

|                      |           |         |              |         |
|----------------------|-----------|---------|--------------|---------|
| Y 371.030            | 2459419.9 | 1.006   | 0.0047 mg/L  | 0.47%   |
| Ag 328.068           | -1311.8   | 0.0004  | 0.00018 mg/L | 42.47%  |
| Al 308.215           | 4612.9    | -0.0168 | 0.00254 mg/L | 15.12%  |
| As 188.979           | -77.3     | 0.0000  | 0.00040 mg/L | 974.83% |
| B 249.773            | -187.6    | -0.0028 | 0.00035 mg/L | 12.37%  |
| Ba 233.527           | -475.8    | -0.0006 | 0.00014 mg/L | 23.34%  |
| Be 313.107           | -5373.1   | 0.0001  | 0.00001 mg/L | 11.87%  |
| Ca 315.887           | -10512.5  | 0.0848  | 0.00006 mg/L | 0.07%   |
| Cd 226.502           | 267.5     | -0.0001 | 0.00009 mg/L | 98.35%  |
| Co 228.616           | -710.8    | 0.0003  | 0.00026 mg/L | 96.17%  |
| Cr 267.716           | -505.4    | 0.0006  | 0.00001 mg/L | 2.08%   |
| Cu 324.754           | 1785.2    | 0.0006  | 0.00009 mg/L | 14.43%  |
| Fe 238.863           | -91.3     | 0.0285  | 0.00108 mg/L | 3.79%   |
| <del>K 404.721</del> | 12535.9   | -5.133  | 0.0170 mg/L  | 0.33%   |
| Mg 279.079           | -1770.3   | 0.0090  | 0.00113 mg/L | 12.60%  |
| Mn 257.610           | 273.8     | 0.0004  | 0.00002 mg/L | 5.67%   |
| Mo 202.030           | 12.8      | 0.0005  | 0.00011 mg/L | 22.28%  |
| Na 330.237           | 31.5      | 0.2667  | 0.05376 mg/L | 20.16%  |
| Ni 231.604           | 115.2     | -0.0004 | 0.00025 mg/L | 68.08%  |
| Pb 220.353           | 161.8     | -0.0004 | 0.00083 mg/L | 212.22% |
| Sb 206.833           | 273.3     | -0.0041 | 0.00015 mg/L | 3.57%   |
| Se 196.026           | 48.0      | 0.0003  | 0.00010 mg/L | 41.30%  |
| Sn 189.933           | -203.3    | -0.0055 | 0.00117 mg/L | 21.12%  |
| Ti 334.941           | -1049.1   | 0.0001  | 0.00016 mg/L | 271.22% |
| Tl 190.800           | -69.3     | -0.0001 | 0.00153 mg/L | >999.9% |
| V 292.402            | -262.7    | -0.0002 | 0.00002 mg/L | 14.48%  |
| Zn 206.200           | -167.7    | 0.0023  | 0.00006 mg/L | 2.55%   |

## Mean Data

|                       |                      |                |             |
|-----------------------|----------------------|----------------|-------------|
| ID: LCSW              | Seq. No.: 47         | Sample No.: 28 | A/S Pos: 50 |
| Sample Qty: 1.0000 mL | Prep. Vol.: 100.0 mL | Dilution: 1.0: | 1.0         |
|                       | Data: Original       | Date: 4/27/99  | 5:17:14 PM  |

| Element              | Mean Corr. Intensity | Mean Conc. | Std.Dev. Units | Calib | Mean Conc. | Std.Dev. Units | Sample | RSD    |
|----------------------|----------------------|------------|----------------|-------|------------|----------------|--------|--------|
| Y 371.030            | 2423699.8            | 0.992      | 0.0004         | mg/L  |            |                |        | 0.04%  |
| Ag 328.068           | 4568.7               | 0.0484     | 0.00037        | mg/L  |            |                |        | 0.76%  |
| Al 308.215           | 28911.0              | 1.864      | 0.0265         | mg/L  |            |                |        | 1.42%  |
| As 188.979           | 8.8                  | 0.0353     | 0.00218        | mg/L  |            |                |        | 6.20%  |
| B 249.773            | 46736.6              | 0.9430     | 0.00675        | mg/L  |            |                |        | 0.72%  |
| Ba 233.527           | 156611.8             | 2.052      | 0.0230         | mg/L  |            |                |        | 1.12%  |
| Be 313.107           | 117426.7             | 0.0477     | 0.00051        | mg/L  |            |                |        | 1.08%  |
| Ca 315.887           | 169193.5             | 2.319      | 0.0241         | mg/L  |            |                |        | 1.04%  |
| Cd 226.502           | 3146.6               | 0.0497     | 0.00019        | mg/L  |            |                |        | 0.38%  |
| Co 228.616           | 15611.5              | 0.5146     | 0.00596        | mg/L  |            |                |        | 1.16%  |
| Cr 267.716           | 16784.6              | 0.1928     | 0.00254        | mg/L  |            |                |        | 1.32%  |
| Cu 324.754           | 44340.4              | 0.2520     | 0.00245        | mg/L  |            |                |        | 0.97%  |
| Fe 238.863           | 14662.3              | 1.033      | 0.0110         | mg/L  |            |                |        | 1.06%  |
| <del>K 404.721</del> | 14058.6              | 10.21      | 1.389          | mg/L  |            |                |        | 13.60% |
| Mg 279.079           | 24483.3              | 1.956      | 0.0145         | mg/L  |            |                |        | 0.74%  |
| Mn 257.610           | 166863.4             | 0.4777     | 0.00518        | mg/L  |            |                |        | 1.08%  |
| Mo 202.030           | 4821.1               | 0.4579     | 0.00073        | mg/L  |            |                |        | 0.16%  |
| Na 330.237           | 10938.6              | 17.51      | 0.247          | mg/L  |            |                |        | 1.41%  |
| Ni 231.604           | 12232.6              | 0.5115     | 0.00563        | mg/L  |            |                |        | 1.10%  |
| Pb 220.353           | 2367.8               | 0.5000     | 0.00015        | mg/L  |            |                |        | 0.03%  |
| Sb 206.833           | 1960.9               | 0.4957     | 0.00083        | mg/L  |            |                |        | 0.17%  |
| Se 196.026           | 3056.5               | 0.9742     | 0.00112        | mg/L  |            |                |        | 0.12%  |
| Sn 189.933           | 18378.9              | 4.915      | 0.0542         | mg/L  |            |                |        | 1.10%  |
| Ti 334.941           | 204583.7             | 0.4752     | 0.00604        | mg/L  |            |                |        | 1.27%  |
| Tl 190.800           | 2060.3               | 2.079      | 0.0020         | mg/L  |            |                |        | 0.10%  |
| V 292.402            | 76868.3              | 0.4837     | 0.00580        | mg/L  |            |                |        | 1.20%  |
| Zn 206.200           | 24667.9              | 0.5020     | 0.00425        | mg/L  |            |                |        | 0.85%  |

## Mean Data

|                       |                      |                |             |
|-----------------------|----------------------|----------------|-------------|
| ID: LCSWF             | Seq. No.: 48         | Sample No.: 29 | A/S Pos: 51 |
| Sample Qty: 1.0000 mL | Prep. Vol.: 100.0 mL | Dilution: 1.0: | 1.0         |
|                       | Data: Original       | Date: 4/27/99  | 5:20:42 PM  |

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. Units | Calib | Mean Conc. | Std.Dev. Units | Sample | RSD    |
|------------|----------------------|------------|----------------|-------|------------|----------------|--------|--------|
| Y 371.030  | 2473911.4            | 1.012      | 0.0035         | mg/L  |            |                |        | 0.35%  |
| Ag 328.068 | -1327.2              | 0.0003     | 0.00011        | mg/L  |            |                |        | 35.40% |
| Al 308.215 | 4737.6               | -0.0071    | 0.00072        | mg/L  |            |                |        | 10.17% |

0113

|            |         |         |              |         |
|------------|---------|---------|--------------|---------|
| As 188.979 | 15.4    | 0.0379  | 0.00036 mg/L | 0.95%   |
| B 249.773  | 26.6    | 0.0015  | 0.00128 mg/L | 85.43%  |
| 33.527     | -471.6  | -0.0006 | 0.00012 mg/L | 21.78%  |
| Ba 313.107 | -5350.6 | 0.0001  | 0.00001 mg/L | 17.25%  |
| Ca 315.887 | -9369.8 | 0.0990  | 0.00005 mg/L | 0.05%   |
| Cd 226.502 | 263.5   | -0.0002 | 0.00006 mg/L | 36.00%  |
| Co 228.616 | -711.3  | 0.0002  | 0.00007 mg/L | 26.29%  |
| Cr 267.716 | -475.0  | 0.0009  | 0.00009 mg/L | 10.02%  |
| Cu 324.754 | 2972.3  | 0.0076  | 0.00030 mg/L | 3.89%   |
| Fe 238.863 | 2975.6  | 0.2374  | 0.00048 mg/L | 0.20%   |
| K 404.721  | 12448.6 | -6.012  | 0.9776 mg/L  | 16.26%  |
| Mg 279.079 | -1676.6 | 0.0159  | 0.00143 mg/L | 8.95%   |
| Mn 257.610 | 527.5   | 0.0011  | 0.00001 mg/L | 1.22%   |
| Mo 202.030 | 9.0     | 0.0001  | 0.00024 mg/L | 213.82% |
| Na 330.237 | 85.9    | 0.3553  | 0.00171 mg/L | 0.48%   |
| Ni 231.604 | 127.3   | 0.0001  | 0.00014 mg/L | 101.79% |
| Pb 220.353 | 251.8   | 0.0200  | 0.00049 mg/L | 2.45%   |
| Sb 206.833 | 449.6   | 0.0481  | 0.00078 mg/L | 1.62%   |
| Se 196.026 | 90.0    | 0.0138  | 0.00074 mg/L | 5.34%   |
| Sn 189.933 | -167.7  | 0.0039  | 0.00127 mg/L | 32.82%  |
| Ti 334.941 | -646.6  | 0.0010  | 0.00019 mg/L | 19.37%  |
| Tl 190.800 | -13.4   | 0.0541  | 0.00084 mg/L | 1.55%   |
| V 292.402  | -224.6  | 0.0001  | 0.00015 mg/L | 195.37% |
| Zn 206.200 | -67.8   | 0.0043  | 0.00016 mg/L | 3.83%   |

## Mean Data

ID: 283838

Sample Qty: 1.0000 mL

Seq. No.: 49

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 30

Dilution: 1.0: 1.0

A/S Pos: 52

Date: 4/27/99 5:24:12 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. Units | Calib | Mean Conc. | Std.Dev. Units | Sample | RSD     |
|------------|----------------------|------------|----------------|-------|------------|----------------|--------|---------|
| Y 371.030  | 2407663.4            | 0.985      | 0.0088         | mg/L  |            |                |        | 0.89%   |
| Ag 328.068 | -1344.3              | 0.0002     | 0.00029        | mg/L  |            |                |        | 178.20% |
| Al 308.215 | 24399.1              | 1.515      | 0.0178         | mg/L  |            |                |        | 1.18%   |
| As 188.979 | -66.9                | 0.0042     | 0.00014        | mg/L  |            |                |        | 3.35%   |
| B 249.773  | 1144.0               | 0.0240     | 0.00037        | mg/L  |            |                |        | 1.54%   |
| Ba 233.527 | 3993.3               | 0.0578     | 0.00052        | mg/L  |            |                |        | 0.90%   |
| Be 313.107 | -5479.4              | 0.0000     | 0.00003        | mg/L  |            |                |        | 91.36%  |
| Ca 315.887 | 758680.8             | 9.646      | 0.0386         | mg/L  |            |                |        | 0.40%   |
| Cd 226.502 | 358.2                | 0.0015     | 0.00017        | mg/L  |            |                |        | 11.31%  |
| Co 228.616 | -701.0               | 0.0006     | 0.00007        | mg/L  |            |                |        | 11.40%  |
| Cr 267.716 | 1830.9               | 0.0265     | 0.00002        | mg/L  |            |                |        | 0.07%   |
| Cu 324.754 | 8859.6               | 0.0424     | 0.00045        | mg/L  |            |                |        | 1.07%   |
| Fe 238.863 | 68932.8              | 4.730      | 0.0540         | mg/L  |            |                |        | 1.14%   |
| K 404.721  | 13297.9              | 2.545      | 2.4559         | mg/L  |            |                |        | 96.49%  |
| Mg 279.079 | 20956.2              | 1.694      | 0.0273         | mg/L  |            |                |        | 1.61%   |
| Mn 257.610 | 22587.9              | 0.0643     | 0.00062        | mg/L  |            |                |        | 0.96%   |
| Mo 202.030 | 38.3                 | 0.0029     | 0.00011        | mg/L  |            |                |        | 3.95%   |
| Na 330.237 | 60233.5              | 97.18      | 1.474          | mg/L  |            |                |        | 1.52%   |
| Ni 231.604 | 327.4                | 0.0086     | 0.00056        | mg/L  |            |                |        | 6.55%   |
| Pb 220.353 | 467.5                | 0.0690     | 0.00056        | mg/L  |            |                |        | 0.81%   |
| Sb 206.833 | 298.9                | 0.0035     | 0.00094        | mg/L  |            |                |        | 27.13%  |
| Se 196.026 | 66.2                 | 0.0061     | 0.00108        | mg/L  |            |                |        | 17.62%  |
| Sn 189.933 | -158.7               | 0.0063     | 0.00157        | mg/L  |            |                |        | 25.08%  |
| Ti 334.941 | 12708.9              | 0.0318     | 0.00049        | mg/L  |            |                |        | 1.53%   |
| Tl 190.800 | -75.4                | -0.0061    | 0.00283        | mg/L  |            |                |        | 46.01%  |
| V 292.402  | 1761.1               | 0.0125     | 0.00023        | mg/L  |            |                |        | 1.87%   |
| Zn 206.200 | 52294.2              | 1.058      | 0.0164         | mg/L  |            |                |        | 1.55%   |

## Mean Data

ID: 283839

Sample Qty: 1.0000 mL

Seq. No.: 50

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 31

Dilution: 1.0: 1.0

A/S Pos: 53

Date: 4/27/99 5:27:42 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. Units | Calib | Mean Conc. | Std.Dev. Units | Sample | RSD     |
|------------|----------------------|------------|----------------|-------|------------|----------------|--------|---------|
| Al 308.215 | 2450236.7            | 1.002      | 0.0062         | mg/L  |            |                |        | 0.62%   |
| As 188.979 | -1337.4              | 0.0002     | 0.00026        | mg/L  |            |                |        | 118.57% |
| B 249.773  | 7515.6               | 0.2079     | 0.00049        | mg/L  |            |                |        | 0.24%   |
| Ba 233.527 | -69.2                | 0.0033     | 0.00197        | mg/L  |            |                |        | 60.40%  |
| 1.030      | 1056.4               | 0.0223     | 0.00012        | mg/L  |            |                |        | 0.52%   |
| 328.068    | 1421.6               | 0.0242     | 0.00003        | mg/L  |            |                |        | 0.12%   |

0114

|            |          |         |              |         |
|------------|----------|---------|--------------|---------|
| e 313.107  | -5416.0  | 0.0001  | 0.00001 mg/L | 13.67%  |
| a 313.887  | 941015.7 | 11.91   | 0.031 mg/L   | 0.26%   |
| d 316.502  | 285.8    | 0.0002  | 0.00003 mg/L | 11.01%  |
| o 228.616  | -708.5   | 0.0003  | 0.00005 mg/L | 15.85%  |
| r 267.716  | 382.1    | 0.0104  | 0.00000 mg/L | 0.01%   |
| u 324.754  | 3445.4   | 0.0104  | 0.00023 mg/L | 2.23%   |
| e 238.863  | 27120.6  | 1.882   | 0.0132 mg/L  | 0.70%   |
| 404.721    | 13104.0  | 0.5916  | 2.11818 mg/L | 358.05% |
| ig 279.079 | 28868.9  | 2.281   | 0.0213 mg/L  | 0.93%   |
| ln 257.610 | 8602.0   | 0.0242  | 0.00006 mg/L | 0.23%   |
| lo 202.030 | 32.3     | 0.0023  | 0.00004 mg/L | 1.93%   |
| la 330.237 | 47784.2  | 77.99   | 0.718 mg/L   | 0.92%   |
| li 231.604 | 242.4    | 0.0050  | 0.00054 mg/L | 10.86%  |
| pb 220.353 | 199.6    | 0.0082  | 0.00115 mg/L | 13.98%  |
| sb 206.833 | 281.1    | -0.0018 | 0.00170 mg/L | 93.27%  |
| se 196.026 | 56.7     | 0.0030  | 0.00080 mg/L | 26.36%  |
| sn 189.933 | -151.5   | 0.0082  | 0.00100 mg/L | 12.28%  |
| ti 334.941 | 1230.6   | 0.0053  | 0.00004 mg/L | 0.79%   |
| tl 190.800 | -72.3    | -0.0031 | 0.00100 mg/L | 32.61%  |
| v 292.402  | 772.0    | 0.0063  | 0.00007 mg/L | 1.11%   |
| zn 206.200 | 6236.9   | 0.1311  | 0.00145 mg/L | 1.11%   |

Mean Data  
 ID: 283839D Seq. No.: 51 Sample No.: 32 A/S Pos: 54  
 Sample Qty: 1.0000 mL Prep. Vol.: 100.0 mL Dilution: 1.0: 1.0  
 Date: 4/27/99 5:31:13 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2414642.0            | 0.988      | 0.0067   | mg/L        |            |          |              | 0.67%   |
| Ag 328.068 | -1363.3              | 0.0000     | 0.00039  | mg/L        |            |          |              | >999.9% |
| Al 308.215 | 7459.4               | 0.2036     | 0.00421  | mg/L        |            |          |              | 2.07%   |
| As 188.979 | -73.2                | 0.0016     | 0.00064  | mg/L        |            |          |              | 39.80%  |
| B 249.773  | 982.6                | 0.0208     | 0.00016  | mg/L        |            |          |              | 0.76%   |
| B 249.527  | 1402.8               | 0.0239     | 0.00032  | mg/L        |            |          |              | 1.35%   |
| Be 313.107 | -5464.0              | 0.0000     | 0.00002  | mg/L        |            |          |              | 43.71%  |
| Ca 315.887 | 975451.1             | 12.34      | 0.025    | mg/L        |            |          |              | 0.20%   |
| Cd 226.502 | 297.0                | 0.0004     | 0.00008  | mg/L        |            |          |              | 19.56%  |
| Co 228.616 | -729.0               | -0.0003    | 0.00032  | mg/L        |            |          |              | 102.35% |
| Cr 267.716 | 379.5                | 0.0104     | 0.00024  | mg/L        |            |          |              | 2.34%   |
| Cu 324.754 | 3532.5               | 0.0109     | 0.00008  | mg/L        |            |          |              | 0.70%   |
| Fe 238.863 | 27993.0              | 1.941      | 0.0162   | mg/L        |            |          |              | 0.83%   |
| K 404.721  | 13404.2              | 3.617      | 0.1307   | mg/L        |            |          |              | 3.61%   |
| Mg 279.079 | 30005.6              | 2.365      | 0.0158   | mg/L        |            |          |              | 0.67%   |
| Mn 257.610 | 8896.1               | 0.0251     | 0.00023  | mg/L        |            |          |              | 0.93%   |
| Mo 202.030 | 32.2                 | 0.0023     | 0.00023  | mg/L        |            |          |              | 9.92%   |
| Na 330.237 | 49958.9              | 81.53      | 0.569    | mg/L        |            |          |              | 0.70%   |
| Ni 231.604 | 225.5                | 0.0043     | 0.00013  | mg/L        |            |          |              | 3.14%   |
| Pb 220.353 | 205.1                | 0.0094     | 0.00122  | mg/L        |            |          |              | 12.90%  |
| Sb 206.833 | 288.4                | 0.0003     | 0.00195  | mg/L        |            |          |              | 572.98% |
| Se 196.026 | 56.8                 | 0.0031     | 0.00054  | mg/L        |            |          |              | 17.51%  |
| Sn 189.933 | -142.8               | 0.0105     | 0.00264  | mg/L        |            |          |              | 25.24%  |
| Ti 334.941 | 992.3                | 0.0048     | 0.00023  | mg/L        |            |          |              | 4.85%   |
| Tl 190.800 | -76.4                | -0.0071    | 0.00124  | mg/L        |            |          |              | 17.51%  |
| V 292.402  | 823.0                | 0.0066     | 0.00018  | mg/L        |            |          |              | 2.67%   |
| Zn 206.200 | 5979.9               | 0.1260     | 0.00029  | mg/L        |            |          |              | 0.23%   |

Mean Data  
 ID: 283839S Seq. No.: 52 Sample No.: 33 A/S Pos: 55  
 Sample Qty: 1.0000 mL Prep. Vol.: 100.0 mL Dilution: 1.0: 1.0  
 Date: 4/27/99 5:34:40 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030  | 2383564.7            | 0.975      | 0.0023   | mg/L        |            |          |              | 0.24% |
| Ag 328.068 | 4617.0               | 0.0487     | 0.00002  | mg/L        |            |          |              | 0.03% |
| Al 308.215 | 32830.0              | 2.167      | 0.0114   | mg/L        |            |          |              | 0.53% |
| As 188.979 | 21.2                 | 0.0403     | 0.00146  | mg/L        |            |          |              | 3.62% |
| B 249.773  | 50462.6              | 1.018      | 0.0009   | mg/L        |            |          |              | 0.09% |
| Ba 233.527 | 161231.2             | 2.112      | 0.0085   | mg/L        |            |          |              | 0.40% |
| Be 313.107 | 120066.5             | 0.0487     | 0.00015  | mg/L        |            |          |              | 0.30% |
| Ca 315.887 | 1157601.9            | 14.61      | 0.036    | mg/L        |            |          |              | 0.25% |
| Cd 226.502 | 3208.6               | 0.0508     | 0.00029  | mg/L        |            |          |              | 0.58% |

C115

|            |          |        |              |       |
|------------|----------|--------|--------------|-------|
| Co 228.616 | 16024.4  | 0.5276 | 0.00292 mg/L | 0.55% |
| Cr 267.716 | 17677.2  | 0.2028 | 0.00117 mg/L | 0.58% |
| C 24.754   | 47646.0  | 0.2715 | 0.00110 mg/L | 0.40% |
| Fe 238.863 | 42951.4  | 2.960  | 0.0107 mg/L  | 0.36% |
| K 404.721  | 15089.5  | 20.60  | 1.123 mg/L   | 5.45% |
| Mg 279.079 | 57359.6  | 4.393  | 0.0172 mg/L  | 0.39% |
| Mn 257.610 | 181262.4 | 0.5190 | 0.00170 mg/L | 0.33% |
| Mo 202.030 | 4858.2   | 0.4615 | 0.00308 mg/L | 0.67% |
| Na 330.237 | 64860.5  | 105.1  | 0.35 mg/L    | 0.33% |
| Ni 231.604 | 12418.9  | 0.5194 | 0.00070 mg/L | 0.13% |
| Pb 220.353 | 2455.4   | 0.5198 | 0.00326 mg/L | 0.63% |
| Sb 206.833 | 2019.0   | 0.5129 | 0.00069 mg/L | 0.13% |
| Se 196.026 | 3137.8   | 1.001  | 0.0079 mg/L  | 0.79% |
| Sn 189.933 | 20194.0  | 5.395  | 0.0095 mg/L  | 0.18% |
| Ti 334.941 | 207080.4 | 0.4810 | 0.00242 mg/L | 0.50% |
| Tl 190.800 | 2095.2   | 2.114  | 0.0212 mg/L  | 1.00% |
| V 292.402  | 78272.6  | 0.4925 | 0.00157 mg/L | 0.32% |
| Zn 206.200 | 32345.9  | 0.6565 | 0.00171 mg/L | 0.26% |

## Mean Data

ID: 283839SF

Sample Qty: 1.0000 mL

Seq. No.: 53

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 34

100.0 mL

A/S Pos: 56

Dilution:

1.0:

1.0

Date: 4/27/99

5:38:03 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2407257.6            | 0.985      | 0.0020   | mg/L        |            |          |              | 0.20%   |
| Ag 328.068 | -1355.0              | 0.0001     | 0.00008  | mg/L        |            |          |              | 108.59% |
| Al 308.215 | 7507.5               | 0.2073     | 0.00408  | mg/L        |            |          |              | 1.97%   |
| As 188.979 | 31.3                 | 0.0445     | 0.00086  | mg/L        |            |          |              | 1.93%   |
| B 249.773  | 1090.2               | 0.0229     | 0.00057  | mg/L        |            |          |              | 2.48%   |
| Ba 233.527 | 1400.2               | 0.0239     | 0.00033  | mg/L        |            |          |              | 1.39%   |
| Be 313.107 | -5589.1              | 0.0000     | 0.00001  | mg/L        |            |          |              | 65.47%  |
| Ca 315.887 | 972931.0             | 12.31      | 0.026    | mg/L        |            |          |              | 0.21%   |
| C 226.502  | 293.9                | 0.0004     | 0.00010  | mg/L        |            |          |              | 26.80%  |
| C 28.616   | -733.0               | -0.0004    | 0.00002  | mg/L        |            |          |              | 5.00%   |
| Cr 267.716 | 380.9                | 0.0104     | 0.00010  | mg/L        |            |          |              | 0.98%   |
| Cu 324.754 | 4433.6               | 0.0162     | 0.00062  | mg/L        |            |          |              | 3.81%   |
| Fe 238.863 | 27810.6              | 1.929      | 0.0052   | mg/L        |            |          |              | 0.27%   |
| K 404.721  | 13377.0              | 3.343      | 0.3204   | mg/L        |            |          |              | 9.58%   |
| Mg 279.079 | 30014.4              | 2.366      | 0.0119   | mg/L        |            |          |              | 0.50%   |
| Mn 257.610 | 8948.6               | 0.0252     | 0.00014  | mg/L        |            |          |              | 0.54%   |
| Mo 202.030 | 31.0                 | 0.0022     | 0.00005  | mg/L        |            |          |              | 2.36%   |
| Na 330.237 | 49741.5              | 81.18      | 0.538    | mg/L        |            |          |              | 0.66%   |
| Ni 231.604 | 235.8                | 0.0047     | 0.00018  | mg/L        |            |          |              | 3.79%   |
| Pb 220.353 | 295.2                | 0.0299     | 0.00030  | mg/L        |            |          |              | 1.00%   |
| Sb 206.833 | 471.3                | 0.0545     | 0.00028  | mg/L        |            |          |              | 0.52%   |
| Se 196.026 | 97.3                 | 0.0162     | 0.00336  | mg/L        |            |          |              | 20.75%  |
| Sn 189.933 | -147.9               | 0.0091     | 0.00070  | mg/L        |            |          |              | 7.63%   |
| Ti 334.941 | 1043.3               | 0.0049     | 0.00024  | mg/L        |            |          |              | 4.84%   |
| Tl 190.800 | -19.4                | 0.0483     | 0.00108  | mg/L        |            |          |              | 2.24%   |
| V 292.402  | 810.3                | 0.0066     | 0.00001  | mg/L        |            |          |              | 0.14%   |
| Zn 206.200 | 5926.8               | 0.1249     | 0.00003  | mg/L        |            |          |              | 0.02%   |

## Mean Data

ID: 284181

Sample Qty: 1.0000 mL

Seq. No.: 54

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 35

100.0 mL

A/S Pos: 57

Dilution:

1.0:

1.0

Date: 4/27/99

5:41:26 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2500451.0            | 1.023      | 0.0049   | mg/L        |            |          |              | 0.48%   |
| Ag 328.068 | -1333.3              | 0.0003     | 0.00060  | mg/L        |            |          |              | 237.99% |
| Al 308.215 | 4596.3               | -0.0181    | 0.00571  | mg/L        |            |          |              | 31.61%  |
| As 188.979 | -78.3                | -0.0005    | 0.00090  | mg/L        |            |          |              | 193.12% |
| B 249.773  | 295.8                | 0.0069     | 0.00020  | mg/L        |            |          |              | 2.88%   |
| Ba 233.527 | -491.1               | -0.0008    | 0.00006  | mg/L        |            |          |              | 6.84%   |
| Be 313.107 | -5392.0              | 0.0001     | 0.00001  | mg/L        |            |          |              | 17.84%  |
| Ca 315.887 | -10904.4             | 0.0799     | 0.00291  | mg/L        |            |          |              | 3.64%   |
| Cd 226.502 | 265.8                | -0.0001    | 0.00004  | mg/L        |            |          |              | 32.21%  |
| Co 228.616 | -709.0               | 0.0003     | 0.00012  | mg/L        |            |          |              | 36.95%  |
| Cr 267.716 | -444.0               | 0.0012     | 0.00004  | mg/L        |            |          |              | 2.84%   |
| Cu 324.754 | 1763.0               | 0.0005     | 0.00011  | mg/L        |            |          |              | 23.27%  |

0116

|            |         |         |              |         |
|------------|---------|---------|--------------|---------|
| Fe 238.863 | -123.4  | 0.0263  | 0.00521 mg/L | 19.81%  |
| K 404.721  | 12610.6 | -4.380  | 0.8682 mg/L  | 19.82%  |
| M 279.079  | -1722.0 | 0.0126  | 0.01054 mg/L | 83.81%  |
| 57.610     | 209.8   | 0.0002  | 0.00000 mg/L | 1.29%   |
| Mo 202.030 | 11.0    | 0.0003  | 0.00035 mg/L | 117.49% |
| Na 330.237 | -115.5  | 0.0274  | 0.09637 mg/L | 351.14% |
| Ni 231.604 | 177.4   | 0.0023  | 0.00015 mg/L | 6.53%   |
| Pb 220.353 | 172.4   | 0.0020  | 0.00051 mg/L | 25.03%  |
| Sb 206.833 | 269.3   | -0.0053 | 0.00010 mg/L | 1.83%   |
| Se 196.026 | 55.9    | 0.0028  | 0.00201 mg/L | 71.94%  |
| Sn 189.933 | -210.6  | -0.0075 | 0.00001 mg/L | 0.17%   |
| Ti 334.941 | -990.4  | 0.0002  | 0.00002 mg/L | 10.88%  |
| Tl 190.800 | -69.9   | -0.0007 | 0.00224 mg/L | 300.20% |
| V 292.402  | -247.6  | -0.0001 | 0.00007 mg/L | 100.40% |
| Zn 206.200 | -193.5  | 0.0017  | 0.00004 mg/L | 2.31%   |

## Mean Data

ID: 283840

Sample Qty: 1.0000 mL

Seq. No.: 55

Sample No.: 36

A/S Pos: 58

Prep. Vol.: 100.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 4/27/99

5:44:50 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2482399.3            | 1.016      | 0.0041   | mg/L        |            |          |              | 0.40%   |
| Ag 328.068 | -1252.6              | 0.0009     | 0.00009  | mg/L        |            |          |              | 9.98%   |
| Al 308.215 | 4549.9               | -0.0217    | 0.00081  | mg/L        |            |          |              | 3.75%   |
| As 188.979 | -83.5                | -0.0026    | 0.00021  | mg/L        |            |          |              | 8.15%   |
| B 249.773  | -154.0               | -0.0021    | 0.00027  | mg/L        |            |          |              | 12.79%  |
| Ba 233.527 | -505.9               | -0.0010    | 0.00027  | mg/L        |            |          |              | 27.20%  |
| Be 313.107 | -5372.1              | 0.0001     | 0.00001  | mg/L        |            |          |              | 11.78%  |
| Ca 315.887 | -11553.0             | 0.0718     | 0.00171  | mg/L        |            |          |              | 2.37%   |
| Cd 226.502 | 269.9                | 0.0000     | 0.00018  | mg/L        |            |          |              | 385.44% |
| Co 228.616 | -704.3               | 0.0005     | 0.00009  | mg/L        |            |          |              | 19.92%  |
| Cr 267.716 | -500.8               | 0.0006     | 0.00002  | mg/L        |            |          |              | 3.71%   |
| Cu 324.754 | 1910.2               | 0.0013     | 0.00012  | mg/L        |            |          |              | 9.11%   |
| F 38.863   | 11.2                 | 0.0355     | 0.00019  | mg/L        |            |          |              | 0.53%   |
| K 4.721    | 12595.4              | -4.533     | 0.8157   | mg/L        |            |          |              | 17.99%  |
| Mg 279.079 | -1828.7              | 0.0047     | 0.00116  | mg/L        |            |          |              | 24.91%  |
| Mn 257.610 | 208.8                | 0.0002     | 0.00001  | mg/L        |            |          |              | 3.78%   |
| Mo 202.030 | 8.3                  | 0.0000     | 0.00046  | mg/L        |            |          |              | >999.9% |
| Na 330.237 | 29.8                 | 0.2639     | 0.02060  | mg/L        |            |          |              | 7.80%   |
| Ni 231.604 | 123.7                | 0.0000     | 0.00010  | mg/L        |            |          |              | 903.41% |
| Pb 220.353 | 161.6                | -0.0004    | 0.00103  | mg/L        |            |          |              | 247.03% |
| Sb 206.833 | 274.8                | -0.0037    | 0.00012  | mg/L        |            |          |              | 3.13%   |
| Se 196.026 | 52.6                 | 0.0017     | 0.00031  | mg/L        |            |          |              | 18.05%  |
| Sn 189.933 | -215.3               | -0.0087    | 0.00089  | mg/L        |            |          |              | 10.16%  |
| Ti 334.941 | -928.6               | 0.0003     | 0.00017  | mg/L        |            |          |              | 50.39%  |
| Tl 190.800 | -70.2                | -0.0011    | 0.00482  | mg/L        |            |          |              | 444.32% |
| V 292.402  | -260.3               | -0.0001    | 0.00003  | mg/L        |            |          |              | 19.80%  |
| Zn 206.200 | -193.5               | 0.0017     | 0.00009  | mg/L        |            |          |              | 5.19%   |

## Mean Data

ID: CCV

Sample Qty: 1.0000 g

Seq. No.: 56

Sample No.: 2

A/S Pos: 3

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 4/27/99

5:48:19 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030  | 2356788.2            | 0.964      | 0.0039   | mg/L        |            |          |              | 0.40% |
| Ag 328.068 | 58850.0              | 0.4907     | 0.00023  | mg/L        |            |          |              | 0.05% |
| Al 308.215 | 129099.8             | 9.619      | 0.0005   | mg/L        |            |          |              | 0.00% |
| As 188.979 | 2290.7               | 0.9708     | 0.00620  | mg/L        |            |          |              | 0.64% |
| B 249.773  | 124336.8             | 2.507      | 0.0088   | mg/L        |            |          |              | 0.35% |
| Ba 233.527 | 776610.9             | 10.15      | 0.011    | mg/L        |            |          |              | 0.11% |
| Be 313.107 | 635017.8             | 0.2483     | 0.00002  | mg/L        |            |          |              | 0.01% |
| Ca 315.887 | 2080604.4            | 26.08      | 0.020    | mg/L        |            |          |              | 0.08% |
| Cd 226.502 | 29211.1              | 0.5006     | 0.00050  | mg/L        |            |          |              | 0.10% |
| Co 228.616 | 79803.5              | 2.537      | 0.0032   | mg/L        |            |          |              | 0.13% |
| Cr 267.716 | 42545.0              | 0.4793     | 0.00117  | mg/L        |            |          |              | 0.25% |
| Cu 324.754 | 205891.9             | 1.206      | 0.0002   | mg/L        |            |          |              | 0.01% |
| Fe 238.863 | 73235.3              | 5.023      | 0.0026   | mg/L        |            |          |              | 0.05% |
| K 404.721  | 14791.9              | 17.60      | 0.318    | mg/L        |            |          |              | 1.81% |

\*QC exceeds lower limit for K 404.721 Recovery = 70.40% Action = Continue

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|            |           |        |              |       |
|------------|-----------|--------|--------------|-------|
| Mg 279.079 | 328385.2  | 24.49  | 0.022 mg/L   | 0.09% |
| Mn 257.610 | 249842.7  | 0.7155 | 0.00021 mg/L | 0.03% |
| Mo 202.030 | 25398.0   | 2.416  | 0.0084 mg/L  | 0.35% |
| Na 330.237 | 14218.9   | 23.11  | 0.078 mg/L   | 0.34% |
| Ni 231.604 | 46859.5   | 1.974  | 0.0033 mg/L  | 0.17% |
| Pb 220.353 | 2328.5    | 0.4941 | 0.00026 mg/L | 0.05% |
| Sb 206.833 | 18322.1   | 5.373  | 0.0166 mg/L  | 0.31% |
| Se 196.026 | 1542.0    | 0.4839 | 0.00276 mg/L | 0.57% |
| Sn 189.933 | 19636.3   | 5.248  | 0.0230 mg/L  | 0.44% |
| Ti 334.941 | 1071198.3 | 2.478  | 0.0008 mg/L  | 0.03% |
| Tl 190.800 | 910.1     | 1.037  | 0.0056 mg/L  | 0.54% |
| V 292.402  | 389143.8  | 2.443  | 0.0002 mg/L  | 0.01% |
| Zn 206.200 | 48581.6   | 0.9832 | 0.00054 mg/L | 0.05% |

## Mean Data

ID: CCB Seq. No.: 57 Sample No.: 4 A/S Pos: 1  
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0  
 Data: Original Date: 4/27/99 5:51:42 PM

| Element                                             | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------------------------------------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030                                           | 2424153.5            | 0.992      | 0.0010   | mg/L        |            |          |              | 0.10%   |
| Ag 328.068                                          | -1297.1              | 0.0005     | 0.00055  | mg/L        |            |          |              | 101.52% |
| Al 308.215                                          | 4756.1               | -0.0057    | 0.00022  | mg/L        |            |          |              | 3.94%   |
| As 188.979                                          | -75.3                | 0.0008     | 0.00168  | mg/L        |            |          |              | 215.35% |
| B 249.773                                           | -30.2                | 0.0004     | 0.00186  | mg/L        |            |          |              | 525.26% |
| Ba 233.527                                          | -420.4               | 0.0001     | 0.00028  | mg/L        |            |          |              | 257.43% |
| Be 313.107                                          | -5501.4              | 0.0000     | 0.00002  | mg/L        |            |          |              | 99.52%  |
| Ca 315.887                                          | -17197.4             | 0.0017     | 0.00242  | mg/L        |            |          |              | 144.68% |
| Cd 226.502                                          | 266.4                | -0.0001    | 0.00006  | mg/L        |            |          |              | 53.12%  |
| Co 228.616                                          | -703.6               | 0.0005     | 0.00001  | mg/L        |            |          |              | 1.30%   |
| Cr 267.716                                          | -540.1               | 0.0002     | 0.00004  | mg/L        |            |          |              | 22.01%  |
| Cu 324.754                                          | 1609.0               | -0.0004    | 0.00026  | mg/L        |            |          |              | 59.26%  |
| Fe 238.863                                          | -331.0               | 0.0122     | 0.00057  | mg/L        |            |          |              | 4.68%   |
| K 404.721                                           | 12528.2              | -5.210     | 0.9183   | mg/L        |            |          |              | 17.63%  |
| exceeds lower limit for K 404.721 Action = Continue |                      |            |          |             |            |          |              |         |
| Mg 279.079                                          | -1855.8              | 0.0027     | 0.00115  | mg/L        |            |          |              | 43.11%  |
| Mn 257.610                                          | 221.2                | 0.0002     | 0.00003  | mg/L        |            |          |              | 11.86%  |
| Mo 202.030                                          | 13.5                 | 0.0005     | 0.00021  | mg/L        |            |          |              | 38.61%  |
| Na 330.237                                          | -130.9               | 0.0023     | 0.01550  | mg/L        |            |          |              | 663.39% |
| Ni 231.604                                          | 123.8                | 0.0000     | 0.00046  | mg/L        |            |          |              | >999.9% |
| Pb 220.353                                          | 154.2                | -0.0021    | 0.00024  | mg/L        |            |          |              | 11.37%  |
| Sb 206.833                                          | 283.5                | -0.0011    | 0.00075  | mg/L        |            |          |              | 66.96%  |
| Se 196.026                                          | 51.3                 | 0.0013     | 0.00385  | mg/L        |            |          |              | 297.90% |
| Sn 189.933                                          | -184.5               | -0.0006    | 0.00212  | mg/L        |            |          |              | 362.15% |
| Ti 334.941                                          | -953.1               | 0.0003     | 0.00020  | mg/L        |            |          |              | 72.79%  |
| Tl 190.800                                          | -70.6                | -0.0014    | 0.00071  | mg/L        |            |          |              | 51.15%  |
| V 292.402                                           | -235.2               | 0.0000     | 0.00011  | mg/L        |            |          |              | 959.17% |
| Zn 206.200                                          | -276.7               | 0.0001     | 0.00011  | mg/L        |            |          |              | 144.17% |

