0  | 100/100  |            | 18.7            | 93.5       |       |                      |
| 37  | CCV(50)   |        |          |            | 48.5            | 97.0       |       | 48.5                 |
| 38  | CCB       |        |          |            | 0.2             |            |       | 2.0 U                |

-----  
Element File: TLAUTSPK.GEL  
Date: 02/05/93  
Data File: TL020593.DAT  
Technique: HGA

Element: T1  
Time: 19:26  
ID/Wt File: TL020593.IDW  
Calib. Type: Nonlinear

Wavelength: 276.8  
Slit: 0.70 L  
Lamp Current: 7  
Energy: 54  
-----

T1 ID: Calib. Blank

Seq. No.: 00034

A/S Pos.: 1

Date: 02/05/93 1681

Replicate 1

Peak Area (A-s): -0.001

Background Pk Area (A-s): 0.019

Blank Corrected Pk Area (A-s): -0.001

Time: 19:26

Peak Height (A): 0.009

Background Pk Height (A): 0.023

Replicate 2

Peak Area (A-s): 0.000

Background Pk Area (A-s): 0.018

Blank Corrected Pk Area (A-s): 0.000

Time: 19:29

Peak Height (A): 0.009

Background Pk Height (A): 0.034

Mean Pk Area (A-s): -0.000

SD: 0.0009

RSD(%): 195.61

Auto-zero performed.

-----  
T1 ID: Standard 1

Seq. No.: 00035

A/S Pos.: 2

Date: 02/05/93

Replicate 1

Peak Area (A-s): 0.068

Background Pk Area (A-s): 0.065

Blank Corrected Pk Area (A-s): 0.069

Time: 19:32

Peak Height (A): 0.063

Background Pk Height (A): 0.079

Replicate 2

Peak Area (A-s): 0.065

Background Pk Area (A-s): 0.054

Blank Corrected Pk Area (A-s): 0.066

Time: 19:34

Peak Height (A): 0.069

Background Pk Height (A): 0.076

Mean Pk Area (A-s): 0.067

SD: 0.0020

RSD(%): 2.95

Standard number 1 applied. [10.0]

Correlation coefficient: 1.00000

Slope: 0.0067

-----  
T1 ID: Standard 2

Seq. No.: 00036

A/S Pos.: 3

Date: 02/05/93

Replicate 1

Peak Area (A-s): 0.290

Background Pk Area (A-s): 0.220

Blank Corrected Pk Area (A-s): 0.290

Concentration (ug/L ): 43.2

Time: 19:37

Peak Height (A): 0.285

Background Pk Height (A): 0.247

Replicate 2

Peak Area (A-s): 0.302

Background Pk Area (A-s): 0.250

Blank Corrected Pk Area (A-s): 0.303

Concentration (ug/L ): 45.0

Time: 19:40

Peak Height (A): 0.273

Background Pk Height (A): 0.239

Mean Conc (ug/L ): 44.1

SD: 1.31

RSD(%): 2.97

Standard number 2 applied. [50.0]

Correlation coefficient: 1.00000

Slope: 0.0070

1682

~~~~~  
T1 ID: Standard 3

Seq. No.: 00037

A/S Pos.: 4

Date: 02/05/93

Replicate 1

Peak Area (A-s): 0.507

Background Pk Area (A-s): 0.428

Blank Corrected Pk Area (A-s): 0.508

Concentration (ug/L ): 97.7

Time: 19:43

Peak Height (A): 0.447

Background Pk Height (A): 0.442

Replicate 2

Peak Area (A-s): 0.497

Background Pk Area (A-s): 0.415

Blank Corrected Pk Area (A-s): 0.497

Concentration (ug/L ): 95.0

Time: 19:45

Peak Height (A): 0.454

Background Pk Height (A): 0.458

Mean Conc (ug/L ): 96.3

SD: 1.90

RSD(%): 1.97

Standard number 3 applied. [100.0]

Correlation coefficient: 1.00000

Slope: 0.0069

~~~~~  
T1 ID: ICV

Seq. No.: 00038

A/S Pos.: 5

Date: 02/05/93

Replicate 1

Peak Area (A-s): 0.304

Background Pk Area (A-s): 0.238

Blank Corrected Pk Area (A-s): 0.304

Concentration (ug/L ): 51.6

Time: 19:48

Peak Height (A): 0.285

Background Pk Height (A): 0.251

Replicate 2

Peak Area (A-s): 0.295

Background Pk Area (A-s): 0.229

Blank Corrected Pk Area (A-s): 0.295

Concentration (ug/L ): 49.7

Time: 19:51

Peak Height (A): 0.299

Background Pk Height (A): 0.255

Mean Conc (ug/L ): 50.7

SD: 1.33

RSD(%): 2.63

QC sample is within range 45 - 55

~~~~~  
T1 ID: ICB

Seq. No.: 00039

A/S Pos.: 1

Date: 02/05/93

Replicate 1

Peak Area (A-s): 0.000

Background Pk Area (A-s): 0.020

Blank Corrected Pk Area (A-s): 0.001

Concentration (ug/L ): 0.1

Time: 19:54

Peak Height (A): 0.008

Background Pk Height (A): 0.041

Replicate 2

Peak Area (A-s): -0.001

Background Pk Area (A-s): 0.016

Blank Corrected Pk Area (A-s): -0.001

Concentration (ug/L ): -0.1

Time: 19:56

Peak Height (A): 0.009

Background Pk Height (A): 0.038

Mean Conc (ug/L ): -0.0

SD: 0.12

RSD(%): 1505.56

QC sample is within range

~~~~~  
T1 ID: CRA Seq. No.: 00040 A/S Pos.: 2 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.063 Time: 19:59  
Background Pk Area (A-s): 0.071 Peak Height (A): 0.061  
Blank Corrected Pk Area (A-s): 0.064 Background Pk Height (A): 0.090  
Concentration (ug/L ): 9.5 **P683**

Replicate 2  
Peak Area (A-s): 0.066 Time: 20:02  
Background Pk Area (A-s): 0.065 Peak Height (A): 0.061  
Blank Corrected Pk Area (A-s): 0.066 Background Pk Height (A): 0.090  
Concentration (ug/L ): 9.8

Mean Conc (ug/L ): 9.7 SD: 0.25 RSD(%): 2.62

QC sample is within range

~~~~~  
T1 ID: CCV(50) Seq. No.: 00041 A/S Pos.: 37 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.294 Time: 20:05  
Background Pk Area (A-s): 0.229 Peak Height (A): 0.246  
Blank Corrected Pk Area (A-s): 0.295 Background Pk Height (A): 0.231  
Concentration (ug/L ): 49.7

Replicate 2  
Peak Area (A-s): 0.290 Time: 20:07  
Background Pk Area (A-s): 0.225 Peak Height (A): 0.243  
Blank Corrected Pk Area (A-s): 0.290 Background Pk Height (A): 0.233  
Concentration (ug/L ): 48.8

Mean Conc (ug/L ): 49.2 SD: 0.63 RSD(%): 1.29

QC sample is within range 45 - 55

~~~~~  
T1 ID: CCB Seq. No.: 00042 A/S Pos.: 38 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.000 Time: 20:10  
Background Pk Area (A-s): 0.039 Peak Height (A): 0.010  
Blank Corrected Pk Area (A-s): 0.001 Background Pk Height (A): 0.056  
Concentration (ug/L ): 0.1

Replicate 2  
Peak Area (A-s): -0.001 Time: 20:13  
Background Pk Area (A-s): 0.030 Peak Height (A): 0.010  
Blank Corrected Pk Area (A-s): -0.001 Background Pk Height (A): 0.054  
Concentration (ug/L ): -0.1

Mean Conc (ug/L ): -0.0 SD: 0.17 RSD(%): 604.32

QC sample is within range

~~~~~  
T1 ID: Z06001 Seq. No.: 00043 A/S Pos.: 6 Date: 02/05/93

Replicate 1 *S-99* Time: 20:16  
Peak Area (A-s): 0.005 Peak Height (A): 0.014  
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.082 **1684**  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.9

Replicate 2 Time: 20:18  
Peak Area (A-s): 0.002 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.109 Background Pk Height (A): 0.086  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.4

Mean Conc (ug/L ): 0.6 SD: 0.33 RSD(%): 54.86

~~~~~  
T1 ID: Z06001 *A* Seq. No.: 00044 A/S Pos.: 6 Date: 02/05/93

Replicate 1 Time: 20:21  
Peak Area (A-s): 0.126 Peak Height (A): 0.175  
Background Pk Area (A-s): 0.172 Background Pk Height (A): 0.148  
Blank Corrected Pk Area (A-s): 0.127  
Concentration (ug/L ): 19.4

Replicate 2 Time: 20:25  
Peak Area (A-s): 0.124 Peak Height (A): 0.175  
Background Pk Area (A-s): 0.189 Background Pk Height (A): 0.139  
Blank Corrected Pk Area (A-s): 0.124  
Concentration (ug/L ): 19.0

Mean Conc (ug/L ): 19.2 SD: 0.29 RSD(%): 1.53

Recovery is 93.0%

~~~~~  
T1 ID: Z06002 Seq. No.: 00045 A/S Pos.: 7 Date: 02/05/93

Replicate 1 *S-100* Time: 20:27  
Peak Area (A-s): 0.005 Peak Height (A): 0.017  
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.118  
Blank Corrected Pk Area (A-s): 0.005  
Concentration (ug/L ): 0.7

Replicate 2 Time: 20:30  
Peak Area (A-s): 0.003 Peak Height (A): 0.015  
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.116  
Blank Corrected Pk Area (A-s): 0.003  
Concentration (ug/L ): 0.5

Mean Conc (ug/L ): 0.6 SD: 0.17 RSD(%): 27.38

~~~~~  
T1 ID: Z06002 *A* Seq. No.: 00046 A/S Pos.: 7 Date: 02/05/93

Replicate 1 Time: 20:33  
Peak Area (A-s): 0.129 Peak Height (A): 0.185  
Background Pk Area (A-s): 0.179 Background Pk Height (A): 0.143

Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 19.8

206002A

Replicate 2  
Peak Area (A-s): 0.128  
Background Pk Area (A-s): 0.186  
Blank Corrected Pk Area (A-s): 0.129  
Concentration (ug/L ): 19.7

Time: 20:36  
Peak Height (A): 0.177  
Background Pk Height (A): 0.140<sup>1685</sup>

Mean Conc (ug/L ): 19.8 SD: 0.02 RSD(%): 0.11

Recovery is 95.7% .

~~~~~  
T1 ID: Z06002D Seq. No.: 00047 A/S Pos.: 8 Date: 02/05/93

Replicate 1 S-100  
Peak Area (A-s): 0.004  
Background Pk Area (A-s): 0.082  
Blank Corrected Pk Area (A-s): 0.004  
Concentration (ug/L ): 0.6

Time: 20:39  
Peak Height (A): 0.016  
Background Pk Height (A): 0.106

Replicate 2  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.082  
Blank Corrected Pk Area (A-s): 0.006  
Concentration (ug/L ): 0.9

Time: 20:42  
Peak Height (A): 0.015  
Background Pk Height (A): 0.112

Mean Conc (ug/L ): 0.7 SD: 0.22 RSD(%): 30.31

~~~~~  
1 ID: Z06002D A Seq. No.: 00048 A/S Pos.: 8 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.132  
Background Pk Area (A-s): 0.163  
Blank Corrected Pk Area (A-s): 0.133  
Concentration (ug/L ): 20.4

Time: 20:45  
Peak Height (A): 0.183  
Background Pk Height (A): 0.150

Replicate 2  
Peak Area (A-s): 0.124  
Background Pk Area (A-s): 0.182  
Blank Corrected Pk Area (A-s): 0.124  
Concentration (ug/L ): 19.0

Time: 20:48  
Peak Height (A): 0.173  
Background Pk Height (A): 0.132

Mean Conc (ug/L ): 19.7 SD: 1.00 RSD(%): 5.11

Recovery is 94.6%

~~~~~  
T1 ID: Z06002S Seq. No.: 00049 A/S Pos.: 9 Date: 02/05/93

Replicate 1 S-100  
Peak Area (A-s): 0.300  
Background Pk Area (A-s): 0.312  
Blank Corrected Pk Area (A-s): 0.300  
Concentration (ug/L ): 50.8

Time: 20:51  
Peak Height (A): 0.371  
Background Pk Height (A): 0.349

Replicate 2 Time: 20:54

Peak Area (A-s): 0.304  
Background Pk Area (A-s): 0.317  
Blank Corrected Pk Area (A-s): 0.304  
Concentration (ug/L ): 51.6

2060025

Peak Height (A): 0.375  
Background Pk Height (A): 0.384

1686

Mean Conc (ug/L ): 51.2 SD: 0.62 RSD(%): 1.21

~~~~~  
T1 ID: Z06002S Seq. No.: 00050 A/S Pos.: 9 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.366  
Background Pk Area (A-s): 0.384  
Blank Corrected Pk Area (A-s): 0.366  
Concentration (ug/L ): 64.9

Time: 20:57  
Peak Height (A): 0.441  
Background Pk Height (A): 0.423

Replicate 2  
Peak Area (A-s): 0.362  
Background Pk Area (A-s): 0.372  
Blank Corrected Pk Area (A-s): 0.362  
Concentration (ug/L ): 64.0

2/8

Time: 21:00  
Peak Height (A): 0.432  
Background Pk Height (A): 0.423

Mean Conc (ug/L ): 64.4 SD: 0.60 RSD(%): 0.92

Recovery is 66.2% (outside of specified limits)

~~~~~  
T1 ID: Z06003 Seq. No.: 00051 A/S Pos.: 10 Date: 02/05/93

S-101

Replicate 1  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.119  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 0.9

Time: 21:03  
Peak Height (A): 0.014  
Background Pk Height (A): 0.187

Replicate 2  
Peak Area (A-s): 0.006  
Background Pk Area (A-s): 0.117  
Blank Corrected Pk Area (A-s): 0.007  
Concentration (ug/L ): 1.0

Time: 21:05  
Peak Height (A): 0.017  
Background Pk Height (A): 0.188

Mean Conc (ug/L ): 1.0 SD: 0.02 RSD(%): 2.07

~~~~~  
T1 ID: Z06003 A Seq. No.: 00052 A/S Pos.: 10 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.120  
Background Pk Area (A-s): 0.205  
Blank Corrected Pk Area (A-s): 0.121  
Concentration (ug/L ): 18.4

Time: 21:08  
Peak Height (A): 0.194  
Background Pk Height (A): 0.158

Replicate 2  
Peak Area (A-s): 0.124  
Background Pk Area (A-s): 0.200  
Blank Corrected Pk Area (A-s): 0.124  
Concentration (ug/L ): 19.0

Time: 21:12  
Peak Height (A): 0.199  
Background Pk Height (A): 0.159

Mean Conc (ug/L ): 18.7 SD: 0.41 RSD(%): 2.18

Recovery is 88.8%

~~~~~  
T1 ID: CCV(50) Seq. No.: 00053 A/S Pos.: 37 Date: 02/05/93 1687

Replicate 1  
Peak Area (A-s): 0.293 Time: 21:14  
Background Pk Area (A-s): 0.217 Peak Height (A): 0.262  
Blank Corrected Pk Area (A-s): 0.293 Background Pk Height (A): 0.218  
Concentration (ug/L ): 49.4

Replicate 2  
Peak Area (A-s): 0.295 Time: 21:17  
Background Pk Area (A-s): 0.227 Peak Height (A): 0.258  
Blank Corrected Pk Area (A-s): 0.296 Background Pk Height (A): 0.228  
Concentration (ug/L ): 49.8

Mean Conc (ug/L ): 49.6 SD: 0.32 RSD(%): 0.64

QC sample is within range 45 - 55

~~~~~  
T1 ID: CCB Seq. No.: 00054 A/S Pos.: 38 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.001 Time: 21:20  
Background Pk Area (A-s): 0.015 Peak Height (A): 0.012  
Blank Corrected Pk Area (A-s): 0.001 Background Pk Height (A): 0.033  
Concentration (ug/L ): 0.1

Replicate 2  
Peak Area (A-s): -0.002 Time: 21:23  
Background Pk Area (A-s): 0.018 Peak Height (A): 0.010  
Blank Corrected Pk Area (A-s): -0.001 Background Pk Height (A): 0.035  
Concentration (ug/L ): -0.2

Mean Conc (ug/L ): -0.0 SD: 0.24 RSD(%): 888.76

QC sample is within range

~~~~~  
T1 ID: Z06004 Seq. No.: 00055 A/S Pos.: 11 Date: 02/05/93

Replicate 1 S-102  
Peak Area (A-s): 0.009 Time: 21:25  
Background Pk Area (A-s): 0.073 Peak Height (A): 0.024  
Blank Corrected Pk Area (A-s): 0.009 Background Pk Height (A): 0.072  
Concentration (ug/L ): 1.4

Replicate 2  
Peak Area (A-s): 0.010 Time: 21:28  
Background Pk Area (A-s): 0.086 Peak Height (A): 0.024  
Blank Corrected Pk Area (A-s): 0.010 Background Pk Height (A): 0.083  
Concentration (ug/L ): 1.5

Mean Conc (ug/L ): 1.4 SD: 0.09 RSD(%): 6.17

~~~~~  
T1 ID: Z06004A Seq. No.: 00056 A/S Pos.: 11 Date: 02/05/93 1688

Replicate 1  
Peak Area (A-s): 0.131  
Background Pk Area (A-s): 0.166  
Blank Corrected Pk Area (A-s): 0.132  
Concentration (ug/L ): 20.2  
Time: 21:31  
Peak Height (A): 0.208  
Background Pk Height (A): 0.156

Replicate 2  
Peak Area (A-s): 0.132  
Background Pk Area (A-s): 0.162  
Blank Corrected Pk Area (A-s): 0.133  
Concentration (ug/L ): 20.3  
Time: 21:34  
Peak Height (A): 0.200  
Background Pk Height (A): 0.150

Mean Conc (ug/L ): 20.3 SD: 0.10 RSD(%): 0.49

Recovery is 94.2%

~~~~~  
T1 ID: Z06006 Seq. No.: 00057 A/S Pos.: 12 Date: 02/05/93

FIELD BLANK

Replicate 1  
Peak Area (A-s): -0.001  
Background Pk Area (A-s): 0.017  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.1  
Time: 21:37  
Peak Height (A): 0.008  
Background Pk Height (A): 0.031

Replicate 2  
Peak Area (A-s): -0.002  
Background Pk Area (A-s): 0.033  
Blank Corrected Pk Area (A-s): -0.001  
Concentration (ug/L ): -0.2  
Time: 21:39  
Peak Height (A): 0.009  
Background Pk Height (A): 0.061

Mean Conc (ug/L ): -0.1 SD: 0.04 RSD(%): 34.61

~~~~~  
T1 ID: Z06006A Seq. No.: 00058 A/S Pos.: 12 Date: 02/05/93

Replicate 1  
Peak Area (A-s): 0.123  
Background Pk Area (A-s): 0.090  
Blank Corrected Pk Area (A-s): 0.123  
Concentration (ug/L ): 18.9  
Time: 21:42  
Peak Height (A): 0.168  
Background Pk Height (A): 0.133

Replicate 2  
Peak Area (A-s): 0.121  
Background Pk Area (A-s): 0.088  
Blank Corrected Pk Area (A-s): 0.122  
Concentration (ug/L ): 18.6  
Time: 21:46  
Peak Height (A): 0.165  
Background Pk Height (A): 0.133

Mean Conc (ug/L ): 18.7 SD: 0.18 RSD(%): 0.97

Recovery is 94.3%

~~~~~  
1 ID: CCV(50) Seq. No.: 00059 A/S Pos.: 37 Date: 02/05/93

Replicate 1  
Time: 21:48

Peak Area (A-s): 0.297  
Background Pk Area (A-s): 0.224 *CCV(9)* Peak Height (A): 0.285  
Blank Corrected Pk Area (A-s): 0.298 Background Pk Height (A): 1689  
Concentration (ug/L ): 50.3

Replicate 2  
Peak Area (A-s): 0.280 Time: 21:51  
Background Pk Area (A-s): 0.199 Peak Height (A): 0.294  
Blank Corrected Pk Area (A-s): 0.280 Background Pk Height (A): 0.249  
Concentration (ug/L ): 46.8

Mean Conc (ug/L ): 48.5 SD: 2.46 RSD(%): 5.07

QC sample is within range 45 - 55

~~~~~  
T1 ID: CCB Seq. No.: 00060 A/S Pos.: 38 Date: 02/05/93

Replicate 1  
Peak Area (A-s): -0.001 Time: 21:54  
Background Pk Area (A-s): 0.026 Peak Height (A): 0.009  
Blank Corrected Pk Area (A-s): -0.001 Background Pk Height (A): 0.046  
Concentration (ug/L ): -0.1

Replicate 2  
Peak Area (A-s): 0.003 Time: 21:56  
Background Pk Area (A-s): 0.006 Peak Height (A): 0.012  
Blank Corrected Pk Area (A-s): 0.004 Background Pk Height (A): 0.032  
Concentration (ug/L ): 0.5

Mean Conc (ug/L ): 0.2 SD: 0.48 RSD(%): 239.80

QC sample is within range

IEA  
200 Monroe Turnpike  
Monroe CT 06468 (203) 452-8200

1690

Std Prepped Date: 2/8/93

Start Run Time: 16:00

FURNACE DATA SHEET

Date: 2/8/93

Element: FB

I.D. Wt. File: \_\_\_\_\_

Instrument: 3030

Analyst: J. Micken

| Cup | Element | Sample ID     | % Solids | Wt. Vol/ Vol | Dil. Factor | Sample Recovery | % Recovery | Flags | Value ug/L, mg/Kg |
|-----|---------|---------------|----------|--------------|-------------|-----------------|------------|-------|-------------------|
| 5   |         | ICV           |          |              |             |                 |            |       |                   |
| 6   |         | ICB           |          |              |             | 50.3            | 100.6      |       |                   |
| 7   |         | CRA           |          |              |             | 0.4             |            |       |                   |
| 8   |         | CCV(50)       |          |              |             | 2.7             | 90.0       |       | 1.04              |
| 9   |         | CCB           |          |              |             | 48.6            | 97.2       |       |                   |
| 10  |         | 2060 01       | 87.6     | 1.15/200     | X20         | -0.6            |            |       | 1.04              |
| 11  |         | 01A           |          |              |             | 15.6            |            | S-99  | 61.9              |
| 12  |         | 2060 03       | 84.7     | 1.06/200     | X100        | 35.1            | 97.5       |       |                   |
| 13  |         | 03A           |          |              |             | 53.6            |            | S-101 | 1194              |
| 14  |         | 2060 04       | 86.2     | 1.15/200     | X20         | 75.3            | 108.5      |       |                   |
| 15  |         | 04A           |          |              |             | 19.5            |            | S-102 | 393               |
| 16  |         | USA F067 15 0 | Blank    | 100/100      | X2          | 38.8            | 96.5       |       |                   |
| 17  |         | 1             | 13ppb    |              |             | 24.9            | 0.112      |       |                   |
| 18  |         | 2             | 26ppb    |              |             | 38.3            | 0.165      |       |                   |
| 19  |         | 3             | 39ppb    |              |             | 50.3            | 0.210      |       |                   |
| 20  |         | CCV(50)       |          |              |             | 64.4            | 0.262      |       |                   |
| 21  |         | CCB           |          |              |             | 48.3            | 96.6       |       |                   |
| 22  |         | F067 18       |          |              |             | 0.2             |            |       |                   |
| 23  |         | 18A           |          |              |             | 20.259          |            |       | 1.04              |
| 24  |         | CCV(50)       |          |              |             | 45.1            | 96.0       |       | 518               |
| 25  |         | CCB           |          |              |             | 6.1             |            |       |                   |
| 26  |         | 2072 01       |          | 100/100      |             |                 |            |       |                   |
| 27  |         | 01A           |          |              |             | 0.1             |            |       | 1.04              |
| 28  |         | 2072 01D      |          |              |             | 19.1            | 95.5       |       |                   |
| 29  |         | 01DA          |          |              |             | 0.6             |            |       | 1.04              |
| 30  |         | 2072 01S      |          |              |             | 18.5            | 92.5       |       |                   |
| 31  |         | 2111 01       |          |              |             | 18.1            | 90.5       |       | 18.1              |
| 32  |         | 01A           |          |              |             | 1.3             |            |       | 3.04 + 3.04       |
| 33  |         | CLV(50)       |          |              |             | 18.7            | 87.0       |       |                   |
| 34  |         | CCB           |          |              |             | 50.0            | 100.0      |       |                   |
| 35  |         | F098 01       |          |              |             | 0.2             |            |       | 1.04              |
| 36  |         | 01A           |          |              |             | 0.4             |            |       | 1.04              |
| 37  |         | T098 01       |          |              |             | 18.0            | 90.0       |       |                   |
| 38  |         | 01A           |          |              |             | 22.4            |            |       | 22.4              |
| 39  |         | 210301        |          |              |             | 42.1            | 98.5       |       |                   |
| 40  |         | 01A           |          |              |             | 7.7             |            |       | 7.7               |
| 41  |         | CCV(50)       |          |              |             | 27.1            | 92.0       |       |                   |
| 42  |         | CCB           |          |              |             | 49.3            | 98.6       |       |                   |
|     |         |               |          |              |             | 0.0             |            |       | 1.04              |