## Mean Data

ID: 283840A Seq. No.: 58 Sample No.: 37 A/S Pos: 59  
 Sample Qty: 1.0000 mL Prep. Vol.: 100.0 mL Dilution: 1.0: 1.0  
 Data: Original Date: 4/27/99 5:55:07 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030  | 2483165.3            | 1.016      | 0.0032   | mg/L        |            |          |              | 0.31%  |
| Ag 328.068 | 4289.7               | 0.0461     | 0.00008  | mg/L        |            |          |              | 0.17%  |
| Al 308.215 | 27901.1              | 1.786      | 0.0083   | mg/L        |            |          |              | 0.46%  |
| As 188.979 | 7.7                  | 0.0348     | 0.00213  | mg/L        |            |          |              | 6.11%  |
| B 249.773  | 45948.0              | 0.9271     | 0.00206  | mg/L        |            |          |              | 0.22%  |
| Ba 233.527 | 151211.8             | 1.981      | 0.0033   | mg/L        |            |          |              | 0.17%  |
| Be 313.107 | 113072.5             | 0.0460     | 0.00010  | mg/L        |            |          |              | 0.22%  |
| Ca 315.887 | 148916.0             | 2.067      | 0.0041   | mg/L        |            |          |              | 0.20%  |
| Cd 226.502 | 3053.3               | 0.0481     | 0.00016  | mg/L        |            |          |              | 0.34%  |
| Co 228.616 | 15129.8              | 0.4994     | 0.00072  | mg/L        |            |          |              | 0.14%  |
| Cr 267.716 | 16216.9              | 0.1865     | 0.00035  | mg/L        |            |          |              | 0.19%  |
| Cu 324.754 | 42930.8              | 0.2436     | 0.00047  | mg/L        |            |          |              | 0.19%  |
| Fe 238.863 | 14068.1              | 0.9929     | 0.00320  | mg/L        |            |          |              | 0.32%  |
| K 404.721  | 13726.2              | 6.861      | 1.5848   | mg/L        |            |          |              | 23.10% |
| Mg 279.079 | 23550.5              | 1.886      | 0.0007   | mg/L        |            |          |              | 0.04%  |
| Mn 257.610 | 160221.3             | 0.4587     | 0.00115  | mg/L        |            |          |              | 0.25%  |

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|            |          |        |              |       |
|------------|----------|--------|--------------|-------|
| Mo 202.030 | 4621.3   | 0.4389 | 0.00182 mg/L | 0.41% |
| Np 330.237 | 10540.8  | 17.37  | 0.035 mg/L   | 0.20% |
| P 31.604   | 11858.2  | 0.4957 | 0.00215 mg/L | 0.43% |
| Pb 220.353 | 2291.2   | 0.4826 | 0.00068 mg/L | 0.14% |
| Sb 206.833 | 1858.6   | 0.4654 | 0.00378 mg/L | 0.81% |
| Se 196.026 | 2832.5   | 0.9017 | 0.00620 mg/L | 0.69% |
| Sn 189.933 | 21001.4  | 5.609  | 0.0091 mg/L  | 0.16% |
| Ti 334.941 | 195574.0 | 0.4544 | 0.00145 mg/L | 0.32% |
| Tl 190.800 | 1984.7   | 2.006  | 0.0190 mg/L  | 0.95% |
| V 292.402  | 74057.4  | 0.4661 | 0.00089 mg/L | 0.19% |
| Zn 206.200 | 24003.8  | 0.4886 | 0.00044 mg/L | 0.09% |

## Mean Data

ID: 283840L

Sample Qty: 1.0000 mL

Seq. No.: 59

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 38

Dilution: 1.0: 1.0

A/S Pos: 60

Date: 4/27/99

5:58:30 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2483367.9            | 1.016      | 0.0014   | mg/L        |            |          |              | 0.13%   |
| Ag 328.068 | -1300.4              | 0.0005     | 0.00009  | mg/L        |            |          |              | 17.27%  |
| Al 308.215 | 4695.7               | -0.0104    | 0.00276  | mg/L        |            |          |              | 26.60%  |
| As 188.979 | -75.1                | 0.0008     | 0.00004  | mg/L        |            |          |              | 5.10%   |
| B 249.773  | 1031.4               | 0.0218     | 0.00057  | mg/L        |            |          |              | 2.61%   |
| Ba 233.527 | -461.5               | -0.0004    | 0.00013  | mg/L        |            |          |              | 29.85%  |
| Be 313.107 | -5455.0              | 0.0000     | 0.00001  | mg/L        |            |          |              | 31.57%  |
| Ca 315.887 | -1812.7              | 0.1929     | 0.00128  | mg/L        |            |          |              | 0.66%   |
| Cd 226.502 | 257.7                | -0.0003    | 0.00008  | mg/L        |            |          |              | 30.50%  |
| Co 228.616 | -689.1               | 0.0009     | 0.00031  | mg/L        |            |          |              | 32.55%  |
| Cr 267.716 | -499.9               | 0.0006     | 0.00002  | mg/L        |            |          |              | 3.64%   |
| Cu 324.754 | 1543.9               | -0.0008    | 0.00008  | mg/L        |            |          |              | 9.91%   |
| Fe 238.863 | -447.7               | 0.0042     | 0.00082  | mg/L        |            |          |              | 19.46%  |
| K 404.721  | 12086.5              | -9.661     | 0.3120   | mg/L        |            |          |              | 3.23%   |
| Mg 279.079 | -1758.2              | 0.0099     | 0.00025  | mg/L        |            |          |              | 2.58%   |
| Mn 257.610 | 89.7                 | -0.0002    | 0.00000  | mg/L        |            |          |              | 1.74%   |
| N 02.030   | 10.7                 | 0.0003     | 0.00026  | mg/L        |            |          |              | 95.62%  |
| Na 330.237 | -109.1               | 0.0378     | 0.04905  | mg/L        |            |          |              | 129.67% |
| Ni 231.604 | 151.8                | 0.0012     | 0.00013  | mg/L        |            |          |              | 10.69%  |
| Pb 220.353 | 153.9                | -0.0022    | 0.00090  | mg/L        |            |          |              | 41.62%  |
| Sb 206.833 | 266.1                | -0.0063    | 0.00021  | mg/L        |            |          |              | 3.34%   |
| Se 196.026 | 51.8                 | 0.0015     | 0.00164  | mg/L        |            |          |              | 110.63% |
| Sn 189.933 | -210.9               | -0.0076    | 0.00074  | mg/L        |            |          |              | 9.83%   |
| Ti 334.941 | -913.1               | 0.0004     | 0.00008  | mg/L        |            |          |              | 22.38%  |
| Tl 190.800 | -62.6                | 0.0064     | 0.00095  | mg/L        |            |          |              | 14.84%  |
| V 292.402  | -241.2               | 0.0000     | 0.00004  | mg/L        |            |          |              | 155.43% |
| Zn 206.200 | -207.3               | 0.0015     | 0.00010  | mg/L        |            |          |              | 7.05%   |

## Mean Data

ID: 283841

Sample Qty: 1.0000 mL

Seq. No.: 60

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 39

Dilution: 1.0: 1.0

A/S Pos: 61

Date: 4/27/99

6:01:56 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030  | 2400415.1            | 0.982      | 0.0080   | mg/L        |            |          |              | 0.82%  |
| Ag 328.068 | -1327.4              | 0.0003     | 0.00025  | mg/L        |            |          |              | 82.68% |
| Al 308.215 | 24196.5              | 1.499      | 0.0149   | mg/L        |            |          |              | 0.99%  |
| As 188.979 | -57.9                | 0.0079     | 0.00032  | mg/L        |            |          |              | 4.01%  |
| B 249.773  | 1047.2               | 0.0221     | 0.00018  | mg/L        |            |          |              | 0.81%  |
| Ba 233.527 | 2912.9               | 0.0437     | 0.00006  | mg/L        |            |          |              | 0.14%  |
| Be 313.107 | -5602.3              | 0.0000     | 0.00002  | mg/L        |            |          |              | 79.24% |
| Ca 315.887 | 567414.9             | 7.269      | 0.0029   | mg/L        |            |          |              | 0.04%  |
| Cd 226.502 | 332.2                | 0.0010     | 0.00001  | mg/L        |            |          |              | 1.19%  |
| Co 228.616 | -705.3               | 0.0004     | 0.00043  | mg/L        |            |          |              | 97.61% |
| Cr 267.716 | 1632.0               | 0.0243     | 0.00007  | mg/L        |            |          |              | 0.29%  |
| Cu 324.754 | 6975.4               | 0.0313     | 0.00015  | mg/L        |            |          |              | 0.47%  |
| Fe 238.863 | 51982.3              | 3.575      | 0.0450   | mg/L        |            |          |              | 1.26%  |
| F 4.721    | 13189.6              | 1.455      | 1.3907   | mg/L        |            |          |              | 95.61% |
| Mg 279.079 | 17533.2              | 1.440      | 0.0144   | mg/L        |            |          |              | 1.00%  |
| Mn 257.610 | 11331.4              | 0.0321     | 0.00036  | mg/L        |            |          |              | 1.11%  |
| Mo 202.030 | 34.2                 | 0.0025     | 0.00081  | mg/L        |            |          |              | 32.43% |
| Na 330.237 | 54942.2              | 88.70      | 1.282    | mg/L        |            |          |              | 1.45%  |
| Ni 231.604 | 270.1                | 0.0062     | 0.00022  | mg/L        |            |          |              | 3.61%  |

0119

|            |         |         |              |         |
|------------|---------|---------|--------------|---------|
| Pb 220.353 | 408.4   | 0.0555  | 0.00169 mg/L | 3.04%   |
| Sb 206.833 | 288.6   | 0.0004  | 0.00145 mg/L | 353.40% |
| Se 196.026 | 61.2    | 0.0045  | 0.00140 mg/L | 31.18%  |
| Sn 189.933 | -162.4  | 0.0053  | 0.00219 mg/L | 41.49%  |
| Ti 334.941 | 12380.2 | 0.0311  | 0.00046 mg/L | 1.48%   |
| Tl 190.800 | -73.0   | -0.0038 | 0.00300 mg/L | 79.36%  |
| V 292.402  | 1424.0  | 0.0104  | 0.00004 mg/L | 0.43%   |
| Zn 206.200 | 45609.1 | 0.9234  | 0.01315 mg/L | 1.42%   |

## Mean Data

ID: 283844

Sample Qty: 1.0000 mL

Seq. No.: 61

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 40

100.0 mL

A/S Pos: 62

Dilution: 1.0: 1.0

Date: 4/27/99

6:05:21 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2469009.7            | 1.010      | 0.0025   | mg/L        |            |          |              | 0.25%   |
| Ag 328.068 | -1253.1              | 0.0009     | 0.00015  | mg/L        |            |          |              | 16.91%  |
| Al 308.215 | 4658.8               | -0.0132    | 0.00154  | mg/L        |            |          |              | 11.62%  |
| As 188.979 | -73.2                | 0.0016     | 0.00043  | mg/L        |            |          |              | 26.77%  |
| B 249.773  | -271.3               | -0.0045    | 0.00007  | mg/L        |            |          |              | 1.49%   |
| Ba 233.527 | -489.6               | -0.0008    | 0.00005  | mg/L        |            |          |              | 6.61%   |
| Be 313.107 | -5399.4              | 0.0001     | 0.00003  | mg/L        |            |          |              | 43.35%  |
| Ca 315.887 | -11415.2             | 0.0736     | 0.00081  | mg/L        |            |          |              | 1.11%   |
| Cd 226.502 | 263.9                | -0.0002    | 0.00003  | mg/L        |            |          |              | 19.89%  |
| Co 228.616 | -692.9               | 0.0008     | 0.00009  | mg/L        |            |          |              | 11.12%  |
| Cr 267.716 | -417.9               | 0.0015     | 0.00029  | mg/L        |            |          |              | 18.60%  |
| Cu 324.754 | 1986.6               | 0.0018     | 0.00005  | mg/L        |            |          |              | 2.98%   |
| Fe 238.863 | -113.0               | 0.0270     | 0.00122  | mg/L        |            |          |              | 4.52%   |
| K 404.721  | 12243.4              | -8.080     | 0.3782   | mg/L        |            |          |              | 4.68%   |
| Mg 279.079 | -1787.6              | 0.0077     | 0.00085  | mg/L        |            |          |              | 10.96%  |
| Mn 257.610 | 159.7                | 0.0000     | 0.00001  | mg/L        |            |          |              | 18.65%  |
| Mo 202.030 | 4.8                  | -0.0003    | 0.00015  | mg/L        |            |          |              | 51.15%  |
| Na 330.237 | -40.2                | 0.1501     | 0.01249  | mg/L        |            |          |              | 8.32%   |
| Ni 231.604 | 143.4                | 0.0008     | 0.00029  | mg/L        |            |          |              | 35.23%  |
| Pb 220.353 | 161.5                | -0.0004    | 0.00120  | mg/L        |            |          |              | 273.48% |
| Sb 206.833 | 271.3                | -0.0047    | 0.00033  | mg/L        |            |          |              | 6.93%   |
| Se 196.026 | 50.8                 | 0.0011     | 0.00016  | mg/L        |            |          |              | 14.15%  |
| Sn 189.933 | -209.9               | -0.0073    | 0.00004  | mg/L        |            |          |              | 0.52%   |
| Ti 334.941 | -1082.4              | 0.0000     | 0.00004  | mg/L        |            |          |              | 215.36% |
| Tl 190.800 | -70.4                | -0.0013    | 0.00254  | mg/L        |            |          |              | 197.84% |
| V 292.402  | -244.8               | 0.0000     | 0.00001  | mg/L        |            |          |              | 13.36%  |
| Zn 206.200 | -82.4                | 0.0040     | 0.00001  | mg/L        |            |          |              | 0.31%   |

## Mean Data

ID: 284478

Sample Qty: 1.0000 mL

Seq. No.: 62

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 41

100.0 mL

A/S Pos: 63

Dilution: 1.0: 1.0

Date: 4/27/99

6:08:48 PM

| Element              | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030            | 2457087.3            | 1.005      | 0.0030   | mg/L        |            |          |              | 0.30%   |
| Ag 328.068           | -1287.1              | 0.0006     | 0.00022  | mg/L        |            |          |              | 34.81%  |
| Al 308.215           | 12664.8              | 0.6065     | 0.01286  | mg/L        |            |          |              | 2.12%   |
| As 188.979           | -79.8                | -0.0011    | 0.00130  | mg/L        |            |          |              | 119.64% |
| B 249.773            | 2363.8               | 0.0486     | 0.00010  | mg/L        |            |          |              | 0.22%   |
| Ba 233.527           | 874.0                | 0.0170     | 0.00019  | mg/L        |            |          |              | 1.11%   |
| Be 313.107           | -5360.0              | 0.0001     | 0.00000  | mg/L        |            |          |              | 2.01%   |
| Ca 315.887           | 1290121.8            | 16.25      | 0.037    | mg/L        |            |          |              | 0.23%   |
| Cd 226.502           | 275.1                | 0.0000     | 0.00005  | mg/L        |            |          |              | 106.14% |
| Co 228.616           | -693.0               | 0.0008     | 0.00002  | mg/L        |            |          |              | 2.20%   |
| Cr 267.716           | -437.8               | 0.0013     | 0.00022  | mg/L        |            |          |              | 17.03%  |
| Cu 324.754           | 1709.9               | 0.0001     | 0.00005  | mg/L        |            |          |              | 32.71%  |
| Fe 238.863           | 13992.2              | 0.9877     | 0.01055  | mg/L        |            |          |              | 1.07%   |
| <del>K 404.721</del> | 12471.5              | -5.781     | 1.1455   | mg/L        |            |          |              | 19.81%  |
| Mg 279.079           | 19512.7              | 1.587      | 0.0211   | mg/L        |            |          |              | 1.33%   |
| Mn 257.610           | 70073.1              | 0.2004     | 0.00291  | mg/L        |            |          |              | 1.45%   |
| Mo 202.030           | 4.4                  | -0.0003    | 0.00032  | mg/L        |            |          |              | 96.55%  |
| Na 330.237           | 3413.2               | 5.771      | 0.0548   | mg/L        |            |          |              | 0.95%   |
| Ni 231.604           | 130.1                | 0.0003     | 0.00010  | mg/L        |            |          |              | 40.36%  |
| Pb 220.353           | 163.9                | 0.0001     | 0.00052  | mg/L        |            |          |              | 514.65% |
| Sb 206.833           | 269.4                | -0.0053    | 0.00015  | mg/L        |            |          |              | 2.92%   |
| Se 196.026           | 51.6                 | 0.0014     | 0.00367  | mg/L        |            |          |              | 257.94% |

0120

|            |         |         |              |        |
|------------|---------|---------|--------------|--------|
| Sn 189.933 | -145.3  | 0.0098  | 0.00075 mg/L | 7.65%  |
| Ti 334.941 | 12698.4 | 0.0318  | 0.00052 mg/L | 1.63%  |
| V 90.800   | -72.9   | -0.0037 | 0.00215 mg/L | 58.22% |
| V 240.402  | -44.1   | 0.0012  | 0.00013 mg/L | 10.64% |
| Zn 206.200 | -102.1  | 0.0036  | 0.00016 mg/L | 4.34%  |

## Mean Data

|                       |                      |                |             |
|-----------------------|----------------------|----------------|-------------|
| ID: 284479            | Seq. No.: 63         | Sample No.: 42 | A/S Pos: 64 |
| Sample Qty: 1.0000 mL | Prep. Vol.: 100.0 mL | Dilution: 1.0: | 1.0         |
|                       | Data: Original       | Date: 4/27/99  | 6:12:16 PM  |

| Element              | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030            | 2433381.4            | 0.995      | 0.0003   | mg/L        |            |          |              | 0.03%   |
| Ag 328.068           | -1355.0              | 0.0001     | 0.00038  | mg/L        |            |          |              | 512.44% |
| Al 308.215           | 175103.1             | 13.18      | 0.330    | mg/L        |            |          |              | 2.50%   |
| As 188.979           | -86.4                | -0.0038    | 0.00185  | mg/L        |            |          |              | 49.06%  |
| B 249.773            | 3119.6               | 0.0638     | 0.00070  | mg/L        |            |          |              | 1.10%   |
| Ba 233.527           | 8804.5               | 0.1206     | 0.00439  | mg/L        |            |          |              | 3.64%   |
| Be 313.107           | -6782.7              | -0.0005    | 0.00005  | mg/L        |            |          |              | 10.26%  |
| Ca 315.887           | 885007.2             | 11.22      | 0.002    | mg/L        |            |          |              | 0.02%   |
| Cd 226.502           | 289.1                | 0.0003     | 0.00009  | mg/L        |            |          |              | 32.21%  |
| Co 228.616           | -559.0               | 0.0050     | 0.00017  | mg/L        |            |          |              | 3.45%   |
| Cr 267.716           | 1079.3               | 0.0182     | 0.00028  | mg/L        |            |          |              | 1.53%   |
| Cu 324.754           | 3849.2               | 0.0128     | 0.00029  | mg/L        |            |          |              | 2.28%   |
| Fe 238.863           | 202783.1             | 13.85      | 0.039    | mg/L        |            |          |              | 0.28%   |
| <del>K 404.721</del> | 13087.7              | 0.4273     | 0.09092  | mg/L        |            |          |              | 21.28%  |
| Mg 279.079           | 66631.5              | 5.081      | 0.0021   | mg/L        |            |          |              | 0.04%   |
| Mn 257.610           | 55315.1              | 0.1581     | 0.00166  | mg/L        |            |          |              | 1.05%   |
| Mo 202.030           | 24.8                 | 0.0016     | 0.00017  | mg/L        |            |          |              | 10.61%  |
| Na 330.237           | 4844.1               | 8.100      | 0.0978   | mg/L        |            |          |              | 1.21%   |
| Ni 231.604           | 412.0                | 0.0122     | 0.00001  | mg/L        |            |          |              | 0.06%   |
| Pb 220.353           | 208.8                | 0.0103     | 0.00004  | mg/L        |            |          |              | 0.41%   |
| Sb 206.833           | 293.9                | 0.0020     | 0.00114  | mg/L        |            |          |              | 57.64%  |
| Sr 196.026           | 60.9                 | 0.0044     | 0.00021  | mg/L        |            |          |              | 4.65%   |
| 89.933               | -107.8               | 0.0197     | 0.00353  | mg/L        |            |          |              | 17.86%  |
| Ta 334.941           | 372800.3             | 0.8639     | 0.04107  | mg/L        |            |          |              | 4.75%   |
| Tl 190.800           | -86.0                | -0.0111    | 0.00930  | mg/L        |            |          |              | 83.91%  |
| V 292.402            | 3756.2               | 0.0251     | 0.00023  | mg/L        |            |          |              | 0.90%   |
| Zn 206.200           | 1460.0               | 0.0350     | 0.00076  | mg/L        |            |          |              | 2.17%   |

## Mean Data

|                       |                      |                |             |
|-----------------------|----------------------|----------------|-------------|
| ID: 284480            | Seq. No.: 64         | Sample No.: 43 | A/S Pos: 65 |
| Sample Qty: 1.0000 mL | Prep. Vol.: 100.0 mL | Dilution: 1.0: | 1.0         |
|                       | Data: Original       | Date: 4/27/99  | 6:15:45 PM  |

| Element              | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030            | 2416905.9            | 0.989      | 0.0024   | mg/L        |            |          |              | 0.24%   |
| Ag 328.068           | -1260.3              | 0.0008     | 0.00023  | mg/L        |            |          |              | 27.03%  |
| Al 308.215           | 5934.7               | 0.0855     | 0.00044  | mg/L        |            |          |              | 0.51%   |
| As 188.979           | -80.3                | -0.0013    | 0.00096  | mg/L        |            |          |              | 74.73%  |
| B 249.773            | 10494.1              | 0.2125     | 0.00049  | mg/L        |            |          |              | 0.23%   |
| Ba 233.527           | 2374.7               | 0.0366     | 0.00015  | mg/L        |            |          |              | 0.40%   |
| Be 313.107           | -5479.0              | 0.0000     | 0.00002  | mg/L        |            |          |              | 83.06%  |
| Ca 315.887           | 1770583.1            | 22.23      | 0.044    | mg/L        |            |          |              | 0.20%   |
| Cd 226.502           | 281.7                | 0.0002     | 0.00008  | mg/L        |            |          |              | 47.86%  |
| Co 228.616           | -664.4               | 0.0017     | 0.00031  | mg/L        |            |          |              | 17.70%  |
| Cr 267.716           | -444.7               | 0.0012     | 0.00002  | mg/L        |            |          |              | 1.74%   |
| Cu 324.754           | 2211.7               | 0.0031     | 0.00013  | mg/L        |            |          |              | 4.32%   |
| Fe 238.863           | 2419.0               | 0.1995     | 0.00021  | mg/L        |            |          |              | 0.10%   |
| <del>K 404.721</del> | 13100.7              | 10.19      | 0.231    | mg/L        |            |          |              | 2.27%   |
| Mg 279.079           | 60754.3              | 4.645      | 0.0110   | mg/L        |            |          |              | 0.24%   |
| Mn 257.610           | 2596238.7            | 7.439      | 0.0152   | mg/L        |            |          |              | 0.20%   |
| Mo 202.030           | -1.9                 | -0.0009    | 0.00063  | mg/L        |            |          |              | 68.15%  |
| Na 330.237           | 14252.0              | 23.41      | 0.127    | mg/L        |            |          |              | 0.54%   |
| Ni 231.604           | 204.3                | 0.0034     | 0.00029  | mg/L        |            |          |              | 8.40%   |
| Pb 220.353           | 166.0                | 0.0006     | 0.00008  | mg/L        |            |          |              | 14.35%  |
| Sb 206.833           | 275.4                | -0.0035    | 0.00120  | mg/L        |            |          |              | 34.52%  |
| Se 196.026           | 64.4                 | 0.0055     | 0.00135  | mg/L        |            |          |              | 24.38%  |
| Sn 189.933           | -103.3               | 0.0209     | 0.00004  | mg/L        |            |          |              | 0.21%   |
| Ti 334.941           | 1607.9               | 0.0062     | 0.00003  | mg/L        |            |          |              | 0.53%   |
| Tl 190.800           | -67.5                | 0.0016     | 0.00385  | mg/L        |            |          |              | 240.93% |

0121

|            |        |         |              |       |
|------------|--------|---------|--------------|-------|
| V 292.402  | -378.2 | -0.0009 | 0.00003 mg/L | 3.91% |
| Zr 206.200 | -53.7  | 0.0046  | 0.00009 mg/L | 1.87% |

## Mean Data

|                       |                      |                |             |     |
|-----------------------|----------------------|----------------|-------------|-----|
| ID: 284481            | Seq. No.: 65         | Sample No.: 44 | A/S Pos: 66 |     |
| Sample Qty: 1.0000 mL | Prep. Vol.: 100.0 mL | Dilution: 1.0: | 1.0:        | 1.0 |
|                       | Data: Original       | Date: 4/27/99  | 6:19:16 PM  |     |

| Element              | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030            | 2417023.3            | 0.989      | 0.0016   | mg/L        |            |          |              | 0.17%   |
| Ag 328.068           | -1262.6              | 0.0008     | 0.00045  | mg/L        |            |          |              | 54.03%  |
| Al 308.215           | 5585.1               | 0.0585     | 0.00012  | mg/L        |            |          |              | 0.20%   |
| As 188.979           | -83.5                | -0.0026    | 0.00195  | mg/L        |            |          |              | 75.68%  |
| B 249.773            | 9881.3               | 0.2001     | 0.00213  | mg/L        |            |          |              | 1.07%   |
| Ba 233.527           | 2329.0               | 0.0360     | 0.00001  | mg/L        |            |          |              | 0.02%   |
| Be 313.107           | -5438.1              | 0.0000     | 0.00003  | mg/L        |            |          |              | 63.16%  |
| Ca 315.887           | 1756896.6            | 22.06      | 0.004    | mg/L        |            |          |              | 0.02%   |
| Cd 226.502           | 272.7                | 0.0000     | 0.00009  | mg/L        |            |          |              | >999.9% |
| Co 228.616           | -674.9               | 0.0014     | 0.00016  | mg/L        |            |          |              | 11.36%  |
| Cr 267.716           | -453.8               | 0.0011     | 0.00007  | mg/L        |            |          |              | 6.22%   |
| Cu 324.754           | 1819.9               | 0.0008     | 0.00037  | mg/L        |            |          |              | 45.98%  |
| Fe 238.863           | 1401.1               | 0.1301     | 0.00057  | mg/L        |            |          |              | 0.44%   |
| <del>K 404.721</del> | 13091.9              | 10.02      | 0.934    | mg/L        |            |          |              | 9.33%   |
| Mg 279.079           | 59842.8              | 4.577      | 0.0225   | mg/L        |            |          |              | 0.49%   |
| Mn 257.610           | 2573600.0            | 7.374      | 0.0063   | mg/L        |            |          |              | 0.09%   |
| Mo 202.030           | -2.8                 | -0.0010    | 0.00029  | mg/L        |            |          |              | 28.19%  |
| Na 330.237           | 14003.7              | 23.01      | 0.002    | mg/L        |            |          |              | 0.01%   |
| Ni 231.604           | 198.7                | 0.0032     | 0.00019  | mg/L        |            |          |              | 6.10%   |
| Pb 220.353           | 167.2                | 0.0008     | 0.00166  | mg/L        |            |          |              | 194.85% |
| Sb 206.833           | 273.6                | -0.0040    | 0.00027  | mg/L        |            |          |              | 6.75%   |
| Se 196.026           | 65.4                 | 0.0059     | 0.00218  | mg/L        |            |          |              | 37.27%  |
| Sn 189.933           | -108.1               | 0.0197     | 0.00071  | mg/L        |            |          |              | 3.61%   |
| Ti 334.941           | 597.2                | 0.0039     | 0.00001  | mg/L        |            |          |              | 0.15%   |
| Tl 190.800           | -72.0                | -0.0028    | 0.00194  | mg/L        |            |          |              | 68.26%  |
| 2.402                | -361.2               | -0.0008    | 0.00031  | mg/L        |            |          |              | 39.28%  |
| Zn 206.200           | -26.5                | 0.0051     | 0.00016  | mg/L        |            |          |              | 3.08%   |

## Mean Data

|                       |                      |                |             |     |
|-----------------------|----------------------|----------------|-------------|-----|
| ID: 284482            | Seq. No.: 66         | Sample No.: 45 | A/S Pos: 67 |     |
| Sample Qty: 1.0000 mL | Prep. Vol.: 100.0 mL | Dilution: 1.0: | 1.0:        | 1.0 |
|                       | Data: Original       | Date: 4/27/99  | 6:22:46 PM  |     |

| Element              | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030            | 2446612.8            | 1.001      | 0.0104   | mg/L        |            |          |              | 1.04%   |
| Ag 328.068           | -1272.7              | 0.0007     | 0.00014  | mg/L        |            |          |              | 18.86%  |
| Al 308.215           | 4752.9               | -0.0059    | 0.00638  | mg/L        |            |          |              | 107.42% |
| As 188.979           | -74.8                | 0.0010     | 0.00050  | mg/L        |            |          |              | 51.37%  |
| B 249.773            | 2763.0               | 0.0567     | 0.00015  | mg/L        |            |          |              | 0.26%   |
| Ba 233.527           | 167.8                | 0.0078     | 0.00010  | mg/L        |            |          |              | 1.25%   |
| Be 313.107           | -5349.0              | 0.0001     | 0.00003  | mg/L        |            |          |              | 38.02%  |
| Ca 315.887           | 808595.5             | 10.27      | 0.017    | mg/L        |            |          |              | 0.16%   |
| Cd 226.502           | 270.7                | 0.0000     | 0.00005  | mg/L        |            |          |              | 141.86% |
| Co 228.616           | -699.7               | 0.0006     | 0.00004  | mg/L        |            |          |              | 6.31%   |
| Cr 267.716           | -494.1               | 0.0007     | 0.00001  | mg/L        |            |          |              | 0.81%   |
| Cu 324.754           | 2307.9               | 0.0037     | 0.00007  | mg/L        |            |          |              | 1.93%   |
| Fe 238.863           | -23.7                | 0.0331     | 0.00025  | mg/L        |            |          |              | 0.77%   |
| <del>K 404.721</del> | 12550.9              | -4.982     | 0.9808   | mg/L        |            |          |              | 19.69%  |
| Mg 279.079           | 18421.5              | 1.506      | 0.0105   | mg/L        |            |          |              | 0.70%   |
| Mn 257.610           | 78447.3              | 0.2244     | 0.00167  | mg/L        |            |          |              | 0.75%   |
| Mo 202.030           | 5.8                  | -0.0002    | 0.00004  | mg/L        |            |          |              | 19.81%  |
| Na 330.237           | 3636.8               | 6.135      | 0.0034   | mg/L        |            |          |              | 0.06%   |
| Ni 231.604           | 145.3                | 0.0009     | 0.00036  | mg/L        |            |          |              | 39.46%  |
| Pb 220.353           | 162.6                | -0.0002    | 0.00040  | mg/L        |            |          |              | 209.34% |
| Sb 206.833           | 271.3                | -0.0047    | 0.00058  | mg/L        |            |          |              | 12.22%  |
| Se 196.026           | 56.8                 | 0.0031     | 0.00098  | mg/L        |            |          |              | 31.85%  |
| 89.933               | -159.0               | 0.0062     | 0.00002  | mg/L        |            |          |              | 0.27%   |
| Ti 334.941           | -1021.9              | 0.0001     | 0.00011  | mg/L        |            |          |              | 87.54%  |
| Tl 190.800           | -71.5                | -0.0023    | 0.00235  | mg/L        |            |          |              | 103.38% |
| V 292.402            | -248.6               | -0.0001    | 0.00004  | mg/L        |            |          |              | 59.03%  |
| Zn 206.200           | -101.7               | 0.0036     | 0.00004  | mg/L        |            |          |              | 1.00%   |

0122

## Mean Data

ID: 284483      Seq. No.: 67      Sample No.: 46      A/S Pos: 68  
 Sample Qty: 1.0000 mL      Prep. Vol.: 100.0 mL      Dilution: 1.0: 1.0  
 Data: Original      Date: 4/27/99      6:26:15 PM

| Element              | Mean Corr. Intensity | Mean Conc.        | Std.Dev.          | Calib Units     | Mean Conc. | Std.Dev. | Sample Units | RSD              |
|----------------------|----------------------|-------------------|-------------------|-----------------|------------|----------|--------------|------------------|
| Y 371.030            | 2409749.0            | 0.986             | 0.0049            | mg/L            |            |          |              | 0.50%            |
| Ag 328.068           | -1200.1              | 0.0013            | 0.00015           | mg/L            |            |          |              | 11.52%           |
| Al 308.215           | 5583.8               | 0.0584            | 0.00034           | mg/L            |            |          |              | 0.59%            |
| As 188.979           | -78.1                | -0.0004           | 0.00057           | mg/L            |            |          |              | 149.47%          |
| B 249.773            | 2383.9               | 0.0490            | 0.00017           | mg/L            |            |          |              | 0.34%            |
| Ba 233.527           | 163.6                | 0.0077            | 0.00009           | mg/L            |            |          |              | 1.13%            |
| Be 313.107           | -5464.3              | 0.0000            | 0.00001           | mg/L            |            |          |              | 42.64%           |
| Ca 315.887           | 728505.4             | 9.271             | 0.0049            | mg/L            |            |          |              | 0.05%            |
| Cd 226.502           | 269.7                | -0.0001           | 0.00020           | mg/L            |            |          |              | 394.47%          |
| Co 228.616           | -701.2               | 0.0006            | 0.00016           | mg/L            |            |          |              | 28.87%           |
| Cr 267.716           | -492.7               | 0.0007            | 0.00015           | mg/L            |            |          |              | 20.95%           |
| Cu 324.754           | 1738.6               | 0.0003            | 0.00003           | mg/L            |            |          |              | 8.54%            |
| Fe 238.863           | 2448.9               | 0.2015            | 0.00012           | mg/L            |            |          |              | 0.06%            |
| <del>K 404.721</del> | <del>12628.0</del>   | <del>-4.205</del> | <del>0.1982</del> | <del>mg/L</del> |            |          |              | <del>4.71%</del> |
| Mg 279.079           | 27479.6              | 2.178             | 0.0174            | mg/L            |            |          |              | 0.80%            |
| Mn 257.610           | 15251.7              | 0.0433            | 0.00028           | mg/L            |            |          |              | 0.66%            |
| Mo 202.030           | 8.2                  | 0.0000            | 0.00056           | mg/L            |            |          |              | >999.9%          |
| Na 330.237           | 4046.2               | 6.801             | 0.0337            | mg/L            |            |          |              | 0.50%            |
| Ni 231.604           | 161.6                | 0.0016            | 0.00047           | mg/L            |            |          |              | 29.45%           |
| Pb 220.353           | 160.9                | -0.0006           | 0.00152           | mg/L            |            |          |              | 257.52%          |
| Sb 206.833           | 274.7                | -0.0037           | 0.00084           | mg/L            |            |          |              | 22.69%           |
| Se 196.026           | 57.5                 | 0.0033            | 0.00184           | mg/L            |            |          |              | 55.82%           |
| Sn 189.933           | -137.0               | 0.0120            | 0.00055           | mg/L            |            |          |              | 4.54%            |
| Ti 334.941           | 141.0                | 0.0028            | 0.00021           | mg/L            |            |          |              | 7.46%            |
| Tl 190.800           | -72.7                | -0.0035           | 0.00104           | mg/L            |            |          |              | 29.90%           |
| V 292.402            | -221.8               | 0.0001            | 0.00004           | mg/L            |            |          |              | 42.79%           |
| Zn 206.200           | -27.3                | 0.0051            | 0.00006           | mg/L            |            |          |              | 1.14%            |

## Data

ID: CCB      Seq. No.: 68      Sample No.: 2      A/S Pos: 3  
 Sample Qty: 1.0000 g      Prep. Vol.: 1.0 L      Dilution: 1.0: 1.0  
 Data: Original      Date: 4/27/99      6:29:45 PM

| Element                                                                   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|---------------------------------------------------------------------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030                                                                 | 2308066.2            | 0.944      | 0.0062   | mg/L        |            |          |              | 0.66% |
| Ag 328.068                                                                | 58620.9              | 0.4889     | 0.00069  | mg/L        |            |          |              | 0.14% |
| Al 308.215                                                                | 128190.4             | 9.549      | 0.0064   | mg/L        |            |          |              | 0.07% |
| As 188.979                                                                | 2261.0               | 0.9586     | 0.00283  | mg/L        |            |          |              | 0.30% |
| B 249.773                                                                 | 122249.8             | 2.465      | 0.0087   | mg/L        |            |          |              | 0.35% |
| Ba 233.527                                                                | 774262.5             | 10.12      | 0.005    | mg/L        |            |          |              | 0.05% |
| Be 313.107                                                                | 633074.1             | 0.2475     | 0.00007  | mg/L        |            |          |              | 0.03% |
| Ca 315.887                                                                | 2064654.1            | 25.88      | 0.008    | mg/L        |            |          |              | 0.03% |
| Cd 226.502                                                                | 28980.1              | 0.4966     | 0.00202  | mg/L        |            |          |              | 0.41% |
| Co 228.616                                                                | 79577.6              | 2.530      | 0.0024   | mg/L        |            |          |              | 0.09% |
| Cr 267.716                                                                | 42310.3              | 0.4767     | 0.00062  | mg/L        |            |          |              | 0.13% |
| Cu 324.754                                                                | 205056.3             | 1.201      | 0.0005   | mg/L        |            |          |              | 0.04% |
| Fe 238.863                                                                | 72774.9              | 4.992      | 0.0058   | mg/L        |            |          |              | 0.12% |
| K 404.721                                                                 | 14891.8              | 18.61      | 1.459    | mg/L        |            |          |              | 7.84% |
| *QC exceeds lower limit for K 404.721 Recovery = 74.43% Action = Continue |                      |            |          |             |            |          |              |       |
| Mg 279.079                                                                | 324128.8             | 24.17      | 0.003    | mg/L        |            |          |              | 0.01% |
| Mn 257.610                                                                | 247551.8             | 0.7089     | 0.00005  | mg/L        |            |          |              | 0.01% |
| Mo 202.030                                                                | 25702.5              | 2.445      | 0.0106   | mg/L        |            |          |              | 0.43% |
| Na 330.237                                                                | 13962.2              | 22.70      | 0.007    | mg/L        |            |          |              | 0.03% |
| Ni 231.604                                                                | 46603.5              | 1.964      | 0.0003   | mg/L        |            |          |              | 0.02% |
| Pb 220.353                                                                | 2309.5               | 0.4898     | 0.00062  | mg/L        |            |          |              | 0.13% |
| Sb 206.833                                                                | 18259.2              | 5.355      | 0.0123   | mg/L        |            |          |              | 0.23% |
| Se 196.026                                                                | 1516.6               | 0.4757     | 0.00337  | mg/L        |            |          |              | 0.71% |
| Sn 189.933                                                                | 19359.6              | 5.175      | 0.0001   | mg/L        |            |          |              | 0.00% |
| Ti 334.941                                                                | 1067912.8            | 2.470      | 0.0009   | mg/L        |            |          |              | 0.04% |
| Tl 190.800                                                                | 896.0                | 1.023      | 0.0074   | mg/L        |            |          |              | 0.72% |
| V 292.402                                                                 | 387491.5             | 2.432      | 0.0012   | mg/L        |            |          |              | 0.05% |
| Zn 206.200                                                                | 47791.5              | 0.9673     | 0.00371  | mg/L        |            |          |              | 0.38% |