PE

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

30

AA  
0.235  
0.248

ZAA  
0.005  
0.003

BC  
0.231  
0.246

AD: 0.003

1691

T=16.00

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.246  
0.241

ZAA  
0.012  
0.001

BC  
0.242  
0.240

READ: 0.001

MEAN= 0.002 STD.DEV.= 0.001 COEF.VAR.= 47.60 %

0.000 AUTOZERO

PE

33

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.247  
0.246

ZAA  
0.021  
0.018

BC  
0.244  
0.228

READ: 0.016

1605

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.240  
0.210

ZAA  
0.022  
0.016

BC  
0.238  
0.194

READ: 0.014

N= 0.015 STD.DEV.= 0.002 COEF.VAR.= 10.80 %

3.0 STANDARD 1

PE

550

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.387  
0.519

ZAA  
0.274  
0.211

BC  
0.264  
0.308

READ: 41.1

1610

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.382  
0.486

ZAA  
0.275  
0.207

BC  
0.256  
0.279

READ: 40.4

MEAN= 40.8 STD.DEV.= 0.5 COEF.VAR.= 1.19 %

40.8

E-50: READING GREATER THAN HIGHEST STANDARD

50.0 STANDARD 2

PE

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

5100

AA  
0.688  
0.735

ZAA  
0.488  
0.389

BC  
0.264  
0.346

READ: 118.7

1615

(CONTINUED)

|                          | AA    | ZAA   | EG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.687 | 0.428 | 0.274 |
| PEAK AREA (ABS-SECONDS)  | 0.750 | 0.392 | 0.358 |

READ: 120.0

MEAN= 119.4 STD. DEV. = 1.2 COEF. VAR. = 1.01 %

\*\*\*\*\*  
 119.4

E-50: READING GREATER THAN HIGHEST STANDARD

\*\*\*\*\*  
 100.0 STANDARD 3

PE 0005

|                          | AA    | ZAA   | EG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.388 | 0.280 | 0.243 |
| PEAK AREA (ABS-SECONDS)  | 0.482 | 0.208 | 0.274 |

READ: 49.8

|                          | AA    | ZAA   | EG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.407 | 0.285 | 0.250 |
| PEAK AREA (ABS-SECONDS)  | 0.509 | 0.212 | 0.297 |

READ: 50.7

MEAN= 50.3 STD. DEV. = 0.7 COEF. VAR. = 1.30 %

\*\*\*\*\*  
 PE 0006

|                          | AA    | ZAA   | EG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.238 | 0.006 | 0.238 |
| PEAK AREA (ABS-SECONDS)  | 0.229 | 0.006 | 0.223 |

READ: 0.8

|                          | AA    | ZAA   | EG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.245 | 0.006 | 0.244 |
| PEAK AREA (ABS-SECONDS)  | 0.252 | 0.002 | 0.250 |

READ: 0.1

MEAN= 0.4 STD. DEV. = 0.5 COEF. VAR. = 99.99 %

\*\*\*\*\*  
 PE 0007

|                          | AA    | ZAA   | EG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.238 | 0.022 | 0.234 |
| PEAK AREA (ABS-SECONDS)  | 0.246 | 0.015 | 0.231 |

READ: 2.6

|                          | AA    | ZAA   | EG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.251 | 0.025 | 0.247 |
| PEAK AREA (ABS-SECONDS)  | 0.256 | 0.017 | 0.240 |

READ: 2.8

CRA

MEAN= 2.7 STD. DEV. = 0.2 COEF. VAR. = 6.17 %

\*\*\*\*\*

PE 0008

CCV(50)

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.389 | 0.272 | 0.255 |
| PEAK AREA (ABS-SECONDS)  | 0.511 | 0.204 | 0.307 |

READ: 48.6

1635

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.400 | 0.281 | 0.270 |
| PEAK AREA (ABS-SECONDS)  | 0.519 | 0.203 | 0.315 |

READ: 48.5

MEAN= 48.6 STD. DEV. = 0.1 COEF. VAR. = 0.15 %

\*\*\*\*\*

PE 0009

CCB

|                          | AA    | ZAA    | BC    |
|--------------------------|-------|--------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.259 | 0.005  | 0.260 |
| PEAK AREA (ABS-SECONDS)  | 0.246 | -0.001 | 0.247 |

READ: -0.6

1640

|                          | AA    | ZAA    | BC    |
|--------------------------|-------|--------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.262 | 0.006  | 0.264 |
| PEAK AREA (ABS-SECONDS)  | 0.259 | -0.001 | 0.259 |

READ: -0.5

MEAN= -0.6 STD. DEV. = 0.1 COEF. VAR. = 17.89 %

\*\*\*\*\*

PE 0010

206001

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.272 | 0.113 | 0.256 |
| PEAK AREA (ABS-SECONDS)  | 0.346 | 0.073 | 0.272 |

READ: 15.4

1645

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.269 | 0.111 | 0.257 |
| PEAK AREA (ABS-SECONDS)  | 0.375 | 0.075 | 0.300 |

READ: 15.8

MEAN= 15.6 STD. DEV. = 0.3 COEF. VAR. = 1.70 %

\*\*\*\*\*

PE 0011

206001A

|                          | AA    | ZAA   | BC    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.307 | 0.220 | 0.254 |

PEAK AREA (ABS-SECONDS) 0.465 0.152 6.311694

READ: 35.0

206001A

1650

|                          | AA    | ZAA   | BG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.292 | 0.210 | 0.249 |
| PEAK AREA (ABS-SECONDS)  | 0.465 | 0.153 | 0.312 |

READ: 35.3

MEAN= 35.1 STD. DEV. = 0.2 COEF. VAR. = 0.63 %

\*\*\*\*\*

PB 0012

206003

|                          | AA    | ZAA   | BG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.423 | 0.297 | 0.260 |
| PEAK AREA (ABS-SECONDS)  | 0.566 | 0.223 | 0.343 |

READ: 53.7

1655

|                          | AA    | ZAA   | BG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.425 | 0.298 | 0.264 |
| PEAK AREA (ABS-SECONDS)  | 0.563 | 0.222 | 0.341 |

READ: 53.5

MEAN= 53.6 STD. DEV. = 0.2 COEF. VAR. = 0.36 %

\*\*\*\*\*

PB 0013

206003A

|                          | AA    | ZAA   | BG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.576 | 0.403 | 0.284 |
| PEAK AREA (ABS-SECONDS)  | 0.702 | 0.304 | 0.398 |

READ: 75.9

1700

|                          | AA    | ZAA   | BG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.548 | 0.387 | 0.271 |
| PEAK AREA (ABS-SECONDS)  | 0.670 | 0.300 | 0.370 |

READ: 74.7

MEAN= 75.3 STD. DEV. = 0.9 COEF. VAR. = 1.15 %

\*\*\*\*\*

PB 0014

206004

|                          | AA    | ZAA   | BG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.271 | 0.123 | 0.257 |
| PEAK AREA (ABS-SECONDS)  | 0.392 | 0.091 | 0.301 |

READ: 19.5

1705

|                          | AA    | ZAA   | BG    |
|--------------------------|-------|-------|-------|
| PEAK HEIGHT (ABSORBANCE) | 0.280 | 0.128 | 0.268 |
| PEAK AREA (ABS-SECONDS)  | 0.384 | 0.090 | 0.294 |

READ: 19.4

-----  
MEAN= 19.5 STD.DEV.= 2060.04 COEF.VAR.= 0.56 % S-102  
\*\*\*\*\*  
PB 0015

2060 04A  
K HEIGHT (ABSORBANCE) AA 0.318 ZAA 0.227 1695  
PEAK AREA (ABS-SECONDS) 0.489 0.165 0.268  
0.324

READ: 38.4 ----- 1710

PEAK HEIGHT (ABSORBANCE) AA 0.320 ZAA 0.225 BC 0.257  
PEAK AREA (ABS-SECONDS) 0.507 0.168 0.339

READ: 39.1

-----  
MEAN= 38.8 STD.DEV.= 0.6 COEF.VAR.= 1.44 %  
\*\*\*\*\*

PE 0016 MSA 7067 15 0 X2  
PEAK HEIGHT (ABSORBANCE) AA 0.338 ZAA 0.132 BC 0.323  
PEAK AREA (ABS-SECONDS) 0.499 0.112 0.388

READ: 24.7 ----- 1715

PEAK HEIGHT (ABSORBANCE) AA 0.348 ZAA 0.133 BC 0.332  
PEAK AREA (ABS-SECONDS) 0.520 0.113 0.406

READ: 25.1

-----  
MEAN= 24.9 STD.DEV.= 0.3 COEF.VAR.= 1.28 %  
\*\*\*\*\*  
PB 0017

MSA 7067 15 1 X2  
PEAK HEIGHT (ABSORBANCE) AA 0.347 ZAA 0.193 BC 0.327  
PEAK AREA (ABS-SECONDS) 0.594 0.166 0.428

READ: 38.6 ----- 1720

PEAK HEIGHT (ABSORBANCE) AA 0.343 ZAA 0.193 BC 0.328  
PEAK AREA (ABS-SECONDS) 0.612 0.164 0.449

READ: 38.0

-----  
MEAN= 38.3 STD.DEV.= 0.5 COEF.VAR.= 1.21 %  
\*\*\*\*\*  
PB 0018

MSA 7067 15 2 X2  
PEAK HEIGHT (ABSORBANCE) AA 0.374 ZAA 0.257 BC 0.327  
PEAK AREA (ABS-SECONDS) 0.672 0.209 0.463

READ: 50.1

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

~~MSA T067~~ AA 15 2  
0.371  
0.683

ZAA X2  
0.253  
0.211

BC 1725  
0.319  
0.472 1696

READ: 50.5

MEAN= 50.3 STD.DEV.= 0.3 COEF.VAR.= 0.54 %

PE 0019

~~MSA T067~~ AA 15 3 X2

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.464  
0.744

ZAA  
0.321  
0.262

BC  
0.330  
0.482

READ: 64.4

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.456  
0.755

ZAA  
0.314  
0.262

BC  
0.343  
0.493

READ: 64.3

MEAN= 64.4 STD.DEV.= 0.1 COEF.VAR.= 0.18 %

PE 0020

CCV(50)

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.431  
0.584

ZAA  
0.302  
0.208

BC  
0.270  
0.376

READ: 49.7

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.413  
0.573

ZAA  
0.292  
0.197

BC  
0.275  
0.376

READ: 46.9

MEAN= 48.3 STD.DEV.= 2.0 COEF.VAR.= 4.20 %

PE 0021

CCB

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.258  
0.291

ZAA  
0.006  
0.003

BC  
0.258  
0.288

READ: 0.1

PEAK HEIGHT (ABSORBANCE)  
PEAK AREA (ABS-SECONDS)

AA  
0.266  
0.296

ZAA  
0.006  
0.004

BC  
0.265  
0.292

READ: 0.3

MEAN= 0.2 STD.DEV.= 0.1 COEF.VAR.= 62.31 %

IEA  
200 Monroe Turnpike  
Monroe, CT 06468 (203) 452-8200

1697

MERCURY RUN LOG

Matrix: water/soil

Job #: 0045, 0060, 0064

Analyst: *H. Candler*

Date: 1/29/93

Page 1 of 1

| Sample ID                       | Bottle ID | Time  | Sample ID                | Bottle ID | Time  |
|---------------------------------|-----------|-------|--------------------------|-----------|-------|
| S0:0                            | 1         | 14:09 | 0060005 <sup>CS-43</sup> | 22        | 14:32 |
| S0.5                            | 2         | 14:10 | 0064001                  | 23        | 14:33 |
| S1.0                            | 3         | 14:11 | 001D                     | 24        | 14:34 |
| S2:0                            | 4         | 14:12 | 001S                     | 25        | 14:35 |
| S5:0                            | 5         | 14:13 | CCV3                     | 81        | 14:26 |
| S10:0                           | 6         | 14:14 | CCB3                     | 91        | 14:37 |
| ICV                             | 7         | 14:15 |                          |           |       |
| ICB                             | 8         | 14:16 |                          |           |       |
| CCV1                            | 9         | 14:17 |                          |           |       |
| CCB1                            | 10        | 14:18 |                          |           |       |
| PBS <sup>J20045,0060,0064</sup> | 11        | 14:19 |                          |           |       |
| LCSS                            | 12        | 14:20 |                          |           |       |
| 0045006                         | 13        | 14:21 |                          |           |       |
| 007                             | 14        | 14:22 |                          |           |       |
| 008                             | 15        | 14:23 |                          |           |       |
| 0060001 <sup>S-99</sup>         | 16        | 14:24 |                          |           |       |
| 002 <sup>S-100</sup>            | 17        | 14:25 |                          |           |       |
| 002D <sup>S-100(2)</sup>        | 18        | 14:26 |                          |           |       |
| 002S <sup>S-100(3)</sup>        | 19        | 14:27 |                          |           |       |
| 003 <sup>S-101</sup>            | 20        | 14:28 |                          |           |       |
| CCV2                            | 80        | 14:29 |                          |           |       |
| CCB2                            | 90        | 14:30 |                          |           |       |
| 0012024 <sup>S-102</sup>        | 21        | 14:31 |                          |           |       |

128  
200 MCARD TUNAPINE  
MORRIS, CONNECTICUT 06468  
(203) 261-4458

1698

PARAMETER: Mercury

MATRIX: SOIL

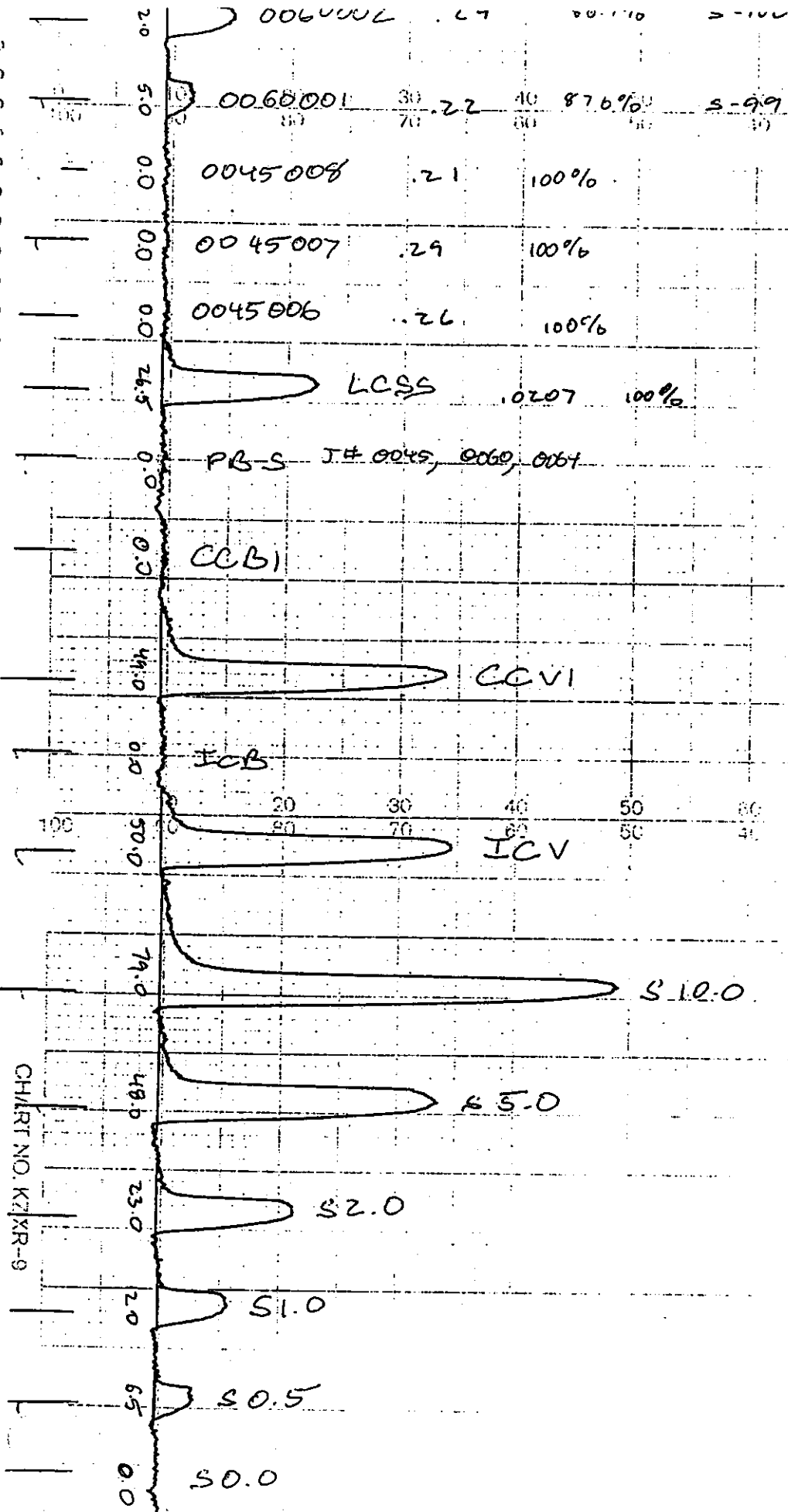
JOB #(s): 0060,0064,0045

| Sample / Standard  | Pk. Wt. (in mg) | Calc'd (ug/i)    | Initial Wt. (g) | Final Vol(ml)  | % Solids | Dilution Factor | Value Rptd (mg/Kg) | BA Concentration units (mg/Kg)  |
|--------------------|-----------------|------------------|-----------------|----------------|----------|-----------------|--------------------|---------------------------------|
| S0                 | 0.0             |                  |                 | 100            |          |                 |                    | Sample Number 0060002           |
| S0.5               | 6.5             |                  |                 | 100            |          |                 |                    | Sample Conc. 0.49               |
| S1.0               | 12.0            |                  |                 | 100            |          |                 |                    | Dup Conc. 0.54                  |
| S2.0               | 23.0            |                  |                 | 100            |          |                 |                    | RPD 9.2%                        |
| S5.0               | 48.0            |                  |                 | 100            |          |                 |                    | Spike                           |
| S10.0              | 79.0            |                  |                 | 100            |          |                 |                    | True Conc. 0.55                 |
| ICV                | 50.0            | 5.17             |                 | 100            |          |                 | 103.3%             | Found Conc. 0.55                |
|                    | 0.0             | -0.07            |                 | 100            |          |                 | 0.20U              | Percent Recovery 99.9%          |
| CCV1               | 49.0            | 5.04             |                 | 100            |          |                 | 100.7%             | ICV                             |
| CCB1               | 0.0             | -0.07            |                 | 100            |          |                 | 0.20U              | True Conc. 5.00                 |
| PBS                | 0.0             | -0.07            |                 | 100            |          |                 | 0.00U              | Found Conc. 5.17                |
| LCSS               | 26.5            | 2.45             | 0.02070         | 100            |          |                 | 11.8               | Percent Recovery 103.3%         |
| <del>0045006</del> | <del>0.0</del>  | <del>-0.07</del> | <del>0.26</del> | <del>100</del> |          |                 | <del>0.08U</del>   | LCS                             |
| 0045007            | 0.0             | -0.07            | 0.29            | 100            |          |                 | 0.07U              | True Conc. 12.70                |
| 0045008            | 0.0             | -0.07            | 0.21            | 100            |          |                 | 0.10U              | Found Conc. 11.80               |
| S-99               |                 |                  |                 |                |          |                 |                    |                                 |
| 0060001            | 5.0             | 0.38             | 0.22            | 100            | 87.6     |                 | 0.20               | Percent Recovery 92.9%          |
| S-100              |                 |                  |                 |                |          |                 |                    |                                 |
| 0060002            | 12.0            | 1.02             | 0.24            | 100            | 86.7     |                 | 0.49               |                                 |
| S-100(D)           |                 |                  |                 |                |          |                 |                    | C of C 0.9998690                |
| 0060002D           | 15.5            | 1.35             | 0.29            | 100            | 86.7     |                 | 0.54               |                                 |
| S-100(S)           |                 |                  |                 |                |          |                 |                    | Analyst BENJAMIN CARVALHO       |
| 0060002S           | 21.0            | 1.89             | 0.21            | 100            | 86.7     |                 | 99.9%              | Date Prepped 01/28/93           |
| S-101              |                 |                  |                 |                |          |                 |                    | Date Analyzed 01/29/93          |
| 0060003            | 26.0            | 2.40             | 0.22            | 100            | 84.7     |                 | 1.29               |                                 |
| 2                  | 48.0            | 4.91             |                 | 100            |          |                 | 98.2%              | Reviewed By: <i>[Signature]</i> |
| CCB2               | 0.0             | -0.07            |                 | 100            |          |                 | 0.20U              | Date Reviewed: 2/2/93           |
| S-102              |                 |                  |                 |                |          |                 |                    | Page 1 of 2                     |
| 0060004            | 21.5            | 1.94             | 0.24            | 100            | 86.2     |                 | 0.94               |                                 |

1699

JDS #(s): 0060,0064,0045

[illegible]

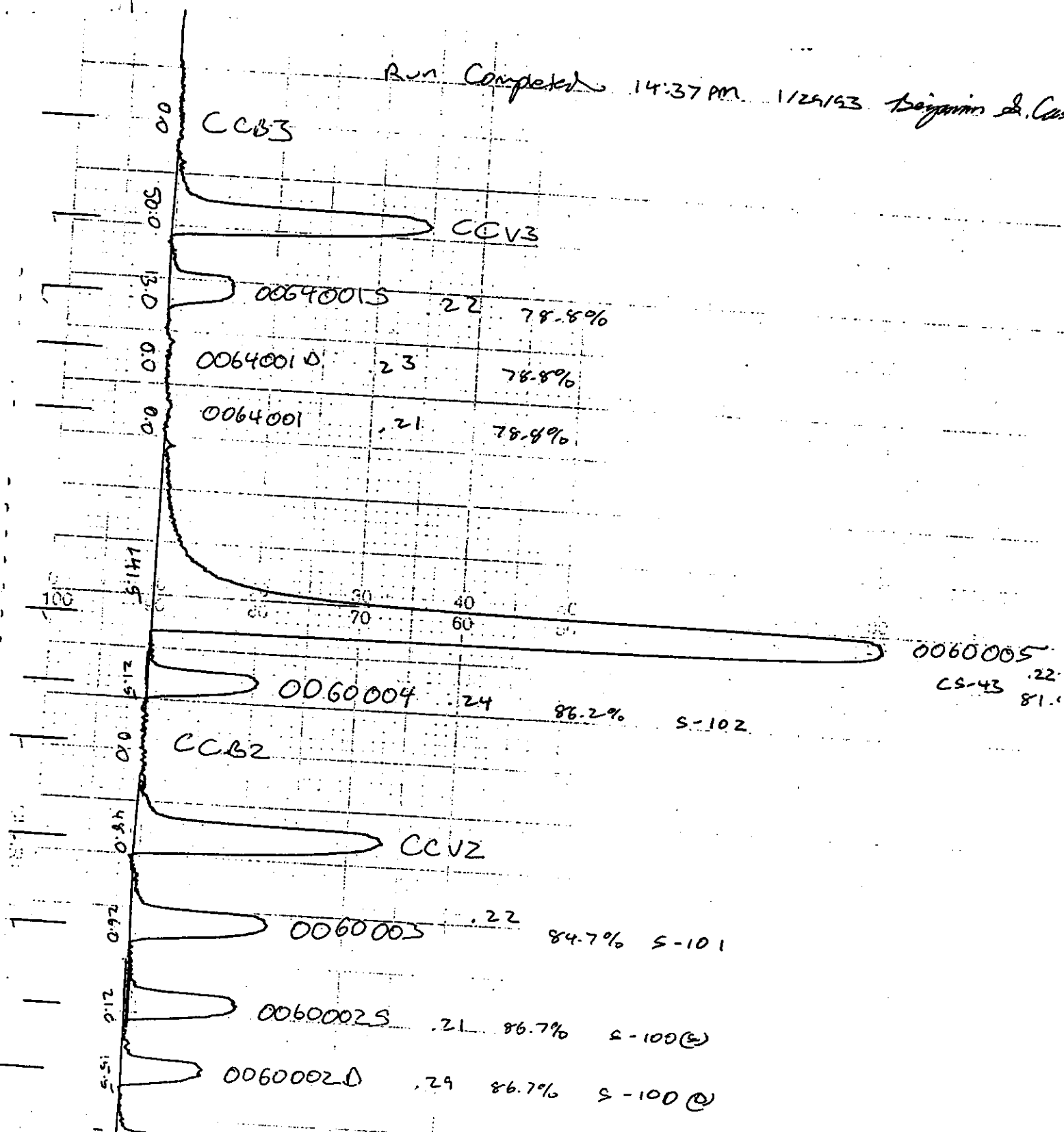


1700

CHART NO. KZXR-9

Run started 14:01 PM 1/29/93 *Benjamin D. Cantler*

Run Completed 14:37 PM 1/24/93 Benjamin A. Cas



IEA  
200 Monroe Turnpike  
Monroe, CT 06468 (203) 452-8200

1702

MERCURY RUN LOG

Matrix: water/soil  
Job #:

Analyst: B. Cuthbert  
Date: 2-3-93  
Page 1 of 2

| Sample ID                                                                | Bottle ID | Time  | Sample ID  | Bottle ID | Time  |
|--------------------------------------------------------------------------|-----------|-------|------------|-----------|-------|
| S 0.0                                                                    | 1         | 14:02 | 0082001    | 22        | 14:25 |
| S 0.5                                                                    | 2         | 14:03 | 002        | 23        | 14:26 |
| S 1.0                                                                    | 3         | 14:04 | 0108001    | 24        | 14:27 |
| S 2.0                                                                    | 4         | 14:05 | 0010       | 25        | 14:28 |
| S 5.0                                                                    | 5         | 14:06 | 0015       | 26        | 14:29 |
| S 10.0                                                                   | 6         | 14:07 | 0056001    | 27        | 14:30 |
| ICV                                                                      | 7         | 14:08 | 0111001    | 28        | 14:31 |
| ICB                                                                      | 8         | 14:09 | 0060006    | 29        | 14:32 |
| CCV1                                                                     | 9         | 14:10 | T0098001   | 30        | 14:33 |
| CCB1                                                                     | 10        | 14:11 | CCV3       | 31        | 14:34 |
| J# 70036041 0062, 0104, 0056,<br>PBW 0111, 0060, TFF 0048, 0103,<br>0072 | 11        | 14:12 | CCB3       | 32        | 14:35 |
| T0036041                                                                 | 12        | 14:13 | F0098001   | 33        | 14:36 |
| 042                                                                      | 13        | 14:14 | 0103001    | 34        | 14:37 |
| 043                                                                      | 14        | 14:15 | 0072001    | 35        | 14:38 |
| 046                                                                      | 15        | 14:16 | PBW        | 36        | 14:39 |
| 0036041                                                                  | 16        | 14:17 | Blank TCLP | 37        | 14:40 |
| 042                                                                      | 17        | 14:18 | 0051002    | 38        | 14:41 |
| 043                                                                      | 18        | 14:19 | 0025       | 39        | 14:42 |
| 044                                                                      | 19        | 14:20 | 003        | 40        | 14:43 |
| 046                                                                      | 20        | 14:21 | Blank TCLP | 41        | 14:44 |
| CCV2                                                                     | 80        | 14:22 | 0051004    | 42        | 14:45 |
| CCB2                                                                     | 90        | 14:23 | CCV4       | 43        | 14:46 |
| 0036047                                                                  | 21        | 14:24 | CCV4       | 44        | 14:47 |

IEA  
200 Monroe Turnpike  
Monroe, CT 06468 (203) 452-8200

Analyst: B. Conklin  
Date: 2-3-63  
Page 2 of 2

[illegible]

LEA  
200 MONROE TURNPIKE  
MONROE, CONNECTICUT 06468  
(203) 261-4458

JOB #s): 7-F00368, 0105, 0072, 0051, 0111, 7-F0093,

| Sample/Standard                                           | Pk.Ht. (in mm) | Calc'd (ug/l) | Initial Vol(ml) | Final Vol(ml) | Value Reported (ug/l) | Concentration units (ug/l)  |
|-----------------------------------------------------------|----------------|---------------|-----------------|---------------|-----------------------|-----------------------------|
| S0                                                        | 0.0            |               | 100             | 100           |                       | Sample Number 0108001       |
| S0.5                                                      | 6.0            |               | 100             | 100           |                       | Sample Conc. 0.200          |
| S1.0                                                      | 15.0           |               | 100             | 100           |                       | Dup Conc. 0.200             |
| S2.0                                                      | 28.0           |               | 100             | 100           |                       | RPD AC                      |
| S5.0                                                      | 56.0           |               | 100             | 100           |                       |                             |
| S10.0                                                     | 88.5           |               | 100             | 100           |                       | Spike                       |
| ICV                                                       | 55.0           | 4.76          | 100             | 100           | 95.1%                 | True Conc. 1.00             |
|                                                           | 0.0            | -0.09         | 100             | 100           | 0.200                 | Found Conc. 1.05            |
| CCV1                                                      | 55.0           | 4.76          | 100             | 100           | 95.1%                 | Percent Recovery 104.9%     |
| CCB1                                                      | 0.0            | -0.09         | 100             | 100           | 0.200                 |                             |
| T1F0036002, 0109, 0076, 0111, PBW0069, T1F0036, 002, 0077 | 0.0            | -0.09         | 100             | 100           | 0.200                 |                             |
| T0036041                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | ICV                         |
| T0036042                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | True Conc. 1.500            |
| T0036043                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | Found Conc. 4.76            |
| T0036046                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | Percent Recovery 95.1%      |
| F0036041                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | Benjamin Carvalho<br>2/3/93 |
| F0036042                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 |                             |
| F0036043                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | C of C 0.9997349            |
| F0036044                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | Analyst BENJAMIN CARVALHO   |
| F0036046                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | Date Prepped 02/02/93       |
|                                                           | 57.0           | 4.98          | 100             | 100           | 99.6%                 | Date Analyzed 02/03/93      |
| CCB2                                                      | 0.0            | -0.09         | 100             | 100           | 0.200                 | Reviewed By: J. H. H. H.    |
| F0036047                                                  | 0.0            | -0.09         | 100             | 100           | 0.200                 | Date Reviewed: 2/5/93       |

1705

IEA  
200 MONROE TURNPIKE  
MONROE, CONNECTICUT 06466  
(203) 261-4482

PARAMETER: Mercury

MATRIX: WATER

JJB #1(s): T+P002AB,0103,0072,0051,0111,T+P0051.

| Sample/Standard       | Pk.Ht. (in am) | Calc'd<br>(ug/l) | Initial<br>Vol(ml) | Final<br>Vol(ml) | Value Reported<br>(ug/l) | QA<br>Concentration units (ug/l)          |
|-----------------------|----------------|------------------|--------------------|------------------|--------------------------|-------------------------------------------|
| 0082001               | 2.0            | 0.06             | 100                | 100              | 0.200                    | Sample Number 0051002                     |
| 0052002               | 1.0            | -0.01            | 100                | 100              | 0.200                    | Sample Conc. _____                        |
| 0105001               | 1.5            | 0.02             | 100                | 100              | 0.200                    | Dup Conc. _____                           |
| 0108001D              | 1.0            | -0.01            | 100                | 100              | 0.200                    | RPD _____                                 |
| 0108001S              | 15.0           | 1.05             | 100                | 100              | 104.5%                   |                                           |
| 0056001               | 0.0            | -0.09            | 100                | 100              | 0.200                    | Spike <sup>B.C.</sup> 2/3/93              |
| 0111001               | 0.0            | -0.09            | 100                | 100              | 0.200                    | True Conc. <del>5.00</del> 5.00           |
| Field Blank           | 0.0            | -0.09            | 100                | 100              | 0.200                    | Found Conc. 5.16                          |
| 0006006               | 0.0            | -0.09            | 100                | 100              | 0.200                    | Percent Recovery <del>516.0%</del> 103.2% |
| 7604001               | 1.5            | 0.02             | 100                | 100              | 0.200                    |                                           |
| CCV3                  | 57.0           | 4.98             | 100                | 100              | 99.5%                    |                                           |
| CCB3                  | 0.0            | -0.09            | 100                | 100              | 0.200                    |                                           |
| F0098001              | 1.0            | -0.01            | 100                | 100              | 0.200                    | ICV                                       |
| 0103001               | 1.0            | -0.01            | 100                | 100              | 0.200                    | True Conc. _____                          |
| RW1 SPN1              | 1.0            | -0.01            | 100                | 100              | 0.200                    | Found Conc. _____                         |
| 0072001               | 1.0            | -0.01            | 100                | 100              | 0.200                    | Percent Recovery _____                    |
| TCLP 0051, 0072, 0103 | 0.0            | -0.09            | 100                | 100              | 0.200                    |                                           |
| PBW                   | 0.0            | -0.09            | 100                | 100              | 0.200                    |                                           |
| TCLP 0051, 0103       | 0.0            | -0.09            | 10                 | 100              | 2.000                    |                                           |
| BLANK                 | 0.0            | -0.09            | 10                 | 100              | 2.000                    |                                           |
| 0051002               | 1.0            | -0.01            | 10                 | 100              | 2.000                    | <sup>B.C.</sup> 2/3/93                    |
| 0051002S              | 58.5           | 5.16             | 10                 | 100              | 103.2%                   | C of C 0.9997349                          |
| 0051003               | 0.0            | -0.09            | 10                 | 100              | 2.000                    | Analyst BENJAMIN CARVALHO                 |
| TCLP 0051, 0103       | 0.0            | -0.09            | 10                 | 100              | 2.000                    | Date Prepped 02/02/93                     |
| BLANK                 | 0.0            | -0.09            | 10                 | 100              | 2.000                    | Date Analyzed 02/03/93                    |
| 004                   | 0.0            | -0.09            | 10                 | 100              | 2.000                    | Reviewed By: <u>Benjamin Carvalho</u>     |
| CDV4                  | 57.5           | 5.04             | 100                | 100              | 100.8%                   | Date Reviewed: <u>2/5/93</u>              |
| CCB                   | 0.0            | -0.09            | 100                | 100              | 0.200                    | Page 2 of 3                               |

1706

124  
200 MONROE TERRACE  
MONROE, CONNECTICUT 06468  
(203) 261-4438

PARAMETER: Mercury

MATRIX: WATER

JOB #11: 74F00768,0100,0072,0051,0112,74F0096.

| Sample/Standard | Pk.Ht. (in mm) | Calc'd (ug/l) | Initial Vol(ml) | Final Vol(ml) | Value Reported (ug/l) | GA Concentration units (ug/l)      |
|-----------------|----------------|---------------|-----------------|---------------|-----------------------|------------------------------------|
| TULP 0082,0103  |                |               |                 |               |                       |                                    |
| BLANK           | 0.0            | -0.09         | 10              | 100           | 2.000                 | Sample Number _____                |
| 0062004         | 1.5            | 0.02          | 10              | 100           | 2.000                 | Sample Conc. _____                 |
| 0103002         | 144.5          | 3.81          | 10              | 100           | 38.1                  | Dup Conc. _____                    |
| CCVS            | 57.0           | 4.98          | 100             | 100           | 99.6%                 | RPD _____                          |
| CCVS            | 0.0            | -0.09         | 100             | 100           | 0.200                 |                                    |
|                 |                |               |                 |               |                       | Spike                              |
|                 |                |               |                 |               |                       | True Conc. _____                   |
|                 |                |               |                 |               |                       | Found Conc. _____                  |
|                 |                |               |                 |               |                       | Percent Recovery _____             |
|                 |                |               |                 |               |                       |                                    |
|                 |                |               |                 |               |                       | ICV                                |
|                 |                |               |                 |               |                       | True Conc. _____                   |
|                 |                |               |                 |               |                       | Found Conc. _____                  |
|                 |                |               |                 |               |                       | Percent Recovery _____             |
|                 |                |               |                 |               |                       | <i>Benjamin Carvalho</i><br>213193 |
|                 |                |               |                 |               |                       | C of C 0.9997349                   |
|                 |                |               |                 |               |                       | Analyst: BENJAMIN CARVALHO         |
|                 |                |               |                 |               |                       | Date Prepped 02/02/93              |
|                 |                |               |                 |               |                       | Date Analyzed 02/03/93             |
|                 |                |               |                 |               |                       | Reviewed By: <i>22. H.M.D.</i>     |
|                 |                |               |                 |               |                       | Date Reviewed: 2/5/93              |
|                 |                |               |                 |               |                       | Page 3 of 3                        |

1707

F0036047

F0036043

F0036042

F0036041

T0036046

T0036043

air gun 811

T0036042

T0036041

PBW J#T#0036, 0052, 0105, 0056,  
0111, 0060, T#0048, 0103, 0072

CCBI

CCVI

ICB

ICV

S10.0

S5.0

S2.0

S1.0

S0.5

S0.0

Run started 14:02pm 2-3-93

Benjamin S. Cantler  
J. Cantler

PGW J# 0051, 0082, ~~0023~~ <sup>0103</sup> TCLP.