## Mean Data

ID: CCB      Seq. No.: 69      Sample No.: 4      A/S Pos: 0123

Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0  
 Date: Original Date: 4/27/99 6:33:09 PM

| Element                                                 | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|---------------------------------------------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030                                               | 2387099.4            | 0.977      | 0.0059   | mg/L        |            |          |              | 0.60%   |
| Ag 328.068                                              | -1303.3              | 0.0005     | 0.00049  | mg/L        |            |          |              | 99.42%  |
| Al 308.215                                              | 4770.4               | -0.0046    | 0.00061  | mg/L        |            |          |              | 13.31%  |
| As 188.979                                              | -77.5                | -0.0001    | 0.00091  | mg/L        |            |          |              | 670.41% |
| B 249.773                                               | 38.8                 | 0.0017     | 0.00237  | mg/L        |            |          |              | 136.15% |
| Ba 233.527                                              | -402.0               | 0.0003     | 0.00017  | mg/L        |            |          |              | 47.78%  |
| Be 313.107                                              | -5464.3              | 0.0000     | 0.00001  | mg/L        |            |          |              | 41.57%  |
| Ca 315.887                                              | -17427.6             | -0.0012    | 0.00009  | mg/L        |            |          |              | 7.23%   |
| Cd 226.502                                              | 271.1                | 0.0000     | 0.00010  | mg/L        |            |          |              | 390.61% |
| Co 228.616                                              | -693.3               | 0.0008     | 0.00056  | mg/L        |            |          |              | 69.11%  |
| Cr 267.716                                              | -517.5               | 0.0004     | 0.00034  | mg/L        |            |          |              | 77.37%  |
| Cu 324.754                                              | 1724.2               | 0.0002     | 0.00034  | mg/L        |            |          |              | 145.43% |
| Fe 238.863                                              | -265.9               | 0.0166     | 0.00011  | mg/L        |            |          |              | 0.65%   |
| K 404.721                                               | 12412.2              | -6.380     | 0.7664   | mg/L        |            |          |              | 12.01%  |
| *QC exceeds lower limit for K 404.721 Action = Continue |                      |            |          |             |            |          |              |         |
| Mg 279.079                                              | -1839.5              | 0.0039     | 0.00250  | mg/L        |            |          |              | 64.49%  |
| Mn 257.610                                              | 494.7                | 0.0010     | 0.00000  | mg/L        |            |          |              | 0.41%   |
| Mo 202.030                                              | 13.6                 | 0.0005     | 0.00034  | mg/L        |            |          |              | 61.05%  |
| Na 330.237                                              | -68.1                | 0.1046     | 0.08821  | mg/L        |            |          |              | 84.30%  |
| Ni 231.604                                              | 119.2                | -0.0002    | 0.00013  | mg/L        |            |          |              | 67.23%  |
| Pb 220.353                                              | 160.0                | -0.0008    | 0.00165  | mg/L        |            |          |              | 212.21% |
| Sb 206.833                                              | 280.6                | -0.0020    | 0.00154  | mg/L        |            |          |              | 78.14%  |
| Se 196.026                                              | 51.4                 | 0.0014     | 0.00029  | mg/L        |            |          |              | 21.44%  |
| Sn 189.933                                              | -182.7               | -0.0001    | 0.00275  | mg/L        |            |          |              | >999.9% |
| Ti 334.941                                              | -978.2               | 0.0002     | 0.00001  | mg/L        |            |          |              | 5.17%   |
| Tl 190.800                                              | -68.8                | 0.0003     | 0.00141  | mg/L        |            |          |              | 455.99% |
| V 292.402                                               | -219.3               | 0.0001     | 0.00016  | mg/L        |            |          |              | 140.55% |
| Zn 206.200                                              | -279.5               | 0.0000     | 0.00016  | mg/L        |            |          |              | 906.31% |

## Mean Data

285040 Seq. No.: 70 Sample No.: 47 A/S Pos: 69  
 Sample Qty: 1.0000 mL Prep. Vol.: 100.0 mL Dilution: 1.0: 1.0  
 Date: Original Date: 4/27/99 6:36:49 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2113084.9            | 0.864      | 0.0012   | mg/L        |            |          |              | 0.14%   |
| Ag 328.068 | -1575.7              | -0.0017    | 0.00020  | mg/L        |            |          |              | 11.34%  |
| Al 308.215 | 91722.8              | 6.726      | 0.0468   | mg/L        |            |          |              | 0.70%   |
| As 188.979 | -110.4               | 0.0004     | 0.00049  | mg/L        |            |          |              | 110.21% |
| B 249.773  | 6432.2               | 0.1306     | 0.00032  | mg/L        |            |          |              | 0.25%   |
| Ba 233.527 | 77360.7              | 1.016      | 0.0038   | mg/L        |            |          |              | 0.37%   |
| Be 313.107 | -5367.0              | 0.0001     | 0.00003  | mg/L        |            |          |              | 38.53%  |
| Ca 315.887 | 10372216.1           | 129.2      | 0.52     | mg/L        |            |          |              | 0.40%   |
| Cd 226.502 | 313.4                | 0.0007     | 0.00007  | mg/L        |            |          |              | 9.59%   |
| Co 228.616 | 35.1                 | 0.0238     | 0.00094  | mg/L        |            |          |              | 3.94%   |
| Cr 267.716 | 5447.0               | 0.0668     | 0.00147  | mg/L        |            |          |              | 2.21%   |
| Cu 324.754 | 9128.8               | 0.0440     | 0.00028  | mg/L        |            |          |              | 0.65%   |
| Fe 238.863 | 806421.7             | 54.96      | 0.348    | mg/L        |            |          |              | 0.63%   |
| K 404.721  | 15051.6              | 16.16      | 1.337    | mg/L        |            |          |              | 8.27%   |
| Mg 279.079 | 730459.7             | 54.30      | 0.440    | mg/L        |            |          |              | 0.81%   |
| Mn 257.610 | 284210.3             | 0.8139     | 0.00454  | mg/L        |            |          |              | 0.56%   |
| Mo 202.030 | 62.5                 | 0.0052     | 0.00050  | mg/L        |            |          |              | 9.67%   |
| Na 330.237 | 1315735.2            | 2142       | 10.0     | mg/L        |            |          |              | 0.47%   |
| Ni 231.604 | 2930.1               | 0.1185     | 0.00151  | mg/L        |            |          |              | 1.27%   |
| Pb 220.353 | 247.4                | 0.0118     | 0.00045  | mg/L        |            |          |              | 3.78%   |
| Sb 206.833 | 335.2                | 0.0142     | 0.00007  | mg/L        |            |          |              | 0.47%   |
| Se 196.026 | 94.5                 | 0.0153     | 0.00282  | mg/L        |            |          |              | 18.41%  |
| Sn 189.933 | 731.4                | 0.2420     | 0.00388  | mg/L        |            |          |              | 1.60%   |
| Ti 334.941 | 18791.4              | 0.0459     | 0.00002  | mg/L        |            |          |              | 0.04%   |
| Tl 190.800 | -87.6                | -0.0179    | 0.00045  | mg/L        |            |          |              | 2.52%   |
| V 292.402  | 2682.0               | 0.0183     | 0.00028  | mg/L        |            |          |              | 1.53%   |
| Zn 206.200 | 5500.8               | 0.1163     | 0.00203  | mg/L        |            |          |              | 1.74%   |

## Mean Data

ID: 285041 Seq. No.: 71 Sample No.: 48 A/S Pos: 70  
 Sample Qty: 1.0000 mL Prep. Vol.: 100.0 mL Dilution: 1.0: 1.0  
 Date: Original Date: 4/27/99 6:40:32 PM

| Element    | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD    |
|------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|--------|
| Ag 328.068 | 2186915.9               | 0.895         | 0.0007   | mg/L           |               |          |                 | 0.08%  |
| Al 308.215 | -1420.4                 | -0.0005       | 0.00018  | mg/L           |               |          |                 | 40.17% |
| As 188.979 | 37040.5                 | 2.493         | 0.0344   | mg/L           |               |          |                 | 1.38%  |
| B 249.773  | -91.2                   | -0.0057       | 0.00432  | mg/L           |               |          |                 | 75.13% |
| Ba 233.527 | 2467.5                  | 0.0507        | 0.00046  | mg/L           |               |          |                 | 0.91%  |
| Be 313.107 | 12292.3                 | 0.1662        | 0.00107  | mg/L           |               |          |                 | 0.64%  |
| Ca 315.887 | -5489.4                 | 0.0000        | 0.00001  | mg/L           |               |          |                 | 43.04% |
| Cd 226.502 | 5962276.4               | 74.33         | 0.180    | mg/L           |               |          |                 | 0.24%  |
| Co 228.616 | 300.8                   | 0.0005        | 0.00012  | mg/L           |               |          |                 | 23.68% |
| Cr 267.716 | -635.4                  | 0.0026        | 0.00001  | mg/L           |               |          |                 | 0.34%  |
| Cu 324.754 | 6283.1                  | 0.0761        | 0.00061  | mg/L           |               |          |                 | 0.80%  |
| Fe 238.863 | 9369.8                  | 0.0454        | 0.00041  | mg/L           |               |          |                 | 0.89%  |
| K 404.721  | 191762.7                | 13.10         | 0.136    | mg/L           |               |          |                 | 1.04%  |
| Mg 279.079 | 15778.4                 | 25.21         | 0.306    | mg/L           |               |          |                 | 1.22%  |
| Mn 257.610 | 265512.2                | 19.83         | 0.198    | mg/L           |               |          |                 | 1.00%  |
| Mo 202.030 | 515489.2                | 1.477         | 0.0007   | mg/L           |               |          |                 | 0.05%  |
| Na 330.237 | 58.6                    | 0.0048        | 0.00038  | mg/L           |               |          |                 | 7.80%  |
| Ni 231.604 | 474314.3                | 772.2         | 0.89     | mg/L           |               |          |                 | 0.12%  |
| Pb 220.353 | 2368.5                  | 0.0948        | 0.00037  | mg/L           |               |          |                 | 0.39%  |
| Sb 206.833 | 196.2                   | 0.0074        | 0.00033  | mg/L           |               |          |                 | 4.41%  |
| Se 196.026 | 315.7                   | 0.0084        | 0.00149  | mg/L           |               |          |                 | 17.65% |
| Sn 189.933 | 86.8                    | 0.0128        | 0.00019  | mg/L           |               |          |                 | 1.45%  |
| Ti 334.941 | 307.0                   | 0.1296        | 0.00033  | mg/L           |               |          |                 | 0.26%  |
| Tl 190.800 | 21344.1                 | 0.0518        | 0.00752  | mg/L           |               |          |                 | 14.52% |
| V 292.402  | -82.3                   | -0.0128       | 0.00350  | mg/L           |               |          |                 | 27.41% |
| Zn 206.200 | 666.4                   | 0.0057        | 0.00002  | mg/L           |               |          |                 | 0.41%  |
|            | 1108.2                  | 0.0279        | 0.00022  | mg/L           |               |          |                 | 0.78%  |

## Mean Data

ID: 283107

Sample Qty: 1.0000 mL

Seq. No.: 72

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 49

Dilution: 1.0: 1.0

A/S Pos: 71

Date: 4/27/99

6:44:05 PM

| Element    | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD    |
|------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|--------|
| Y 371.030  | 2335276.7               | 0.955         | 0.0063   | mg/L           |               |          |                 | 0.66%  |
| Ag 328.068 | -1550.4                 | -0.0015       | 0.00021  | mg/L           |               |          |                 | 13.73% |
| Al 308.215 | 151626.9                | 11.36         | 0.339    | mg/L           |               |          |                 | 2.98%  |
| As 188.979 | -102.7                  | 0.0045        | 0.00254  | mg/L           |               |          |                 | 55.98% |
| B 249.773  | 4952.0                  | 0.1008        | 0.00003  | mg/L           |               |          |                 | 0.03%  |
| Ba 233.527 | 10551.0                 | 0.1434        | 0.00081  | mg/L           |               |          |                 | 0.57%  |
| Be 313.107 | -6558.1                 | -0.0004       | 0.00002  | mg/L           |               |          |                 | 4.17%  |
| Ca 315.887 | 2587894.7               | 32.39         | 0.107    | mg/L           |               |          |                 | 0.33%  |
| Cd 226.502 | 310.5                   | 0.0007        | 0.00007  | mg/L           |               |          |                 | 10.48% |
| Co 228.616 | -735.7                  | -0.0005       | 0.00039  | mg/L           |               |          |                 | 75.14% |
| Cr 267.716 | 3725.6                  | 0.0476        | 0.00121  | mg/L           |               |          |                 | 2.54%  |
| Cu 324.754 | 2196.7                  | 0.0030        | 0.00020  | mg/L           |               |          |                 | 6.56%  |
| Fe 238.863 | 860345.3                | 58.64         | 0.052    | mg/L           |               |          |                 | 0.09%  |
| K 404.721  | 14022.0                 | 9.842         | 2.4304   | mg/L           |               |          |                 | 24.70% |
| Mg 279.079 | 113091.0                | 8.525         | 0.0417   | mg/L           |               |          |                 | 0.49%  |
| Mn 257.610 | 136939.5                | 0.3920        | 0.00140  | mg/L           |               |          |                 | 0.36%  |
| Mo 202.030 | 53.0                    | 0.0043        | 0.00069  | mg/L           |               |          |                 | 16.03% |
| Na 330.237 | 129818.0                | 211.5         | 1.10     | mg/L           |               |          |                 | 0.52%  |
| Ni 231.604 | 1350.4                  | 0.0518        | 0.00007  | mg/L           |               |          |                 | 0.13%  |
| Pb 220.353 | 235.6                   | 0.0087        | 0.00042  | mg/L           |               |          |                 | 4.80%  |
| Sb 206.833 | 331.1                   | 0.0130        | 0.00162  | mg/L           |               |          |                 | 12.43% |
| Se 196.026 | 71.1                    | 0.0077        | 0.00067  | mg/L           |               |          |                 | 8.67%  |
| Sn 189.933 | -47.6                   | 0.0357        | 0.00004  | mg/L           |               |          |                 | 0.11%  |
| Ti 334.941 | 205500.6                | 0.4773        | 0.07001  | mg/L           |               |          |                 | 14.67% |
| Tl 190.800 | -90.3                   | -0.0206       | 0.00202  | mg/L           |               |          |                 | 9.81%  |
| V 292.402  | 3425.9                  | 0.0230        | 0.00038  | mg/L           |               |          |                 | 1.67%  |
| Zn 206.200 | 1615.1                  | 0.0381        | 0.00031  | mg/L           |               |          |                 | 0.83%  |

## Mean Data

ID: 283107D

Sample Qty: 1.0000 mL

Seq. No.: 73

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 50

Dilution: 1.0: 1.0

A/S Pos: 72

Date: 4/27/99

6:47:31 PM

| Element | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD |
|---------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|-----|
|---------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|-----|

|            |           |         |              |        |
|------------|-----------|---------|--------------|--------|
| Y 371.030  | 2301538.6 | 0.942   | 0.0029 mg/L  | 0.31%  |
| Ag 328.068 | -1551.0   | -0.0015 | 0.00020 mg/L | 13.01% |
| Al 308.215 | 112917.1  | 8.366   | 0.0658 mg/L  | 0.79%  |
| As 188.979 | -109.2    | 0.0023  | 0.00046 mg/L | 20.02% |
| B 249.773  | 5081.0    | 0.1034  | 0.00033 mg/L | 0.31%  |
| Ba 233.527 | 10451.6   | 0.1421  | 0.00138 mg/L | 0.97%  |
| Be 313.107 | -5873.0   | -0.0001 | 0.00004 mg/L | 33.64% |
| Ca 315.887 | 2686131.9 | 33.61   | 0.033 mg/L   | 0.10%  |
| Cd 226.502 | 314.3     | 0.0007  | 0.00010 mg/L | 14.44% |
| Co 228.616 | -741.1    | -0.0007 | 0.00025 mg/L | 36.96% |
| Cr 267.716 | 3735.7    | 0.0477  | 0.00021 mg/L | 0.44%  |
| Cu 324.754 | 2616.0    | 0.0055  | 0.00005 mg/L | 0.91%  |
| Fe 238.863 | 884114.2  | 60.25   | 0.002 mg/L   | 0.00%  |
| K 404.721  | 14198.0   | 11.61   | 0.140 mg/L   | 1.20%  |
| Mg 279.079 | 115548.0  | 8.708   | 0.0531 mg/L  | 0.61%  |
| Mn 257.610 | 140185.4  | 0.4013  | 0.00251 mg/L | 0.63%  |
| Mo 202.030 | 59.6      | 0.0049  | 0.00009 mg/L | 1.92%  |
| Na 330.237 | 133683.7  | 217.8   | 1.50 mg/L    | 0.69%  |
| Ni 231.604 | 1423.5    | 0.0549  | 0.00121 mg/L | 2.20%  |
| Pb 220.353 | 239.2     | 0.0093  | 0.00049 mg/L | 5.29%  |
| Sb 206.833 | 329.0     | 0.0124  | 0.00175 mg/L | 14.11% |
| Se 196.026 | 70.8      | 0.0076  | 0.00146 mg/L | 19.16% |
| Sn 189.933 | -30.7     | 0.0401  | 0.00345 mg/L | 8.60%  |
| Ti 334.941 | 85587.7   | 0.2002  | 0.01390 mg/L | 6.94%  |
| Tl 190.800 | -88.4     | -0.0187 | 0.00191 mg/L | 10.20% |
| V 292.402  | 3079.4    | 0.0208  | 0.00017 mg/L | 0.80%  |
| Zn 206.200 | 1280.8    | 0.0314  | 0.00022 mg/L | 0.70%  |

## Mean Data

ID: 283107S

Sample Qty: 1.0000 mL

Seq. No.: 74

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 51

100.0 mL

A/S Pos: 73

Dilution:

1.0:

1.0

Date: 4/27/99

6:51:02 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030  | 2296209.8            | 0.939      | 0.0053   | mg/L        |            |          |              | 0.57% |
| Ag 328.068 | 4101.4               | 0.0445     | 0.00030  | mg/L        |            |          |              | 0.68% |
| Al 308.215 | 177232.9             | 13.34      | 0.800    | mg/L        |            |          |              | 5.99% |
| As 188.979 | -21.8                | 0.0376     | 0.00111  | mg/L        |            |          |              | 2.97% |
| B 249.773  | 50054.4              | 1.010      | 0.0145   | mg/L        |            |          |              | 1.43% |
| Ba 233.527 | 154431.1             | 2.023      | 0.0146   | mg/L        |            |          |              | 0.72% |
| Be 313.107 | 107131.7             | 0.0437     | 0.00046  | mg/L        |            |          |              | 1.06% |
| Ca 315.887 | 2693719.8            | 33.70      | 0.038    | mg/L        |            |          |              | 0.11% |
| Cd 226.502 | 2943.9               | 0.0462     | 0.00003  | mg/L        |            |          |              | 0.06% |
| Co 228.616 | 14292.8              | 0.4730     | 0.00324  | mg/L        |            |          |              | 0.69% |
| Cr 267.716 | 20219.0              | 0.2310     | 0.00155  | mg/L        |            |          |              | 0.67% |
| Cu 324.754 | 42942.4              | 0.2437     | 0.00285  | mg/L        |            |          |              | 1.17% |
| Fe 238.863 | 852250.9             | 58.08      | 0.080    | mg/L        |            |          |              | 0.14% |
| K 404.721  | 15309.0              | 22.81      | 0.643    | mg/L        |            |          |              | 2.82% |
| Mg 279.079 | 132488.8             | 9.964      | 0.0679   | mg/L        |            |          |              | 0.68% |
| Mn 257.610 | 286417.2             | 0.8203     | 0.00138  | mg/L        |            |          |              | 0.17% |
| Mo 202.030 | 4352.6               | 0.4134     | 0.00022  | mg/L        |            |          |              | 0.05% |
| Na 330.237 | 139485.1             | 226.7      | 2.19     | mg/L        |            |          |              | 0.96% |
| Ni 231.604 | 12387.1              | 0.5181     | 0.00521  | mg/L        |            |          |              | 1.01% |
| Pb 220.353 | 2258.5               | 0.4676     | 0.00093  | mg/L        |            |          |              | 0.20% |
| Sb 206.833 | 1747.2               | 0.4324     | 0.00490  | mg/L        |            |          |              | 1.13% |
| Se 196.026 | 2836.1               | 0.9029     | 0.00244  | mg/L        |            |          |              | 0.27% |
| Sn 189.933 | 17875.8              | 4.782      | 0.0299   | mg/L        |            |          |              | 0.63% |
| Ti 334.941 | 370276.6             | 0.8580     | 0.00665  | mg/L        |            |          |              | 0.78% |
| Tl 190.800 | 1833.6               | 1.869      | 0.0047   | mg/L        |            |          |              | 0.25% |
| V 292.402  | 74229.9              | 0.4672     | 0.00417  | mg/L        |            |          |              | 0.89% |
| Zn 206.200 | 24457.0              | 0.4977     | 0.00424  | mg/L        |            |          |              | 0.85% |

## Mean Data

ID: 283107SF

Sample Qty: 1.0000 mL

Seq. No.: 75

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 52

100.0 mL

A/S Pos: 74

Dilution:

1.0:

1.0

Date: 4/27/99

6:54:30 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030  | 2262409.3            | 0.926      | 0.0058   | mg/L        |            |          |              | 0.62%  |
| Ag 328.068 | -1527.8              | -0.0013    | 0.00040  | mg/L        |            |          |              | 29.67% |
| Al 308.215 | 93112.4              | 6.833      | 0.0302   | mg/L        |            |          |              | 0.44%  |

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|            |           |         |              |        |
|------------|-----------|---------|--------------|--------|
| As 188.979 | -16.3     | 0.0395  | 0.00065 mg/L | 1.65%  |
| B 249.773  | 5108.2    | 0.1039  | 0.00001 mg/L | 0.01%  |
| 33.527     | 9640.4    | 0.1315  | 0.00006 mg/L | 0.05%  |
| 313.107    | -5629.3   | 0.0000  | 0.00003 mg/L | 88.29% |
| Ca 315.887 | 2523741.8 | 31.59   | 0.077 mg/L   | 0.25%  |
| Cd 226.502 | 300.2     | 0.0005  | 0.00002 mg/L | 3.95%  |
| Co 228.616 | -724.1    | -0.0002 | 0.00012 mg/L | 79.00% |
| Cr 267.716 | 6682.0    | 0.0805  | 0.00117 mg/L | 1.45%  |
| Cu 324.754 | 3463.5    | 0.0105  | 0.00021 mg/L | 1.98%  |
| Fe 238.863 | 832675.5  | 56.75   | 0.076 mg/L   | 0.13%  |
| K 404.721  | 13685.3   | 6.449   | 2.4025 mg/L  | 37.25% |
| Mg 279.079 | 107039.8  | 8.077   | 0.0684 mg/L  | 0.85%  |
| Mn 257.610 | 133967.0  | 0.3834  | 0.00321 mg/L | 0.84%  |
| Mo 202.030 | 56.9      | 0.0047  | 0.00017 mg/L | 3.55%  |
| Na 330.237 | 123567.9  | 201.3   | 1.52 mg/L    | 0.75%  |
| Ni 231.604 | 1782.4    | 0.0701  | 0.00019 mg/L | 0.27%  |
| Pb 220.353 | 322.9     | 0.0287  | 0.00008 mg/L | 0.27%  |
| Sb 206.833 | 450.7     | 0.0484  | 0.00049 mg/L | 1.01%  |
| Se 196.026 | 98.3      | 0.0165  | 0.00166 mg/L | 10.06% |
| Sn 189.933 | -18.6     | 0.0433  | 0.00003 mg/L | 0.06%  |
| Ti 334.941 | 36780.5   | 0.0875  | 0.00171 mg/L | 1.95%  |
| Tl 190.800 | -31.3     | 0.0368  | 0.00291 mg/L | 7.91%  |
| V 292.402  | 2762.5    | 0.0188  | 0.00037 mg/L | 1.98%  |
| Zn 206.200 | 1490.3    | 0.0356  | 0.00005 mg/L | 0.15%  |

## Mean Data

ID: 283113

Sample Qty: 1.0000 mL

Seq. No.: 76

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 53

Dilution: 1.0: 1.0

A/S Pos: 75

Date: 4/27/99 6:57:58 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2379576.0            | 0.973      | 0.0145   | mg/L        |            |          |              | 1.49%   |
| Ag 328.068 | -1494.6              | -0.0011    | 0.00016  | mg/L        |            |          |              | 15.32%  |
| P 308.215  | 106954.4             | 7.905      | 0.0383   | mg/L        |            |          |              | 0.48%   |
| 188.979    | -101.4               | 0.0050     | 0.00023  | mg/L        |            |          |              | 4.67%   |
| B 249.773  | 4952.0               | 0.1008     | 0.00123  | mg/L        |            |          |              | 1.22%   |
| Ba 233.527 | 9471.3               | 0.1293     | 0.00241  | mg/L        |            |          |              | 1.86%   |
| Be 313.107 | -6303.7              | -0.0003    | 0.00000  | mg/L        |            |          |              | 1.03%   |
| Ca 315.887 | 2581486.0            | 32.31      | 0.118    | mg/L        |            |          |              | 0.37%   |
| Cd 226.502 | 282.7                | 0.0002     | 0.00017  | mg/L        |            |          |              | 96.47%  |
| Co 228.616 | -693.1               | 0.0008     | 0.00013  | mg/L        |            |          |              | 15.65%  |
| Cr 267.716 | 1544.4               | 0.0234     | 0.00031  | mg/L        |            |          |              | 1.33%   |
| Cu 324.754 | 2641.9               | 0.0057     | 0.00017  | mg/L        |            |          |              | 2.93%   |
| Fe 238.863 | 853989.3             | 58.20      | 0.266    | mg/L        |            |          |              | 0.46%   |
| K 404.721  | 12838.8              | -2.080     | 3.1188   | mg/L        |            |          |              | 149.93% |
| Mg 279.079 | 108982.9             | 8.221      | 0.0036   | mg/L        |            |          |              | 0.04%   |
| Mn 257.610 | 136956.2             | 0.3920     | 0.00209  | mg/L        |            |          |              | 0.53%   |
| Mo 202.030 | 49.9                 | 0.0040     | 0.00014  | mg/L        |            |          |              | 3.44%   |
| Na 330.237 | 125356.6             | 204.2      | 1.16     | mg/L        |            |          |              | 0.57%   |
| Ni 231.604 | 1004.8               | 0.0372     | 0.00154  | mg/L        |            |          |              | 4.13%   |
| Pb 220.353 | 220.4                | 0.0053     | 0.00123  | mg/L        |            |          |              | 23.15%  |
| Sb 206.833 | 302.2                | 0.0044     | 0.00231  | mg/L        |            |          |              | 52.31%  |
| Se 196.026 | 54.7                 | 0.0024     | 0.00185  | mg/L        |            |          |              | 77.23%  |
| Sn 189.933 | -38.2                | 0.0382     | 0.00132  | mg/L        |            |          |              | 3.45%   |
| Ti 334.941 | 139160.7             | 0.3240     | 0.01002  | mg/L        |            |          |              | 3.09%   |
| Tl 190.800 | -83.4                | -0.0138    | 0.00151  | mg/L        |            |          |              | 10.92%  |
| V 292.402  | 2837.4               | 0.0193     | 0.00005  | mg/L        |            |          |              | 0.28%   |
| Zn 206.200 | 1116.7               | 0.0281     | 0.00084  | mg/L        |            |          |              | 2.98%   |

## Mean Data

ID: 283109

Sample Qty: 1.0000 mL

Seq. No.: 77

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 54

Dilution: 1.0: 1.0

A/S Pos: 76

Date: 4/27/99 7:01:25 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| 71.030     | 2306265.6            | 0.943      | 0.0037   | mg/L        |            |          |              | 0.39%   |
| 328.068    | -1341.5              | 0.0002     | 0.00025  | mg/L        |            |          |              | 133.84% |
| Al 308.215 | 16699.7              | 0.9188     | 0.01805  | mg/L        |            |          |              | 1.96%   |
| As 188.979 | -79.1                | -0.0008    | 0.00073  | mg/L        |            |          |              | 90.56%  |
| B 249.773  | 2438.1               | 0.0501     | 0.00054  | mg/L        |            |          |              | 1.09%   |
| Ba 233.527 | 21566.6              | 0.2873     | 0.00255  | mg/L        |            |          |              | 0.89%   |

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|            |           |         |              |         |
|------------|-----------|---------|--------------|---------|
| Be 313.107 | -5061.0   | 0.0002  | 0.00000 mg/L | 0.32%   |
| Ca 315.887 | 4991090.1 | 62.26   | 0.001 mg/L   | 0.00%   |
| 226.502    | 287.4     | 0.0003  | 0.00007 mg/L | 25.36%  |
| C 228.616  | -448.6    | 0.0085  | 0.00050 mg/L | 5.90%   |
| Cr 267.716 | 909.0     | 0.0163  | 0.00042 mg/L | 2.59%   |
| Cu 324.754 | 7361.3    | 0.0335  | 0.00050 mg/L | 1.50%   |
| Fe 238.863 | 20278.3   | 1.416   | 0.0135 mg/L  | 0.95%   |
| K 404.721  | 13795.2   | 7.557   | 0.8981 mg/L  | 11.88%  |
| Mg 279.079 | 240924.1  | 18.00   | 0.145 mg/L   | 0.81%   |
| Mn 257.610 | 159797.1  | 0.4575  | 0.00422 mg/L | 0.92%   |
| Mo 202.030 | 47.6      | 0.0038  | 0.00001 mg/L | 0.14%   |
| Na 330.237 | 126097.6  | 205.5   | 1.94 mg/L    | 0.94%   |
| Ni 231.604 | 1549.8    | 0.0602  | 0.00011 mg/L | 0.18%   |
| Pb 220.353 | 173.2     | 0.0022  | 0.00019 mg/L | 8.76%   |
| Sb 206.833 | 287.1     | 0.0000  | 0.00078 mg/L | >999.9% |
| Se 196.026 | 82.0      | 0.0112  | 0.00216 mg/L | 19.25%  |
| Sn 189.933 | 259.0     | 0.1169  | 0.00278 mg/L | 2.38%   |
| Ti 334.941 | 5588.0    | 0.0154  | 0.00231 mg/L | 15.03%  |
| Tl 190.800 | -74.2     | -0.0050 | 0.00031 mg/L | 6.29%   |
| V 292.402  | 446.1     | 0.0043  | 0.00005 mg/L | 1.08%   |
| Zn 206.200 | 432.2     | 0.0143  | 0.00011 mg/L | 0.75%   |

## Mean Data

ID: 283109A

Sample Qty: 1.0000 mL

Seq. No.: 78

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 55

Dilution: 1.0: 1.0

A/S Pos: 77

Date: 4/27/99

7:04:54 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030  | 2267653.5            | 0.928      | 0.0014   | mg/L        |            |          |              | 0.15% |
| Ag 328.068 | 4451.0               | 0.0474     | 0.00014  | mg/L        |            |          |              | 0.29% |
| Al 308.215 | 69480.6              | 5.004      | 0.0688   | mg/L        |            |          |              | 1.38% |
| As 188.979 | 9.1                  | 0.0354     | 0.00002  | mg/L        |            |          |              | 0.05% |
| B 249.773  | 52279.3              | 1.055      | 0.0010   | mg/L        |            |          |              | 0.10% |
| P 233.527  | 175218.6             | 2.295      | 0.0056   | mg/L        |            |          |              | 0.24% |
| 313.107    | 117488.2             | 0.0477     | 0.00014  | mg/L        |            |          |              | 0.29% |
| Ca 315.887 | 5036348.8            | 62.82      | 0.068    | mg/L        |            |          |              | 0.11% |
| Cd 226.502 | 3079.5               | 0.0486     | 0.00005  | mg/L        |            |          |              | 0.11% |
| Co 228.616 | 15894.1              | 0.5235     | 0.00028  | mg/L        |            |          |              | 0.05% |
| Cr 267.716 | 19543.3              | 0.2235     | 0.01220  | mg/L        |            |          |              | 5.46% |
| Cu 324.754 | 51514.0              | 0.2943     | 0.00153  | mg/L        |            |          |              | 0.52% |
| Fe 238.863 | 40475.1              | 2.792      | 0.0338   | mg/L        |            |          |              | 1.21% |
| K 404.721  | 15494.1              | 24.68      | 0.941    | mg/L        |            |          |              | 3.81% |
| Mg 279.079 | 260405.3             | 19.45      | 0.012    | mg/L        |            |          |              | 0.06% |
| Mn 257.610 | 321515.2             | 0.9208     | 0.00094  | mg/L        |            |          |              | 0.10% |
| Mo 202.030 | 4899.4               | 0.4654     | 0.00123  | mg/L        |            |          |              | 0.26% |
| Na 330.237 | 138253.1             | 224.7      | 0.60     | mg/L        |            |          |              | 0.27% |
| Ni 231.604 | 13533.8              | 0.5665     | 0.00381  | mg/L        |            |          |              | 0.67% |
| Pb 220.353 | 2339.5               | 0.4935     | 0.00186  | mg/L        |            |          |              | 0.38% |
| Sb 206.833 | 1996.0               | 0.5061     | 0.00163  | mg/L        |            |          |              | 0.32% |
| Se 196.026 | 2796.1               | 0.8899     | 0.00377  | mg/L        |            |          |              | 0.42% |
| Sn 189.933 | 23165.5              | 6.182      | 0.0101   | mg/L        |            |          |              | 0.16% |
| Ti 334.941 | 258043.3             | 0.5987     | 0.01280  | mg/L        |            |          |              | 2.14% |
| Tl 190.800 | 2004.9               | 2.026      | 0.0051   | mg/L        |            |          |              | 0.25% |
| V 292.402  | 78165.6              | 0.4918     | 0.00169  | mg/L        |            |          |              | 0.34% |
| Zn 206.200 | 25928.3              | 0.5274     | 0.00064  | mg/L        |            |          |              | 0.12% |

## Mean Data

ID: 283109L

Sample Qty: 1.0000 mL

Seq. No.: 79

Prep. Vol.: 100.0 mL

Data: Original

Sample No.: 56

Dilution: 1.0: 1.0

A/S Pos: 78

Date: 4/27/99

7:08:22 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2480532.3            | 1.015      | 0.0056   | mg/L        |            |          |              | 0.55%   |
| Ag 328.068 | -1236.9              | 0.0010     | 0.00031  | mg/L        |            |          |              | 29.60%  |
| Al 308.215 | 15288.1              | 0.8095     | 0.00484  | mg/L        |            |          |              | 0.60%   |
| 188.979    | -76.6                | 0.0002     | 0.00071  | mg/L        |            |          |              | 291.61% |
| 49.773     | 878.4                | 0.0187     | 0.00084  | mg/L        |            |          |              | 4.48%   |
| Ba 233.527 | 3913.1               | 0.0567     | 0.00003  | mg/L        |            |          |              | 0.05%   |
| Be 313.107 | -5439.2              | 0.0000     | 0.00000  | mg/L        |            |          |              | 5.14%   |
| Ca 315.887 | 946664.5             | 11.98      | 0.020    | mg/L        |            |          |              | 0.16%   |
| Cd 226.502 | 257.4                | -0.0003    | 0.00014  | mg/L        |            |          |              | 52.47%  |

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|            |         |         |              |         |
|------------|---------|---------|--------------|---------|
| Co 228.616 | -606.1  | 0.0036  | 0.00010 mg/L | 2.95%   |
| Cr 267.716 | 266.1   | 0.0091  | 0.00111 mg/L | 12.10%  |
| 324.754    | 2538.6  | 0.0050  | 0.00018 mg/L | 3.47%   |
| 38.863     | 5444.2  | 0.4055  | 0.00559 mg/L | 1.38%   |
| K 404.721  | 11771.6 | -12.83  | 0.861 mg/L   | 6.71%   |
| Mg 279.079 | 44163.7 | 3.415   | 0.0258 mg/L  | 0.76%   |
| Mn 257.610 | 30645.0 | 0.0874  | 0.00101 mg/L | 1.16%   |
| Mo 202.030 | 15.8    | 0.0008  | 0.00053 mg/L | 70.66%  |
| Na 330.237 | 19408.5 | 31.81   | 0.376 mg/L   | 1.18%   |
| Ni 231.604 | 452.0   | 0.0139  | 0.00039 mg/L | 2.82%   |
| Pb 220.353 | 149.4   | -0.0032 | 0.00031 mg/L | 9.68%   |
| Sb 206.833 | 256.5   | -0.0091 | 0.00074 mg/L | 8.11%   |
| Se 196.026 | 51.3    | 0.0013  | 0.00048 mg/L | 36.98%  |
| Sn 189.933 | -89.9   | 0.0245  | 0.00136 mg/L | 5.56%   |
| Ti 334.941 | 13435.3 | 0.0335  | 0.00371 mg/L | 11.06%  |
| Tl 190.800 | -66.6   | 0.0024  | 0.00290 mg/L | 120.12% |
| V 292.402  | -37.5   | 0.0013  | 0.00009 mg/L | 7.45%   |
| Zn 206.200 | -38.2   | 0.0049  | 0.00030 mg/L | 6.18%   |