0072001 RWI SPWI

0103001

F0048001

CCB3

CCV3

T0048001

0060006 Field blank

0111001

0056001

0108001S

0108001D

0108001

0082002

0082001

F0036047

CCB2

CCV2

F0036046

F0036044

F0036043

Run Completed 14:52 PM 2/13/93 *Regina D. Coniller*

CCB5

CCV5

0103002  
TCLP

0082004 TCLP

Blank TCLP 0082,0103

CCB4

CCV4

0051004 TCLP

Blank TCLP 0051:4

0051003 TCLP

0051002 S TCLP

0051002 TCLP

Blank TCLP 0051: 2,3

IEA  
200 Monroe Turnpike  
Monroe, CT 06468 (203) 452-8200

## MERCURY RUN LOG

Matrix: water, soil  
Job #: 0060, 0141, 0159

Analyst: Y. H. Noe  
Date: 2/12/93  
Page 1 of 1

| Sample ID                           | Bottle ID | Time | Sample ID     | Bottle ID | Time |
|-------------------------------------|-----------|------|---------------|-----------|------|
| S0.0                                | 1         | 1345 | 0159001 D 10) | 22        | 1408 |
| S0.5                                | 2         | 1346 | 0018 1(S)     | 23        | 1409 |
| S1.0                                | 3         | 1347 | 004 4         | 24        | 1410 |
| S2.0                                | 4         | 1348 | 005 5         | 25        | 1411 |
| S5.0                                | 5         | 1349 | 006 6         | 26        | 1412 |
| S10.0                               | 6         | 1350 | 007 7         | 27        | 1413 |
| ICV                                 | 7         | 1351 | 008 8         | 28        | 1414 |
| ICB                                 | 8         | 1352 | 009 9         | 29        | 1415 |
| CCV1                                | 9         | 1353 | 010 10        | 30        | 1416 |
| CCB1                                | 10        | 1354 | CCV3          | 81        | 1417 |
| PBS J# 0060, 0141, 0159             | 11        | 1355 | CCB3          | 91        | 1418 |
| LCSS                                | 12        | 1356 | 0159 011 11   | 31        | 1419 |
| 0060 005 $\frac{1}{10}$ Dil'n CS-43 | 36        | 1357 | CCV4          | 82        | 1420 |
| 0141001                             | 14        | 1358 | CCB4          | 92        | 1421 |
| 002                                 | 15        | 1359 |               |           |      |
| 003                                 | 16        | 1400 |               |           |      |
| 004                                 | 17        | 1401 |               |           |      |
| 005                                 | 18        | 1402 |               |           |      |
| 0159002 2                           | 19        | 1403 |               |           |      |
| 003 3                               | 20        | 1404 |               |           |      |
| CCV2                                | 80        | 1405 |               |           |      |
| CCB2                                | 90        | 1406 |               |           |      |
| 0159001 1                           | 21        | 1407 |               |           |      |

IEA  
200 MONROE TURNPIKE  
MONROE, CONNECTICUT 06468  
(203) 261-4458

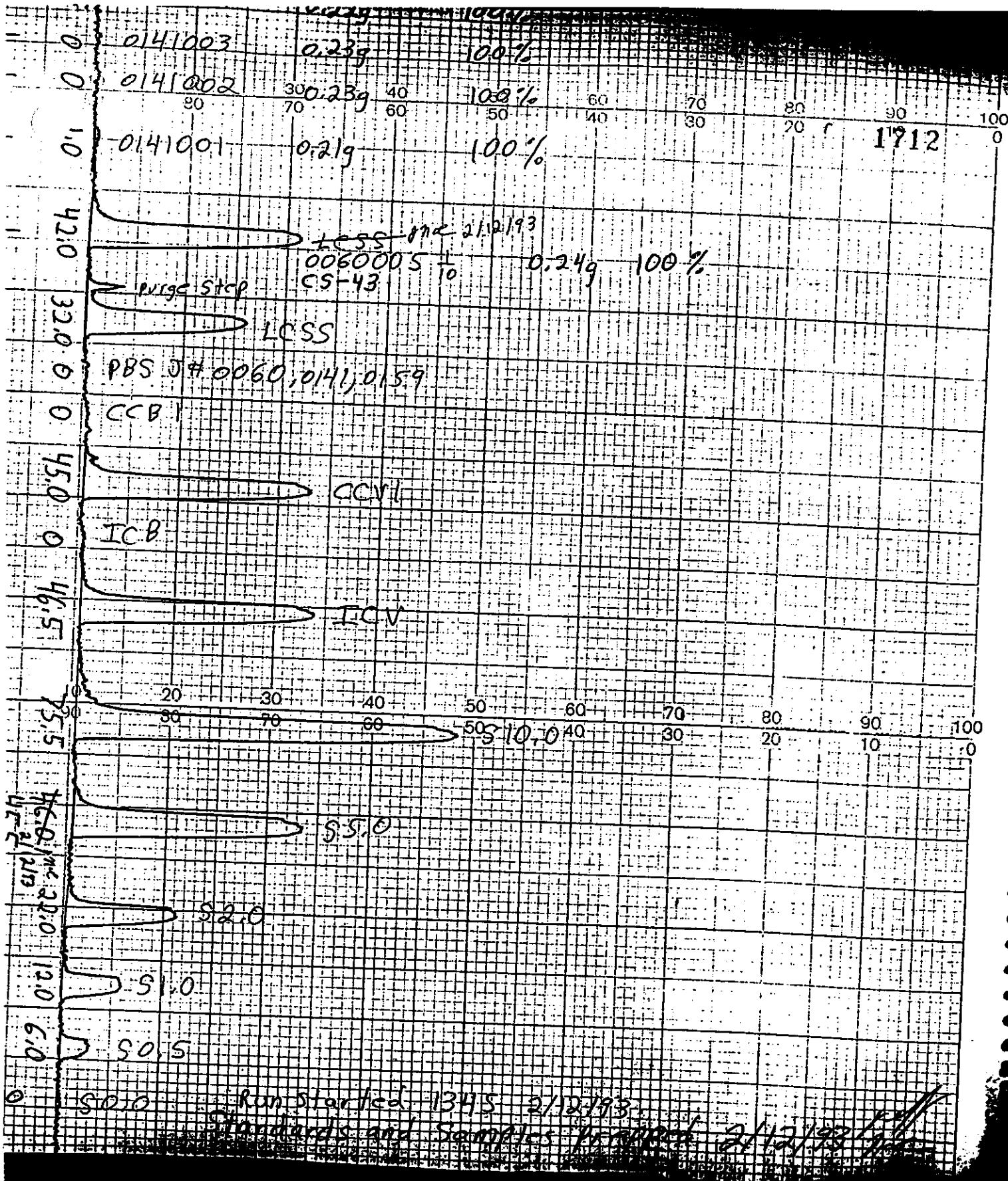
1711

PARAMETER: Mercury

MATRIX: SOIL

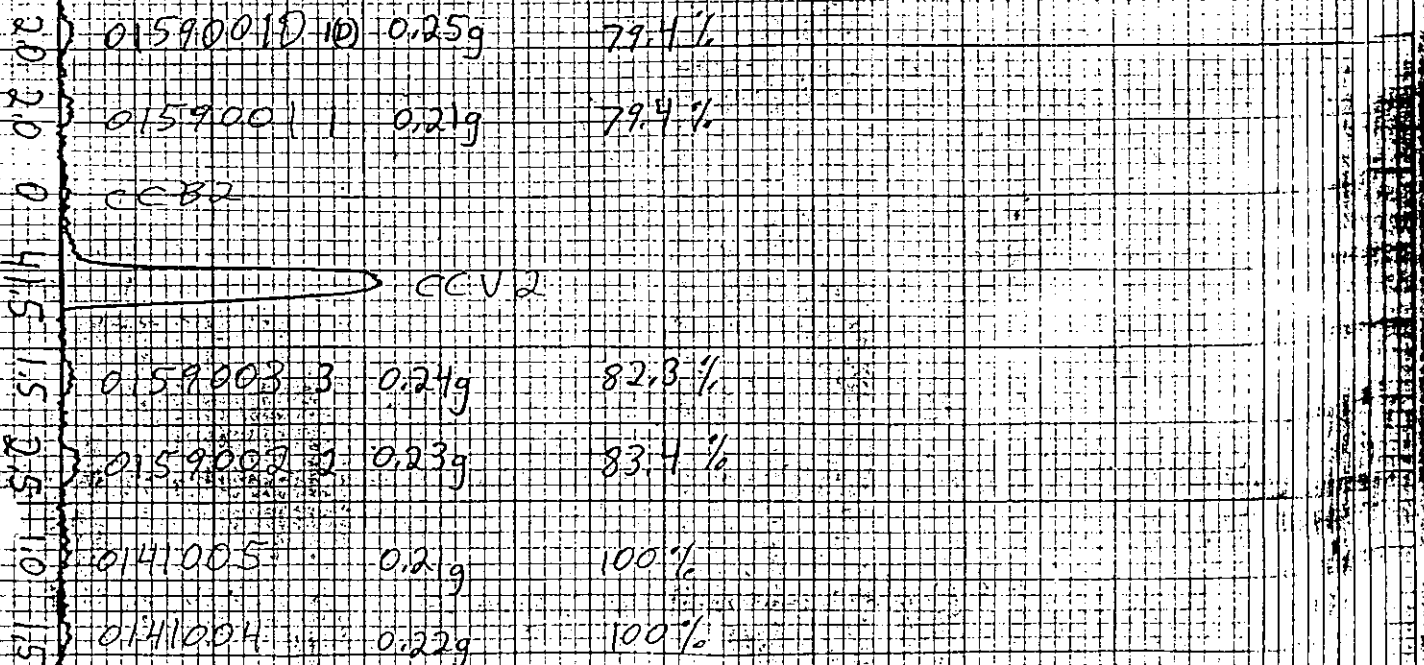
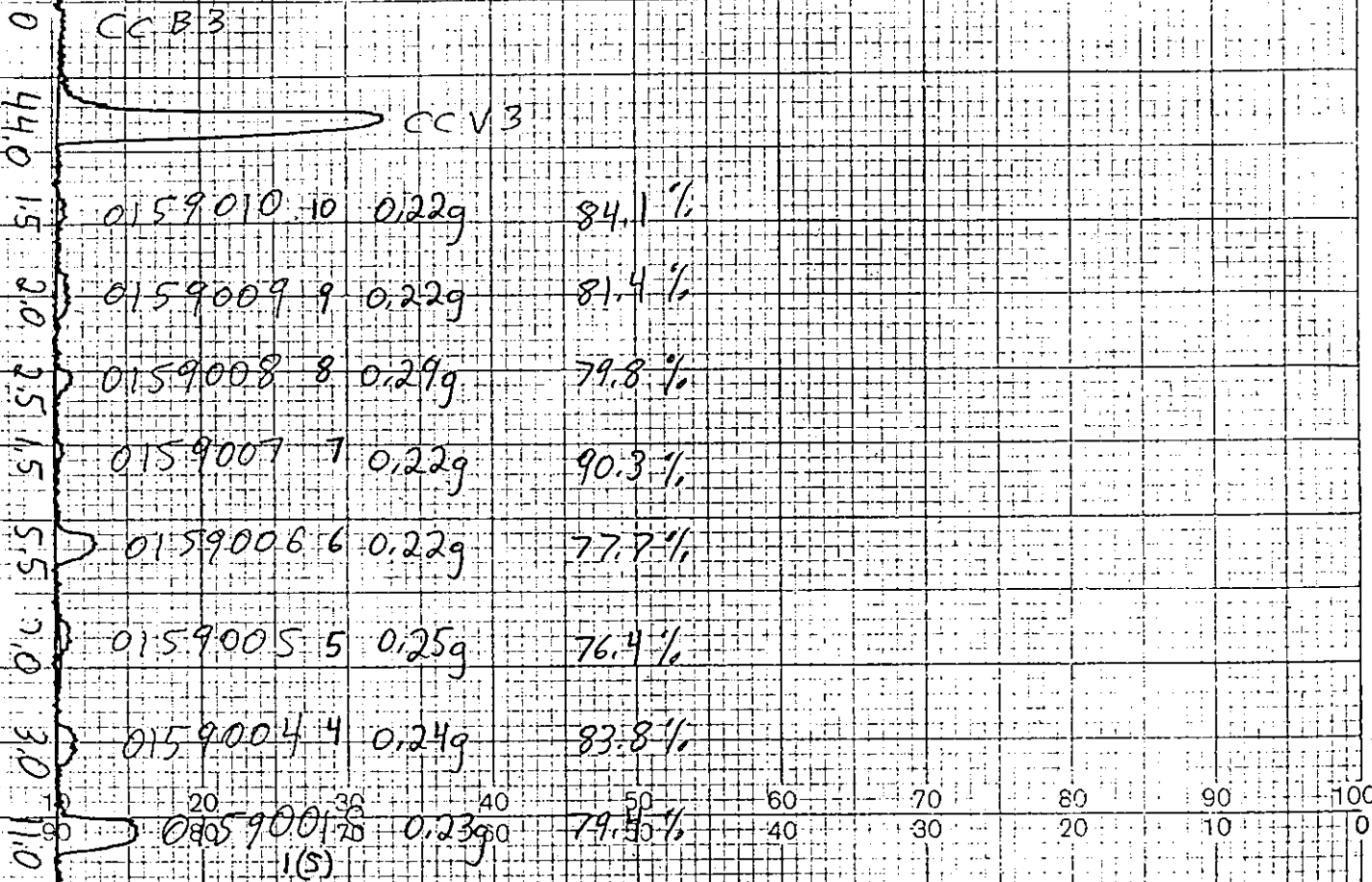
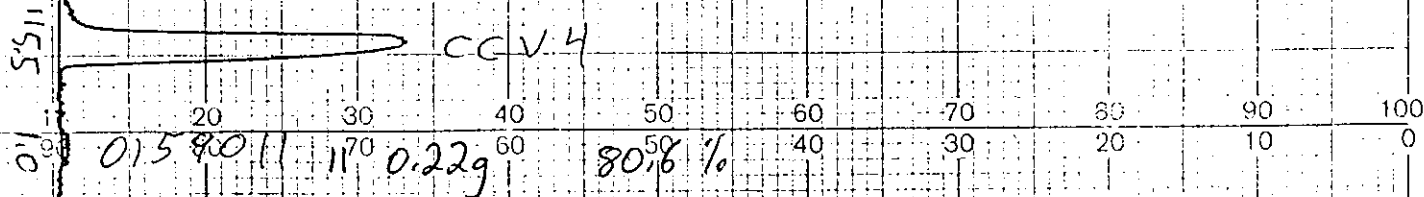
JOB #(s): 0060,0141,0159

| Sample / Standard             | Pk. Ht. (in mm) | Calc'd (ug/l) | Initial Wt. (g) | Final Vol(ml) | % Solids | Dilution Factor | Value Rptd (mg/Kg) | QA Concentration units (mg/Kg) |
|-------------------------------|-----------------|---------------|-----------------|---------------|----------|-----------------|--------------------|--------------------------------|
| S0                            | 0.0             |               |                 | 100           |          |                 |                    | Sample Number 0159001          |
| S0.5                          | 6.0             |               |                 | 100           |          |                 |                    | Sample Conc. 0.12U             |
| S1.0                          | 12.0            |               |                 | 100           |          |                 |                    | Dup Conc. 0.10U                |
| S2.0                          | 22.0            |               |                 | 100           |          |                 |                    | RPD NC                         |
| S5.0                          | 45.5            |               |                 | 100           |          |                 |                    | Spike                          |
| S10.0                         | 75.5            |               |                 | 100           |          |                 |                    | True Conc. 0.55                |
| ICV                           | 46.5            | 5.02          |                 | 100           |          |                 | 100.4%             | Found Conc. 0.53               |
| ICB                           | 0.0             | -0.08         |                 | 100           |          |                 | 0.20U              | Percent Recovery 97.3%         |
| CCV1                          | 45.0            | 4.82          |                 | 100           |          |                 | 96.4%              | ICV                            |
| CCB1                          | 0.0             | -0.08         |                 | 100           |          |                 | 0.20U              | True Conc. 5.00                |
| J# 0060-0141-0159<br>PBS-0159 | 0.0             | -0.08         |                 | 100           |          |                 | 0.00U              | Found Conc. 5.02               |
| LCSS*                         | 32.0            | 3.21          | 0.02010         | 100           |          |                 | 16.0               | Percent Recovery 100.4%        |
| CS-43<br>0060005              | 42.0            | 4.43          | 0.24            | 100           | 81.9     | 10              | 22.5               | LCS                            |
| 0141001                       | 1.0             | 0.01          | 0.21            | 100           |          |                 | 0.10U              | True Conc. 12.70               |
| 0141002                       | 0.0             | -0.08         | 0.23            | 100           |          |                 | 0.09U              | Found Conc. 16.00              |
| 0141003                       | 0.0             | -0.08         | 0.23            | 100           |          |                 | 0.09U              | Percent Recovery 126.0%        |
| 0141004                       | 1.5             | 0.06          | 0.22            | 100           |          |                 | 0.09U              |                                |
| 0141005                       | 1.0             | 0.01          | 0.21            | 100           |          |                 | 0.10U              | C of C 0.9997892               |
| 2<br>0159002                  | 2.5             | 0.15          | 0.23            | 100           | 83.4     |                 | 0.10U              | Analyst JEFF NGE               |
| 3<br>0159003                  | 1.5             | 0.06          | 0.24            | 100           | 82.3     |                 | 0.10U              | Date Prepped 02/12/93          |
|                               |                 |               |                 |               |          |                 |                    | Date Analyzed 02/12/93         |
| CCV2                          | 41.5            | 4.37          |                 | 100           |          |                 | 87.3%              | Reviewed By: 22 HLL-D          |
| CCB2                          | 0.0             | -0.08         |                 | 100           |          |                 | 0.20U              | Date Reviewed: 2/16/93         |
| 1<br>0159001                  | 2.0             | 0.11          | 0.21            | 100           | 79.4     |                 | 0.12U              | Page 1 of 2                    |



CCB4 Run Ended 1421 2/12/93 Jeff Noe

1713





an environmental testing company

200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 261-4458  
FAX (203) 266-5346

1831

METALS SAMPLE PREP LOG - WATER

1714

Calibration of eppendorf  
Case/SAS  $0.5 \text{ mL} = 0.50 \text{ g}$   
 $1.0 \text{ mL} = 1.00 \text{ g}$

Low/Med/Std  
ICAP/Furnace

SDG #:

| IEA ID   | IFB ID | Vol i (ml) | Vol f (ml) | Phys: Desc.*<br>before/after |         | Color. Key*   |
|----------|--------|------------|------------|------------------------------|---------|---------------|
| 0056-001 |        | 100        | 100        | 1-C / C                      | 2-C / C | R - red       |
| 0057-001 | TOTAL  |            |            | 1-↓ / ↓                      | 2-↓ / ↓ | B - blue      |
| 002      |        |            |            | 1-C / Y                      | 2-C /   | Y - yellow    |
| 003      |        |            |            | 1- / Y                       | 2- /    | G - green     |
| 004      |        |            |            | 1- / C                       | 2- / ↓  | O - orange    |
| 006      |        |            |            | 1- /                         | 2-↓ / C | V - violet    |
| 007      |        |            |            | 1-↓ / ↓                      | 2-C / C | C - colorless |
| 009      |        |            |            | 1-O / Y                      | 2-C /   | Bn - brown    |
| 010      |        |            |            | 1-C / C                      | 2- /    | Gy - gray     |
| 013      |        |            |            | 1-O / Y                      | 2-↓ /   | Bl - black    |
| 014      |        |            |            | 1-C / C                      | 2-C / ↓ | Clarity*      |
| 015      | ↓      |            |            | 1-C /                        | 2-C / C | CL - clear    |
| 0060-006 |        |            |            | 1- /                         | 2-C / C | C - cloudy    |
| 0065-001 |        | ↓          | ↓          | 1-↓ / ↓                      | 2-C / C | O - opaque    |
|          |        |            |            | 1- /                         | 2- /    |               |
|          |        |            |            | 1- /                         | 2- /    |               |
|          |        |            |            | 1- /                         | 2- /    |               |
|          |        |            |            | 1- /                         | 2- /    |               |
|          |        |            |            | 1- /                         | 2- /    |               |
|          |        |            |            | 1- /                         | 2- /    |               |

\*Each physical description involves 1-Color and 2-Clarity both before and after

QA/QC

| IEA ID   | IFB ID | Volume i (ml) | Volume f (ml) | QC Addition      |
|----------|--------|---------------|---------------|------------------|
| PB       |        | 100           | 100           |                  |
| LCS      |        | ↓             | ↓             | 5 mL MTL-W-1023  |
| 0057-013 | D      |               |               |                  |
| 0057-013 | S      | ↓             | ↓             | 2.5 mL MTL-W-993 |

pared by: J. Venezia  
e: 1/26/93  
Accepted by: Diane Bate  
ICP:  $\text{HNO}_3$  8lab  $\text{HCl}$  114B  $\text{H}_2\text{O}_2$

Supervisor: 2. H. H. D.  
Date: 1/28/93  
Date: 1/28/93  
Furnace:  $\text{HNO}_3$    $\text{H}_2\text{O}_2$



200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 261-4458  
FAX (203) 268-5346

METALS SAMPLE PREP LOG - SOIL

1099

1715

| Case/SAS Calibration: 1.0g Class Smt = 1.00g<br>1.0g Class Smt = 1.00g |                  | Low/Med/Std<br>ICAP Furnace |             | SDG #: _____                       |         |     |                       |               |
|------------------------------------------------------------------------|------------------|-----------------------------|-------------|------------------------------------|---------|-----|-----------------------|---------------|
| IEA ID                                                                 | IFB ID           | Weight (g)                  | Volume (ml) | Physical Description* before/after |         |     |                       | Color Key*    |
| 0045006                                                                |                  | 1.08                        | 200         | 1 Bn/Y                             | 2 oil   | 3 C | 4 oil                 | R = red       |
| 007                                                                    |                  | 1.17                        |             | unrep Y                            | various | Cl  | tissue, plastic tape, | B = blue      |
| 008                                                                    |                  | 1.09                        |             | clear C                            | plastic | Cl  | plastic               | Y = yellow    |
| 0060001                                                                |                  | 1.14                        |             | Bn/Y                               | m       | Cl  | rocks                 | G = green     |
| 002                                                                    |                  | 1.13                        |             | Bn/Y                               | m       | Cl  | rocks                 | O = orange    |
| 003                                                                    |                  | 1.15                        |             | Bl/Y                               | m       | Cl  | rocks                 | V = violet    |
| 004                                                                    |                  | 1.17                        |             | Bl/Y                               | m       | Cl  | rocks                 | C = colorless |
| 0064001                                                                |                  | 1.21                        |             | Bn/Y                               | m       | Cl  | rocks                 | Bn = brown    |
| 0010                                                                   |                  | 1.29                        | ↓           | Bn/Y                               | m       | Cl  | rocks                 | Gy = gray     |
| 0015                                                                   | MTZ-493<br>5.0ml | 1.36                        | 200         | Bn/Y                               | m       | Cl  | rocks                 | Bl = black    |
|                                                                        |                  |                             |             | /                                  |         |     |                       |               |
|                                                                        |                  |                             |             | /                                  |         |     |                       | Clarity*      |
|                                                                        |                  |                             |             | /                                  |         |     |                       | Cl = clear    |
|                                                                        |                  |                             |             | /                                  |         |     |                       | C = cloudy    |
|                                                                        |                  |                             |             | /                                  |         |     |                       | O = opaque    |
|                                                                        |                  |                             |             | /                                  |         |     |                       |               |
|                                                                        |                  |                             |             | /                                  |         |     |                       | Texture*      |
|                                                                        |                  |                             |             | /                                  |         |     |                       | F = fine      |
|                                                                        |                  |                             |             | /                                  |         |     |                       | M = medium    |
|                                                                        |                  |                             |             | /                                  |         |     |                       | C = coarse    |

\*Each physical description involves 1-Color (before and after), 2-Texture (before), 3-Clarity (after), and 4-Artifacts (yes or no description)

QA/QC

| IEA ID  | IFB ID | Weight (g) | Volume f (ml) | QC Addition                   |
|---------|--------|------------|---------------|-------------------------------|
| PB      |        |            | 200           |                               |
| LCS     |        | 1.00       | ↓             | <i>MTZ EPA (0267) 410 ICF</i> |
| 0060002 | D      | 1.21       | ↓             |                               |
| 0060002 | S      | 1.17       | 200           | <i>MTZ-493 5.0ml</i>          |

Prepared by: *J. C. Miller*  
Date: *1-26-93*  
Accepted by: *Diana Abate*

Supervisor: *D. Miller*  
Date: *1/27/93*  
Date: *1/27/93*  
Furnace: *HNO<sub>3</sub>* *H<sub>2</sub>O<sub>2</sub>*



an environmental testing company

200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 261-4458  
FAX (203) 268-5346