## Mean Data

ID: CCV      Seq. No.: 80      Sample No.: 8      A/S Pos: 4  
Sample Qty: 1.0000 g      Prep. Vol.: 1.0 L      Dilution: 1.0: 1.0  
Data: Original      Date: 4/27/99      7:11:52 PM

| Element                                                                   | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|---------------------------------------------------------------------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030                                                                 | 2355677.6            | 0.964      | 0.0009   | mg/L        |            |          |              | 0.09% |
| Ag 328.068                                                                | 58799.7              | 0.4903     | 0.00057  | mg/L        |            |          |              | 0.12% |
| Al 308.215                                                                | 127790.4             | 9.518      | 0.0108   | mg/L        |            |          |              | 0.11% |
| As 188.979                                                                | 2260.5               | 0.9585     | 0.00836  | mg/L        |            |          |              | 0.87% |
| B 249.773                                                                 | 122972.9             | 2.480      | 0.0118   | mg/L        |            |          |              | 0.48% |
| Ba 233.527                                                                | 770189.1             | 10.07      | 0.019    | mg/L        |            |          |              | 0.19% |
| Be 313.107                                                                | 631127.2             | 0.2467     | 0.00003  | mg/L        |            |          |              | 0.01% |
| Ca 315.887                                                                | 2049429.4            | 25.69      | 0.052    | mg/L        |            |          |              | 0.20% |
| Cd 226.502                                                                | 28965.2              | 0.4964     | 0.00081  | mg/L        |            |          |              | 0.16% |
| 28.616                                                                    | 79242.7              | 2.520      | 0.0035   | mg/L        |            |          |              | 0.14% |
| 267.716                                                                   | 42203.5              | 0.4755     | 0.00038  | mg/L        |            |          |              | 0.08% |
| Cu 324.754                                                                | 205552.1             | 1.204      | 0.0003   | mg/L        |            |          |              | 0.02% |
| Fe 238.863                                                                | 72314.3              | 4.960      | 0.0004   | mg/L        |            |          |              | 0.01% |
| K 404.721                                                                 | 14284.0              | 12.48      | 0.237    | mg/L        |            |          |              | 1.90% |
| *QC exceeds lower limit for K 404.721 Recovery = 49.93% Action = Continue |                      |            |          |             |            |          |              |       |
| Mg 279.079                                                                | 321514.7             | 23.98      | 0.052    | mg/L        |            |          |              | 0.22% |
| Mn 257.610                                                                | 245265.1             | 0.7023     | 0.00051  | mg/L        |            |          |              | 0.07% |
| Mo 202.030                                                                | 25693.1              | 2.444      | 0.0049   | mg/L        |            |          |              | 0.20% |
| Na 330.237                                                                | 13906.3              | 22.62      | 0.121    | mg/L        |            |          |              | 0.54% |
| Ni 231.604                                                                | 46617.0              | 1.964      | 0.0000   | mg/L        |            |          |              | 0.00% |
| Pb 220.353                                                                | 2300.6               | 0.4878     | 0.00136  | mg/L        |            |          |              | 0.28% |
| Sb 206.833                                                                | 18210.9              | 5.341      | 0.0264   | mg/L        |            |          |              | 0.50% |
| Se 196.026                                                                | 1502.2               | 0.4710     | 0.00192  | mg/L        |            |          |              | 0.41% |
| Sn 189.933                                                                | 19230.6              | 5.140      | 0.0175   | mg/L        |            |          |              | 0.34% |
| Ti 334.941                                                                | 1061549.3            | 2.455      | 0.0032   | mg/L        |            |          |              | 0.13% |
| Tl 190.800                                                                | 887.1                | 1.015      | 0.0070   | mg/L        |            |          |              | 0.69% |
| V 292.402                                                                 | 386794.3             | 2.428      | 0.0005   | mg/L        |            |          |              | 0.02% |
| Zn 206.200                                                                | 47365.0              | 0.9587     | 0.00231  | mg/L        |            |          |              | 0.24% |

## Mean Data

ID: CCB      Seq. No.: 81      Sample No.: 9      A/S Pos: 5  
Sample Qty: 1.0000 g      Prep. Vol.: 1.0 L      Dilution: 1.0: 1.0  
Data: Original      Date: 4/27/99      7:15:18 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2448688.9            | 1.002      | 0.0107   | mg/L        |            |          |              | 1.07%   |
| Ag 328.068 | -1277.2              | 0.0007     | 0.00048  | mg/L        |            |          |              | 67.37%  |
| Al 308.215 | 4739.9               | -0.0069    | 0.00816  | mg/L        |            |          |              | 117.42% |
| As 188.979 | -72.1                | 0.0021     | 0.00011  | mg/L        |            |          |              | 5.43%   |
| B 249.773  | 129.2                | 0.0036     | 0.00214  | mg/L        |            |          |              | 60.09%  |
| P 233.527  | -383.6               | 0.0006     | 0.00011  | mg/L        |            |          |              | 19.48%  |
| 13.107     | -5375.9              | 0.0001     | 0.00004  | mg/L        |            |          |              | 64.70%  |
| Ca 315.887 | -16525.6             | 0.0100     | 0.00060  | mg/L        |            |          |              | 5.97%   |
| Cd 226.502 | 259.5                | -0.0002    | 0.00003  | mg/L        |            |          |              | 14.87%  |
| Co 228.616 | -685.5               | 0.0011     | 0.00028  | mg/L        |            |          |              | 26.67%  |
| Cr 267.716 | -508.5               | 0.0005     | 0.00013  | mg/L        |            |          |              | 24.48%  |

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|                                                     |         |         |              |         |
|-----------------------------------------------------|---------|---------|--------------|---------|
| Cu 324.754                                          | 1680.1  | 0.0000  | 0.00049 mg/L | >999.9% |
| Fe 238.863                                          | -213.6  | 0.0202  | 0.00076 mg/L | 3.76%   |
| K 404.721                                           | 11972.2 | -10.81  | 1.700 mg/L   | 15.72%  |
| exceeds lower limit for K 404.721 Action = Continue |         |         |              |         |
| Mg 279.079                                          | -1759.0 | 0.0098  | 0.00118 mg/L | 11.96%  |
| Mn 257.610                                          | 406.2   | 0.0008  | 0.00004 mg/L | 5.41%   |
| Mo 202.030                                          | 15.3    | 0.0007  | 0.00030 mg/L | 41.81%  |
| Na 330.237                                          | -92.1   | 0.0655  | 0.02456 mg/L | 37.51%  |
| Ni 231.604                                          | 109.4   | -0.0006 | 0.00016 mg/L | 26.56%  |
| Pb 220.353                                          | 154.2   | -0.0021 | 0.00042 mg/L | 19.70%  |
| Sb 206.833                                          | 268.3   | -0.0056 | 0.00078 mg/L | 13.89%  |
| Se 196.026                                          | 50.5    | 0.0010  | 0.00146 mg/L | 140.40% |
| Sn 189.933                                          | -175.1  | 0.0019  | 0.00288 mg/L | 149.65% |
| Ti 334.941                                          | -975.8  | 0.0002  | 0.00011 mg/L | 46.74%  |
| Tl 190.800                                          | -63.7   | 0.0053  | 0.00224 mg/L | 42.54%  |
| V 292.402                                           | -206.9  | 0.0002  | 0.00006 mg/L | 29.93%  |
| Zn 206.200                                          | -263.8  | 0.0003  | 0.00030 mg/L | 89.29%  |

## Mean Data

ID: 283110

Sample Qty: 1.0000 mL

Seq. No.: 82

Sample No.: 57

A/S Pos: 79

Prep. Vol.: 100.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 4/27/99

7:18:45 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2508985.0            | 1.026      | 0.0023   | mg/L        |            |          |              | 0.22%   |
| Ag 328.068 | -1281.2              | 0.0007     | 0.00016  | mg/L        |            |          |              | 23.13%  |
| Al 308.215 | 4540.6               | -0.0224    | 0.00160  | mg/L        |            |          |              | 7.13%   |
| As 188.979 | -77.5                | -0.0001    | 0.00017  | mg/L        |            |          |              | 121.29% |
| B 249.773  | 547.5                | 0.0120     | 0.00048  | mg/L        |            |          |              | 3.97%   |
| Ba 233.527 | -461.2               | -0.0004    | 0.00000  | mg/L        |            |          |              | 0.45%   |
| Be 313.107 | -5277.5              | 0.0001     | 0.00001  | mg/L        |            |          |              | 6.24%   |
| Ca 315.887 | -8498.0              | 0.1098     | 0.00007  | mg/L        |            |          |              | 0.07%   |
| Cd 226.502 | 261.9                | -0.0002    | 0.00009  | mg/L        |            |          |              | 50.93%  |
| Cr 228.616 | -684.3               | 0.0011     | 0.00004  | mg/L        |            |          |              | 3.49%   |
| Cu 324.754 | -486.5               | 0.0008     | 0.00005  | mg/L        |            |          |              | 6.41%   |
| Fe 238.863 | 1657.6               | -0.0002    | 0.00004  | mg/L        |            |          |              | 25.89%  |
| K 404.721  | -536.1               | -0.0018    | 0.00030  | mg/L        |            |          |              | 16.47%  |
| Mg 279.079 | 11828.0              | -12.27     | 0.585    | mg/L        |            |          |              | 4.77%   |
| Mn 257.610 | -1713.4              | 0.0132     | 0.00184  | mg/L        |            |          |              | 13.90%  |
| Mo 202.030 | 8.2                  | -0.0004    | 0.00004  | mg/L        |            |          |              | 9.27%   |
| Na 330.237 | 9.7                  | 0.0002     | 0.00003  | mg/L        |            |          |              | 19.42%  |
| Ni 231.604 | 6.0                  | 0.2253     | 0.11482  | mg/L        |            |          |              | 50.96%  |
| Pb 220.353 | 105.3                | -0.0008    | 0.00025  | mg/L        |            |          |              | 32.01%  |
| Sb 206.833 | 153.7                | -0.0022    | 0.00076  | mg/L        |            |          |              | 34.06%  |
| Se 196.026 | 269.5                | -0.0053    | 0.00076  | mg/L        |            |          |              | 14.48%  |
| Sn 189.933 | 51.5                 | 0.0014     | 0.00149  | mg/L        |            |          |              | 107.67% |
| Ti 334.941 | -212.4               | -0.0080    | 0.00018  | mg/L        |            |          |              | 2.20%   |
| Tl 190.800 | -1040.7              | 0.0001     | 0.00009  | mg/L        |            |          |              | 108.74% |
| V 292.402  | -69.1                | 0.0000     | 0.00194  | mg/L        |            |          |              | >999.9% |
| Zn 206.200 | -244.1               | 0.0000     | 0.00009  | mg/L        |            |          |              | 195.36% |
|            | 312.9                | 0.0119     | 0.00022  | mg/L        |            |          |              | 1.88%   |

## Mean Data

ID: CRI

Sample Qty: 1.0000 g

Seq. No.: 83

Sample No.: 5

A/S Pos: 6

Prep. Vol.: 1.0 L

Dilution:

1.0:

1.0

Data: Original

Date: 4/27/99

7:22:12 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2381488.0            | 0.974      | 0.0112   | mg/L        |            |          |              | 1.15%   |
| Ag 328.068 | 1176.2               | 0.0207     | 0.00011  | mg/L        |            |          |              | 0.52%   |
| Al 308.215 | 4834.5               | 0.0004     | 0.00812  | mg/L        |            |          |              | >999.9% |
| As 188.979 | -34.2                | 0.0176     | 0.00161  | mg/L        |            |          |              | 9.13%   |
| B 249.773  | -399.0               | -0.0071    | 0.00036  | mg/L        |            |          |              | 5.04%   |
| Ba 233.527 | -469.8               | -0.0005    | 0.00007  | mg/L        |            |          |              | 13.44%  |
| Be 313.107 | 20506.9              | 0.0101     | 0.00007  | mg/L        |            |          |              | 0.69%   |
| Ca 315.887 | -15767.0             | 0.0195     | 0.00415  | mg/L        |            |          |              | 21.32%  |
| Cd 226.502 | 874.9                | 0.0104     | 0.00018  | mg/L        |            |          |              | 1.77%   |
| Co 228.616 | 2709.8               | 0.1080     | 0.00070  | mg/L        |            |          |              | 0.65%   |
| Cr 267.716 | 1272.6               | 0.0203     | 0.00013  | mg/L        |            |          |              | 0.66%   |
| Cu 324.754 | 9615.9               | 0.0468     | 0.00058  | mg/L        |            |          |              | 1.24%   |
| Fe 238.863 | -281.0               | 0.0156     | 0.00035  | mg/L        |            |          |              | 2.25%   |

0130

|            |         |         |              |         |
|------------|---------|---------|--------------|---------|
| K 404.721  | 12366.2 | -6.843  | 1.8732 mg/L  | 27.37%  |
| Mg 279.079 | -1833.2 | 0.0043  | 0.00200 mg/L | 46.09%  |
| 257.610    | 10859.4 | 0.0307  | 0.00044 mg/L | 1.42%   |
| 202.030    | 10.3    | 0.0002  | 0.00008 mg/L | 32.86%  |
| Na 330.237 | -41.5   | 0.1479  | 0.02916 mg/L | 19.72%  |
| Ni 231.604 | 2156.5  | 0.0859  | 0.00155 mg/L | 1.81%   |
| Pb 220.353 | 189.3   | 0.0059  | 0.00069 mg/L | 11.83%  |
| Sb 206.833 | 695.1   | 0.1208  | 0.00342 mg/L | 2.83%   |
| Se 196.026 | 90.1    | 0.0139  | 0.00270 mg/L | 19.49%  |
| Sn 189.933 | -204.2  | -0.0058 | 0.00059 mg/L | 10.17%  |
| Ti 334.941 | -1065.0 | 0.0000  | 0.00019 mg/L | 854.05% |
| Tl 190.800 | -51.2   | 0.0174  | 0.00147 mg/L | 8.46%   |
| V 292.402  | 15780.0 | 0.1005  | 0.00128 mg/L | 1.28%   |
| Zn 206.200 | 1735.4  | 0.0406  | 0.00033 mg/L | 0.82%   |

## Mean Data

|                      |                   |                |            |
|----------------------|-------------------|----------------|------------|
| ID: ICSA             | Seq. No.: 84      | Sample No.: 6  | A/S Pos: 7 |
| Sample Qty: 1.0000 g | Prep. Vol.: 1.0 L | Dilution: 1.0: | 1.0        |
|                      | Data: Original    | Date: 4/27/99  | 7:26:02 PM |

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 1999422.1            | 0.818      | 0.0014   | mg/L        |            |          |              | 0.17%   |
| Ag 328.068 | -2051.6              | -0.0056    | 0.00027  | mg/L        |            |          |              | 4.83%   |
| Al 308.215 | 6608809.5            | 510.9      | 0.53     | mg/L        |            |          |              | 0.10%   |
| As 188.979 | -317.8               | 0.0049     | 0.00041  | mg/L        |            |          |              | 8.53%   |
| B 249.773  | 9396.5               | 0.1904     | 0.00270  | mg/L        |            |          |              | 1.42%   |
| Ba 233.527 | -764.3               | -0.0044    | 0.00008  | mg/L        |            |          |              | 1.78%   |
| Be 313.107 | -6610.6              | -0.0004    | 0.00001  | mg/L        |            |          |              | 3.20%   |
| Ca 315.887 | 37745263.9           | 469.4      | 2.00     | mg/L        |            |          |              | 0.43%   |
| Cd 226.502 | 800.0                | -0.0026    | 0.00015  | mg/L        |            |          |              | 5.69%   |
| Co 228.616 | -902.4               | -0.0058    | 0.00031  | mg/L        |            |          |              | 5.44%   |
| Cr 267.716 | -1489.2              | 0.0048     | 0.00001  | mg/L        |            |          |              | 0.13%   |
| Cu 324.754 | -3308.4              | -0.0048    | 0.00021  | mg/L        |            |          |              | 4.40%   |
| Fe 238.863 | 2714842.7            | 185.0      | 0.45     | mg/L        |            |          |              | 0.24%   |
| 44.721     | 15613.2              | 31.56      | 0.265    | mg/L        |            |          |              | 0.84%   |
| 279.079    | 6760836.8            | 501.4      | 1.90     | mg/L        |            |          |              | 0.38%   |
| Mn 257.610 | 2539.3               | 0.0069     | 0.00007  | mg/L        |            |          |              | 1.06%   |
| Mo 202.030 | 48.5                 | 0.0039     | 0.00004  | mg/L        |            |          |              | 0.95%   |
| Na 330.237 | 44.6                 | 0.2881     | 0.02792  | mg/L        |            |          |              | 9.69%   |
| Ni 231.604 | 294.4                | 0.0072     | 0.00061  | mg/L        |            |          |              | 8.48%   |
| Pb 220.353 | 293.7                | 0.0322     | 0.00224  | mg/L        |            |          |              | 6.95%   |
| Sb 206.833 | 966.9                | 0.0048     | 0.00016  | mg/L        |            |          |              | 3.25%   |
| Se 196.026 | 146.4                | -0.0042    | 0.01053  | mg/L        |            |          |              | 250.13% |
| Sn 189.933 | 846.4                | 0.2724     | 0.00411  | mg/L        |            |          |              | 1.51%   |
| Ti 334.941 | 105.3                | 0.0027     | 0.00006  | mg/L        |            |          |              | 2.22%   |
| Tl 190.800 | -200.6               | -0.0351    | 0.00253  | mg/L        |            |          |              | 7.21%   |
| V 292.402  | 2588.9               | 0.0177     | 0.00007  | mg/L        |            |          |              | 0.42%   |
| Zn 206.200 | 506.7                | -0.0054    | 0.00004  | mg/L        |            |          |              | 0.66%   |

## Mean Data

|                      |                   |                |            |
|----------------------|-------------------|----------------|------------|
| ID: ICSAB            | Seq. No.: 85      | Sample No.: 7  | A/S Pos: 8 |
| Sample Qty: 1.0000 g | Prep. Vol.: 1.0 L | Dilution: 1.0: | 1.0        |
|                      | Data: Original    | Date: 4/27/99  | 7:30:06 PM |

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030  | 1986869.1            | 0.813      | 0.0039   | mg/L        |            |          |              | 0.48%  |
| Ag 328.068 | 130198.4             | 1.072      | 0.0018   | mg/L        |            |          |              | 0.17%  |
| Al 308.215 | 6525004.6            | 504.4      | 0.18     | mg/L        |            |          |              | 0.04%  |
| As 188.979 | -323.1               | 0.0014     | 0.00119  | mg/L        |            |          |              | 85.84% |
| B 249.773  | 9144.2               | 0.1853     | 0.00018  | mg/L        |            |          |              | 0.10%  |
| Ba 233.527 | 40265.2              | 0.5316     | 0.00115  | mg/L        |            |          |              | 0.22%  |
| Be 313.107 | 1325233.7            | 0.5157     | 0.00007  | mg/L        |            |          |              | 0.01%  |
| Ca 315.887 | 37419186.3           | 465.4      | 0.22     | mg/L        |            |          |              | 0.05%  |
| Cd 226.502 | 57236.1              | 0.9739     | 0.00025  | mg/L        |            |          |              | 0.03%  |
| Co 228.616 | 14712.9              | 0.4862     | 0.00110  | mg/L        |            |          |              | 0.23%  |
| 267.716    | 41965.4              | 0.4879     | 0.00016  | mg/L        |            |          |              | 0.03%  |
| 324.754    | 90038.2              | 0.5463     | 0.00025  | mg/L        |            |          |              | 0.05%  |
| Fe 238.863 | 2681535.1            | 182.7      | 0.13     | mg/L        |            |          |              | 0.07%  |
| K 404.721  | 15882.8              | 34.12      | 1.868    | mg/L        |            |          |              | 5.47%  |
| Mg 279.079 | 6667691.2            | 494.5      | 0.39     | mg/L        |            |          |              | 0.08%  |
| Mn 257.610 | 173915.6             | 0.4979     | 0.00034  | mg/L        |            |          |              | 0.07%  |

C131

|    |         |         |         |         |      |        |
|----|---------|---------|---------|---------|------|--------|
| Mo | 202.030 | 58.3    | 0.0048  | 0.00010 | mg/L | 2.01%  |
| Na | 330.237 | 1013.1  | 0.9061  | 0.00681 | mg/L | 0.75%  |
| F  | 31.604  | 22664.6 | 0.9522  | 0.00213 | mg/L | 0.22%  |
| Fe | 20.353  | 4603.5  | 1.010   | 0.0039  | mg/L | 0.38%  |
| Sb | 206.833 | 973.3   | 0.0092  | 0.00369 | mg/L | 39.95% |
| Se | 196.026 | 139.2   | -0.0061 | 0.00323 | mg/L | 53.09% |
| Sn | 189.933 | 861.0   | 0.2763  | 0.00443 | mg/L | 1.60%  |
| Ti | 334.941 | 402.1   | 0.0034  | 0.00027 | mg/L | 7.81%  |
| Tl | 190.800 | -213.3  | -0.0364 | 0.00344 | mg/L | 9.46%  |
| V  | 292.402 | 82573.3 | 0.5195  | 0.00026 | mg/L | 0.05%  |
| Zn | 206.200 | 46492.4 | 0.9202  | 0.00048 | mg/L | 0.05%  |

### Mean Data

|                      |                   |                    |            |
|----------------------|-------------------|--------------------|------------|
| ID: CCV              | Seq. No.: 86      | Sample No.: 8      | A/S Pos: 4 |
| Sample Qty: 1.0000 g | Prep. Vol.: 1.0 L | Dilution: 1.0: 1.0 |            |
|                      | Data: Original    | Date: 4/27/99      | 7:33:52 PM |

| Element                                                                   | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD   |
|---------------------------------------------------------------------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|-------|
| Y 371.030                                                                 | 2352961.0               | 0.963         | 0.0031   | mg/L           |               |          |                 | 0.32% |
| Ag 328.068                                                                | 58735.7                 | 0.4898        | 0.00073  | mg/L           |               |          |                 | 0.15% |
| Al 308.215                                                                | 128584.0                | 9.579         | 0.0032   | mg/L           |               |          |                 | 0.03% |
| As 188.979                                                                | 2269.6                  | 0.9622        | 0.00974  | mg/L           |               |          |                 | 1.01% |
| B 249.773                                                                 | 121988.6                | 2.460         | 0.0121   | mg/L           |               |          |                 | 0.49% |
| Ba 233.527                                                                | 770921.5                | 10.08         | 0.010    | mg/L           |               |          |                 | 0.10% |
| Be 313.107                                                                | 631061.8                | 0.2467        | 0.00011  | mg/L           |               |          |                 | 0.05% |
| Ca 315.887                                                                | 2054100.9               | 25.75         | 0.026    | mg/L           |               |          |                 | 0.10% |
| Cd 226.502                                                                | 28946.8                 | 0.4961        | 0.00159  | mg/L           |               |          |                 | 0.32% |
| Co 228.616                                                                | 79282.4                 | 2.521         | 0.0045   | mg/L           |               |          |                 | 0.18% |
| Cr 267.716                                                                | 42106.1                 | 0.4744        | 0.00052  | mg/L           |               |          |                 | 0.11% |
| Cu 324.754                                                                | 205564.8                | 1.204         | 0.0006   | mg/L           |               |          |                 | 0.05% |
| Fe 238.863                                                                | 72897.7                 | 5.000         | 0.0032   | mg/L           |               |          |                 | 0.06% |
| K 404.721                                                                 | 14326.8                 | 12.91         | 1.201    | mg/L           |               |          |                 | 9.30% |
| *QC exceeds lower limit for K 404.721 Recovery = 51.65% Action = Continue |                         |               |          |                |               |          |                 |       |
| Mn 279.079                                                                | 322174.8                | 24.03         | 0.038    | mg/L           |               |          |                 | 0.16% |
| Mo 57.610                                                                 | 246184.2                | 0.7050        | 0.00033  | mg/L           |               |          |                 | 0.05% |
| Mo 202.030                                                                | 25607.9                 | 2.436         | 0.0066   | mg/L           |               |          |                 | 0.27% |
| Na 330.237                                                                | 14003.6                 | 22.78         | 0.105    | mg/L           |               |          |                 | 0.46% |
| Ni 231.604                                                                | 46618.5                 | 1.964         | 0.0020   | mg/L           |               |          |                 | 0.10% |
| Pb 220.353                                                                | 2309.9                  | 0.4899        | 0.00409  | mg/L           |               |          |                 | 0.83% |
| Sb 206.833                                                                | 18337.8                 | 5.378         | 0.0337   | mg/L           |               |          |                 | 0.63% |
| Se 196.026                                                                | 1510.8                  | 0.4738        | 0.00287  | mg/L           |               |          |                 | 0.61% |
| Sn 189.933                                                                | 19042.8                 | 5.091         | 0.0414   | mg/L           |               |          |                 | 0.81% |
| Ti 334.941                                                                | 1064381.7               | 2.462         | 0.0008   | mg/L           |               |          |                 | 0.03% |
| Tl 190.800                                                                | 891.2                   | 1.019         | 0.0069   | mg/L           |               |          |                 | 0.68% |
| V 292.402                                                                 | 386823.3                | 2.428         | 0.0019   | mg/L           |               |          |                 | 0.08% |
| Zn 206.200                                                                | 47290.1                 | 0.9572        | 0.00400  | mg/L           |               |          |                 | 0.42% |

### Mean Data

|                      |                   |                    |            |
|----------------------|-------------------|--------------------|------------|
| ID: CCB              | Seq. No.: 87      | Sample No.: 9      | A/S Pos: 5 |
| Sample Qty: 1.0000 g | Prep. Vol.: 1.0 L | Dilution: 1.0: 1.0 |            |
|                      | Data: Original    | Date: 4/27/99      | 7:37:18 PM |

| Element                                                 | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Sample<br>Std.Dev. | Units | RSD     |
|---------------------------------------------------------|-------------------------|---------------|----------|----------------|---------------|--------------------|-------|---------|
| Y 371.030                                               | 2423347.1               | 0.991         | 0.0039   | mg/L           |               |                    |       | 0.40%   |
| Ag 328.068                                              | -1283.9                 | 0.0007        | 0.00034  | mg/L           |               |                    |       | 52.68%  |
| Al 308.215                                              | 5192.0                  | 0.0280        | 0.00137  | mg/L           |               |                    |       | 4.90%   |
| As 188.979                                              | -75.8                   | 0.0005        | 0.00188  | mg/L           |               |                    |       | 343.51% |
| B 249.773                                               | 101.2                   | 0.0030        | 0.00226  | mg/L           |               |                    |       | 75.23%  |
| Ba 233.527                                              | -327.0                  | 0.0013        | 0.00030  | mg/L           |               |                    |       | 22.58%  |
| Be 313.107                                              | -5296.2                 | 0.0001        | 0.00000  | mg/L           |               |                    |       | 0.82%   |
| Ca 315.887                                              | -14116.7                | 0.0400        | 0.00049  | mg/L           |               |                    |       | 1.22%   |
| Cd 226.502                                              | 264.7                   | -0.0001       | 0.00006  | mg/L           |               |                    |       | 46.49%  |
| Co 228.616                                              | -688.6                  | 0.0010        | 0.00044  | mg/L           |               |                    |       | 46.16%  |
| Cr 267.716                                              | -526.8                  | 0.0003        | 0.00004  | mg/L           |               |                    |       | 12.56%  |
| Cu 324.754                                              | 1704.8                  | 0.0001        | 0.00017  | mg/L           |               |                    |       | 142.54% |
| F 38.863                                                | 20.3                    | 0.0361        | 0.00306  | mg/L           |               |                    |       | 8.47%   |
| i 4.721                                                 | 12116.8                 | -9.356        | 0.3940   | mg/L           |               |                    |       | 4.21%   |
| *QC exceeds lower limit for K 404.721 Action = Continue |                         |               |          |                |               |                    |       |         |
| Mg 279.079                                              | -1347.1                 | 0.0404        | 0.00173  | mg/L           |               |                    |       | 4.27%   |
| Mn 257.610                                              | 398.0                   | 0.0007        | 0.00005  | mg/L           |               |                    |       | 7.15%   |
| Mo 202.030                                              | 20.7                    | 0.0012        | 0.00006  | mg/L           |               |                    |       | 4.53%   |

|            |        |         |              |         |
|------------|--------|---------|--------------|---------|
| Na 330.237 | -92.3  | 0.0653  | 0.16837 mg/L | 257.96% |
| Ni 231.604 | 114.8  | -0.0004 | 0.00026 mg/L | 67.66%  |
| P 20.353   | 160.3  | -0.0007 | 0.00110 mg/L | 150.44% |
| S 106.833  | 273.9  | -0.0039 | 0.00166 mg/L | 42.10%  |
| Se 196.026 | 49.8   | 0.0008  | 0.00090 mg/L | 110.79% |
| Sn 189.933 | -172.1 | 0.0027  | 0.00114 mg/L | 42.07%  |
| Ti 334.941 | -940.9 | 0.0003  | 0.00019 mg/L | 61.67%  |
| Tl 190.800 | -68.8  | 0.0003  | 0.00242 mg/L | 830.79% |
| V 292.402  | -216.2 | 0.0001  | 0.00015 mg/L | 112.39% |
| Zn 206.200 | -264.1 | 0.0003  | 0.00001 mg/L | 3.23%   |

## Mean Data

ID: PbS 4/14

Sample Qty: 1.0000 g

Seq. No.: 88

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 58

Dilution: 1.0: 1.0

A/S Pos: 80

Date: 4/27/99

7:40:45 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030             | 2469251.3            | 1.010      | 0.0033   | mg/L        |            |          |              | 0.32%   |
| Ag 328.068            | -1292.1              | 0.0006     | 0.00006  | mg/L        |            |          |              | 11.00%  |
| Al 308.215            | 4820.2               | -0.0007    | 0.00278  | mg/L        |            |          |              | 379.91% |
| As 188.979            | -72.9                | 0.0017     | 0.00197  | mg/L        |            |          |              | 113.25% |
| B 249.773             | -333.4               | -0.0058    | 0.00046  | mg/L        |            |          |              | 8.01%   |
| Ba 233.527            | -453.1               | -0.0003    | 0.00001  | mg/L        |            |          |              | 2.20%   |
| Be 313.107            | -5314.2              | 0.0001     | 0.00001  | mg/L        |            |          |              | 5.50%   |
| Ca 315.887            | -9745.3              | 0.0943     | 0.00083  | mg/L        |            |          |              | 0.88%   |
| Cd 226.502            | 268.3                | -0.0001    | 0.00004  | mg/L        |            |          |              | 58.83%  |
| Co 228.616            | -686.9               | 0.0010     | 0.00005  | mg/L        |            |          |              | 5.25%   |
| Cr 267.716            | -383.0               | 0.0019     | 0.00003  | mg/L        |            |          |              | 1.42%   |
| <del>Cu 324.754</del> | 14494.1              | 0.0757     | 0.00064  | mg/L        |            |          |              | 0.85%   |
| <del>Fe 238.863</del> | 5140.6               | 0.3848     | 0.00009  | mg/L        |            |          |              | 0.02%   |
| <del>K 404.721</del>  | 12093.6              | -9.590     | 0.7962   | mg/L        |            |          |              | 8.30%   |
| Mg 279.079            | -1576.2              | 0.0234     | 0.00038  | mg/L        |            |          |              | 1.60%   |
| Mn 257.610            | 1246.2               | 0.0032     | 0.00003  | mg/L        |            |          |              | 0.88%   |
| Mo 202.030            | 8.7                  | 0.0001     | 0.00015  | mg/L        |            |          |              | 189.92% |
| <del>Na 330.237</del> | 38.4                 | 0.2780     | 0.01969  | mg/L        |            |          |              | 7.08%   |
| Ni 231.604            | 134.6                | 0.0005     | 0.00010  | mg/L        |            |          |              | 22.04%  |
| Pb 220.353            | 179.0                | 0.0035     | 0.00001  | mg/L        |            |          |              | 0.14%   |
| Sb 206.833            | 267.1                | -0.0059    | 0.00047  | mg/L        |            |          |              | 7.93%   |
| Se 196.026            | 56.5                 | 0.0030     | 0.00081  | mg/L        |            |          |              | 27.37%  |
| Sn 189.933            | -130.0               | 0.0138     | 0.00024  | mg/L        |            |          |              | 1.70%   |
| Ti 334.941            | -995.5               | 0.0002     | 0.00019  | mg/L        |            |          |              | 106.08% |
| Tl 190.800            | -70.7                | -0.0016    | 0.00544  | mg/L        |            |          |              | 348.21% |
| V 292.402             | -229.2               | 0.0000     | 0.00010  | mg/L        |            |          |              | 206.62% |
| <del>Zn 206.200</del> | 457.3                | 0.0148     | 0.00006  | mg/L        |            |          |              | 0.42%   |

Pb OK require  
Pb.I detection  
Limit 0.0500mg/L

## Mean Data

ID: LCSS

Sample Qty: 1.0100 g

Seq. No.: 89

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 59

Dilution: 1.0: 1.0

A/S Pos: 81

Date: 4/27/99

7:44:17 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030             | 2463328.3            | 1.008      | 0.0032   | mg/L        |            |          |              | 0.32%  |
| Ag 328.068            | 31243.5              | 0.2657     | 0.00015  | mg/L        |            |          |              | 0.05%  |
| Al 308.215            | 308418.5             | 23.50      | 0.029    | mg/L        |            |          |              | 0.12%  |
| As 188.979            | 1795.0               | 0.7777     | 0.00072  | mg/L        |            |          |              | 0.09%  |
| B 249.773             | 25314.7              | 0.5112     | 0.00304  | mg/L        |            |          |              | 0.60%  |
| Ba 233.527            | 62480.7              | 0.8219     | 0.00166  | mg/L        |            |          |              | 0.20%  |
| Be 313.107            | 919372.7             | 0.3585     | 0.00021  | mg/L        |            |          |              | 0.06%  |
| Ca 315.887            | 475017.3             | 6.120      | 0.0087   | mg/L        |            |          |              | 0.14%  |
| Cd 226.502            | 32169.3              | 0.5518     | 0.00176  | mg/L        |            |          |              | 0.32%  |
| Co 228.616            | 10304.2              | 0.3473     | 0.00080  | mg/L        |            |          |              | 0.23%  |
| Cr 267.716            | 71488.8              | 0.8012     | 0.00112  | mg/L        |            |          |              | 0.14%  |
| <del>Cu 324.754</del> | 85844.0              | 0.4971     | 0.00076  | mg/L        |            |          |              | 0.15%  |
| <del>Fe 238.863</del> | 578749.9             | 39.45      | 0.045    | mg/L        |            |          |              | 0.11%  |
| <del>K 404.721</del>  | 13256.6              | 2.130      | 1.5670   | mg/L        |            |          |              | 73.58% |
| Mg 279.079            | 72996.1              | 5.553      | 0.0144   | mg/L        |            |          |              | 0.26%  |
| Mn 257.610            | 414564.5             | 1.187      | 0.0007   | mg/L        |            |          |              | 0.06%  |
| Mo 202.030            | 5100.8               | 0.4846     | 0.00121  | mg/L        |            |          |              | 0.25%  |
| <del>Na 330.237</del> | 4526.1               | 6.634      | 0.0301   | mg/L        |            |          |              | 0.45%  |
| Ni 231.604            | 7560.1               | 0.3141     | 0.00192  | mg/L        |            |          |              | 0.61%  |
| Pb 220.353            | 1619.9               | 0.3252     | 0.00191  | mg/L        |            |          |              | 0.59%  |

0133

|                       |          |        |              |       |
|-----------------------|----------|--------|--------------|-------|
| Sb 206.833            | 735.3    | 0.1327 | 0.00108 mg/L | 0.81% |
| Se 196.026            | 1812.6   | 0.5715 | 0.00235 mg/L | 0.41% |
| 89.933                | 3099.5   | 0.8690 | 0.00599 mg/L | 0.69% |
| 334.941               | 518687.2 | 1.201  | 0.0007 mg/L  | 0.05% |
| Tl 190.800            | 338.0    | 0.4096 | 0.00077 mg/L | 0.19% |
| V 292.402             | 67598.0  | 0.4256 | 0.00024 mg/L | 0.06% |
| <del>Zn 206.200</del> | 46002.4  | 0.9313 | 0.00611 mg/L | 0.66% |

## Mean Data

ID: 283549

Sample Qty: 1.0500 g

Seq. No.: 90

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 60

200.0 mL

A/S Pos: 82

Dilution:

Date: 4/27/99

1.0:

1.0

7:48:09 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030             | 2255892.3            | 0.923      | 0.0027   | mg/L        |            |          |              | 0.29%  |
| Ag 328.068            | 13365.3              | 0.1200     | 0.00045  | mg/L        |            |          |              | 0.37%  |
| Al 308.215            | 65967.0              | 3.440      | 0.0091   | mg/L        |            |          |              | 0.26%  |
| As 188.979            | -655.5               | 0.0434     | 0.00612  | mg/L        |            |          |              | 14.11% |
| B 249.773             | 66306.7              | 1.337      | 0.0044   | mg/L        |            |          |              | 0.33%  |
| Ba 233.527            | -887.6               | -0.0060    | 0.00013  | mg/L        |            |          |              | 2.17%  |
| Be 313.107            | -7010.0              | -0.0006    | 0.00001  | mg/L        |            |          |              | 2.64%  |
| Ca 315.887            | 255917.9             | 3.397      | 0.0031   | mg/L        |            |          |              | 0.09%  |
| Cd 226.502            | 318.4                | 0.0008     | 0.00008  | mg/L        |            |          |              | 10.53% |
| Co 228.616            | 2555.0               | 0.1032     | 0.00005  | mg/L        |            |          |              | 0.05%  |
| Cr 267.716            | 271971.0             | 3.031      | 0.0099   | mg/L        |            |          |              | 0.33%  |
| <del>Cu 324.754</del> | 66101926.5           | 390.6      | 0.07     | mg/L        |            |          |              | 0.02%  |
| <del>Fe 238.863</del> | 14391709.4           | 980.3      | 0.21     | mg/L        |            |          |              | 0.02%  |
| <del>K 404.721</del>  | Saturated            |            |          |             |            |          |              |        |
| Mg 279.079            | 2916.4               | 0.3565     | 0.01140  | mg/L        |            |          |              | 3.20%  |
| Mn 257.610            | 3640736.2            | 10.43      | 0.026    | mg/L        |            |          |              | 0.25%  |
| Mo 202.030            | 9155.8               | 0.8704     | 0.00528  | mg/L        |            |          |              | 0.61%  |
| <del>Na 330.237</del> | 52475.6              | 36.00      | 0.347    | mg/L        |            |          |              | 0.96%  |
| Ni 231.604            | 127084.0             | 5.363      | 0.0215   | mg/L        |            |          |              | 0.40%  |
| Pb 220.353            | 86697.7              | 19.49      | 0.088    | mg/L        |            |          |              | 0.45%  |
| Se 196.026            | 1623.0               | 0.2935     | 0.00183  | mg/L        |            |          |              | 0.62%  |
| Sn 189.933            | 155.2                | 0.0961     | 0.00179  | mg/L        |            |          |              | 1.86%  |
| Ti 334.941            | 92785.0              | 24.62      | 0.127    | mg/L        |            |          |              | 0.51%  |
| Tl 190.800            | 51474.5              | 0.1214     | 0.00013  | mg/L        |            |          |              | 0.11%  |
| V 292.402             | -193.9               | -0.0577    | 0.00273  | mg/L        |            |          |              | 4.73%  |
| <del>Zn 206.200</del> | 27974.5              | 0.1770     | 0.00056  | mg/L        |            |          |              | 0.32%  |
|                       | 2421903.9            | 48.74      | 0.147    | mg/L        |            |          |              | 0.30%  |

## Mean Data

ID: 283550

Sample Qty: 1.0200 g

Seq. No.: 91

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 61

200.0 mL

A/S Pos: 83

Dilution:

Date: 4/27/99

1.0:

1.0

7:52:11 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030             | 2430801.9            | 0.994      | 0.0003   | mg/L        |            |          |              | 0.03%  |
| Ag 328.068            | 2374.2               | 0.0305     | 0.00017  | mg/L        |            |          |              | 0.56%  |
| Al 308.215            | 183922.2             | 13.86      | 0.004    | mg/L        |            |          |              | 0.03%  |
| As 188.979            | -85.6                | -0.0035    | 0.00259  | mg/L        |            |          |              | 74.57% |
| B 249.773             | 1469.6               | 0.0306     | 0.00007  | mg/L        |            |          |              | 0.24%  |
| Ba 233.527            | 3955.5               | 0.0573     | 0.00002  | mg/L        |            |          |              | 0.04%  |
| Be 313.107            | -4946.6              | 0.0002     | 0.00001  | mg/L        |            |          |              | 4.68%  |
| Ca 315.887            | 980051.3             | 12.40      | 0.010    | mg/L        |            |          |              | 0.08%  |
| Cd 226.502            | 2518.7               | 0.0389     | 0.00007  | mg/L        |            |          |              | 0.19%  |
| Co 228.616            | -493.8               | 0.0071     | 0.00016  | mg/L        |            |          |              | 2.28%  |
| Cr 267.716            | 1736.7               | 0.0255     | 0.00010  | mg/L        |            |          |              | 0.38%  |
| <del>Cu 324.754</del> | 7567297.4            | 44.69      | 0.130    | mg/L        |            |          |              | 0.29%  |
| <del>Fe 238.863</del> | 299622.1             | 20.44      | 0.016    | mg/L        |            |          |              | 0.08%  |
| <del>K 404.721</del>  | 12395.2              | 42.47      | 0.540    | mg/L        |            |          |              | 1.27%  |
| Mg 279.079            | 71750.9              | 5.460      | 0.0035   | mg/L        |            |          |              | 0.06%  |
| Mn 257.610            | 109722.9             | 0.3140     | 0.00061  | mg/L        |            |          |              | 0.20%  |
| Mo 202.030            | 93.4                 | 0.0081     | 0.00031  | mg/L        |            |          |              | 3.84%  |
| <del>Na 330.237</del> | 34394.8              | 21.94      | 0.028    | mg/L        |            |          |              | 0.13%  |
| Ni 231.604            | 4979.6               | 0.2051     | 0.00073  | mg/L        |            |          |              | 0.36%  |
| Pb 220.353            | 34805.6              | 7.857      | 0.0040   | mg/L        |            |          |              | 0.05%  |
| Sb 206.833            | 528.1                | 0.0713     | 0.00005  | mg/L        |            |          |              | 0.07%  |
| Se 196.026            | 67.6                 | 0.0423     | 0.00066  | mg/L        |            |          |              | 1.57%  |
| Sn 189.933            | 9491.0               | 2.561      | 0.0045   | mg/L        |            |          |              | 0.18%  |

0134

|                    |           |         |              |        |
|--------------------|-----------|---------|--------------|--------|
| Ti 334.941         | 131410.6  | 0.3061  | 0.00106 mg/L | 0.35%  |
| Tl 190.800         | -83.8     | -0.0142 | 0.00188 mg/L | 13.23% |
| 2.402              | 1540.0    | 0.0111  | 0.00012 mg/L | 1.11%  |
| <del>206.200</del> | 1671857.1 | 33.65   | 0.037 mg/L   | 0.11%  |

## Mean Data

|                      |                      |                |             |
|----------------------|----------------------|----------------|-------------|
| ID: 283551           | Seq. No.: 92         | Sample No.: 62 | A/S Pos: 84 |
| Sample Qty: 1.0200 g | Prep. Vol.: 200.0 mL | Dilution: 1.0: | 1.0         |
|                      | Data: Original       | Date: 4/27/99  | 7:55:59 PM  |

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030             | 2259453.2            | 0.924      | 0.0052   | mg/L        |            |          |              | 0.57%  |
| Ag 328.068            | 11266.6              | 0.1029     | 0.00004  | mg/L        |            |          |              | 0.04%  |
| Al 308.215            | 14099.6              | 0.4666     | 0.00289  | mg/L        |            |          |              | 0.62%  |
| As 188.979            | -166.5               | 0.0121     | 0.00248  | mg/L        |            |          |              | 20.44% |
| B 249.773             | 10458.9              | 0.2118     | 0.00022  | mg/L        |            |          |              | 0.11%  |
| Ba 233.527            | -327.8               | 0.0013     | 0.00017  | mg/L        |            |          |              | 13.17% |
| Be 313.107            | -6440.5              | -0.0003    | 0.00004  | mg/L        |            |          |              | 11.85% |
| Ca 315.887            | 136747.8             | 1.915      | 0.0015   | mg/L        |            |          |              | 0.08%  |
| Cd 226.502            | 3113.9               | 0.0492     | 0.00021  | mg/L        |            |          |              | 0.42%  |
| Co 228.616            | 606.3                | 0.0418     | 0.00008  | mg/L        |            |          |              | 0.19%  |
| Cr 267.716            | 19993.2              | 0.2285     | 0.00064  | mg/L        |            |          |              | 0.28%  |
| <del>Cu 324.754</del> | Saturated            |            |          |             |            |          |              |        |
| <del>Fe 238.863</del> | 2794993.8            | 190.4      | 0.15     | mg/L        |            |          |              | 0.08%  |
| <del>K 404.721</del>  | 12892.2              | 289.3      | 1.55     | mg/L        |            |          |              | 0.54%  |
| Mg 279.079            | 261.8                | 0.1597     | 0.00295  | mg/L        |            |          |              | 1.85%  |
| Mn 257.610            | 533724.3             | 1.529      | 0.0003   | mg/L        |            |          |              | 0.02%  |
| Mo 202.030            | 907.7                | 0.0856     | 0.00036  | mg/L        |            |          |              | 0.43%  |
| <del>Na 330.237</del> | 426443.5             | 486.3      | 0.04     | mg/L        |            |          |              | 0.01%  |
| Ni 231.604            | 54670.2              | 2.304      | 0.0015   | mg/L        |            |          |              | 0.07%  |
| Pb 220.353            | 164821.9             | 37.32      | 0.001    | mg/L        |            |          |              | 0.00%  |
| Sb 206.833            | 1651.5               | 0.3844     | 0.00325  | mg/L        |            |          |              | 0.85%  |
| Se 196.026            | 96.1                 | 0.2504     | 0.00301  | mg/L        |            |          |              | 1.20%  |
| Sn 189.933            | 21239.8              | 5.672      | 0.0357   | mg/L        |            |          |              | 0.63%  |
| 34.941                | 11637.5              | 0.0294     | 0.00091  | mg/L        |            |          |              | 3.09%  |
| Tl 190.800            | -135.7               | -0.0524    | 0.00204  | mg/L        |            |          |              | 3.90%  |
| V 292.402             | -3060.1              | -0.0177    | 0.00011  | mg/L        |            |          |              | 0.63%  |
| <del>Zn 206.200</del> | 10152378.4           | 204.3      | 0.96     | mg/L        |            |          |              | 0.47%  |

## Mean Data

|                      |                      |                |             |
|----------------------|----------------------|----------------|-------------|
| ID: 283552           | Seq. No.: 93         | Sample No.: 63 | A/S Pos: 85 |
| Sample Qty: 1.0500 g | Prep. Vol.: 200.0 mL | Dilution: 1.0: | 1.0         |
|                      | Data: Original       | Date: 4/27/99  | 7:59:37 PM  |

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030             | 2330647.3            | 0.953      | 0.0013   | mg/L        |            |          |              | 0.14%  |
| Ag 328.068            | -977.4               | 0.0032     | 0.00073  | mg/L        |            |          |              | 23.24% |
| Al 308.215            | 263298.9             | 20.01      | 0.020    | mg/L        |            |          |              | 0.10%  |
| As 188.979            | -78.9                | -0.0007    | 0.00016  | mg/L        |            |          |              | 21.84% |
| B 249.773             | 1944.1               | 0.0401     | 0.00024  | mg/L        |            |          |              | 0.59%  |
| Ba 233.527            | 5964.4               | 0.0835     | 0.00015  | mg/L        |            |          |              | 0.18%  |
| Be 313.107            | -4651.7              | 0.0003     | 0.00001  | mg/L        |            |          |              | 3.05%  |
| Ca 315.887            | 2396538.3            | 30.01      | 0.024    | mg/L        |            |          |              | 0.08%  |
| Cd 226.502            | 9216.2               | 0.1547     | 0.00014  | mg/L        |            |          |              | 0.09%  |
| Co 228.616            | -401.0               | 0.0100     | 0.00014  | mg/L        |            |          |              | 1.45%  |
| Cr 267.716            | 1075.3               | 0.0181     | 0.00010  | mg/L        |            |          |              | 0.56%  |
| <del>Cu 324.754</del> | 1728675.6            | 10.20      | 0.130    | mg/L        |            |          |              | 1.27%  |
| <del>Fe 238.863</del> | 288536.0             | 19.69      | 0.023    | mg/L        |            |          |              | 0.12%  |
| <del>K 404.721</del>  | 12840.9              | 61.98      | 0.048    | mg/L        |            |          |              | 0.08%  |
| Mg 279.079            | 94894.9              | 7.176      | 0.0084   | mg/L        |            |          |              | 0.12%  |
| Mn 257.610            | 102319.4             | 0.2928     | 0.00038  | mg/L        |            |          |              | 0.13%  |
| Mo 202.030            | 66.8                 | 0.0056     | 0.00003  | mg/L        |            |          |              | 0.61%  |
| <del>Na 330.237</del> | 48581.9              | 33.80      | 0.415    | mg/L        |            |          |              | 1.23%  |
| Ni 231.604            | 3115.0               | 0.1264     | 0.00019  | mg/L        |            |          |              | 0.15%  |
| Pb 220.353            | 35743.5              | 8.070      | 0.0063   | mg/L        |            |          |              | 0.08%  |
| Sb 206.833            | 479.2                | 0.0569     | 0.00039  | mg/L        |            |          |              | 0.69%  |
| Se 196.026            | 70.7                 | 0.0550     | 0.00093  | mg/L        |            |          |              | 1.69%  |
| Sn 189.933            | 2567.4               | 0.7281     | 0.00450  | mg/L        |            |          |              | 0.62%  |
| Ti 334.941            | 132399.6             | 0.3084     | 0.00051  | mg/L        |            |          |              | 0.17%  |
| Tl 190.800            | -90.8                | -0.0210    | 0.00084  | mg/L        |            |          |              | 4.01%  |
| V 292.402             | 2092.5               | 0.0146     | 0.00007  | mg/L        |            |          |              | 0.45%  |

0135

~~Sn 206.200~~ 2219797.2 44.67 0.104 mg/L 0.23%

## Data

ID: 283553 Seq. No.: 94 Sample No.: 64 A/S Pos: 86  
 Sample Qty: 1.0500 g Prep. Vol.: 200.0 mL Dilution: 1.0: 1.0  
 Date: 4/27/99 8:03:32 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030             | 2322224.4            | 0.950      | 0.0047   | mg/L        |            |          |              | 0.49% |
| Ag 328.068            | 4571.5               | 0.0484     | 0.00063  | mg/L        |            |          |              | 1.31% |
| Al 308.215            | 428124.8             | 32.65      | 0.001    | mg/L        |            |          |              | 0.00% |
| As 188.979            | -23.1                | 0.0451     | 0.00066  | mg/L        |            |          |              | 1.46% |
| B 249.773             | 482563.5             | 9.727      | 0.0344   | mg/L        |            |          |              | 0.35% |
| Ba 233.527            | 29373.6              | 0.3893     | 0.00179  | mg/L        |            |          |              | 0.46% |
| Be 313.107            | 4140.9               | 0.0038     | 0.00004  | mg/L        |            |          |              | 1.18% |
| Ca 315.887            | 5939059.2            | 74.04      | 0.100    | mg/L        |            |          |              | 0.14% |
| Cd 226.502            | 3747.6               | 0.0601     | 0.00050  | mg/L        |            |          |              | 0.84% |
| Co 228.616            | 3132.0               | 0.1213     | 0.00026  | mg/L        |            |          |              | 0.21% |
| Cr 267.716            | 14008.0              | 0.1620     | 0.00154  | mg/L        |            |          |              | 0.95% |
| <del>Cu 324.754</del> | 38578958.7           | 227.9      | 1.95     | mg/L        |            |          |              | 0.86% |
| <del>Fe 238.863</del> | 1312615.8            | 89.44      | 0.179    | mg/L        |            |          |              | 0.20% |
| <del>K 404.721</del>  | 13414.3              | 57.67      | 1.681    | mg/L        |            |          |              | 2.92% |
| Mg 279.079            | 131591.3             | 9.897      | 0.0643   | mg/L        |            |          |              | 0.65% |
| Mn 257.610            | 748138.9             | 2.143      | 0.0026   | mg/L        |            |          |              | 0.12% |
| Mo 202.030            | 687.1                | 0.0646     | 0.00064  | mg/L        |            |          |              | 1.00% |
| <del>Na 330.237</del> | 38943.2              | 27.90      | 0.089    | mg/L        |            |          |              | 0.32% |
| Ni 231.604            | 44571.8              | 1.878      | 0.0117   | mg/L        |            |          |              | 0.62% |
| Pb 220.353            | 60460.4              | 13.66      | 0.079    | mg/L        |            |          |              | 0.58% |
| Sb 206.833            | 777.2                | 0.1338     | 0.00177  | mg/L        |            |          |              | 1.32% |
| Se 196.026            | 75.3                 | 0.0528     | 0.00083  | mg/L        |            |          |              | 1.57% |
| Sn 189.933            | 57953.7              | 15.39      | 0.112    | mg/L        |            |          |              | 0.73% |
| Ti 334.941            | 496134.6             | 1.149      | 0.0003   | mg/L        |            |          |              | 0.02% |
| Tl 190.800            | -124.5               | -0.0401    | 0.00330  | mg/L        |            |          |              | 8.23% |
| V 292.402             | 18030.3              | 0.1146     | 0.00051  | mg/L        |            |          |              | 0.45% |
| <del>206.200</del>    | 1742390.9            | 35.06      | 0.168    | mg/L        |            |          |              | 0.48% |

## Mean Data

ID: 283554 Seq. No.: 95 Sample No.: 65 A/S Pos: 87  
 Sample Qty: 1.0300 g Prep. Vol.: 200.0 mL Dilution: 1.0: 1.0  
 Date: 4/27/99 8:07:16 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030             | 2401753.1            | 0.983      | 0.0001   | mg/L        |            |          |              | 0.01%   |
| Ag 328.068            | -1123.9              | 0.0020     | 0.00019  | mg/L        |            |          |              | 9.49%   |
| Al 308.215            | 33318.7              | 2.205      | 0.0085   | mg/L        |            |          |              | 0.38%   |
| As 188.979            | -71.7                | 0.0022     | 0.00113  | mg/L        |            |          |              | 50.75%  |
| B 249.773             | 3039.7               | 0.0622     | 0.00922  | mg/L        |            |          |              | 14.81%  |
| Ba 233.527            | 578.5                | 0.0132     | 0.00015  | mg/L        |            |          |              | 1.12%   |
| Be 313.107            | -5596.2              | 0.0000     | 0.00002  | mg/L        |            |          |              | 104.97% |
| Ca 315.887            | 272999.8             | 3.609      | 0.0162   | mg/L        |            |          |              | 0.45%   |
| Cd 226.502            | 386.1                | 0.0020     | 0.00009  | mg/L        |            |          |              | 4.38%   |
| Co 228.616            | -601.7               | 0.0037     | 0.00005  | mg/L        |            |          |              | 1.22%   |
| Cr 267.716            | 337.0                | 0.0099     | 0.00006  | mg/L        |            |          |              | 0.59%   |
| <del>Cu 324.754</del> | 855592.6             | 5.044      | 0.0660   | mg/L        |            |          |              | 1.31%   |
| <del>Fe 238.863</del> | 62764.7              | 4.310      | 0.0230   | mg/L        |            |          |              | 0.53%   |
| <del>K 404.721</del>  | 12039.4              | -7.330     | 0.4586   | mg/L        |            |          |              | 6.26%   |
| Mg 279.079            | 11006.1              | 0.9563     | 0.00258  | mg/L        |            |          |              | 0.27%   |
| Mn 257.610            | 17995.4              | 0.0512     | 0.00031  | mg/L        |            |          |              | 0.60%   |
| Mo 202.030            | 43.4                 | 0.0034     | 0.00028  | mg/L        |            |          |              | 8.13%   |
| <del>Na 330.237</del> | 2002.7               | 1.365      | 0.0053   | mg/L        |            |          |              | 0.39%   |
| Ni 231.604            | 1234.0               | 0.0469     | 0.00029  | mg/L        |            |          |              | 0.62%   |
| Pb 220.353            | 2795.5               | 0.5970     | 0.00154  | mg/L        |            |          |              | 0.26%   |
| Sb 206.833            | 293.0                | 0.0017     | 0.00215  | mg/L        |            |          |              | 125.16% |
| Se 196.026            | 52.0                 | 0.0015     | 0.00221  | mg/L        |            |          |              | 144.03% |
| Sn 189.933            | 923.7                | 0.2929     | 0.00232  | mg/L        |            |          |              | 0.79%   |
| Ti 334.941            | 48286.7              | 0.1141     | 0.00047  | mg/L        |            |          |              | 0.42%   |
| Tl 190.800            | -72.5                | -0.0033    | 0.00302  | mg/L        |            |          |              | 90.84%  |
| V 292.402             | 629.2                | 0.0054     | 0.00008  | mg/L        |            |          |              | 1.46%   |
| <del>206.200</del>    | 102719.5             | 2.072      | 0.0116   | mg/L        |            |          |              | 0.56%   |

## Mean Data

0136

ID: 283554A

Seq. No.: 96

Sample No.: 66

A/S Pos: 88

Sample Qty: 1.0000 mL

Prep. Vol.: 200.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 4/27/99

8:10:41 PM

| Element    | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD   |
|------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|-------|
| Y 371.030  | 2351609.7               | 0.962         | 0.0044   | mg/L           |               |          |                 | 0.46% |
| Ag 328.068 | 4508.2                  | 0.0479        | 0.00012  | mg/L           |               |          |                 | 0.24% |
| Al 308.215 | 59376.6                 | 4.222         | 0.0061   | mg/L           |               |          |                 | 0.14% |
| As 188.979 | 8.0                     | 0.0349        | 0.00078  | mg/L           |               |          |                 | 2.24% |
| B 249.773  | 48371.9                 | 0.9759        | 0.00112  | mg/L           |               |          |                 | 0.11% |
| Ba 233.527 | 156824.4                | 2.054         | 0.0041   | mg/L           |               |          |                 | 0.20% |
| Be 313.107 | 115959.4                | 0.0471        | 0.00005  | mg/L           |               |          |                 | 0.10% |
| Ca 315.887 | 435063.6                | 5.624         | 0.0007   | mg/L           |               |          |                 | 0.01% |
| Cd 226.502 | 3240.3                  | 0.0513        | 0.00020  | mg/L           |               |          |                 | 0.39% |
| Co 228.616 | 15629.6                 | 0.5151        | 0.00031  | mg/L           |               |          |                 | 0.06% |
| Cr 267.716 | 17363.9                 | 0.1993        | 0.00063  | mg/L           |               |          |                 | 0.32% |
| Cu 324.754 | 867956.7                | 5.117         | 0.0211   | mg/L           |               |          |                 | 0.41% |
| Fe 238.863 | 75100.9                 | 5.150         | 0.0023   | mg/L           |               |          |                 | 0.04% |
| K 404.721  | 13726.1                 | 10.35         | 0.523    | mg/L           |               |          |                 | 5.05% |
| Mg 279.079 | 36366.6                 | 2.837         | 0.0068   | mg/L           |               |          |                 | 0.24% |
| Mn 257.610 | 181616.0                | 0.5200        | 0.00097  | mg/L           |               |          |                 | 0.19% |
| Mo 202.030 | 4835.6                  | 0.4593        | 0.00312  | mg/L           |               |          |                 | 0.68% |
| Na 330.237 | 12748.4                 | 18.34         | 0.010    | mg/L           |               |          |                 | 0.05% |
| Ni 231.604 | 13227.7                 | 0.5536        | 0.00130  | mg/L           |               |          |                 | 0.23% |
| Pb 220.353 | 4961.1                  | 1.088         | 0.0032   | mg/L           |               |          |                 | 0.29% |
| Sb 206.833 | 1952.3                  | 0.4931        | 0.00030  | mg/L           |               |          |                 | 0.06% |
| Se 196.026 | 92.9                    | 0.0148        | 0.00035  | mg/L           |               |          |                 | 2.36% |
| Sn 189.933 | 932.5                   | 0.2952        | 0.00124  | mg/L           |               |          |                 | 0.42% |
| Ti 334.941 | 255584.1                | 0.5930        | 0.00047  | mg/L           |               |          |                 | 0.08% |
| Tl 190.800 | 2013.0                  | 2.034         | 0.0088   | mg/L           |               |          |                 | 0.43% |
| V 292.402  | 76695.7                 | 0.4826        | 0.00007  | mg/L           |               |          |                 | 0.02% |
| Zn 206.200 | 127959.3                | 2.580         | 0.0051   | mg/L           |               |          |                 | 0.20% |

## Mean Data

999990  
Sample Qty: 1.0000 g  
Seq. No.: 97  
Prep. Vol.: 200.0 mL  
Data: Original  
Sample No.: 67  
A/S Pos: 89  
Dilution: 1.0: 1.0  
Date: 4/27/99 8:14:05 PM

| Element    | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD     |
|------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|---------|
| Y 371.030  | 2339537.1               | 0.957         | 0.0040   | mg/L           |               |          |                 | 0.42%   |
| Ag 328.068 | -1296.0                 | 0.0006        | 0.00010  | mg/L           |               |          |                 | 18.37%  |
| Al 308.215 | 4897.8                  | 0.0053        | 0.00220  | mg/L           |               |          |                 | 41.74%  |
| As 188.979 | -77.0                   | 0.0001        | 0.00186  | mg/L           |               |          |                 | >999.9% |
| B 249.773  | 305.3                   | 0.0071        | 0.00119  | mg/L           |               |          |                 | 16.65%  |
| Ba 233.527 | -418.9                  | 0.0001        | 0.00004  | mg/L           |               |          |                 | 34.69%  |
| Be 313.107 | -5458.9                 | 0.0000        | 0.00001  | mg/L           |               |          |                 | 33.39%  |
| Ca 315.887 | -13624.2                | 0.0461        | 0.00120  | mg/L           |               |          |                 | 2.59%   |
| Cd 226.502 | 264.2                   | -0.0001       | 0.00001  | mg/L           |               |          |                 | 10.07%  |
| Co 228.616 | -706.7                  | 0.0004        | 0.00009  | mg/L           |               |          |                 | 22.77%  |
| Cr 267.716 | -538.8                  | 0.0002        | 0.00002  | mg/L           |               |          |                 | 9.14%   |
| Cu 324.754 | 189660.6                | 1.110         | 0.0147   | mg/L           |               |          |                 | 1.32%   |
| Fe 238.863 | 165.7                   | 0.0460        | 0.00479  | mg/L           |               |          |                 | 10.41%  |
| K 404.721  | 12195.3                 | -8.565        | 0.1037   | mg/L           |               |          |                 | 1.21%   |
| Mg 279.079 | -1851.7                 | 0.0030        | 0.00019  | mg/L           |               |          |                 | 6.44%   |
| Mn 257.610 | 600.0                   | 0.0013        | 0.00011  | mg/L           |               |          |                 | 8.32%   |
| Mo 202.030 | 7.4                     | 0.0000        | 0.00008  | mg/L           |               |          |                 | 210.74% |
| Na 330.237 | -48.6                   | 0.1363        | 0.06117  | mg/L           |               |          |                 | 44.88%  |
| Ni 231.604 | 111.3                   | -0.0005       | 0.00024  | mg/L           |               |          |                 | 45.60%  |
| Pb 220.353 | 172.3                   | 0.0020        | 0.00034  | mg/L           |               |          |                 | 16.86%  |
| Sb 206.833 | 273.0                   | -0.0042       | 0.00178  | mg/L           |               |          |                 | 42.38%  |
| Se 196.026 | 57.6                    | 0.0033        | 0.00252  | mg/L           |               |          |                 | 75.39%  |
| Sn 189.933 | -121.8                  | 0.0160        | 0.00047  | mg/L           |               |          |                 | 2.94%   |
| Ti 334.941 | -1011.1                 | 0.0001        | 0.00008  | mg/L           |               |          |                 | 53.30%  |
| Tl 190.800 | -69.2                   | -0.0001       | 0.00042  | mg/L           |               |          |                 | 431.41% |
| V 292.402  | -275.3                  | -0.0002       | 0.00007  | mg/L           |               |          |                 | 30.42%  |
| Zn 206.200 | 2621.2                  | 0.0584        | 0.00073  | mg/L           |               |          |                 | 1.24%   |

## Mean Data

ID: CCV  
Sample Qty: 1.0000 g  
Seq. No.: 98  
Prep. Vol.: 1.0 L  
Data: Original  
Sample No.: 8  
A/S Pos: 4  
Dilution: 1.0: 1.0  
Date: 4/27/99 8:17:36 PM

| Element                                | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD   |
|----------------------------------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|-------|
| Ag 328.068                             | 2266630.5               | 0.927         | 0.0014   | mg/L           |               |          |                 | 0.15% |
| Al 308.215                             | 58176.7                 | 0.4853        | 0.00051  | mg/L           |               |          |                 | 0.10% |
| As 188.979                             | 125980.0                | 9.377         | 0.0027   | mg/L           |               |          |                 | 0.03% |
| B 249.773                              | 2223.2                  | 0.9432        | 0.01058  | mg/L           |               |          |                 | 1.12% |
| Ba 233.527                             | 120299.7                | 2.426         | 0.0136   | mg/L           |               |          |                 | 0.56% |
| Be 313.107                             | 768776.0                | 10.05         | 0.007    | mg/L           |               |          |                 | 0.07% |
| Ca 315.887                             | 628694.1                | 0.2458        | 0.00015  | mg/L           |               |          |                 | 0.06% |
| Cd 226.502                             | 2037818.2               | 25.55         | 0.020    | mg/L           |               |          |                 | 0.08% |
| Co 228.616                             | 28697.7                 | 0.4918        | 0.00079  | mg/L           |               |          |                 | 0.16% |
| Cr 267.716                             | 78951.9                 | 2.510         | 0.0025   | mg/L           |               |          |                 | 0.10% |
| Cu 324.754                             | 41986.4                 | 0.4731        | 0.00054  | mg/L           |               |          |                 | 0.11% |
| *QC exceeds upper limit for Cu 324.754 | 350285.5                | 2.059         | 0.0842   | mg/L           |               |          |                 | 4.09% |
| Fe 238.863                             |                         |               |          |                |               |          |                 |       |
| K 404.721                              | 72617.9                 | 4.981         | 0.0021   | mg/L           |               |          |                 | 0.04% |
| *QC exceeds lower limit for K 404.721  | 14377.3                 | 13.42         | 0.689    | mg/L           |               |          |                 | 5.14% |
| Mg 279.079                             |                         |               |          |                |               |          |                 |       |
| Mn 257.610                             | 318830.0                | 23.78         | 0.024    | mg/L           |               |          |                 | 0.10% |
| Mo 202.030                             | 246146.9                | 0.7049        | 0.00017  | mg/L           |               |          |                 | 0.02% |
| Na 330.237                             | 25366.1                 | 2.413         | 0.0103   | mg/L           |               |          |                 | 0.43% |
| *QC exceeds lower limit for Na 330.237 | 13789.6                 | 22.40         | 0.055    | mg/L           |               |          |                 | 0.24% |
| Ni 231.604                             |                         |               |          |                |               |          |                 |       |
| Pb 220.353                             | 46346.5                 | 1.953         | 0.0012   | mg/L           |               |          |                 | 0.06% |
| Sb 206.833                             | 2303.3                  | 0.4884        | 0.00231  | mg/L           |               |          |                 | 0.47% |
| Se 196.026                             | 18104.0                 | 5.308         | 0.0203   | mg/L           |               |          |                 | 0.38% |
| Sn 189.933                             | 1487.1                  | 0.4661        | 0.00120  | mg/L           |               |          |                 | 0.26% |
| Ti 334.941                             | 18701.0                 | 5.000         | 0.0284   | mg/L           |               |          |                 | 0.57% |
| Tl 190.800                             | 1061744.7               | 2.456         | 0.0005   | mg/L           |               |          |                 | 0.02% |
| V 292.402                              | 885.6                   | 1.013         | 0.0035   | mg/L           |               |          |                 | 0.35% |
| Zn 206.200                             | 385660.0                | 2.421         | 0.0005   | mg/L           |               |          |                 | 0.02% |
|                                        | 48801.0                 | 0.9876        | 0.00166  | mg/L           |               |          |                 | 0.17% |

## Mean Data

|                      |                   |                |            |
|----------------------|-------------------|----------------|------------|
| CCB                  | Seq. No.: 99      | Sample No.: 9  | A/S Pos: 5 |
| Sample Qty: 1.0000 g | Prep. Vol.: 1.0 L | Dilution: 1.0: | 1.0        |
|                      | Data: Original    | Date: 4/27/99  | 8:21:04 PM |

| Element                                | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD     |
|----------------------------------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|---------|
| Y 371.030                              | 2348128.9               | 0.961         | 0.0041   | mg/L           |               |          |                 | 0.43%   |
| Ag 328.068                             | -1238.5                 | 0.0010        | 0.00019  | mg/L           |               |          |                 | 18.90%  |
| Al 308.215                             | 4864.1                  | 0.0027        | 0.00498  | mg/L           |               |          |                 | 186.85% |
| As 188.979                             | -74.1                   | 0.0012        | 0.00119  | mg/L           |               |          |                 | 95.84%  |
| B 249.773                              | 504.7                   | 0.0111        | 0.00287  | mg/L           |               |          |                 | 25.78%  |
| Ba 233.527                             | -309.6                  | 0.0016        | 0.00032  | mg/L           |               |          |                 | 20.52%  |
| Be 313.107                             | -5383.5                 | 0.0001        | 0.00002  | mg/L           |               |          |                 | 23.38%  |
| Ca 315.887                             | -17404.6                | -0.0009       | 0.00107  | mg/L           |               |          |                 | 118.72% |
| Cd 226.502                             | 269.2                   | -0.0001       | 0.00005  | mg/L           |               |          |                 | 78.12%  |
| Co 228.616                             | -708.5                  | 0.0003        | 0.00007  | mg/L           |               |          |                 | 20.32%  |
| Cr 267.716                             | -530.5                  | 0.0003        | 0.00011  | mg/L           |               |          |                 | 36.42%  |
| Cu 324.754                             | 111319.2                | 0.6476        | 0.03562  | mg/L           |               |          |                 | 5.50%   |
| *QC exceeds upper limit for Cu 324.754 |                         |               |          |                |               |          |                 |         |
| Fe 238.863                             | 24.2                    | 0.0363        | 0.00063  | mg/L           |               |          |                 | 1.72%   |
| K 404.721                              | 12131.5                 | -9.208        | 0.0052   | mg/L           |               |          |                 | 0.06%   |
| *QC exceeds lower limit for K 404.721  |                         |               |          |                |               |          |                 |         |
| Mg 279.079                             | -1826.7                 | 0.0048        | 0.00067  | mg/L           |               |          |                 | 13.83%  |
| Mn 257.610                             | 602.4                   | 0.0013        | 0.00002  | mg/L           |               |          |                 | 1.18%   |
| Mo 202.030                             | 19.7                    | 0.0011        | 0.00011  | mg/L           |               |          |                 | 9.96%   |
| Na 330.237                             | -41.6                   | 0.1478        | 0.10068  | mg/L           |               |          |                 | 68.14%  |
| Ni 231.604                             | 121.0                   | -0.0001       | 0.00041  | mg/L           |               |          |                 | 339.61% |
| Pb 220.353                             | 166.9                   | 0.0008        | 0.00112  | mg/L           |               |          |                 | 145.87% |
| Sb 206.833                             | 278.5                   | -0.0026       | 0.00118  | mg/L           |               |          |                 | 45.91%  |
| Se 196.026                             | 53.6                    | 0.0021        | 0.00207  | mg/L           |               |          |                 | 100.61% |
| Sn 189.933                             | -143.6                  | 0.0103        | 0.00331  | mg/L           |               |          |                 | 32.31%  |
| Ti 334.941                             | -957.7                  | 0.0003        | 0.00003  | mg/L           |               |          |                 | 12.27%  |
| Tl 190.800                             | -65.2                   | 0.0038        | 0.00278  | mg/L           |               |          |                 | 73.13%  |
| V 292.402                              | -231.5                  | 0.0000        | 0.00007  | mg/L           |               |          |                 | 211.09% |
| Zn 206.200                             | 708.5                   | 0.0199        | 0.00114  | mg/L           |               |          |                 | 5.75%   |
| *QC exceeds upper limit for Zn 206.200 |                         |               |          |                |               |          |                 |         |

## Mean Data

0138

ID: 283554L

Seq. No.: 100

Sample No.: 68

A/S Pos: 90

Sample Qty: 1.0000 mL

Prep. Vol.: 200.0 mL

Dilution: 1.0: 1.0

Data: Original

Date: 4/27/99

8:24:29 PM

| Element    | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD     |
|------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|---------|
| Y 371.030  | 2382858.2               | 0.975         | 0.0081   | mg/L           |               |          |                 | 0.83%   |
| Ag 328.068 | -1240.9                 | 0.0010        | 0.00000  | mg/L           |               |          |                 | 0.25%   |
| Al 308.215 | 11097.7                 | 0.4852        | 0.01274  | mg/L           |               |          |                 | 2.63%   |
| As 188.979 | -78.5                   | -0.0006       | 0.00067  | mg/L           |               |          |                 | 119.15% |
| B 249.773  | 723.4                   | 0.0155        | 0.00049  | mg/L           |               |          |                 | 3.18%   |
| Ba 233.527 | -243.7                  | 0.0024        | 0.00004  | mg/L           |               |          |                 | 1.45%   |
| Be 313.107 | -5500.2                 | 0.0000        | 0.00002  | mg/L           |               |          |                 | 100.54% |
| Ca 315.887 | 47616.0                 | 0.8074        | 0.01198  | mg/L           |               |          |                 | 1.48%   |
| Cd 226.502 | 286.1                   | 0.0002        | 0.00011  | mg/L           |               |          |                 | 48.72%  |
| Co 228.616 | -676.3                  | 0.0014        | 0.00039  | mg/L           |               |          |                 | 28.87%  |
| Cr 267.716 | -369.0                  | 0.0021        | 0.00013  | mg/L           |               |          |                 | 6.19%   |
| Cu 324.754 | 166798.7                | 0.9753        | 0.02114  | mg/L           |               |          |                 | 2.17%   |
| Fe 238.863 | 11809.4                 | 0.8391        | 0.00810  | mg/L           |               |          |                 | 0.97%   |
| K 404.721  | 11826.0                 | -12.29        | 1.104    | mg/L           |               |          |                 | 8.99%   |
| Mg 279.079 | 726.7                   | 0.1941        | 0.00205  | mg/L           |               |          |                 | 1.06%   |
| Mn 257.610 | 3537.9                  | 0.0097        | 0.00013  | mg/L           |               |          |                 | 1.29%   |
| Mo 202.030 | 19.8                    | 0.0011        | 0.00019  | mg/L           |               |          |                 | 16.89%  |
| Na 330.237 | 277.6                   | 0.6673        | 0.10443  | mg/L           |               |          |                 | 15.65%  |
| Ni 231.604 | 327.7                   | 0.0086        | 0.00078  | mg/L           |               |          |                 | 9.08%   |
| Pb 220.353 | 664.4                   | 0.1136        | 0.00116  | mg/L           |               |          |                 | 1.02%   |
| Sb 206.833 | 273.1                   | -0.0042       | 0.00091  | mg/L           |               |          |                 | 21.73%  |
| Se 196.026 | 47.3                    | 0.0000        | 0.00009  | mg/L           |               |          |                 | 712.50% |
| Sn 189.933 | 8.1                     | 0.0504        | 0.00184  | mg/L           |               |          |                 | 3.65%   |
| Ti 334.941 | 10787.7                 | 0.0274        | 0.00036  | mg/L           |               |          |                 | 1.31%   |
| Tl 190.800 | -65.5                   | 0.0035        | 0.00134  | mg/L           |               |          |                 | 38.32%  |
| V 292.402  | -64.5                   | 0.0011        | 0.00008  | mg/L           |               |          |                 | 7.39%   |
| Zn 206.200 | 19456.7                 | 0.3971        | 0.00459  | mg/L           |               |          |                 | 1.16%   |

## Mean Data

283555

Sample Qty: 1.0700 g

Seq. No.: 101

Sample No.: 69

A/S Pos: 91

Prep. Vol.: 200.0 mL

Dilution: 1.0: 1.0

Data: Original

Date: 4/27/99

8:28:25 PM

| Element               | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD    |
|-----------------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|--------|
| Y 371.030             | 2083379.3               | 0.852         | 0.0061   | mg/L           |               |          |                 | 0.72%  |
| Ag 328.068            | 6196.7                  | 0.0616        | 0.00014  | mg/L           |               |          |                 | 0.23%  |
| Al 308.215            | 6492309.8               | 502.2         | 3.57     | mg/L           |               |          |                 | 0.71%  |
| As 188.979            | -229.2                  | -0.0071       | 0.00220  | mg/L           |               |          |                 | 30.79% |
| B 249.773             | 354.9                   | 0.0081        | 0.00067  | mg/L           |               |          |                 | 8.20%  |
| Ba 233.527            | -306.6                  | 0.0016        | 0.00012  | mg/L           |               |          |                 | 7.77%  |
| Be 313.107            | -6475.9                 | -0.0004       | 0.00002  | mg/L           |               |          |                 | 4.96%  |
| Ca 315.887            | 126410.6                | 1.787         | 0.0000   | mg/L           |               |          |                 | 0.00%  |
| Cd 226.502            | 2307.1                  | 0.0237        | 0.00007  | mg/L           |               |          |                 | 0.28%  |
| Co 228.616            | -802.1                  | -0.0026       | 0.00012  | mg/L           |               |          |                 | 4.68%  |
| Cr 267.716            | 1682.4                  | 0.0249        | 0.00008  | mg/L           |               |          |                 | 0.31%  |
| <del>Cu 324.754</del> | 40399326.4              | 238.6         | 1.57     | mg/L           |               |          |                 | 0.66%  |
| <del>Fe 238.863</del> | 52532.2                 | 3.613         | 0.0085   | mg/L           |               |          |                 | 0.23%  |
| <del>K 404.721</del>  | 13224.9                 | 504.6         | 5.92     | mg/L           |               |          |                 | 1.17%  |
| Mg 279.079            | 8615.8                  | 0.7791        | 0.00493  | mg/L           |               |          |                 | 0.63%  |
| Mn 257.610            | 209125.2                | 0.5988        | 0.00030  | mg/L           |               |          |                 | 0.05%  |
| Mo 202.030            | 388.0                   | 0.0362        | 0.00099  | mg/L           |               |          |                 | 2.75%  |
| <del>Na 330.237</del> | 3843551.4               | 5886          | 50.9     | mg/L           |               |          |                 | 0.86%  |
| Ni 231.604            | 31516.8                 | 1.326         | 0.0014   | mg/L           |               |          |                 | 0.10%  |
| Pb 220.353            | 63806.6                 | 14.46         | 0.014    | mg/L           |               |          |                 | 0.10%  |
| Sb 206.833            | 4048.5                  | 0.9397        | 0.00408  | mg/L           |               |          |                 | 0.43%  |
| Se 196.026            | 169.9                   | 0.3962        | 0.00182  | mg/L           |               |          |                 | 0.46%  |
| Sn 189.933            | 16459.9                 | 4.407         | 0.0731   | mg/L           |               |          |                 | 1.66%  |
| Ti 334.941            | 18170.7                 | 0.0445        | 0.00001  | mg/L           |               |          |                 | 0.03%  |
| Tl 190.800            | -227.9                  | -0.0749       | 0.00437  | mg/L           |               |          |                 | 5.83%  |
| V 292.402             | -1398.3                 | -0.0073       | 0.00000  | mg/L           |               |          |                 | 0.03%  |
| <del>Zn 206.200</del> | 18049275.3              | 363.2         | 3.32     | mg/L           |               |          |                 | 0.91%  |

## Mean Data

ID: 283556

Sample Qty: 1.0000 g

Seq. No.: 102

Sample No.: 70

A/S Pos: 92

Prep. Vol.: 200.0 mL

Dilution: 1.0: 1.0

Data: Original

Date: 4/27/99

8:32:32 PM

| Element               | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD    |
|-----------------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|--------|
| Y 371.030             | 2327326.4               | 0.952         | 0.0005   | mg/L           |               |          |                 | 0.06%  |
| Ag 328.068            | 2813.8                  | 0.0340        | 0.00026  | mg/L           |               |          |                 | 0.77%  |
| Al 308.215            | 228821.2                | 17.34         | 0.089    | mg/L           |               |          |                 | 0.52%  |
| As 188.979            | -73.5                   | 0.0015        | 0.00101  | mg/L           |               |          |                 | 67.87% |
| B 249.773             | 2377.7                  | 0.0489        | 0.00039  | mg/L           |               |          |                 | 0.79%  |
| Ba 233.527            | 7218.3                  | 0.0999        | 0.00007  | mg/L           |               |          |                 | 0.07%  |
| Be 313.107            | -4742.7                 | 0.0003        | 0.00001  | mg/L           |               |          |                 | 4.28%  |
| Ca 315.887            | 1940909.1               | 24.34         | 0.027    | mg/L           |               |          |                 | 0.11%  |
| Cd 226.502            | 3628.2                  | 0.0581        | 0.00011  | mg/L           |               |          |                 | 0.20%  |
| Co 228.616            | -310.9                  | 0.0129        | 0.00034  | mg/L           |               |          |                 | 2.64%  |
| Cr 267.716            | 1207.3                  | 0.0196        | 0.00014  | mg/L           |               |          |                 | 0.72%  |
| <del>Cu 324.754</del> | 23027929.6              | 136.0         | 0.42     | mg/L           |               |          |                 | 0.31%  |
| <del>Fe 238.863</del> | 309877.9                | 21.14         | 0.099    | mg/L           |               |          |                 | 0.47%  |
| <del>K 404.721</del>  | 12806.7                 | 73.45         | 0.002    | mg/L           |               |          |                 | 0.00%  |
| Mg 279.079            | 88339.6                 | 6.690         | 0.0312   | mg/L           |               |          |                 | 0.47%  |
| Mn 257.610            | 100829.2                | 0.2885        | 0.00164  | mg/L           |               |          |                 | 0.57%  |
| Mo 202.030            | 87.7                    | 0.0076        | 0.00052  | mg/L           |               |          |                 | 6.79%  |
| <del>Na 330.237</del> | 56696.5                 | 39.20         | 1.017    | mg/L           |               |          |                 | 2.59%  |
| Ni 231.604            | 22937.0                 | 0.9637        | 0.00367  | mg/L           |               |          |                 | 0.38%  |
| Pb 220.353            | 50043.1                 | 11.31         | 0.046    | mg/L           |               |          |                 | 0.40%  |
| Sb 206.833            | 719.5                   | 0.1280        | 0.00114  | mg/L           |               |          |                 | 0.89%  |
| Se 196.026            | 73.5                    | 0.0695        | 0.00238  | mg/L           |               |          |                 | 3.43%  |
| Sn 189.933            | 33803.3                 | 8.999         | 0.0653   | mg/L           |               |          |                 | 0.73%  |
| Ti 334.941            | 126333.4                | 0.2944        | 0.00201  | mg/L           |               |          |                 | 0.68%  |
| Tl 190.800            | -97.6                   | -0.0277       | 0.00389  | mg/L           |               |          |                 | 14.08% |
| V 292.402             | 1079.6                  | 0.0083        | 0.00020  | mg/L           |               |          |                 | 2.45%  |
| <del>Zn 206.200</del> | 2600992.0               | 52.34         | 0.531    | mg/L           |               |          |                 | 1.02%  |

## Mean Data

ID: 283557

Sample Qty: 1.0800 g

Seq. No.: 103

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 71

Dilution: 1.0: 1.0

A/S Pos: 93

Date: 4/27/99 8:36:28 PM

| Element               | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD    |
|-----------------------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|--------|
| Y 371.030             | 2305678.6               | 0.943         | 0.0000   | mg/L           |               |          |                 | 0.00%  |
| Ag 328.068            | 3795.3                  | 0.0420        | 0.00030  | mg/L           |               |          |                 | 0.71%  |
| Al 308.215            | 225918.3                | 17.11         | 0.083    | mg/L           |               |          |                 | 0.49%  |
| As 188.979            | -93.6                   | 0.0045        | 0.00209  | mg/L           |               |          |                 | 46.06% |
| B 249.773             | 3905.7                  | 0.0797        | 0.00052  | mg/L           |               |          |                 | 0.65%  |
| Ba 233.527            | 7160.3                  | 0.0991        | 0.00035  | mg/L           |               |          |                 | 0.35%  |
| Be 313.107            | -4720.9                 | 0.0003        | 0.00001  | mg/L           |               |          |                 | 2.44%  |
| Ca 315.887            | 3652338.1               | 45.62         | 0.020    | mg/L           |               |          |                 | 0.04%  |
| Cd 226.502            | 3418.3                  | 0.0544        | 0.00031  | mg/L           |               |          |                 | 0.57%  |
| Co 228.616            | 490.5                   | 0.0381        | 0.00008  | mg/L           |               |          |                 | 0.20%  |
| Cr 267.716            | 3184.3                  | 0.0416        | 0.00036  | mg/L           |               |          |                 | 0.87%  |
| <del>Cu 324.754</del> | 31956455.3              | 188.8         | 0.39     | mg/L           |               |          |                 | 0.21%  |
| <del>Fe 238.863</del> | 646239.0                | 44.05         | 0.025    | mg/L           |               |          |                 | 0.06%  |
| <del>K 404.721</del>  | 13097.9                 | 75.17         | 1.928    | mg/L           |               |          |                 | 2.56%  |
| Mg 279.079            | 95319.1                 | 7.208         | 0.0366   | mg/L           |               |          |                 | 0.51%  |
| Mn 257.610            | 169088.5                | 0.4841        | 0.00273  | mg/L           |               |          |                 | 0.56%  |
| Mo 202.030            | 115.8                   | 0.0103        | 0.00084  | mg/L           |               |          |                 | 8.18%  |
| <del>Na 330.237</del> | 55604.7                 | 38.67         | 1.384    | mg/L           |               |          |                 | 3.58%  |
| Ni 231.604            | 40659.3                 | 1.712         | 0.0107   | mg/L           |               |          |                 | 0.63%  |
| Pb 220.353            | 54420.5                 | 12.30         | 0.085    | mg/L           |               |          |                 | 0.69%  |
| Sb 206.833            | 713.9                   | 0.1264        | 0.00183  | mg/L           |               |          |                 | 1.45%  |
| Se 196.026            | 77.4                    | 0.0699        | 0.00082  | mg/L           |               |          |                 | 1.17%  |
| Sn 189.933            | 50321.2                 | 13.37         | 0.053    | mg/L           |               |          |                 | 0.40%  |
| Ti 334.941            | 120172.7                | 0.2801        | 0.00115  | mg/L           |               |          |                 | 0.41%  |
| Tl 190.800            | -104.8                  | -0.0346       | 0.00111  | mg/L           |               |          |                 | 3.21%  |
| V 292.402             | 750.4                   | 0.0062        | 0.00000  | mg/L           |               |          |                 | 0.00%  |
| <del>Zn 206.200</del> | 2540223.4               | 51.12         | 0.964    | mg/L           |               |          |                 | 1.89%  |

## Mean Data

283558

Sample Qty: 1.0400 g

Seq. No.: 104

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 72

Dilution: 1.0: 1.0

A/S Pos: 94

Date: 4/27/99 8:40:23 PM

| Element | Mean Corr.<br>Intensity | Mean<br>Conc. | Std.Dev. | Calib<br>Units | Mean<br>Conc. | Std.Dev. | Sample<br>Units | RSD |
|---------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|-----|
|---------|-------------------------|---------------|----------|----------------|---------------|----------|-----------------|-----|

|                       |            |         |              |        |
|-----------------------|------------|---------|--------------|--------|
| Y 371.030             | 2344443.4  | 0.959   | 0.0067 mg/L  | 0.70%  |
| Ag 328.068            | 3165.5     | 0.0369  | 0.00051 mg/L | 1.38%  |
| Al 308.215            | 221717.8   | 16.79   | 0.105 mg/L   | 0.62%  |
| As 188.979            | -80.5      | -0.0013 | 0.00100 mg/L | 74.42% |
| B 249.773             | 2253.1     | 0.0464  | 0.00044 mg/L | 0.95%  |
| Ba 233.527            | 6930.4     | 0.0961  | 0.00001 mg/L | 0.01%  |
| Be 313.107            | -4650.6    | 0.0003  | 0.00003 mg/L | 8.49%  |
| Ca 315.887            | 1941620.8  | 24.35   | 0.026 mg/L   | 0.11%  |
| Cd 226.502            | 3215.7     | 0.0509  | 0.00061 mg/L | 1.19%  |
| Co 228.616            | -182.6     | 0.0169  | 0.00024 mg/L | 1.43%  |
| Cr 267.716            | 1150.5     | 0.0190  | 0.00001 mg/L | 0.06%  |
| <del>Cu 324.754</del> | 28002246.4 | 165.4   | 1.49 mg/L    | 0.90%  |
| <del>Fe 238.863</del> | 343622.6   | 23.44   | 0.099 mg/L   | 0.42%  |
| <del>K 404.721</del>  | 12713.2    | 59.55   | 0.270 mg/L   | 0.45%  |
| Mg 279.079            | 83696.0    | 6.346   | 0.0361 mg/L  | 0.57%  |
| Mn 257.610            | 98416.5    | 0.2816  | 0.00066 mg/L | 0.24%  |
| Mo 202.030            | 79.2       | 0.0068  | 0.00016 mg/L | 2.40%  |
| <del>Na 330.237</del> | 45991.2    | 30.71   | 0.538 mg/L   | 1.75%  |
| Ni 231.604            | 46932.1    | 1.977   | 0.0142 mg/L  | 0.72%  |
| Pb 220.353            | 39201.1    | 8.851   | 0.0518 mg/L  | 0.59%  |
| Sb 206.833            | 617.1      | 0.0977  | 0.00194 mg/L | 1.99%  |
| Se 196.026            | 62.3       | 0.0511  | 0.00185 mg/L | 3.62%  |
| Sn 189.933            | 49175.5    | 13.07   | 0.088 mg/L   | 0.67%  |
| Ti 334.941            | 116098.5   | 0.2707  | 0.00084 mg/L | 0.31%  |
| Tl 190.800            | -94.4      | -0.0246 | 0.00329 mg/L | 13.39% |
| V 292.402             | 540.9      | 0.0049  | 0.00013 mg/L | 2.61%  |
| <del>Zn 206.200</del> | 2165116.7  | 43.57   | 0.088 mg/L   | 0.20%  |

## Mean Data

ID: 283559

Sample Qty: 1.0200 g

Seq. No.: 105

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 73

Dilution: 1.0: 1.0

A/S Pos: 95

Date: 4/27/99

8:44:19 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030             | 2331101.1            | 0.954      | 0.0080   | mg/L        |            |          |              | 0.84%  |
| Ag 328.068            | 6432.0               | 0.0635     | 0.00062  | mg/L        |            |          |              | 0.98%  |
| Al 308.215            | 220238.1             | 16.67      | 0.108    | mg/L        |            |          |              | 0.65%  |
| As 188.979            | -59.7                | 0.0071     | 0.00087  | mg/L        |            |          |              | 12.23% |
| B 249.773             | 2610.9               | 0.0536     | 0.00127  | mg/L        |            |          |              | 2.38%  |
| Ba 233.527            | 6106.3               | 0.0854     | 0.00015  | mg/L        |            |          |              | 0.17%  |
| Be 313.107            | -4937.8              | 0.0002     | 0.00000  | mg/L        |            |          |              | 0.90%  |
| Ca 315.887            | 1752737.5            | 22.00      | 0.005    | mg/L        |            |          |              | 0.02%  |
| Cd 226.502            | 4191.1               | 0.0678     | 0.00035  | mg/L        |            |          |              | 0.52%  |
| Co 228.616            | -273.0               | 0.0141     | 0.00034  | mg/L        |            |          |              | 2.45%  |
| Cr 267.716            | 1312.7               | 0.0208     | 0.00006  | mg/L        |            |          |              | 0.29%  |
| <del>Cu 324.754</del> | 28771150.0           | 169.9      | 0.40     | mg/L        |            |          |              | 0.23%  |
| <del>Fe 238.863</del> | 325616.6             | 22.21      | 0.120    | mg/L        |            |          |              | 0.54%  |
| <del>K 404.721</del>  | 12780.5              | 70.27      | 1.940    | mg/L        |            |          |              | 2.76%  |
| Mg 279.079            | 82413.1              | 6.251      | 0.0265   | mg/L        |            |          |              | 0.42%  |
| Mn 257.610            | 106603.2             | 0.3050     | 0.00190  | mg/L        |            |          |              | 0.62%  |
| Mo 202.030            | 78.6                 | 0.0067     | 0.00065  | mg/L        |            |          |              | 9.60%  |
| <del>Na 330.237</del> | 50773.0              | 34.02      | 0.377    | mg/L        |            |          |              | 1.11%  |
| Ni 231.604            | 26895.5              | 1.131      | 0.0049   | mg/L        |            |          |              | 0.43%  |
| Pb 220.353            | 80218.4              | 18.16      | 0.092    | mg/L        |            |          |              | 0.50%  |
| Sb 206.833            | 1023.0               | 0.2179     | 0.00390  | mg/L        |            |          |              | 1.79%  |
| Se 196.026            | 70.3                 | 0.0670     | 0.00015  | mg/L        |            |          |              | 0.22%  |
| Sn 189.933            | 41497.6              | 11.04      | 0.041    | mg/L        |            |          |              | 0.37%  |
| Ti 334.941            | 132496.4             | 0.3086     | 0.00165  | mg/L        |            |          |              | 0.53%  |
| Tl 190.800            | -98.4                | -0.0284    | 0.00369  | mg/L        |            |          |              | 12.97% |
| V 292.402             | 668.8                | 0.0057     | 0.00015  | mg/L        |            |          |              | 2.67%  |
| <del>Zn 206.200</del> | 2383299.6            | 47.96      | 0.114    | mg/L        |            |          |              | 0.24%  |

## Mean Data

ID: 283560

Sample Qty: 1.1200 g

Seq. No.: 106

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 74

Dilution: 1.0: 1.0

A/S Pos: 96

Date: 4/27/99

8:48:29 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030  | 2096118.6            | 0.857      | 0.0094   | mg/L        |            |          |              | 1.09% |
| Ag 328.068 | 4360.7               | 0.0467     | 0.00033  | mg/L        |            |          |              | 0.71% |
| Al 308.215 | 69411.5              | 3.003      | 0.0208   | mg/L        |            |          |              | 0.69% |

0141

|                       |            |         |              |        |
|-----------------------|------------|---------|--------------|--------|
| As 188.979            | -1185.3    | -0.0164 | 0.00399 mg/L | 24.33% |
| B 249.773             | 124389.0   | 2.508   | 0.0100 mg/L  | 0.40%  |
| 33.527                | -1616.1    | -0.0155 | 0.00049 mg/L | 3.19%  |
| L 313.107             | -9097.8    | -0.0014 | 0.00003 mg/L | 2.38%  |
| Ca 315.887            | 699398.8   | 8.910   | 0.0184 mg/L  | 0.21%  |
| Cd 226.502            | 1004.9     | 0.0127  | 0.00084 mg/L | 6.66%  |
| Co 228.616            | 4029.3     | 0.1496  | 0.00002 mg/L | 0.02%  |
| Cr 267.716            | 461576.5   | 5.139   | 0.0127 mg/L  | 0.25%  |
| <del>Cu 324.754</del> | 62382215.3 | 368.7   | 4.09 mg/L    | 1.11%  |
| <del>Fe 238.863</del> | 22239253.4 | 1515    | 19.0 mg/L    | 1.26%  |
| <del>K 404.721</del>  | Saturated  |         |              |        |
| Mg 279.079            | -2822.1    | -0.0690 | 0.00522 mg/L | 7.57%  |
| <del>Mn 257.610</del> | 7332546.8  | 21.01   | 0.224 mg/L   | 1.07%  |
| Mo 202.030            | 13722.7    | 1.305   | 0.0070 mg/L  | 0.53%  |
| <del>Na 330.237</del> | 42015.5    | 27.65   | 0.045 mg/L   | 0.16%  |
| Ni 231.604            | 138291.9   | 5.837   | 0.0215 mg/L  | 0.37%  |
| Pb 220.353            | 82693.8    | 18.52   | 0.082 mg/L   | 0.44%  |
| Sb 206.833            | 1991.9     | 0.3446  | 0.00222 mg/L | 0.65%  |
| Se 196.026            | 267.2      | 0.1229  | 0.00604 mg/L | 4.92%  |
| Sn 189.933            | 75080.1    | 19.93   | 0.075 mg/L   | 0.37%  |
| Ti 334.941            | 125128.8   | 0.2916  | 0.00038 mg/L | 0.13%  |
| Tl 190.800            | -247.9     | -0.0755 | 0.00838 mg/L | 11.09% |
| V 292.402             | 62389.4    | 0.3929  | 0.00026 mg/L | 0.07%  |
| <del>Zn 206.200</del> | 1998234.0  | 40.22   | 0.236 mg/L   | 0.59%  |

## Mean Data

ID: 283560D

Sample Qty: 1.0500 g

Seq. No.: 107

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 75

A/S Pos: 97

Dilution: 1.0: 1.0

Date: 4/27/99 8:52:49 PM

| Element               | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|-----------------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030             | 2140920.6            | 0.876      | 0.0043   | mg/L        |            |          |              | 0.49% |
| Ag 328.068            | 3418.3               | 0.0390     | 0.00052  | mg/L        |            |          |              | 1.34% |
| Al 308.215            | 69765.8              | 3.177      | 0.0088   | mg/L        |            |          |              | 0.28% |
| 88.979                | -938.4               | 0.0527     | 0.00136  | mg/L        |            |          |              | 2.58% |
| B 249.773             | 110766.0             | 2.233      | 0.0025   | mg/L        |            |          |              | 0.11% |
| Ba 233.527            | -1542.2              | -0.0145    | 0.00014  | mg/L        |            |          |              | 0.98% |
| Be 313.107            | -9283.2              | -0.0014    | 0.00001  | mg/L        |            |          |              | 1.03% |
| Ca 315.887            | 666154.3             | 8.496      | 0.0052   | mg/L        |            |          |              | 0.06% |
| Cd 226.502            | 955.1                | 0.0118     | 0.00072  | mg/L        |            |          |              | 6.11% |
| Co 228.616            | 3447.8               | 0.1313     | 0.00094  | mg/L        |            |          |              | 0.72% |
| Cr 267.716            | 429140.3             | 4.778      | 0.0034   | mg/L        |            |          |              | 0.07% |
| <del>Cu 324.754</del> | 52604767.8           | 310.9      | 1.01     | mg/L        |            |          |              | 0.33% |
| <del>Fe 238.863</del> | 20600185.9           | 1403       | 7.4      | mg/L        |            |          |              | 0.53% |
| <del>K 404.721</del>  | Saturated            |            |          |             |            |          |              |       |
| Mg 279.079            | 159.4                | 0.1521     | 0.00294  | mg/L        |            |          |              | 1.93% |
| <del>Mn 257.610</del> | 6409803.1            | 18.37      | 0.061    | mg/L        |            |          |              | 0.33% |
| Mo 202.030            | 13561.8              | 1.290      | 0.0062   | mg/L        |            |          |              | 0.48% |
| <del>Na 330.237</del> | 37671.5              | 24.24      | 0.142    | mg/L        |            |          |              | 0.59% |
| Ni 231.604            | 120475.8             | 5.084      | 0.0088   | mg/L        |            |          |              | 0.17% |
| Pb 220.353            | 70844.8              | 15.84      | 0.053    | mg/L        |            |          |              | 0.33% |
| Sb 206.833            | 2069.7               | 0.3805     | 0.00233  | mg/L        |            |          |              | 0.61% |
| Se 196.026            | 238.5                | 0.1085     | 0.00246  | mg/L        |            |          |              | 2.26% |
| Sn 189.933            | 74384.4              | 19.74      | 0.073    | mg/L        |            |          |              | 0.37% |
| Ti 334.941            | 112741.9             | 0.2630     | 0.00021  | mg/L        |            |          |              | 0.08% |
| Tl 190.800            | -229.0               | -0.0644    | 0.00160  | mg/L        |            |          |              | 2.49% |
| V 292.402             | 56365.1              | 0.3551     | 0.00036  | mg/L        |            |          |              | 0.10% |
| <del>Zn 206.200</del> | 1819942.4            | 36.64      | 0.115    | mg/L        |            |          |              | 0.31% |

## Mean Data

ID: 283560S

Sample Qty: 1.1200 g

Seq. No.: 108

Prep. Vol.: 200.0 mL

Data: Original

Sample No.: 76

A/S Pos: 98

Dilution: 1.0: 1.0

Date: 4/27/99 8:56:57 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| 1.030      | 2126508.3            | 0.870      | 0.0031   | mg/L        |            |          |              | 0.35%  |
| 328.068    | 7883.2               | 0.0754     | 0.00017  | mg/L        |            |          |              | 0.23%  |
| Al 308.215 | 98351.2              | 5.354      | 0.0030   | mg/L        |            |          |              | 0.06%  |
| As 188.979 | -845.6               | 0.0997     | 0.01424  | mg/L        |            |          |              | 14.29% |
| B 249.773  | 159699.0             | 3.220      | 0.0095   | mg/L        |            |          |              | 0.30%  |
| Ba 233.527 | 155686.7             | 2.040      | 0.0027   | mg/L        |            |          |              | 0.13%  |

C142

|                       |            |        |              |       |
|-----------------------|------------|--------|--------------|-------|
| Be 313.107            | 107381.9   | 0.0438 | 0.00001 mg/L | 0.02% |
| Ca 315.887            | 845585.8   | 10.73  | 0.015 mg/L   | 0.14% |
| C 26.502              | 3673.4     | 0.0588 | 0.00054 mg/L | 0.91% |
| C 228.616             | 19216.8    | 0.6282 | 0.00037 mg/L | 0.06% |
| Cr 267.716            | 446835.5   | 4.975  | 0.0058 mg/L  | 0.12% |
| <del>Ca 324.754</del> | 48026442.4 | 283.9  | 1.07 mg/L    | 0.38% |
| <del>Fe 238.863</del> | 21002861.3 | 1431   | 6.0 mg/L     | 0.42% |
| <del>K 404.721</del>  | Saturated  |        |              |       |
| Mg 279.079            | 23831.3    | 1.907  | 0.0058 mg/L  | 0.31% |
| <del>Mn 257.610</del> | 6611856.5  | 18.94  | 0.056 mg/L   | 0.30% |
| Mo 202.030            | 18179.6    | 1.729  | 0.0018 mg/L  | 0.10% |
| <del>Na 330.237</del> | 47501.9    | 41.47  | 0.115 mg/L   | 0.28% |
| Ni 231.604            | 158686.2   | 6.698  | 0.0099 mg/L  | 0.15% |
| Pb 220.353            | 64989.6    | 14.51  | 0.033 mg/L   | 0.23% |
| Sb 206.833            | 2640.6     | 0.5517 | 0.01419 mg/L | 2.57% |
| Se 196.026            | 259.8      | 0.1134 | 0.00299 mg/L | 2.64% |
| Sn 189.933            | 67212.7    | 17.85  | 0.052 mg/L   | 0.29% |
| Ti 334.941            | 296017.1   | 0.6865 | 0.00023 mg/L | 0.03% |
| Tl 190.800            | 1752.1     | 1.881  | 0.0160 mg/L  | 0.85% |
| V 292.402             | 133333.6   | 0.8379 | 0.00011 mg/L | 0.01% |
| <del>Zn 206.200</del> | 1759604.0  | 35.42  | 0.121 mg/L   | 0.34% |

## Mean Data

ID: 999991      Seq. No.: 109      Sample No.: 77      A/S Pos: 99  
Sample Qty: 1.0000 g      Prep. Vol.: 200.0 mL      Dilution: 1.0: 1.0  
Data: Original      Date: 4/27/99      9:00:34 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2348048.0            | 0.961      | 0.0088   | mg/L        |            |          |              | 0.92%   |
| Ag 328.068 | -1278.9              | 0.0007     | 0.00043  | mg/L        |            |          |              | 61.93%  |
| Al 308.215 | 4685.6               | -0.0111    | 0.00356  | mg/L        |            |          |              | 31.89%  |
| As 188.979 | -79.1                | -0.0008    | 0.00274  | mg/L        |            |          |              | 341.28% |
| B 249.773  | -258.9               | -0.0043    | 0.00090  | mg/L        |            |          |              | 21.26%  |
| Ba 233.527 | -505.3               | -0.0010    | 0.00028  | mg/L        |            |          |              | 28.27%  |
| C 313.107  | -5540.5              | 0.0000     | 0.00002  | mg/L        |            |          |              | 464.27% |
| C 315.887  | -13183.8             | 0.0516     | 0.00002  | mg/L        |            |          |              | 0.03%   |
| Cd 226.502 | 284.0                | 0.0002     | 0.00003  | mg/L        |            |          |              | 12.89%  |
| Co 228.616 | -729.8               | -0.0003    | 0.00037  | mg/L        |            |          |              | 109.62% |
| Cr 267.716 | -439.0               | 0.0013     | 0.00007  | mg/L        |            |          |              | 5.58%   |
| Cu 324.754 | 150136.3             | 0.8769     | 0.05057  | mg/L        |            |          |              | 5.77%   |
| Fe 238.863 | 6036.5               | 0.4459     | 0.02504  | mg/L        |            |          |              | 5.62%   |
| K 404.721  | 12234.9              | -8.166     | 0.6448   | mg/L        |            |          |              | 7.90%   |
| Mg 279.079 | -1928.2              | -0.0027    | 0.00122  | mg/L        |            |          |              | 45.11%  |
| Mn 257.610 | 1764.2               | 0.0046     | 0.00025  | mg/L        |            |          |              | 5.45%   |
| Mo 202.030 | 26.1                 | 0.0017     | 0.00008  | mg/L        |            |          |              | 4.33%   |
| Na 330.237 | 167.1                | 0.4875     | 0.18901  | mg/L        |            |          |              | 38.77%  |
| Ni 231.604 | 145.3                | 0.0009     | 0.00029  | mg/L        |            |          |              | 31.67%  |
| Pb 220.353 | 199.3                | 0.0081     | 0.00166  | mg/L        |            |          |              | 20.43%  |
| Sb 206.833 | 282.1                | -0.0015    | 0.00107  | mg/L        |            |          |              | 70.65%  |
| Se 196.026 | 54.4                 | 0.0023     | 0.00039  | mg/L        |            |          |              | 17.16%  |
| Sn 189.933 | -44.3                | 0.0366     | 0.00091  | mg/L        |            |          |              | 2.48%   |
| Ti 334.941 | -1012.7              | 0.0001     | 0.00003  | mg/L        |            |          |              | 20.76%  |
| Tl 190.800 | -65.7                | 0.0033     | 0.00037  | mg/L        |            |          |              | 11.05%  |
| V 292.402  | -252.3               | -0.0001    | 0.00016  | mg/L        |            |          |              | 170.58% |
| Zn 206.200 | 15869.7              | 0.3250     | 0.04430  | mg/L        |            |          |              | 13.63%  |

## Mean Data

ID: CCV      Seq. No.: 110      Sample No.: 8      A/S Pos: 4  
Sample Qty: 1.0000 g      Prep. Vol.: 1.0 L      Dilution: 1.0: 1.0  
Data: Original      Date: 4/27/99      9:04:05 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030  | 2240214.5            | 0.916      | 0.0029   | mg/L        |            |          |              | 0.32% |
| Ag 328.068 | 58303.1              | 0.4863     | 0.00033  | mg/L        |            |          |              | 0.07% |
| Al 308.215 | 126666.7             | 9.431      | 0.0069   | mg/L        |            |          |              | 0.07% |
| As 188.979 | 2250.8               | 0.9545     | 0.00985  | mg/L        |            |          |              | 1.03% |
| B 249.773  | 120701.3             | 2.434      | 0.0155   | mg/L        |            |          |              | 0.64% |
| Ba 233.527 | 778134.2             | 10.17      | 0.011    | mg/L        |            |          |              | 0.11% |
| Be 313.107 | 633302.0             | 0.2476     | 0.00024  | mg/L        |            |          |              | 0.10% |
| Ca 315.887 | 2060960.1            | 25.83      | 0.022    | mg/L        |            |          |              | 0.08% |
| Cd 226.502 | 29475.1              | 0.5052     | 0.00104  | mg/L        |            |          |              | 0.21% |

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|                                                                             |           |        |              |  |       |
|-----------------------------------------------------------------------------|-----------|--------|--------------|--|-------|
| Co 228.616                                                                  | 80132.4   | 2.548  | 0.0009 mg/L  |  | 0.04% |
| Cr 267.716                                                                  | 42544.6   | 0.4793 | 0.00052 mg/L |  | 0.11% |
| 324.754                                                                     | 318960.8  | 1.874  | 0.0665 mg/L  |  | 3.55% |
| exceeds upper limit for Cu 324.754 Recovery = 149.93% Action = Continue     |           |        |              |  |       |
| Fe 238.863                                                                  | 76752.1   | 5.262  | 0.0167 mg/L  |  | 0.32% |
| K 404.721                                                                   | 14650.1   | 16.17  | 0.083 mg/L   |  | 0.51% |
| *QC exceeds lower limit for K 404.721 Recovery = 64.68% Action = Continue   |           |        |              |  |       |
| Mg 279.079                                                                  | 324643.2  | 24.21  | 0.029 mg/L   |  | 0.12% |
| Mn 257.610                                                                  | 247055.1  | 0.7075 | 0.00019 mg/L |  | 0.03% |
| Mo 202.030                                                                  | 25656.9   | 2.440  | 0.0148 mg/L  |  | 0.61% |
| Na 330.237                                                                  | 14000.0   | 22.55  | 0.118 mg/L   |  | 0.52% |
| Ni 231.604                                                                  | 47270.6   | 1.992  | 0.0014 mg/L  |  | 0.07% |
| Pb 220.353                                                                  | 2362.7    | 0.5019 | 0.00379 mg/L |  | 0.75% |
| Sb 206.833                                                                  | 18256.0   | 5.354  | 0.0273 mg/L  |  | 0.51% |
| Se 196.026                                                                  | 1502.9    | 0.4712 | 0.00307 mg/L |  | 0.65% |
| Sn 189.933                                                                  | 18808.8   | 5.029  | 0.0219 mg/L  |  | 0.43% |
| Ti 334.941                                                                  | 1057805.9 | 2.447  | 0.0005 mg/L  |  | 0.02% |
| Tl 190.800                                                                  | 881.7     | 1.009  | 0.0034 mg/L  |  | 0.33% |
| V 292.402                                                                   | 388061.2  | 2.436  | 0.0029 mg/L  |  | 0.12% |
| Zn 206.200                                                                  | 57664.6   | 1.166  | 0.0113 mg/L  |  | 0.97% |
| *QC exceeds upper limit for Zn 206.200 Recovery = 116.59% Action = Continue |           |        |              |  |       |

## Mean Data

ID: CCB Seq. No.: 111 Sample No.: 9 A/S Pos: 5  
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0  
Data: Original Date: 4/27/99 9:07:33 PM

| Element                                                  | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|----------------------------------------------------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030                                                | 2307576.8            | 0.944      | 0.0011   | mg/L        |            |          |              | 0.12%   |
| Ag 328.068                                               | -1232.4              | 0.0011     | 0.00004  | mg/L        |            |          |              | 4.11%   |
| Al 308.215                                               | 4727.8               | -0.0079    | 0.00253  | mg/L        |            |          |              | 32.13%  |
| As 188.979                                               | -80.9                | -0.0015    | 0.00367  | mg/L        |            |          |              | 241.67% |
| B 249.773                                                | 205.6                | 0.0051     | 0.00230  | mg/L        |            |          |              | 44.97%  |
| Ba 233.527                                               | -439.3               | -0.0001    | 0.00016  | mg/L        |            |          |              | 117.42% |
| 313.107                                                  | -5533.0              | 0.0000     | 0.00000  | mg/L        |            |          |              | 47.46%  |
| 315.887                                                  | -17658.8             | -0.0041    | 0.00152  | mg/L        |            |          |              | 37.44%  |
| Cd 226.502                                               | 284.3                | 0.0002     | 0.00002  | mg/L        |            |          |              | 7.41%   |
| Co 228.616                                               | -747.4               | -0.0009    | 0.00020  | mg/L        |            |          |              | 22.39%  |
| Cr 267.716                                               | -508.8               | 0.0005     | 0.00003  | mg/L        |            |          |              | 6.24%   |
| Cu 324.754                                               | 113769.1             | 0.6621     | 0.01950  | mg/L        |            |          |              | 2.95%   |
| *QC exceeds upper limit for Cu 324.754 Action = Continue |                      |            |          |             |            |          |              |         |
| Fe 238.863                                               | 2311.5               | 0.1921     | 0.00593  | mg/L        |            |          |              | 3.09%   |
| *QC exceeds upper limit for Fe 238.863 Action = Continue |                      |            |          |             |            |          |              |         |
| K 404.721                                                | 12549.3              | -4.998     | 0.8543   | mg/L        |            |          |              | 17.09%  |
| *QC exceeds lower limit for K 404.721 Action = Continue  |                      |            |          |             |            |          |              |         |
| Mg 279.079                                               | -1939.3              | -0.0035    | 0.00084  | mg/L        |            |          |              | 23.76%  |
| Mn 257.610                                               | 1035.5               | 0.0026     | 0.00009  | mg/L        |            |          |              | 3.48%   |
| Mo 202.030                                               | 26.1                 | 0.0017     | 0.00011  | mg/L        |            |          |              | 6.08%   |
| Na 330.237                                               | -9.6                 | 0.1999     | 0.14197  | mg/L        |            |          |              | 71.02%  |
| Ni 231.604                                               | 136.1                | 0.0005     | 0.00033  | mg/L        |            |          |              | 64.32%  |
| Pb 220.353                                               | 187.6                | 0.0055     | 0.00033  | mg/L        |            |          |              | 5.98%   |
| *QC exceeds upper limit for Pb 220.353 Action = Continue |                      |            |          |             |            |          |              |         |
| Sb 206.833                                               | 294.0                | 0.0020     | 0.00010  | mg/L        |            |          |              | 4.92%   |
| Se 196.026                                               | 60.1                 | 0.0042     | 0.00103  | mg/L        |            |          |              | 24.77%  |
| Sn 189.933                                               | -115.5               | 0.0177     | 0.00270  | mg/L        |            |          |              | 15.25%  |
| Ti 334.941                                               | -908.2               | 0.0004     | 0.00007  | mg/L        |            |          |              | 17.42%  |
| Tl 190.800                                               | -70.3                | -0.0011    | 0.00371  | mg/L        |            |          |              | 338.64% |
| V 292.402                                                | -243.4               | 0.0000     | 0.00008  | mg/L        |            |          |              | 205.69% |
| Zn 206.200                                               | 4901.2               | 0.1043     | 0.00742  | mg/L        |            |          |              | 7.12%   |
| *QC exceeds upper limit for Zn 206.200 Action = Continue |                      |            |          |             |            |          |              |         |

## Mean Data

ID: 283560SF Seq. No.: 112 Sample No.: 78 A/S Pos: 100  
Sample Qty: 1.1100 g Prep. Vol.: 200.0 mL Dilution: 1.0: 1.0  
Data: Original Date: 4/27/99 9:11:33 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030  | 2092249.6            | 0.856      | 0.0014   | mg/L        |            |          |              | 0.16%  |
| Ag 328.068 | 2053.7               | 0.0279     | 0.00022  | mg/L        |            |          |              | 0.78%  |
| Al 308.215 | 68673.3              | 2.898      | 0.0044   | mg/L        |            |          |              | 0.15%  |
| As 188.979 | -985.6               | 0.0777     | 0.00779  | mg/L        |            |          |              | 10.02% |

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|            |            |         |              |        |
|------------|------------|---------|--------------|--------|
| B 249.773  | 131104.4   | 2.643   | 0.0057 mg/L  | 0.22%  |
| Ba 233.527 | -1790.7    | -0.0178 | 0.00107 mg/L | 5.99%  |
| Bi 313.107 | -9954.6    | -0.0017 | 0.00001 mg/L | 0.58%  |
| Bi 315.887 | 640497.3   | 8.177   | 0.0138 mg/L  | 0.17%  |
| Cd 226.502 | 1096.6     | 0.0143  | 0.00003 mg/L | 0.21%  |
| Co 228.616 | 3768.2     | 0.1414  | 0.00034 mg/L | 0.24%  |
| Cr 267.716 | 489517.4   | 5.450   | 0.0107 mg/L  | 0.20%  |
| Cu 324.754 | 54319272.1 | 321.1   | 0.03 mg/L    | 0.01%  |
| Fe 238.863 | 22768392.1 | 1551    | 2.3 mg/L     | 0.15%  |
| K 404.721  | Saturated  |         |              |        |
| Mg 279.079 | -4524.0    | -0.1952 | 0.00348 mg/L | 1.78%  |
| Mn 257.610 | 7555436.7  | 21.65   | 0.032 mg/L   | 0.15%  |
| Mo 202.030 | 15623.4    | 1.486   | 0.0032 mg/L  | 0.21%  |
| Na 330.237 | 36506.7    | 23.37   | 0.206 mg/L   | 0.88%  |
| Ni 231.604 | 130449.5   | 5.506   | 0.0055 mg/L  | 0.10%  |
| Pb 220.353 | 70871.5    | 15.83   | 0.040 mg/L   | 0.25%  |
| Sb 206.833 | 2351.5     | 0.4485  | 0.00135 mg/L | 0.30%  |
| Se 196.026 | 306.7      | 0.1295  | 0.00065 mg/L | 0.50%  |
| Sn 189.933 | 75763.2    | 20.11   | 0.067 mg/L   | 0.33%  |
| Ti 334.941 | 126475.1   | 0.2947  | 0.00021 mg/L | 0.07%  |
| Tl 190.800 | -190.1     | -0.0170 | 0.00561 mg/L | 32.94% |
| V 292.402  | 65022.0    | 0.4094  | 0.00078 mg/L | 0.19%  |
| Zn 206.200 | 1769834.3  | 35.63   | 0.154 mg/L   | 0.43%  |

## Mean Data

|                      |                      |                |              |
|----------------------|----------------------|----------------|--------------|
| ID: 999992           | Seq. No.: 113        | Sample No.: 79 | A/S Pos: 101 |
| Sample Qty: 1.0000 g | Prep. Vol.: 200.0 mL | Dilution: 1.0: | 1.0          |
|                      | Data: Original       | Date: 4/27/99  | 9:15:25 PM   |