1830

1716

METALS SAMPLE PREP LOG - WATER

Calibration of eppendorf  
Case/SAS 1.0 mL = 1.00g

Low/Med/Std  
ICAP/Furnace

SDG #: \_\_\_\_\_

| IEA ID   | IFB ID | Vol i (ml) | Vol f (ml) | Phys. Desc.*<br>before/after |          | Color Key*    |
|----------|--------|------------|------------|------------------------------|----------|---------------|
| 0056-001 |        | 100        | 100        | 1-C / C                      | 2-C / C  | R - red       |
| 0057-001 | TOTAL  |            |            | 1-C /                        | 2-C /    | B - blue      |
| 002      |        |            |            | 1-C /                        | 2-C /    | Y - yellow    |
| 003      |        |            |            | 1- /                         | 2- /     | G - green     |
| 004      |        |            |            | 1- /                         | 2- /     | O - orange    |
| 006      |        |            |            | 1- /                         | 2- V /   | V - violet    |
| 007      |        |            |            | 1- V /                       | 2-C /    | C - colorless |
| 009      |        |            |            | 1-O /                        | 2-C /    | Bn - brown    |
| 010      |        |            |            | 1-C / V                      | 2- / / V | Gy - gray     |
| 013      |        |            |            | 1-O / Y                      | 2- V / C | Bl - black    |
| 014      |        |            |            | 1-C / C                      | 2-C / C  | Clarity*      |
| 015      | V      |            |            | 1-C /                        | 2-C /    | CL - clear    |
| 060-006  |        | V          | V          | 1-C / V                      | 2-C / V  | C - cloudy    |
|          |        |            |            | 1- /                         | 2- /     | O - opaque    |
|          |        |            |            | 1- /                         | 2- /     |               |
|          |        |            |            | 1- /                         | 2- /     |               |
|          |        |            |            | 1- /                         | 2- /     |               |
|          |        |            |            | 1- /                         | 2- /     |               |
|          |        |            |            | 1- /                         | 2- /     |               |
|          |        |            |            | 1- /                         | 2- /     |               |

\*Each physical description involves 1-Color and 2-Clarity both before and after

QA/QC

| IEA ID   | IFB ID | Volume i (ml) | Volume f (ml) | QC Addition     |
|----------|--------|---------------|---------------|-----------------|
| PB       |        | 100           | 100           |                 |
| LCS      |        |               |               | 2 mL MTL-W-1022 |
| 0057-013 | D      |               |               |                 |
| 0057-013 | S      |               |               | 2 mL MTL-W-1025 |

Prepared by: J. Venezia  
Date: 1/26/93  
Accepted by: Shirley Muckers  
ICP: HNO<sub>3</sub> 861 H<sub>2</sub>O<sub>2</sub> 40

Supervisor: D. H. H.  
Date: 1/27/93  
Date: 1/27/93  
Furnace: HNO<sub>3</sub> 866 H<sub>2</sub>O<sub>2</sub> 40



200 Monroe Turnpike  
Monroe, Connecticut 06468  
(203) 261-4458  
FAX (203) 268-5346

METALS SAMPLE PREP LOG - SOIL

1400  
1717

| Case/SAS                          |                     | Low/Med/Std  |             | SDG #:                             |                   |     |                   |               |
|-----------------------------------|---------------------|--------------|-------------|------------------------------------|-------------------|-----|-------------------|---------------|
| Calibration: 1.0g Class 5, 0.001g |                     | ICAP/Furnace |             |                                    |                   |     |                   |               |
| IEA ID                            | IFB ID              | Weight (g)   | Volume (ml) | Physical Description* before/after |                   |     |                   | Color Key*    |
| 0045006                           |                     | 1.35         | 200         | 1-Bn/Y                             | 2-oil             | 3-C | 4-oil             | R = red       |
| 007                               |                     | 1.03         |             | various Y                          | various materials | CI  | various materials | B = blue      |
| 008                               |                     | 1.01         |             | clear/C                            | plastic           | CI  | plastic           | Y = yellow    |
| 0060001                           |                     | 1.15         |             | Bn/Y                               | M                 | CI  | rocks             | G = green     |
| 002                               |                     | 1.29         |             | Bn/Y                               | M                 | CI  | rocks             | O = orange    |
| 003                               |                     | 1.06         |             | Bl/O                               | M                 | CI  | rocks             | V = violet    |
| 004                               |                     | 1.15         |             | Bl/Y                               | M                 | CI  | rocks             | C = colorless |
| 0064001                           |                     | 1.25         |             | Bn/Y                               | M                 | CI  | rocks             | Bn = brown    |
| 001D                              |                     | 1.34         |             | Bn/Y                               | M                 | CI  | rocks             | Gy = gray     |
| 001S                              | MTL-W-1025<br>4.0ml | 1.29         |             | Bn/Y                               | M                 | CI  | rocks             | Bl = black    |
| 0070001                           |                     | 1.18         | V           | Bn/Y                               | M                 | CI  |                   |               |
| 002                               |                     | 1.17         | 200         | Bn/C                               | M                 | CI  |                   | Clarity*      |
|                                   |                     |              |             | /                                  |                   |     |                   | Cl = clear    |
|                                   |                     |              |             | /                                  |                   |     |                   | C = cloudy    |
|                                   |                     |              |             | /                                  |                   |     |                   | O = opaque    |
|                                   |                     |              |             | /                                  |                   |     |                   |               |
|                                   |                     |              |             | /                                  |                   |     |                   | Texture*      |
|                                   |                     |              |             | /                                  |                   |     |                   | F = fine      |
|                                   |                     |              |             | /                                  |                   |     |                   | M = medium    |
|                                   |                     |              |             | /                                  |                   |     |                   | C = coarse    |

\*Each physical description involves 1-Color (before and after), 2-Texture (before), 3-Clarity (after), and 4-Artifacts (yes or no description)

QA/QC

| IEA ID  | IFB ID | Weight (g) | Volume f (ml) | QC Addition      |
|---------|--------|------------|---------------|------------------|
| PB      |        |            | 200           |                  |
| LCS     |        | 1.00       |               | EPA 821-H10 ICP  |
| 0060002 | D      | 1.11       |               |                  |
| 0060002 | S      | 1.17       | 200           | MTL-W-1025 4.0ml |

Prepared by: W. Cunniff  
Date: 1-28-93  
Accepted by: W. Cunniff  
ICP: UNO HCl: H<sub>2</sub>O<sub>2</sub>

Supervisor: W. Cunniff  
Date: 1/28/93  
Furnace: HNO<sub>3</sub> 666 H<sub>2</sub>O<sub>2</sub> 40

207

METALS WATER/SOIL PREPERATION LOG - MERCURY

Page 1 of 1

QA/QC

Standard ID = MTL-W-1031

ICV ID = MTL-W-1030

CCV ID = MTL-W-1030

LCS ID = EPA (0257) H10 TCF

Spike ID = MTL-W-1031

Accepted by: 25. HMF  
Date: 2/2/83  
Stannous Chloride \_\_\_\_\_ KMnO4 \_\_\_\_\_  
K2O8S2 6 NaCl 11

0475

1719

IEA  
200 Monroe Turnpike  
Monroe, CT 06468 (203) 452-8200

METALS WATER/SOIL PREPERATION LOG - MERCURY

Top Loading Balance Calibration Class A pipets used  
Analytical Balance Calibration \_\_\_\_\_

Page 1 of 1

| IEA ID      | IFB ID      | Wi(g)<br>Vi(ml) | Vf(ml) | BOO<br>ID | QA/QC                           |       |          |        |        |
|-------------|-------------|-----------------|--------|-----------|---------------------------------|-------|----------|--------|--------|
|             |             |                 |        |           | ID                              | Wi/Vi | QC add   | Vf(ml) | BOO ID |
| T0036041    |             | 100             | 100    | 12        | S0.0                            | 100   | —        | 100    | 1      |
| 042         |             |                 |        | 13        | S0.5                            | 99.5  | 0.5ml B  |        | 2      |
| 043         |             |                 |        | 14        | S1.0                            | 99.0  | 1.0ml B  |        | 3      |
| 046         |             |                 |        | 15        | S2.0                            | 98.0  | 2.0ml B  |        | 4      |
| F0036041    |             |                 |        | 16        | S5.0                            | 95.0  | 5.0ml B  |        | 5      |
| 042         |             |                 |        | 17        | S10.0                           | 90.0  | 10.0ml B |        | 6      |
| 043         |             |                 |        | 18        | ICV                             | 95.0  | 5.0ml B  |        | 7      |
| 044         |             |                 |        | 19        | ICB                             | 100   | —        |        | 8      |
| 046         |             |                 |        | 20        | CCV1                            | 95.0  | 5.0ml B  |        | 9      |
| 047         |             |                 |        | 21        | CCB1                            | 100   | —        |        | 10     |
| 0062001     |             |                 |        | 22        | PBW                             |       | —        |        | 11     |
| 002         |             |                 |        | 23        | 01050010                        |       | —        |        | 25     |
| 0105001     |             |                 |        | 24        | 01050015                        | ↓     | 1.0ml B  |        | 26     |
| 0056001     |             |                 |        | 27        | PBW                             | 100   | —        |        | 34     |
| 0111001     |             |                 |        | 28        | Blank <sup>0051:2,3</sup> TLP   | 10    | —        |        | 35     |
| 0060006     | Field Blank |                 |        | 29        | 00510025                        | ↓     | 5.0ml B  |        | 37     |
| T0098001    |             |                 |        | 30        | Blank <sup>0052:4</sup> TLP     | ↓     | —        |        | 39     |
| F0098001    |             |                 |        | 31        | Blank <sup>0053:003</sup> TLP   | 10    | —        |        | 41     |
| 0103001     |             |                 |        | 32        | CCV2                            | 95.0  | 5.0ml B  |        | 80     |
| 0072001     | RWI SPW1    | 100             |        | 33        | CCV3                            | ↓     | ↓        |        | 81     |
| 0051002 TLP |             | 10              |        | 36        | CCV4                            | ↓     | ↓        |        | 82     |
| 0051003     |             | ↓               |        | 38        | CCV5                            | ↓     | ↓        |        | 83     |
| 004         |             | ↓               |        | 40        | CCV6                            | 95.0  | 5.0ml B  |        | 87     |
| 0062004     |             | ↓               | ↓      | 42        | CCB2                            | 100   | —        |        | 90     |
| 0103002     |             | 10              | 100    | 43        | CCB3                            | ↓     | —        |        | 91     |
|             |             |                 |        |           | CCB4                            | ↓     | —        |        | 92     |
|             |             |                 |        |           | CCB5                            | 100   | —        | ↓      | 93     |
|             |             |                 |        |           | QA/QC                           |       |          |        |        |
|             |             |                 |        |           | Standard ID = <u>MTL-W-1033</u> |       |          |        |        |
|             |             |                 |        |           | ICV ID = <u>MTL-W-1032</u>      |       |          |        |        |
|             |             |                 |        |           | CCV ID = <u>MTL-W-1032</u>      |       |          |        |        |
|             |             |                 |        |           | LCS ID = _____                  |       |          |        |        |
|             |             |                 |        |           | Spike ID = <u>MTL-W-1033</u>    |       |          |        |        |

Prepared by: 12. C. Miller

Date: 2-2-83

Accepted by: 22. J. H. J.

Date: 2/5/83

Lot #: Hydroxylamine Hydrochloride 53 Stannous Chloride 33 KMnO4 38  
H2SO4 94 HNO3 866 K2O8S2 6 NaCl 11

1720

0.5g class S wt = 0.50g

Page 1 of 1

QA/QC

Standard ID = MTL-W-1044

ICV ID = MTL-W-1043

CCV ID = MTL-W-1043

LCS ID = EPA 0287 H10 ICF

Spike ID = MTL-W-1044

Accepted by: Dr. H. M. J.

Date: 2/16/97

H<sub>2</sub>SO<sub>4</sub> 95      HNO<sub>3</sub> 869      K<sub>2</sub>O<sub>8</sub>S<sub>2</sub> 6      NaCl 11

200 Monroe Turnpike  
Monroe, CT 06468  
(203) 261-4458

Case/SAS/Job No:  
Ca' ition:

% Solids Determination  
0060  
5.0g = 5.00g

SDG No:  
Oven Temp (C): IN 103  
OUT 103

$$\% \text{ Solids} = \text{Dry Wt} / \text{Wet Wt} * 100$$
[illegible]

Time and Date In: 1/24/93 16:30 Time and Date Out: 1/24/93 15:00

Prepared by: B. J. Gault Accepted by: W. H. D.

### % SOLIDS DETERMINATION

0725

IEA 200 Monroe Turnpike  
Monroe, Connecticut 06468 (203) 452-8200

Case/SAS/Batch No: 0060

SDG No: \_\_\_\_\_

Calibration:  $1.0 \text{ Chgs sent} = 1.00$

$$\% \text{ Solids} = (\text{Dry Wt} / \text{Wet Wt}) \times 100$$

Oven Temp (C): In: 103° out: 103°

[illegible]

Date in: 1-28-43 Time in: 16:30 AM/PM PM Date out: 1-29-43 Time out: 15:00 AM/PM PM

\* ( A minimum of 5.00g of wet sample should be taken for this analysis.  
Do not exceed a 24 hour drying time.  
3) One sample must be determined in duplicate (see ICP prep for dup selection)

Prepared by: B. Cusack Date: 1/28/93 Witnessed by: J. H. D. Date: 2/1/93