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2377533.7            | 0.973      | 0.0058   | mg/L        |            |          |              | 0.60%   |
| Ag 328.068 | -1283.5              | 0.0007     | 0.00021  | mg/L        |            |          |              | 31.54%  |
| Al 308.215 | 4615.9               | -0.0165    | 0.00034  | mg/L        |            |          |              | 2.03%   |
| As 188.979 | -80.7                | -0.0015    | 0.00076  | mg/L        |            |          |              | 52.13%  |
| As 19.773  | -421.9               | -0.0075    | 0.00032  | mg/L        |            |          |              | 4.26%   |
| Bi 233.527 | -506.8               | -0.0010    | 0.00010  | mg/L        |            |          |              | 10.13%  |
| Be 313.107 | -5496.6              | 0.0000     | 0.00001  | mg/L        |            |          |              | 50.83%  |
| Ca 315.887 | -13255.2             | 0.0507     | 0.00233  | mg/L        |            |          |              | 4.60%   |
| Cd 226.502 | 274.6                | 0.0000     | 0.00002  | mg/L        |            |          |              | 48.59%  |
| Co 228.616 | -735.8               | -0.0005    | 0.00043  | mg/L        |            |          |              | 83.16%  |
| Cr 267.716 | -462.1               | 0.0010     | 0.00036  | mg/L        |            |          |              | 33.92%  |
| Cu 324.754 | 104022.7             | 0.6045     | 0.05064  | mg/L        |            |          |              | 8.38%   |
| Fe 238.863 | 4849.0               | 0.3650     | 0.03610  | mg/L        |            |          |              | 9.89%   |
| K 404.721  | 12101.2              | -9.513     | 0.7545   | mg/L        |            |          |              | 7.93%   |
| Mg 279.079 | -1925.9              | -0.0025    | 0.00164  | mg/L        |            |          |              | 64.54%  |
| Mn 257.610 | 1468.5               | 0.0038     | 0.00030  | mg/L        |            |          |              | 7.99%   |
| Mo 202.030 | 21.6                 | 0.0013     | 0.00004  | mg/L        |            |          |              | 2.84%   |
| Na 330.237 | 8.1                  | 0.2286     | 0.11163  | mg/L        |            |          |              | 48.83%  |
| Ni 231.604 | 133.9                | 0.0004     | 0.00003  | mg/L        |            |          |              | 6.90%   |
| Pb 220.353 | 186.0                | 0.0051     | 0.00100  | mg/L        |            |          |              | 19.46%  |
| Sb 206.833 | 283.3                | -0.0012    | 0.00003  | mg/L        |            |          |              | 2.67%   |
| Se 196.026 | 59.4                 | 0.0039     | 0.00136  | mg/L        |            |          |              | 34.70%  |
| Sn 189.933 | -83.9                | 0.0261     | 0.00228  | mg/L        |            |          |              | 8.76%   |
| Ti 334.941 | -1026.1              | 0.0001     | 0.00010  | mg/L        |            |          |              | 87.75%  |
| Tl 190.800 | -69.9                | -0.0008    | 0.00419  | mg/L        |            |          |              | 537.00% |
| V 292.402  | -261.6               | -0.0002    | 0.00013  | mg/L        |            |          |              | 83.44%  |
| Zn 206.200 | 8535.4               | 0.1774     | 0.02328  | mg/L        |            |          |              | 13.12%  |

## Mean Data

|                      |                   |                |            |
|----------------------|-------------------|----------------|------------|
| ID: CRI              | Seq. No.: 114     | Sample No.: 5  | A/S Pos: 6 |
| Sample Qty: 1.0000 g | Prep. Vol.: 1.0 L | Dilution: 1.0: | 1.0        |
|                      | Data: Original    | Date: 4/27/99  | 9:18:54 PM |

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2250656.1            | 0.921      | 0.0019   | mg/L        |            |          |              | 0.21%   |
| Y 328.068  | 1187.7               | 0.0208     | 0.00008  | mg/L        |            |          |              | 0.38%   |
| Y 308.215  | 4849.5               | 0.0015     | 0.01056  | mg/L        |            |          |              | 688.21% |
| As 188.979 | -35.8                | 0.0170     | 0.00035  | mg/L        |            |          |              | 2.05%   |
| B 249.773  | -489.3               | -0.0089    | 0.00033  | mg/L        |            |          |              | 3.71%   |
| Ba 233.527 | -549.2               | -0.0016    | 0.00001  | mg/L        |            |          |              | 0.37%   |
| Be 313.107 | 20673.0              | 0.0102     | 0.00006  | mg/L        |            |          |              | 0.61%   |

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|                                                                              |          |         |              |         |
|------------------------------------------------------------------------------|----------|---------|--------------|---------|
| Ca 315.887                                                                   | -16502.7 | 0.0103  | 0.00194 mg/L | 18.87%  |
| Cd 226.502                                                                   | 920.1    | 0.0112  | 0.00005 mg/L | 0.49%   |
| Co 228.616                                                                   | 2698.6   | 0.1077  | 0.00019 mg/L | 0.18%   |
| Cu 267.716                                                                   | 1305.3   | 0.0207  | 0.00002 mg/L | 0.08%   |
| Cu 324.754                                                                   | 127767.8 | 0.7448  | 0.01490 mg/L | 2.00%   |
| *QC exceeds upper limit for Cu 324.754 Recovery = 1489.51% Action = Continue |          |         |              |         |
| Fe 238.863                                                                   | 2716.9   | 0.2198  | 0.00395 mg/L | 1.80%   |
| K 404.721                                                                    | 12723.8  | -3.239  | 0.8427 mg/L  | 26.02%  |
| Mg 279.079                                                                   | -2032.2  | -0.0104 | 0.00003 mg/L | 0.24%   |
| Mn 257.610                                                                   | 11735.6  | 0.0332  | 0.00010 mg/L | 0.31%   |
| Mo 202.030                                                                   | 11.9     | 0.0004  | 0.00009 mg/L | 23.19%  |
| Na 330.237                                                                   | -25.7    | 0.1736  | 0.10925 mg/L | 62.93%  |
| Ni 231.604                                                                   | 2226.5   | 0.0888  | 0.00038 mg/L | 0.43%   |
| Pb 220.353                                                                   | 215.2    | 0.0117  | 0.00059 mg/L | 5.01%   |
| *QC exceeds upper limit for Pb 220.353 Recovery = 195.43% Action = Continue  |          |         |              |         |
| Sb 206.833                                                                   | 719.4    | 0.1280  | 0.00169 mg/L | 1.32%   |
| Se 196.026                                                                   | 90.8     | 0.0141  | 0.00133 mg/L | 9.44%   |
| Sn 189.933                                                                   | -176.8   | 0.0015  | 0.00034 mg/L | 23.10%  |
| Ti 334.941                                                                   | -1083.8  | 0.0000  | 0.00007 mg/L | 313.04% |
| Tl 190.800                                                                   | -55.9    | 0.0128  | 0.00206 mg/L | 16.03%  |
| V 292.402                                                                    | 15951.3  | 0.1016  | 0.00049 mg/L | 0.48%   |
| Zn 206.200                                                                   | 6648.0   | 0.1394  | 0.00797 mg/L | 5.72%   |
| *QC exceeds upper limit for Zn 206.200 Recovery = 348.52% Action = Continue  |          |         |              |         |

## Mean Data

ID: ICSA Seq. No.: 115 Sample No.: 6 A/S Pos: 7  
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0  
 Data: Original Date: 4/27/99 9:22:44 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD    |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|--------|
| Y 371.030  | 1905871.5            | 0.780      | 0.0028   | mg/L        |            |          |              | 0.37%  |
| Ag 328.068 | -2051.7              | -0.0056    | 0.00015  | mg/L        |            |          |              | 2.63%  |
| Al 308.215 | 6550083.8            | 506.4      | 0.85     | mg/L        |            |          |              | 0.17%  |
| As 188.979 | -316.1               | 0.0054     | 0.00181  | mg/L        |            |          |              | 33.26% |
| As 19.773  | 9572.5               | 0.1939     | 0.00075  | mg/L        |            |          |              | 0.39%  |
| Be 233.527 | -867.3               | -0.0057    | 0.00032  | mg/L        |            |          |              | 5.56%  |
| Be 313.107 | -6768.7              | -0.0005    | 0.00002  | mg/L        |            |          |              | 5.29%  |
| Ca 315.887 | 37994131.8           | 472.5      | 3.53     | mg/L        |            |          |              | 0.75%  |
| Cd 226.502 | 832.9                | -0.0019    | 0.00009  | mg/L        |            |          |              | 4.57%  |
| Co 228.616 | -964.3               | -0.0077    | 0.00005  | mg/L        |            |          |              | 0.61%  |
| Cr 267.716 | -1512.2              | 0.0047     | 0.00024  | mg/L        |            |          |              | 5.12%  |
| Cu 324.754 | 83635.6              | 0.5090     | 0.00889  | mg/L        |            |          |              | 1.75%  |
| Fe 238.863 | 2736439.8            | 186.4      | 0.32     | mg/L        |            |          |              | 0.17%  |
| K 404.721  | 15895.6              | 34.34      | 0.524    | mg/L        |            |          |              | 1.53%  |
| Mg 279.079 | 6794470.0            | 503.9      | 1.28     | mg/L        |            |          |              | 0.25%  |
| Mn 257.610 | 3460.9               | 0.0095     | 0.00018  | mg/L        |            |          |              | 1.86%  |
| Mo 202.030 | 46.3                 | 0.0037     | 0.00011  | mg/L        |            |          |              | 2.95%  |
| Na 330.237 | 143.9                | 0.4496     | 0.04527  | mg/L        |            |          |              | 10.07% |
| Ni 231.604 | 302.1                | 0.0075     | 0.00010  | mg/L        |            |          |              | 1.33%  |
| Pb 220.353 | 317.1                | 0.0371     | 0.00094  | mg/L        |            |          |              | 2.54%  |
| Sb 206.833 | 988.0                | 0.0125     | 0.00060  | mg/L        |            |          |              | 4.80%  |
| Se 196.026 | 144.2                | -0.0046    | 0.00254  | mg/L        |            |          |              | 55.35% |
| Sn 189.933 | 1002.3               | 0.3137     | 0.00455  | mg/L        |            |          |              | 1.45%  |
| Ti 334.941 | -11.9                | 0.0025     | 0.00029  | mg/L        |            |          |              | 11.98% |
| Tl 190.800 | -208.3               | -0.0431    | 0.00483  | mg/L        |            |          |              | 11.20% |
| V 292.402  | 2517.9               | 0.0173     | 0.00008  | mg/L        |            |          |              | 0.48%  |
| Zn 206.200 | 6404.6               | 0.1132     | 0.02655  | mg/L        |            |          |              | 23.46% |

## Mean Data

ID: ICSAB Seq. No.: 116 Sample No.: 7 A/S Pos: 8  
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0  
 Data: Original Date: 4/27/99 9:26:51 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 1913792.8            | 0.783      | 0.0070   | mg/L        |            |          |              | 0.90%   |
| Y 328.068  | 128478.3             | 1.058      | 0.0199   | mg/L        |            |          |              | 1.88%   |
| Al 308.215 | 6503296.1            | 502.8      | 0.16     | mg/L        |            |          |              | 0.03%   |
| As 188.979 | -327.0               | 0.0002     | 0.00312  | mg/L        |            |          |              | >999.9% |
| B 249.773  | 9346.7               | 0.1893     | 0.00427  | mg/L        |            |          |              | 2.26%   |
| Ba 233.527 | 40514.5              | 0.5349     | 0.00447  | mg/L        |            |          |              | 0.84%   |
| Be 313.107 | 1334664.9            | 0.5194     | 0.00041  | mg/L        |            |          |              | 0.08%   |

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|                                                                             |            |         |              |        |
|-----------------------------------------------------------------------------|------------|---------|--------------|--------|
| Ca 315.887                                                                  | 37836406.8 | 470.6   | 2.16 mg/L    | 0.46%  |
| Cd 226.502                                                                  | 58499.3    | 0.9958  | 0.01963 mg/L | 1.97%  |
| Co 228.616                                                                  | 14852.7    | 0.4907  | 0.00377 mg/L | 0.77%  |
| Cu 267.716                                                                  | 42206.5    | 0.4907  | 0.00874 mg/L | 1.78%  |
| Cu 324.754                                                                  | 161092.5   | 0.9663  | 0.00476 mg/L | 0.49%  |
| *QC exceeds upper limit for Cu 324.754 Recovery = 193.26% Action = Continue |            |         |              |        |
| Fe 238.863                                                                  | 2716962.7  | 185.1   | 0.37 mg/L    | 0.20%  |
| K 404.721                                                                   | 16199.9    | 37.35   | 3.050 mg/L   | 8.16%  |
| Mg 279.079                                                                  | 6759573.0  | 501.3   | 1.27 mg/L    | 0.25%  |
| Mn 257.610                                                                  | 173036.1   | 0.4954  | 0.00822 mg/L | 1.66%  |
| Mo 202.030                                                                  | 58.4       | 0.0048  | 0.00035 mg/L | 7.23%  |
| Na 330.237                                                                  | 1096.7     | 0.9752  | 0.02055 mg/L | 2.11%  |
| Ni 231.604                                                                  | 23073.2    | 0.9695  | 0.00771 mg/L | 0.80%  |
| Pb 220.353                                                                  | 4711.6     | 1.034   | 0.0095 mg/L  | 0.92%  |
| Sb 206.833                                                                  | 989.1      | 0.0142  | 0.00214 mg/L | 15.03% |
| Se 196.026                                                                  | 148.3      | -0.0030 | 0.00214 mg/L | 70.63% |
| Sn 189.933                                                                  | 977.9      | 0.3072  | 0.00065 mg/L | 0.21%  |
| Ti 334.941                                                                  | 359.5      | 0.0033  | 0.00001 mg/L | 0.22%  |
| Tl 190.800                                                                  | -219.2     | -0.0422 | 0.00238 mg/L | 5.65%  |
| V 292.402                                                                   | 82601.6    | 0.5197  | 0.00973 mg/L | 1.87%  |
| Zn 206.200                                                                  | 49757.8    | 0.9856  | 0.01410 mg/L | 1.43%  |

## Mean Data

ID: CCV Seq. No.: 117 Sample No.: 8 A/S Pos: 4  
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0  
Data: Original Date: 4/27/99 9:30:41 PM

| Element                                                                     | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD   |
|-----------------------------------------------------------------------------|----------------------|------------|----------|-------------|------------|----------|--------------|-------|
| Y 371.030                                                                   | 2234779.6            | 0.914      | 0.0062   | mg/L        |            |          |              | 0.68% |
| Ag 328.068                                                                  | 58595.7              | 0.4887     | 0.00060  | mg/L        |            |          |              | 0.12% |
| Al 308.215                                                                  | 127577.5             | 9.501      | 0.0134   | mg/L        |            |          |              | 0.14% |
| As 188.979                                                                  | 2262.5               | 0.9592     | 0.00324  | mg/L        |            |          |              | 0.34% |
| B 249.773                                                                   | 120631.9             | 2.432      | 0.0157   | mg/L        |            |          |              | 0.65% |
| Ba 233.527                                                                  | 780938.4             | 10.21      | 0.002    | mg/L        |            |          |              | 0.02% |
| Be 313.107                                                                  | 635670.1             | 0.2485     | 0.00004  | mg/L        |            |          |              | 0.02% |
| Ca 315.887                                                                  | 2069213.4            | 25.94      | 0.002    | mg/L        |            |          |              | 0.01% |
| Cd 226.502                                                                  | 29706.4              | 0.5092     | 0.00053  | mg/L        |            |          |              | 0.10% |
| Co 228.616                                                                  | 80570.3              | 2.561      | 0.0014   | mg/L        |            |          |              | 0.05% |
| Cr 267.716                                                                  | 42604.4              | 0.4800     | 0.00020  | mg/L        |            |          |              | 0.04% |
| Cu 324.754                                                                  | 271198.2             | 1.592      | 0.0127   | mg/L        |            |          |              | 0.80% |
| *QC exceeds upper limit for Cu 324.754 Recovery = 127.36% Action = Continue |                      |            |          |             |            |          |              |       |
| Fe 238.863                                                                  | 74502.2              | 5.109      | 0.0107   | mg/L        |            |          |              | 0.21% |
| K 404.721                                                                   | 14795.5              | 17.64      | 0.621    | mg/L        |            |          |              | 3.52% |
| *QC exceeds lower limit for K 404.721 Recovery = 70.54% Action = Continue   |                      |            |          |             |            |          |              |       |
| Mg 279.079                                                                  | 326036.4             | 24.31      | 0.017    | mg/L        |            |          |              | 0.07% |
| Mn 257.610                                                                  | 245271.0             | 0.7024     | 0.00075  | mg/L        |            |          |              | 0.11% |
| Mo 202.030                                                                  | 25845.6              | 2.458      | 0.0046   | mg/L        |            |          |              | 0.19% |
| Na 330.237                                                                  | 13900.3              | 22.55      | 0.082    | mg/L        |            |          |              | 0.36% |
| Ni 231.604                                                                  | 47446.1              | 1.999      | 0.0029   | mg/L        |            |          |              | 0.14% |
| Pb 220.353                                                                  | 2365.7               | 0.5026     | 0.00043  | mg/L        |            |          |              | 0.09% |
| Sb 206.833                                                                  | 18361.1              | 5.385      | 0.0156   | mg/L        |            |          |              | 0.29% |
| Se 196.026                                                                  | 1512.3               | 0.4743     | 0.00143  | mg/L        |            |          |              | 0.30% |
| Sn 189.933                                                                  | 18749.6              | 5.013      | 0.0099   | mg/L        |            |          |              | 0.20% |
| Ti 334.941                                                                  | 1054944.3            | 2.440      | 0.0000   | mg/L        |            |          |              | 0.00% |
| Tl 190.800                                                                  | 875.7                | 1.004      | 0.0101   | mg/L        |            |          |              | 1.00% |
| V 292.402                                                                   | 388727.0             | 2.440      | 0.0021   | mg/L        |            |          |              | 0.09% |
| Zn 206.200                                                                  | 49867.6              | 1.009      | 0.0017   | mg/L        |            |          |              | 0.17% |

## Mean Data

ID: CCB Seq. No.: 118 Sample No.: 9 A/S Pos: 5  
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0  
Data: Original Date: 4/27/99 9:34:08 PM

| Element    | Mean Corr. Intensity | Mean Conc. | Std.Dev. | Calib Units | Mean Conc. | Std.Dev. | Sample Units | RSD     |
|------------|----------------------|------------|----------|-------------|------------|----------|--------------|---------|
| Y 371.030  | 2307755.8            | 0.944      | 0.0034   | mg/L        |            |          |              | 0.36%   |
| Ag 328.068 | -1210.5              | 0.0013     | 0.00020  | mg/L        |            |          |              | 15.73%  |
| Al 308.215 | 5072.0               | 0.0188     | 0.00930  | mg/L        |            |          |              | 49.56%  |
| As 188.979 | -83.7                | -0.0027    | 0.00136  | mg/L        |            |          |              | 50.81%  |
| B 249.773  | 97.6                 | 0.0029     | 0.00255  | mg/L        |            |          |              | 86.92%  |
| Ba 233.527 | -425.4               | 0.0000     | 0.00023  | mg/L        |            |          |              | 561.33% |
| Be 313.107 | -5458.7              | 0.0000     | 0.00000  | mg/L        |            |          |              | 9.81%   |

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|                                                          |          |         |              |         |
|----------------------------------------------------------|----------|---------|--------------|---------|
| Ca 315.887                                               | -14773.1 | 0.0318  | 0.00308 mg/L | 9.67%   |
| Cd 226.502                                               | 292.4    | 0.0003  | 0.00000 mg/L | 1.36%   |
| Co 28.616                                                | -746.9   | -0.0009 | 0.00028 mg/L | 32.23%  |
| Cu 267.716                                               | -549.7   | 0.0001  | 0.00006 mg/L | 76.76%  |
| Cu 324.754                                               | 59534.0  | 0.3417  | 0.02193 mg/L | 6.42%   |
| *QC exceeds upper limit for Cu 324.754 Action = Continue |          |         |              |         |
| Fe 238.863                                               | 641.0    | 0.0784  | 0.00140 mg/L | 1.79%   |
| K 404.721                                                | 12555.4  | -4.937  | 0.2386 mg/L  | 4.83%   |
| *QC exceeds lower limit for K 404.721 Action = Continue  |          |         |              |         |
| Mg 279.079                                               | -1505.5  | 0.0286  | 0.00029 mg/L | 1.01%   |
| Mn 257.610                                               | 646.8    | 0.0014  | 0.00004 mg/L | 2.61%   |
| Mo 202.030                                               | 28.4     | 0.0020  | 0.00043 mg/L | 22.13%  |
| Na 330.237                                               | -107.0   | 0.0413  | 0.10228 mg/L | 247.57% |
| Ni 231.604                                               | 123.6    | 0.0000  | 0.00006 mg/L | 528.50% |
| Pb 220.353                                               | 180.1    | 0.0038  | 0.00102 mg/L | 27.11%  |
| Sb 206.833                                               | 297.6    | 0.0031  | 0.00015 mg/L | 5.01%   |
| Se 196.026                                               | 55.8     | 0.0028  | 0.00339 mg/L | 122.03% |
| Sn 189.933                                               | -159.7   | 0.0060  | 0.00105 mg/L | 17.51%  |
| Ti 334.941                                               | -926.8   | 0.0003  | 0.00007 mg/L | 20.03%  |
| Tl 190.800                                               | -73.7    | -0.0044 | 0.00338 mg/L | 76.65%  |
| V 292.402                                                | -241.2   | 0.0000  | 0.00002 mg/L | 85.67%  |
| Zn 206.200                                               | 1174.8   | 0.0293  | 0.00081 mg/L | 2.76%   |
| *QC exceeds upper limit for Zn 206.200 Action = Continue |          |         |              |         |

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# Metals Cover Page

Analyst: M. Niezgoda

Date: 5/12/99

Instrument: Leeman

File Name: 12-1

Reviewed By: CK Data Entered By: CK Manager Approval: ell

| Starlims Run # | Analytes Used | Comments/<br>Problems |
|----------------|---------------|-----------------------|
|----------------|---------------|-----------------------|

|                |                    |                                                                            |
|----------------|--------------------|----------------------------------------------------------------------------|
| <u>38119</u> ✓ | <u>Cu Fe Mn Zn</u> | <u>4/14 S</u><br><i>prep. BK contaminated<br/>for Cu Fe Zn all samples</i> |
|----------------|--------------------|----------------------------------------------------------------------------|

|                |             |                                                        |
|----------------|-------------|--------------------------------------------------------|
| <u>38121</u> ✓ | <u>K Zn</u> | <u>5/14 W</u><br><i>&gt;10X prep ble<br/>OK to use</i> |
|----------------|-------------|--------------------------------------------------------|

|                |          |               |
|----------------|----------|---------------|
| <u>38122</u> ✓ | <u>K</u> | <u>5/14 S</u> |
|----------------|----------|---------------|

|                |                      |               |
|----------------|----------------------|---------------|
| <u>38123</u> ✓ | <u>Ca Fe K Na Zn</u> | <u>5/17 W</u> |
|----------------|----------------------|---------------|

38124 ✓ Ca K Na 5/15 W

Submission #'s needing PKG 5 or ASP Report

(Place check mark in space provided when copy of raw data is made.)

| Sub #         | Run<br>Copy | Stds |
|---------------|-------------|------|
| <u>04-108</u> |             | ✓    |
|               |             |      |
|               |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

| Sub # | Run<br>Copy | Stds |
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|       |             |      |
|       |             |      |
|       |             |      |

0149

IS PS3000  
10:16:43 12 May 1999

Folder: 05-12-99  
Protocol: CLP-SM

Page 1

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Standard: 1 Rep: 1 Seq: 2 10:16:43 12 May 1999 ICP

|     |       |     |             |       |         |      |  |  |
|-----|-------|-----|-------------|-------|---------|------|--|--|
| Al3 | .0000 | ppm | 8522        | 7182  | 2031    |      |  |  |
|     |       |     | Ave. Int. = | 5912  | S. D. = | 3427 |  |  |
| Ca3 | .0000 | ppm | 37347       | 35371 | 37097   |      |  |  |
|     |       |     | Ave. Int. = | 36605 | S. D. = | 1076 |  |  |
| Cu1 | .0000 | ppm | 45189       | 46922 | 42995   |      |  |  |
|     |       |     | Ave. Int. = | 45035 | S. D. = | 1968 |  |  |
| Fe2 | .0000 | ppm | 19836       | 20195 | 21379   |      |  |  |
|     |       |     | Ave. Int. = | 20470 | S. D. = | 807  |  |  |
| K 1 | .0000 | ppm | 2062        | 1915  | 1730    |      |  |  |
|     |       |     | Ave. Int. = | 1902  | S. D. = | 166  |  |  |
| Mg4 | .0000 | ppm | -1200       | -1567 | -678    |      |  |  |
|     |       |     | Ave. Int. = | -1148 | S. D. = | 447  |  |  |
| Mn1 | .0000 | ppm | 1016        | 718   | 1598    |      |  |  |
|     |       |     | Ave. Int. = | 1111  | S. D. = | 448  |  |  |
| Na2 | .0000 | ppm | 9956        | 8884  | 7168    |      |  |  |
|     |       |     | Ave. Int. = | 8669  | S. D. = | 1406 |  |  |
| Sb1 | .0000 | ppm | 12446       | 11156 | 8889    |      |  |  |
|     |       |     | Ave. Int. = | 10830 | S. D. = | 1801 |  |  |
| . 3 | .0000 | ppm | -920        | -1246 | -1468   |      |  |  |
|     |       |     | Ave. Int. = | -1211 | S. D. = | 276  |  |  |

\*\*\* Standard: 1 Rep: 2 Seq: 3 10:17:21 12 May 1999 ICP

|     |       |     |             |       |         |      |  |  |
|-----|-------|-----|-------------|-------|---------|------|--|--|
| Al3 | .0000 | ppm | 6580        | 5940  | 5092    |      |  |  |
|     |       |     | Ave. Int. = | 5871  | S. D. = | 746  |  |  |
| Ca3 | .0000 | ppm | 36979       | 38316 | 40711   |      |  |  |
|     |       |     | Ave. Int. = | 38669 | S. D. = | 1891 |  |  |
| Cu1 | .0000 | ppm | 45087       | 52831 | 57265   |      |  |  |
|     |       |     | Ave. Int. = | 51728 | S. D. = | 6164 |  |  |
| Fe2 | .0000 | ppm | 22513       | 21055 | 22949   |      |  |  |
|     |       |     | Ave. Int. = | 22172 | S. D. = | 992  |  |  |
| K 1 | .0000 | ppm | 1932        | 1875  | 1941    |      |  |  |
|     |       |     | Ave. Int. = | 1916  | S. D. = | 36   |  |  |
| Mg4 | .0000 | ppm | -1985       | -5099 | -924    |      |  |  |
|     |       |     | Ave. Int. = | -2669 | S. D. = | 2170 |  |  |
| Mn1 | .0000 | ppm | 525         | 831   | 1084    |      |  |  |
|     |       |     | Ave. Int. = | 813   | S. D. = | 280  |  |  |
| Na2 | .0000 | ppm | 10818       | 9209  | 8398    |      |  |  |
|     |       |     | Ave. Int. = | 9475  | S. D. = | 1232 |  |  |
| Sb1 | .0000 | ppm | 9256        | 10710 | 11224   |      |  |  |
|     |       |     | Ave. Int. = | 10397 | S. D. = | 1021 |  |  |
| Zn3 | .0000 | ppm | -882        | -2214 | -1768   |      |  |  |
|     |       |     | Ave. Int. = | -1621 | S. D. = | 678  |  |  |

*Michael  
Gyngel  
5/12/99*

0150

AS PS3000  
10:20:38 12 May 1999

Folder: 05-12-99  
Protocol: CLP-SM

Page 2

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Standard: 2 Rep: 1                      Seq: 4                      10:20:38 12 May 1999 ICP

|     |       |     |             |          |          |        |  |  |
|-----|-------|-----|-------------|----------|----------|--------|--|--|
| Al3 | 20.00 | ppm | 3584206     | 3497268  | 3528263  |        |  |  |
|     |       |     | Ave. Int. = | 3536579  | S. D. =  | 44062  |  |  |
| Ca3 | 100.0 | ppm | 69155159    | 68336243 | 68714261 |        |  |  |
|     |       |     | Ave. Int. = | 68735221 | S. D. =  | 409860 |  |  |
| Cu1 | 2.500 | ppm | 9282172     | 9005031  | 9090129  |        |  |  |
|     |       |     | Ave. Int. = | 9125777  | S. D. =  | 141968 |  |  |
| Fe2 | 10.00 | ppm | 6157334     | 6058484  | 6097233  |        |  |  |
|     |       |     | Ave. Int. = | 6104350  | S. D. =  | 49808  |  |  |
| K 1 | 100.0 | ppm | 99542       | 96617    | 96972    |        |  |  |
|     |       |     | Ave. Int. = | 97710    | S. D. =  | 1596   |  |  |
| Mg4 | 100.0 | ppm | 7913928     | 7801098  | 7856604  |        |  |  |
|     |       |     | Ave. Int. = | 7857210  | S. D. =  | 56417  |  |  |
| Mn1 | 1.500 | ppm | 2238597     | 2202018  | 2207977  |        |  |  |
|     |       |     | Ave. Int. = | 2216197  | S. D. =  | 19626  |  |  |
| Na2 | 100.0 | ppm | 2851149     | 2762105  | 2787452  |        |  |  |
|     |       |     | Ave. Int. = | 2800235  | S. D. =  | 45878  |  |  |
| Sb1 | 10.00 | ppm | 569913      | 554545   | 563136   |        |  |  |
|     |       |     | Ave. Int. = | 562531   | S. D. =  | 7702   |  |  |
| 3   | 2.000 | ppm | 2172895     | 2160972  | 2183138  |        |  |  |
|     |       |     | Ave. Int. = | 2172335  | S. D. =  | 11094  |  |  |

\*\*\* Standard: 2 Rep: 2                      Seq: 5                      10:21:15 12 May 1999 ICP

|     |       |     |             |          |          |        |  |  |
|-----|-------|-----|-------------|----------|----------|--------|--|--|
| Al3 | 20.00 | ppm | 3527007     | 3557177  | 3542451  |        |  |  |
|     |       |     | Ave. Int. = | 3542212  | S. D. =  | 15086  |  |  |
| Ca3 | 100.0 | ppm | 68763624    | 69010056 | 68777974 |        |  |  |
|     |       |     | Ave. Int. = | 68850551 | S. D. =  | 138321 |  |  |
| Cu1 | 2.500 | ppm | 9132830     | 9193051  | 9143114  |        |  |  |
|     |       |     | Ave. Int. = | 9156332  | S. D. =  | 32213  |  |  |
| Fe2 | 10.00 | ppm | 6106955     | 6128270  | 6114473  |        |  |  |
|     |       |     | Ave. Int. = | 6116566  | S. D. =  | 10811  |  |  |
| K 1 | 100.0 | ppm | 97743       | 98902    | 98063    |        |  |  |
|     |       |     | Ave. Int. = | 98236    | S. D. =  | 599    |  |  |
| Mg4 | 100.0 | ppm | 7843389     | 7883310  | 7860769  |        |  |  |
|     |       |     | Ave. Int. = | 7862489  | S. D. =  | 20016  |  |  |
| Mn1 | 1.500 | ppm | 2213275     | 2233179  | 2226585  |        |  |  |
|     |       |     | Ave. Int. = | 2224346  | S. D. =  | 10139  |  |  |
| Na2 | 100.0 | ppm | 2804896     | 2820664  | 2808060  |        |  |  |
|     |       |     | Ave. Int. = | 2811207  | S. D. =  | 8342   |  |  |
| Sb1 | 10.00 | ppm | 550083      | 569852   | 561403   |        |  |  |
|     |       |     | Ave. Int. = | 560446   | S. D. =  | 9919   |  |  |
| Zn3 | 2.000 | ppm | 2174226     | 2174428  | 2172882  |        |  |  |
|     |       |     | Ave. Int. = | 2173845  | S. D. =  | 840    |  |  |

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S P53000  
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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: ICV 12-1 Seq: 7 10:24:29 12 May 1999 ICP

|     |       |     |         |       |       |       |  |  |
|-----|-------|-----|---------|-------|-------|-------|--|--|
| Al3 | 9.725 | ppm | 1.533 % | 9.776 | 9.841 | 9.557 |  |  |
| Ca3 | 49.39 | ppm | .8287 % | 49.61 | 49.64 | 48.92 |  |  |
| Cu1 | 1.205 | ppm | 1.326 % | 1.210 | 1.218 | 1.187 |  |  |
| Fe2 | 4.991 | ppm | 1.057 % | 5.021 | 5.022 | 4.930 |  |  |
| K 1 | 48.78 | ppm | 1.769 % | 49.05 | 49.48 | 47.82 |  |  |
| Mg4 | 48.78 | ppm | .9135 % | 49.05 | 49.02 | 48.26 |  |  |
| Mn1 | .7513 | ppm | .9784 % | .7553 | .7559 | .7429 |  |  |
| Na2 | 50.43 | ppm | 1.398 % | 50.63 | 51.02 | 49.65 |  |  |
| Sb1 | 5.795 | ppm | 1.160 % | 5.830 | 5.837 | 5.718 |  |  |
| Zn3 | 1.038 | ppm | .5869 % | 1.041 | 1.042 | 1.031 |  |  |

\*\*\* Sample ID: ICB 12-1 Seq: 8 10:27:40 12 May 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | .0023  | L ppm | 370.6 % | .0123  | -.0040 | -.0012 |  |  |
| Ca3 | .0205  | L ppm | 61.28 % | .0082  | .0199  | .0333  |  |  |
| Cu1 | .0013  | L ppm | 89.64 % | .0021  | .0018  | -.0000 |  |  |
| Fe2 | -.0049 | L ppm | -62.05% | -.0072 | -.0062 | -.0014 |  |  |
| K 1 | .0073  | L ppm | 1338. % | -.0052 | -.0833 | .1104  |  |  |
| Mg4 | .0154  | L ppm | 170.8 % | .0044  | -.0036 | .0453  |  |  |
| Mn1 | -.0002 | L ppm | -289.1% | -.0001 | -.0007 | .0003  |  |  |
| Na2 | .0271  | L ppm | 83.40 % | .0465  | .0326  | .0022  |  |  |
| Sb1 | -.0072 | L ppm | -414.6% | .0270  | -.0208 | -.0279 |  |  |
| Zn3 | .0022  | L ppm | 18.99 % | .0023  | .0026  | .0018  |  |  |

\*\*\* Sample ID: CR11 12-1 Seq: 9 10:30:51 12 May 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | -.0048 | L ppm | -143.3% | -.0117 | .0020  | -.0046 |  |  |
| Ca3 | .0145  | L ppm | 7.643 % | .0157  | .0136  | .0141  |  |  |
| Cu1 | .0548  | ppm   | 2.574 % | .0532  | .0558  | .0554  |  |  |
| Fe2 | -.0032 | L ppm | -40.42% | -.0042 | -.0038 | -.0017 |  |  |
| K 1 | -.0399 | L ppm | -384.6% | -.0531 | -.1864 | .1198  |  |  |
| Mg4 | -.0044 | L ppm | -449.6% | .0123  | -.0264 | .0009  |  |  |
| Mn1 | .0374  | ppm   | 1.573 % | .0368  | .0374  | .0380  |  |  |
| Na2 | -.0182 | L ppm | -374.9% | -.0361 | .0573  | -.0758 |  |  |
| Sb1 | .1144  | ppm   | 27.23 % | .1025  | .1497  | .0909  |  |  |
| Zn3 | .0484  | ppm   | 1.460 % | .0477  | .0490  | .0487  |  |  |

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S PS3000  
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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: ICSAI 12-1 Seq: 11 10:34:02 12 May 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | 444.1  | ppm   | 1.245 % | 439.6  | 442.5  | 450.3  |  |  |
| Ca3 | 476.4  | ppm   | .5619 % | 474.4  | 475.3  | 479.4  |  |  |
| Cu1 | -.0010 | L ppm | -92.83% | -.0021 | -.0003 | -.0007 |  |  |
| Fe2 | 169.4  | ppm   | .8750 % | 168.2  | 168.9  | 171.1  |  |  |
| K 1 | -.0586 | L ppm | -123.9% | -.1403 | -.0345 | -.0011 |  |  |
| Mg4 | 490.6  | ppm   | .6578 % | 488.1  | 489.3  | 494.2  |  |  |
| Mn1 | -.0058 | L ppm | -17.30% | -.0066 | -.0047 | -.0063 |  |  |
| Na2 | .1869  | L ppm | 18.41 % | .1472  | .2043  | .2090  |  |  |
| Sb1 | .0223  | L ppm | 281.6 % | -.0493 | .0481  | .0681  |  |  |
| Zn3 | -.0191 | L ppm | -14.83% | -.0223 | -.0180 | -.0169 |  |  |

\*\*\* Sample ID: ICSABI 12-1 Seq: 12 10:37:14 12 May 1999 ICP

|      |       |       |         |        |       |       |  |  |
|------|-------|-------|---------|--------|-------|-------|--|--|
| Al3  | 437.6 | ppm   | 1.026 % | 442.8  | 435.2 | 434.9 |  |  |
| Ca3  | 479.9 | ppm   | .5126 % | 482.7  | 478.6 | 478.4 |  |  |
| Cu1  | .4395 | ppm   | .9831 % | .4443  | .4358 | .4385 |  |  |
| Fe2  | 169.7 | ppm   | .7047 % | 171.1  | 169.1 | 169.0 |  |  |
| K 1  | .0799 | L ppm | 253.7 % | -.1283 | .0913 | .2767 |  |  |
| Li + | 491.2 | ppm   | .5592 % | 494.4  | 489.4 | 489.9 |  |  |
| Mn1  | .4313 | ppm   | .8092 % | .4354  | .4295 | .4292 |  |  |
| Na2  | .1564 | L ppm | 21.49 % | .1190  | .1841 | .1661 |  |  |
| Sb1  | .0342 | L ppm | 39.48 % | .0322  | .0218 | .0486 |  |  |
| Zn3  | .8858 | ppm   | .5549 % | .8915  | .8825 | .8834 |  |  |

\*\*\* Sample ID: CCV 12-1 Seq: 13 10:40:25 12 May 1999 ICP

|     |       |     |         |       |       |       |  |  |
|-----|-------|-----|---------|-------|-------|-------|--|--|
| Al3 | 9.446 | ppm | .9512 % | 9.462 | 9.527 | 9.349 |  |  |
| Ca3 | 49.68 | ppm | .6775 % | 49.93 | 49.81 | 49.30 |  |  |
| Cu1 | 1.179 | ppm | .9840 % | 1.187 | 1.184 | 1.166 |  |  |
| Fe2 | 5.011 | ppm | .8508 % | 5.040 | 5.031 | 4.962 |  |  |
| K 1 | 47.52 | ppm | 1.509 % | 47.94 | 47.92 | 46.69 |  |  |
| Mg4 | 48.54 | ppm | .8289 % | 48.90 | 48.60 | 48.11 |  |  |
| Mn1 | .7483 | ppm | .6967 % | .7511 | .7515 | .7423 |  |  |
| Na2 | 49.19 | ppm | .7876 % | 49.19 | 49.57 | 48.80 |  |  |
| Sb1 | 5.628 | ppm | .2752 % | 5.646 | 5.619 | 5.619 |  |  |
| Zn3 | 1.039 | ppm | .4950 % | 1.044 | 1.039 | 1.034 |  |  |

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S P53000  
10:43:36 12 May 1999

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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: CCE 12-1 Seq: 15 10:43:36 12 May 1999 ICP

|     |        |       |         |        |        |       |  |  |
|-----|--------|-------|---------|--------|--------|-------|--|--|
| Al3 | .0461  | L ppm | 42.55 % | .0441  | .0276  | .0667 |  |  |
| Ca3 | .0679  | L ppm | 17.47 % | .0798  | .0678  | .0561 |  |  |
| Cu1 | .0023  | L ppm | 51.31 % | .0016  | .0017  | .0037 |  |  |
| Fe2 | .0303  | L ppm | 11.27 % | .0342  | .0285  | .0281 |  |  |
| K 1 | .1205  | L ppm | 122.9 % | .0208  | .2906  | .0500 |  |  |
| Mg4 | .0620  | L ppm | 16.17 % | .0736  | .0573  | .0553 |  |  |
| Mn1 | .0001  | L ppm | 123.1 % | -.0000 | .0002  | .0001 |  |  |
| Na2 | -.0667 | L ppm | -107.3% | -.1138 | -.1021 | .0157 |  |  |
| Sb1 | -.0091 | L ppm | -410.1% | -.0114 | -.0452 | .0293 |  |  |
| Zn3 | .0036  | L ppm | 31.39 % | .0030  | .0028  | .0048 |  |  |

\*\*\* Sample ID: PBS 4-14 12-1 Seq: 16 10:46:48 12 May 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
|     |        |       | 1.00    |        |        |        |  |  |
| Al3 | .0162  | L ppm | 31.72 % | .0188  | .0196  | .0103  |  |  |
| Ca3 | .0589  | L ppm | 3.930 % | .0564  | .0594  | .0609  |  |  |
| Cu1 | .0834  | ppm   | 1.497 % | .0827  | .0848  | .0825  |  |  |
| Fe2 | .3896  | ppm   | 1.285 % | .3900  | .3944  | .3844  |  |  |
| K 1 | -.0584 | L ppm | -211.9% | .0697  | -.0677 | -.1771 |  |  |
| Na2 | .0053  | L ppm | 198.3 % | .0121  | .0106  | -.0068 |  |  |
| Mn1 | .0035  | L ppm | 4.324 % | .0037  | .0035  | .0034  |  |  |
| Na2 | -.0581 | L ppm | -41.44% | -.0316 | -.0787 | -.0640 |  |  |
| Sb1 | -.0208 | L ppm | -48.15% | -.0274 | -.0093 | -.0258 |  |  |
| Zn3 | .0200  | ppm   | 12.02 % | .0172  | .0216  | .0211  |  |  |

292466

\*\*\* Sample ID: LCSS #239 12-1 Seq: 17 10:50:00 12 May 1999 ICP

|     |       |     |         |       |       |       |  |  |
|-----|-------|-----|---------|-------|-------|-------|--|--|
|     |       |     | 1.01    |       |       |       |  |  |
| Al3 | 24.58 | ppm | 1.345 % | 24.57 | 24.26 | 24.92 |  |  |
| Ca3 | 6.286 | ppm | .6134 % | 6.275 | 6.254 | 6.329 |  |  |
| Cu1 | .4859 | ppm | 1.649 % | .4828 | .4798 | .4949 |  |  |
| Fe2 | 41.97 | ppm | .9029 % | 41.90 | 41.62 | 42.37 |  |  |
| K 1 | 6.986 | ppm | 2.668 % | 6.834 | 6.930 | 7.194 |  |  |
| Mg4 | 5.469 | ppm | .3991 % | 5.446 | 5.474 | 5.489 |  |  |
| Mn1 | 1.284 | ppm | .7105 % | 1.281 | 1.278 | 1.295 |  |  |
| Na2 | 7.934 | ppm | 2.857 % | 7.967 | 7.693 | 8.142 |  |  |
| Sb1 | .1016 | ppm | 57.87 % | .0654 | .1694 | .0699 |  |  |
| Zn3 | .9942 | ppm | .5585 % | .9881 | .9958 | .9989 |  |  |

292467

C154

IS PS3000  
10:53:12 12 May 1999

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| Line                  | Conc.  | Units | SD/RSD  | 1       | 2      | 3      | 4 | 5                        |
|-----------------------|--------|-------|---------|---------|--------|--------|---|--------------------------|
| *** Sample ID: 283549 |        |       |         |         |        |        |   |                          |
|                       |        |       | 12-1    | Seq: 19 |        |        |   | 10:53:12 12 May 1999 ICP |
|                       |        |       | 1.05    | 1/100   |        |        |   |                          |
| Al3                   | .0699  | L ppm | 10.60 % | .0770   | .0706  | .0622  |   |                          |
| Ca3                   | .0589  | L ppm | 5.437 % | .0624   | .0562  | .0580  |   |                          |
| Cu1                   | 5.599  | ppm   | .2783 % | 5.581   | 5.609  | 5.607  |   |                          |
| Fe2                   | 13.75  | ppm   | .2646 % | 13.72   | 13.79  | 13.76  |   |                          |
| K 1                   | .0102  | L ppm | 2392. % | .2914   | -.1127 | -.1481 |   |                          |
| Mg4                   | .0347  | L ppm | 23.15 % | .0285   | .0319  | .0438  |   |                          |
| Mn1                   | .1200  | ppm   | 1.180 % | .1200   | .1214  | .1186  |   |                          |
| Na2                   | -.0852 | L ppm | -23.09% | -.0944  | -.0986 | -.0626 |   |                          |
| Sb1                   | .0156  | L ppm | 42.85 % | .0087   | .0220  | .0162  |   |                          |
| Zn3                   | .6488  | ppm   | .3352 % | .6463   | .6499  | .6502  |   |                          |
| *** Sample ID: 283550 |        |       |         |         |        |        |   |                          |
|                       |        |       | 12-1    | Seq: 20 |        |        |   | 10:56:24 12 May 1999 ICP |
|                       |        |       | 1.02    | 1/100   |        |        |   |                          |
| Al3                   | .1569  | ppm   | 4.848 % | .1544   | .1508  | .1654  |   |                          |
| Ca3                   | .1409  | L ppm | 1.899 % | .1439   | .1396  | .1390  |   |                          |
| Cu1                   | .4811  | ppm   | 1.436 % | .4829   | .4870  | .4735  |   |                          |
| Fe2                   | .2163  | ppm   | 1.773 % | .2204   | .2156  | .2128  |   |                          |
| K 1                   | -.0358 | L ppm | -270.9% | .0708   | -.1188 | -.0594 |   |                          |
| Mg4                   | .0690  | L ppm | 26.23 % | .0866   | .0505  | .0699  |   |                          |
| Mn1                   | .0029  | L ppm | 7.787 % | .0030   | .0026  | .0031  |   |                          |
| Na2                   | -.1259 | L ppm | -17.35% | -.1429  | -.1013 | -.1336 |   |                          |
| Sb1                   | .0038  | L ppm | 316.7 % | .0176   | -.0010 | -.0051 |   |                          |
| Zn3                   | .4120  | ppm   | .7542 % | .4100   | .4156  | .4103  |   |                          |
| *** Sample ID: 283551 |        |       |         |         |        |        |   |                          |
|                       |        |       | 12-1    | Seq: 21 |        |        |   | 10:59:37 12 May 1999 ICP |
|                       |        |       | 1.02    | 1/100   |        |        |   |                          |
| Al3                   | .0072  | L ppm | 104.0 % | .0027   | .0158  | .0030  |   |                          |
| Ca3                   | .0294  | L ppm | 3.786 % | .0288   | .0306  | .0287  |   |                          |
| Cu1                   | 8.793  | ppm   | .8075 % | 8.729   | 8.780  | 8.869  |   |                          |
| Fe2                   | 2.094  | ppm   | .4053 % | 2.090   | 2.088  | 2.104  |   |                          |
| K 1                   | .0658  | L ppm | 232.1 % | -.0835  | .2217  | .0592  |   |                          |
| Mg4                   | .0113  | L ppm | 84.67 % | .0204   | .0122  | .0013  |   |                          |
| Mn1                   | .0166  | ppm   | 6.291 % | .0158   | .0161  | .0178  |   |                          |
| Na2                   | -.1551 | L ppm | -41.53% | -.1893  | -.0808 | -.1951 |   |                          |
| Sb1                   | .0029  | L ppm | 330.4 % | .0113   | .0048  | -.0075 |   |                          |
| Zn3                   | 4.868  | ppm   | .2357 % | 4.855   | 4.875  | 4.875  |   |                          |

0155

11:02:49 12 May 1999

Protocol: CLP-SM

Line Conc. Units SD/RSD 1 2 3 4 5

\*\*\* Sample ID: 283552 12-1 Seq: 23 11:02:49 12 May 1999 ICP

1.05 1/100

Al3 .2038 ppm 4.270 % .1968 .2011 .2135

Ca3 .3152 L ppm 1.125 % .3192 .3136 .3127

Cu1 .1023 ppm 3.891 % .1063 .1022 .0983

Fe2 .2007 ppm .3866 % .1999 .2008 .2015

K 1 -.0560 L ppm -459.1% .1718 -.0053 -.3344

Mg4 .0704 L ppm 16.08 % .0824 .0599 .0688

Mn1 .0029 L ppm 18.13 % .0035 .0025 .0028

Na2 -.1062 L ppm -39.62% -.0765 -.1543 -.0878

Sb1 .0060 L ppm 404.7 % .0276 -.0202 .0105

Zn3 .5574 ppm .1033 % .5581 .5570 .5572

\*\*\* Sample ID: 283553 12-1 Seq: 24 11:06:01 12 May 1999 ICP

1.05 1/100

Al3 .3442 ppm 3.571 % .3532 .3492 .3302

Ca3 .7781 ppm .9297 % .7864 .7750 .7730

Cu1 2.890 ppm .4224 % 2.891 2.877 2.902

Fe2 .9506 ppm .5095 % .9557 .9499 .9461

K 1 -.1117 L ppm -71.52% -.0898 -.0450 -.2002

Li .1170 L ppm 7.067 % .1208 .1227 .1075

Mn1 .0231 ppm 1.849 % .0234 .0232 .0226

Na2 -.0212 L ppm -216.6% -.0568 .0307 -.0377

Sb1 -.0155 L ppm -210.9% .0202 -.0442 -.0227

Zn3 .4296 ppm .6376 % .4310 .4314 .4265

\*\*\* Sample ID: 283554 12-1 Seq: 25 11:09:13 12 May 1999 ICP

1.03 1/100

Al3 .0254 L ppm 45.15 % .0257 .0367 .0138

Ca3 .0426 L ppm 4.884 % .0446 .0404 .0427

Cu1 .0497 ppm 1.549 % .0493 .0492 .0505

Fe2 .0395 L ppm 5.313 % .0392 .0376 .0417

K 1 -.2159 L ppm -71.58% -.3041 -.3062 -.0375

Mg4 .0177 L ppm 47.81 % .0246 .0204 .0082

Mn1 .0005 L ppm 63.21 % .0002 .0006 .0008

Na2 -.1349 L ppm -34.77% -.0999 -.1165 -.1881

Sb1 -.0140 L ppm -64.60% -.0052 -.0135 -.0233

Zn3 .0268 ppm 2.429 % .0276 .0265 .0264

S P53000  
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| Line                  | Conc.  | Units | SD/RSD  | 1       | 2                        | 3      | 4 | 5 |
|-----------------------|--------|-------|---------|---------|--------------------------|--------|---|---|
| *** Sample ID: 283555 |        |       |         |         |                          |        |   |   |
|                       |        |       | 12-1    | Seq: 27 | 11:12:25 12 May 1999 ICP |        |   |   |
|                       |        |       | 1.07    | 1/100   |                          |        |   |   |
| Al3                   | 5.030  | ppm   | .9390 % | 4.980   | 5.036                    | 5.074  |   |   |
| Ca3                   | .0244  | L ppm | 3.463 % | .0254   | .0237                    | .0241  |   |   |
| Cu1                   | 2.646  | ppm   | .8487 % | 2.620   | 2.658                    | 2.659  |   |   |
| Fe2                   | .0315  | L ppm | 12.44 % | .0271   | .0328                    | .0346  |   |   |
| K 1                   | -.1460 | L ppm | -166.9% | -.1439  | .0966                    | -.3908 |   |   |
| Mg4                   | .0129  | L ppm | 118.8 % | .0126   | .0283                    | -.0023 |   |   |
| Mn1                   | .0061  | L ppm | 6.662 % | .0060   | .0066                    | .0058  |   |   |
| Na2                   | -.0769 | L ppm | -68.34% | -.1374  | -.0439                   | -.0492 |   |   |
| Sb1                   | .0151  | L ppm | 54.22 % | .0137   | .0240                    | .0077  |   |   |
| Zn3                   | 43.40  | ppm   | .4790 % | 43.21   | 43.39                    | 43.62  |   |   |
| *** Sample ID: 283556 |        |       |         |         |                          |        |   |   |
|                       |        |       | 12-1    | Seq: 28 | 11:15:36 12 May 1999 ICP |        |   |   |
|                       |        |       | 1.00    | 1/100   |                          |        |   |   |
| Al3                   | .1714  | ppm   | 4.824 % | .1634   | .1708                    | .1799  |   |   |
| Ca3                   | .2550  | L ppm | .2645 % | .2543   | .2551                    | .2556  |   |   |
| Cu1                   | 1.542  | ppm   | .3983 % | 1.546   | 1.544                    | 1.534  |   |   |
| Fe2                   | .2098  | ppm   | 2.253 % | .2142   | .2048                    | .2102  |   |   |
| K 1                   | -.2431 | L ppm | -26.89% | -.2688  | -.2917                   | -.1688 |   |   |
|                       | .0636  | L ppm | 29.66 % | .0851   | .0556                    | .0500  |   |   |
| Mn1                   | .0031  | L ppm | 2.644 % | .0031   | .0030                    | .0032  |   |   |
| Na2                   | -.0721 | L ppm | -118.9% | -.0718  | .0135                    | -.1579 |   |   |
| Sb1                   | -.0108 | L ppm | -100.6% | -.0001  | -.0104                   | -.0217 |   |   |
| Zn3                   | .5464  | ppm   | .7747 % | .5507   | .5422                    | .5462  |   |   |
| *** Sample ID: CCV    |        |       |         |         |                          |        |   |   |
|                       |        |       | 12-1    | Seq: 29 | 11:18:47 12 May 1999 ICP |        |   |   |
| Al3                   | 9.543  | ppm   | .5997 % | 9.549   | 9.484                    | 9.598  |   |   |
| Ca3                   | 48.76  | ppm   | .4157 % | 48.83   | 48.53                    | 48.92  |   |   |
| Cu1                   | 1.183  | ppm   | .7420 % | 1.187   | 1.173                    | 1.188  |   |   |
| Fe2                   | 4.903  | ppm   | .4181 % | 4.911   | 4.879                    | 4.918  |   |   |
| K 1                   | 47.64  | ppm   | .8601 % | 47.60   | 47.26                    | 48.07  |   |   |
| Mg4                   | 48.53  | ppm   | .3858 % | 48.68   | 48.32                    | 48.58  |   |   |
| Mn1                   | .7447  | ppm   | .2162 % | .7448   | .7430                    | .7462  |   |   |
| Na2                   | 49.63  | ppm   | .9140 % | 49.54   | 49.23                    | 50.13  |   |   |
| Sb1                   | 5.701  | ppm   | 1.490 % | 5.667   | 5.638                    | 5.797  |   |   |
| Zn3                   | 1.070  | ppm   | .3871 % | 1.075   | 1.067                    | 1.068  |   |   |

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S PS3000  
11:21:58 12 May 1999

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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: CCB 12-1 Seq: 31 11:21:58 12 May 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | .0011  | L ppm | 860.1 % | -.0028 | .0124  | -.0061 |  |  |
| Ca3 | .0053  | L ppm | 57.21 % | .0038  | .0033  | .0088  |  |  |
| Cu1 | .0041  | L ppm | 38.40 % | .0047  | .0052  | .0023  |  |  |
| Fe2 | -.0037 | L ppm | -60.34% | -.0054 | -.0045 | -.0012 |  |  |
| K 1 | -.1524 | L ppm | -49.93% | -.1489 | -.0781 | -.2302 |  |  |
| Mg4 | -.0104 | L ppm | -81.74% | -.0007 | -.0164 | -.0142 |  |  |
| Mn1 | -.0003 | L ppm | -49.95% | -.0004 | -.0003 | -.0001 |  |  |
| Na2 | -.0559 | L ppm | -30.36% | -.0755 | -.0473 | -.0449 |  |  |
| Sb1 | .0073  | L ppm | 248.5 % | .0171  | .0186  | -.0137 |  |  |
| Zn3 | .0083  | L ppm | 17.66 % | .0092  | .0092  | .0066  |  |  |

\*\*\* Sample ID: 283557 12-1 Seq: 32 11:25:10 12 May 1999 ICP

|      |        |       |         | 1.08   | 1/100  |        |  |  |
|------|--------|-------|---------|--------|--------|--------|--|--|
| Al3  | .1855  | ppm   | 4.660 % | .1932  | .1761  | .1871  |  |  |
| Ca3  | .4805  | L ppm | .3145 % | .4821  | .4791  | .4804  |  |  |
| Cu1  | 2.326  | ppm   | .5236 % | 2.312  | 2.335  | 2.331  |  |  |
| Fe2  | .4554  | ppm   | .9676 % | .4510  | .4554  | .4599  |  |  |
| K 1  | -.0484 | L ppm | -343.8% | .1301  | -.1991 | -.0762 |  |  |
| Li 1 | .0819  | L ppm | 1.732 % | .0835  | .0809  | .0812  |  |  |
| Mn1  | .0050  | L ppm | 9.754 % | .0051  | .0045  | .0055  |  |  |
| Na2  | -.0158 | L ppm | -524.1% | -.1002 | .0650  | -.0121 |  |  |
| Sb1  | -.0102 | L ppm | -95.79% | .0009  | -.0173 | -.0142 |  |  |
| Zn3  | .5844  | ppm   | .1455 % | .5850  | .5849  | .5835  |  |  |

\*\*\* Sample ID: 283558 12-1 Seq: 33 11:28:22 12 May 1999 ICP

|     |        |       |         | 1.04   | 1/100  |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | .1788  | ppm   | 2.159 % | .1814  | .1807  | .1744  |  |  |
| Ca3 | .2587  | L ppm | .1835 % | .2583  | .2587  | .2592  |  |  |
| Cu1 | 1.994  | ppm   | .4178 % | 2.000  | 1.985  | 1.998  |  |  |
| Fe2 | .2391  | ppm   | .5968 % | .2383  | .2383  | .2407  |  |  |
| K 1 | -.0653 | L ppm | -229.6% | -.0292 | -.2302 | .0635  |  |  |
| Mg4 | .0586  | L ppm | 19.44 % | .0456  | .0633  | .0668  |  |  |
| Mn1 | .0025  | L ppm | 11.00 % | .0027  | .0022  | .0025  |  |  |
| Na2 | -.0149 | L ppm | -80.64% | -.0014 | -.0189 | -.0243 |  |  |
| Sb1 | -.0084 | L ppm | -417.6% | -.0032 | .0239  | -.0460 |  |  |
| Zn3 | .5331  | ppm   | .6210 % | .5368  | .5317  | .5307  |  |  |

S P53000  
11:31:33 12 May 1999

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| Line                   | Conc.    | Units | SD/RSD  | 1       | 2                        | 3      | 4 | 5 |
|------------------------|----------|-------|---------|---------|--------------------------|--------|---|---|
| *** Sample ID: 283559  |          |       |         |         |                          |        |   |   |
|                        |          |       | 12-1    | Seq: 35 | 11:31:33 12 May 1999 ICP |        |   |   |
|                        |          |       | 1.02    | 1/100   |                          |        |   |   |
| Al3                    | .1776    | ppm   | 9.765 % | .1865   | .1886                    | .1576  |   |   |
| Ca3                    | .2278 L  | ppm   | 1.417 % | .2246   | .2311                    | .2279  |   |   |
| Cu1                    | 2.050    | ppm   | .6797 % | 2.034   | 2.056                    | 2.060  |   |   |
| Fe2                    | .2254    | ppm   | .5087 % | .2241   | .2259                    | .2262  |   |   |
| K 1                    | -.0372 L | ppm   | -96.19% | -.0584  | -.0573                   | .0041  |   |   |
| Mg4                    | .0737 L  | ppm   | 1.321 % | .0742   | .0726                    | .0744  |   |   |
| Mn1                    | .0032 L  | ppm   | 22.82 % | .0038   | .0024                    | .0033  |   |   |
| Na2                    | -.0800 L | ppm   | -29.65% | -.0659  | -.0667                   | -.1074 |   |   |
| Sb1                    | .0031 L  | ppm   | 505.4 % | -.0095  | .0208                    | -.0019 |   |   |
| Zn3                    | .5950    | ppm   | .4750 % | .5920   | .5953                    | .5976  |   |   |
| *** Sample ID: 283560  |          |       |         |         |                          |        |   |   |
|                        |          |       | 12-1    | Seq: 36 | 11:34:46 12 May 1999 ICP |        |   |   |
|                        |          |       | 1.12    | 1/100   |                          |        |   |   |
| Al3                    | .0537 L  | ppm   | 66.79 % | .0533   | .0181                    | .0899  |   |   |
| Ca3                    | .1040 L  | ppm   | 3.794 % | .0995   | .1054                    | .1070  |   |   |
| Cu1                    | 4.990    | ppm   | 1.689 % | 5.001   | 5.068                    | 4.901  |   |   |
| Fe2                    | 26.45    | ppm   | 1.030 % | 26.52   | 26.67                    | 26.14  |   |   |
| K 1                    | .0660 L  | ppm   | 175.6 % | -.0066  | .1996                    | .0049  |   |   |
| Li                     | .0198 L  | ppm   | 163.7 % | .0009   | .0012                    | .0573  |   |   |
| Mn1                    | .2496    | ppm   | .6496 % | .2497   | .2511                    | .2479  |   |   |
| Na2                    | -.0499 L | ppm   | -96.13% | -.0313  | -.1044                   | -.0140 |   |   |
| Sb1                    | -.0242 L | ppm   | -160.2% | -.0636  | -.0226                   | .0138  |   |   |
| Zn3                    | .5595    | ppm   | .4679 % | .5614   | .5606                    | .5565  |   |   |
| *** Sample ID: 283560D |          |       |         |         |                          |        |   |   |
|                        |          |       | 12-1    | Seq: 37 | 11:37:58 12 May 1999 ICP |        |   |   |
|                        |          |       | 1.05    | 1/100   |                          |        |   |   |
| Al3                    | .0589 L  | ppm   | 7.440 % | .0573   | .0556                    | .0639  |   |   |
| Ca3                    | .0964 L  | ppm   | 1.591 % | .0946   | .0970                    | .0975  |   |   |
| Cu1                    | 3.856    | ppm   | 1.336 % | 3.796   | 3.884                    | 3.887  |   |   |
| Fe2                    | 22.56    | ppm   | .6977 % | 22.38   | 22.68                    | 22.62  |   |   |
| K 1                    | .0563 L  | ppm   | 188.9 % | .1354   | -.0646                   | .0979  |   |   |
| Mg4                    | .0195 L  | ppm   | 78.56 % | .0276   | .0018                    | .0292  |   |   |
| Mn1                    | .2114    | ppm   | 1.394 % | .2080   | .2131                    | .2130  |   |   |
| Na2                    | -.0732 L | ppm   | -89.42% | -.1360  | -.0782                   | -.0054 |   |   |
| Sb1                    | -.0062 L | ppm   | -122.2% | -.0103  | .0025                    | -.0110 |   |   |
| Zn3                    | .4889    | ppm   | .1813 % | .4879   | .4892                    | .4896  |   |   |

292462

0159

IS F53000  
11:41:11 12 May 1999

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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

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\*\*\* Sample ID: 283560S      12-1      Seq: 39      11:41:11 12 May 1999 ICP  
                                 1.12      1/100

|     |       |       |         |        |        |        |  |  |
|-----|-------|-------|---------|--------|--------|--------|--|--|
| Al3 | .0656 | L ppm | 15.94 % | .0644  | .0766  | .0558  |  |  |
| Ca3 | .1178 | L ppm | 2.758 % | .1191  | .1142  | .1203  |  |  |
| Cu1 | 3.468 | ppm   | .6488 % | 3.460  | 3.494  | 3.451  |  |  |
| Fe2 | 23.65 | ppm   | .2167 % | 23.64  | 23.71  | 23.61  |  |  |
| K 1 | .0259 | L ppm | 407.2 % | -.0959 | .0842  | .0895  |  |  |
| Mg4 | .0324 | L ppm | 31.89 % | .0205  | .0378  | .0389  |  |  |
| Mn1 | .2232 | ppm   | .3929 % | .2240  | .2223  | .2233  |  |  |
| Na2 | .1340 | L ppm | 9.298 % | .1355  | .1456  | .1209  |  |  |
| Sb1 | .0009 | L ppm | 1867. % | .0193  | -.0055 | -.0112 |  |  |
| Zn3 | .4616 | ppm   | .6036 % | .4596  | .4648  | .4605  |  |  |

292464

\*\*\* Sample ID: 283560A      12-1      Seq: 40      11:44:24 12 May 1999 ICP  
                                 1/100

|     |       |     |         |       |       |       |  |  |
|-----|-------|-----|---------|-------|-------|-------|--|--|
| Al3 | 2.035 | ppm | 2.194 % | 2.038 | 2.078 | 1.989 |  |  |
| Ca3 | 2.152 | ppm | .5045 % | 2.163 | 2.153 | 2.141 |  |  |
| Cu1 | 5.220 | ppm | 1.329 % | 5.276 | 5.241 | 5.142 |  |  |
| Fe2 | 27.26 | ppm | 1.010 % | 27.48 | 27.35 | 26.95 |  |  |
| K 1 | 19.59 | ppm | 1.332 % | 19.77 | 19.71 | 19.29 |  |  |
| Na2 | 1.988 | ppm | 2.498 % | 2.028 | 2.004 | 1.933 |  |  |
| Mn1 | .7669 | ppm | .8449 % | .7722 | .7689 | .7597 |  |  |
| Na2 | 21.03 | ppm | 1.867 % | 21.11 | 21.37 | 20.60 |  |  |
| Sb1 | .4934 | ppm | 7.461 % | .5100 | .5189 | .4512 |  |  |
| Zn3 | 1.091 | ppm | .6188 % | 1.097 | 1.092 | 1.084 |  |  |

\*\*\* Sample ID: 283560L      12-1      Seq: 41      11:47:37 12 May 1999 ICP  
                                 1/500

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | .0079  | L ppm | 180.9 % | -.0076 | .0106  | .0205  |  |  |
| Ca3 | .0242  | L ppm | 7.093 % | .0222  | .0252  | .0252  |  |  |
| Cu1 | 1.020  | ppm   | .4266 % | 1.018  | 1.017  | 1.025  |  |  |
| Fe2 | 5.307  | ppm   | .2301 % | 5.304  | 5.297  | 5.321  |  |  |
| K 1 | -.1439 | L ppm | -92.91% | -.2098 | -.2317 | .0100  |  |  |
| Mg4 | .0077  | L ppm | 166.6 % | .0000  | .0225  | .0006  |  |  |
| Mn1 | .0499  | ppm   | .9477 % | .0502  | .0500  | .0493  |  |  |
| Na2 | -.0762 | L ppm | -150.0% | -.0145 | -.0060 | -.2082 |  |  |
| Sb1 | -.0249 | L ppm | -78.60% | -.0324 | -.0027 | -.0396 |  |  |
| Zn3 | .1114  | ppm   | .8898 % | .1124  | .1114  | .1104  |  |  |

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S PS3000  
11:50:50 12 May 1999

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| Line           | Conc.    | Units | SD/RSD  | 1      | 2      | 3                        | 4 | 5 |
|----------------|----------|-------|---------|--------|--------|--------------------------|---|---|
| <hr/>          |          |       |         |        |        |                          |   |   |
| *** Sample ID: | CCV      |       | 12-1    | Seq:   | 43     | 11:50:50 12 May 1999 ICP |   |   |
| Al3            | 9.667    | ppm   | .3697 % | 9.707  | 9.656  | 9.639                    |   |   |
| Ca3            | 48.89    | ppm   | .2593 % | 48.96  | 48.95  | 48.74                    |   |   |
| Cu1            | 1.212    | ppm   | .4087 % | 1.210  | 1.209  | 1.218                    |   |   |
| Fe2            | 4.953    | ppm   | .4227 % | 4.977  | 4.944  | 4.938                    |   |   |
| K 1            | 48.76    | ppm   | .2565 % | 48.73  | 48.66  | 48.90                    |   |   |
| Mg4            | 48.87    | ppm   | .3139 % | 48.91  | 48.99  | 48.70                    |   |   |
| Mn1            | .7590    | ppm   | .4931 % | .7616  | .7607  | .7547                    |   |   |
| Na2            | 51.42    | ppm   | .1350 % | 51.41  | 51.50  | 51.36                    |   |   |
| Sb1            | 5.680    | ppm   | .9759 % | 5.656  | 5.744  | 5.641                    |   |   |
| Zn3            | 1.022    | ppm   | .4289 % | 1.024  | 1.026  | 1.017                    |   |   |
| *** Sample ID: | CCB      |       | 12-1    | Seq:   | 44     | 11:54:03 12 May 1999 ICP |   |   |
| Al3            | -.0018 L | ppm   | -519.8% | -.0068 | -.0078 | .0091                    |   |   |
| Ca3            | .0072 L  | ppm   | 3.537 % | .0075  | .0071  | .0071                    |   |   |
| Cu1            | .0049 L  | ppm   | 41.33 % | .0036  | .0039  | .0072                    |   |   |
| Fe2            | -.0066 L | ppm   | -14.85% | -.0077 | -.0061 | -.0060                   |   |   |
| K 1            | -.0850 L | ppm   | -263.1% | -.2541 | -.1698 | .1687                    |   |   |
| Mg4            | .0150 L  | ppm   | 72.30 % | .0230  | .0193  | .0027                    |   |   |
| Mn1            | -.0001 L | ppm   | -417.6% | -.0003 | .0004  | -.0003                   |   |   |
| Na2            | -.0731 L | ppm   | -34.82% | -.1024 | -.0605 | -.0564                   |   |   |
| Sb1            | -.0312 L | ppm   | -48.77% | -.0475 | -.0173 | -.0288                   |   |   |
| Zn3            | .0023 L  | ppm   | 19.29 % | .0020  | .0028  | .0022                    |   |   |
| *** Sample ID: | CRIF     |       | 12-1    | Seq:   | 45     | 11:57:16 12 May 1999 ICP |   |   |
| Al3            | .0025 L  | ppm   | 514.9 % | .0154  | -.0102 | .0022                    |   |   |
| Ca3            | .0081 L  | ppm   | 34.59 % | .0113  | .0061  | .0069                    |   |   |
| Cu1            | .0559    | ppm   | 3.131 % | .0556  | .0542  | .0577                    |   |   |
| Fe2            | -.0036 L | ppm   | -32.86% | -.0049 | -.0033 | -.0026                   |   |   |
| K 1            | -.0434 L | ppm   | -587.3% | .1135  | -.3374 | .0937                    |   |   |
| Mg4            | .0023 L  | ppm   | 621.4 % | .0101  | .0112  | -.0143                   |   |   |
| Mn1            | .0360    | ppm   | 2.693 % | .0355  | .0354  | .0371                    |   |   |
| Na2            | -.0121 L | ppm   | -636.9% | .0608  | -.0924 | -.0046                   |   |   |
| Sb1            | .0967 L  | ppm   | 13.00 % | .0834  | .0982  | .1084                    |   |   |
| Zn3            | .0480    | ppm   | 2.226 % | .0467  | .0484  | .0487                    |   |   |

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S PS3000  
12:00:29 12 May 1999

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| Line                                                        | Conc.    | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|----------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: ICSAF 12-1 Seq: 47 12:00:29 12 May 1999 ICP  |          |       |         |        |        |        |   |   |
| Al3                                                         | 436.0    | ppm   | 1.468 % | 436.4  | 442.2  | 429.4  |   |   |
| Ca3                                                         | 463.6    | ppm   | .5215 % | 463.7  | 466.1  | 461.2  |   |   |
| Cu1                                                         | -.0002 L | ppm   | -1654.% | .0001  | -.0036 | .0029  |   |   |
| Fe2                                                         | 164.4    | ppm   | .8411 % | 164.6  | 165.6  | 162.9  |   |   |
| K 1                                                         | -.1852 L | ppm   | -128.5% | -.2079 | -.4109 | .0633  |   |   |
| Mg4                                                         | 486.0    | ppm   | .5913 % | 486.5  | 488.6  | 483.0  |   |   |
| Mn1                                                         | -.0058 L | ppm   | -8.399% | -.0056 | -.0064 | -.0055 |   |   |
| Na2                                                         | .0820 L  | ppm   | 64.08 % | .0901  | .0259  | .1301  |   |   |
| Sb1                                                         | -.0260 L | ppm   | -83.30% | -.0372 | -.0398 | -.0010 |   |   |
| Zn3                                                         | -.0196 L | ppm   | -3.020% | -.0201 | -.0190 | -.0198 |   |   |
| *** Sample ID: ICSABF 12-1 Seq: 48 12:03:42 12 May 1999 ICP |          |       |         |        |        |        |   |   |
| Al3                                                         | 442.4    | ppm   | 1.077 % | 436.9  | 444.2  | 445.9  |   |   |
| Ca3                                                         | 469.3    | ppm   | .4111 % | 469.6  | 471.0  | 467.2  |   |   |
| Cu1                                                         | .4464    | ppm   | 1.478 % | .4390  | .4487  | .4516  |   |   |
| Fe2                                                         | 167.3    | ppm   | .5752 % | 166.3  | 168.2  | 167.4  |   |   |
| K 1                                                         | -.0185 L | ppm   | -537.8% | .0031  | .0685  | -.1272 |   |   |
| Li                                                          | 490.6    | ppm   | .4193 % | 489.7  | 493.0  | 489.2  |   |   |
| Mn1                                                         | .4307    | ppm   | .5779 % | .4280  | .4328  | .4314  |   |   |
| Na2                                                         | .1213 L  | ppm   | 54.10 % | .1970  | .0869  | .0800  |   |   |
| Sb1                                                         | .0174 L  | ppm   | 84.54 % | .0244  | .0005  | .0274  |   |   |
| Zn3                                                         | .8927    | ppm   | .8070 % | .8987  | .8949  | .8847  |   |   |
| *** Sample ID: CCV 12-1 Seq: 49 12:06:55 12 May 1999 ICP    |          |       |         |        |        |        |   |   |
| Al3                                                         | 9.505    | ppm   | 1.113 % | 9.387  | 9.537  | 9.592  |   |   |
| Ca3                                                         | 48.79    | ppm   | .4938 % | 48.59  | 49.06  | 48.72  |   |   |
| Cu1                                                         | 1.194    | ppm   | 1.047 % | 1.180  | 1.198  | 1.204  |   |   |
| Fe2                                                         | 4.938    | ppm   | .4331 % | 4.914  | 4.947  | 4.954  |   |   |
| K 1                                                         | 48.16    | ppm   | .9603 % | 47.70  | 48.63  | 48.15  |   |   |
| Mg4                                                         | 48.48    | ppm   | .5944 % | 48.20  | 48.78  | 48.46  |   |   |
| Mn1                                                         | .7451    | ppm   | .2429 % | .7432  | .7451  | .7469  |   |   |
| Na2                                                         | 50.73    | ppm   | 1.188 % | 50.23  | 50.57  | 51.40  |   |   |
| Sb1                                                         | 5.599    | ppm   | .6321 % | 5.559  | 5.613  | 5.626  |   |   |
| Zn3                                                         | 1.035    | ppm   | .5500 % | 1.031  | 1.042  | 1.034  |   |   |

0162

S PS3000  
12:10:08 12 May 1999

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Protocol: CLP-SM

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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: CCB 12-1 Seq: 51 12:10:08 12 May 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | .0066  | L ppm | 271.3 % | -.0110 | .0061  | .0246  |  |  |
| Ca3 | .0198  | L ppm | 16.64 % | .0174  | .0185  | .0235  |  |  |
| Cu1 | .0012  | L ppm | 145.4 % | -.0003 | .0030  | .0008  |  |  |
| Fe2 | .0121  | L ppm | 15.09 % | .0116  | .0106  | .0142  |  |  |
| K 1 | -.2503 | L ppm | -54.32% | -.3843 | -.1125 | -.2541 |  |  |
| Mg4 | .0310  | L ppm | 66.40 % | .0073  | .0421  | .0438  |  |  |
| Mn1 | .0002  | L ppm | 220.9 % | -.0002 | .0003  | .0004  |  |  |
| Na2 | -.0933 | L ppm | -18.47% | -.0980 | -.1077 | -.0742 |  |  |
| Sb1 | .0134  | L ppm | 164.5 % | .0202  | .0311  | -.0112 |  |  |
| Zn3 | .0015  | L ppm | 55.85 % | .0011  | .0025  | .0009  |  |  |

\*\*\* Sample ID: PBW 5-3 12-1 Seq: 52 12:13:21 12 May 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Al3 | .0078  | L ppm | 263.8 % | .0015  | -.0089 | .0307  |  |  |
| Ca3 | .0966  | L ppm | .8881 % | .0976  | .0962  | .0960  |  |  |
| Cu1 | .0067  | L ppm | 10.96 % | .0074  | .0067  | .0060  |  |  |
| Fe2 | .3530  | ppm   | 8.312 % | .3845  | .3481  | .3264  |  |  |
| K 1 | -.0955 | L ppm | -69.63% | -.1657 | -.0875 | -.0334 |  |  |
| Li  | .0216  | L ppm | 71.61 % | .0271  | .0337  | .0042  |  |  |
| Mn1 | .0011  | L ppm | 44.61 % | .0007  | .0010  | .0016  |  |  |
| Na2 | .0131  | L ppm | 368.8 % | .0689  | -.0124 | -.0171 |  |  |
| Sb1 | -.0056 | L ppm | -631.6% | .0348  | -.0323 | -.0195 |  |  |
| Zn3 | .0267  | ppm   | 3.114 % | .0277  | .0260  | .0265  |  |  |

*Needs  
Redigest*

\*\*\* Sample ID: LCSW 12-1 Seq: 53 12:16:34 12 May 1999 ICP

|     |       |     |         |       |       |       |  |  |
|-----|-------|-----|---------|-------|-------|-------|--|--|
| Al3 | 1.827 | ppm | 1.033 % | 1.837 | 1.805 | 1.838 |  |  |
| Ca3 | 2.010 | ppm | .5346 % | 2.017 | 1.997 | 2.015 |  |  |
| Cu1 | .2353 | ppm | 1.381 % | .2371 | .2315 | .2372 |  |  |
| Fe2 | 1.070 | ppm | .8898 % | 1.074 | 1.059 | 1.077 |  |  |
| K 1 | 18.32 | ppm | .4824 % | 18.40 | 18.23 | 18.33 |  |  |
| Mg4 | 1.828 | ppm | .9999 % | 1.830 | 1.810 | 1.846 |  |  |
| Mn1 | .4772 | ppm | 1.070 % | .4807 | .4713 | .4795 |  |  |
| Na2 | 19.15 | ppm | 1.542 % | 19.38 | 18.82 | 19.24 |  |  |
| Sb1 | .4482 | ppm | 6.199 % | .4549 | .4176 | .4720 |  |  |
| Zn3 | .5298 | ppm | .5388 % | .5326 | .5269 | .5299 |  |  |

0163

# Metals Cover Page

Analyst:

M. Niezgoda

Date:

5/12/99

Instrument:

leeman

File Name:

12-2

Reviewed By:

CK

Data Entered By:

CK

Manager Approval:

CK

| Starlims Run # | Analytes Used | Comments/<br>Problems |
|----------------|---------------|-----------------------|
| <u>38125</u> ✓ | <u>KNa</u>    | <u>414S</u>           |
| <u>38128</u> ✓ | <u>KZn</u>    | <u>4127S</u>          |
| _____          | _____         | _____                 |
| _____          | _____         | _____                 |

Submission #'s needing PKG 5 or ASP Report

(Place check mark in space provided when copy of raw data is made.)

| Sub #         | Run<br>Copy | Stds |
|---------------|-------------|------|
| <u>04-108</u> |             | ✓    |
| <u>04-196</u> |             | ✓    |
|               |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Standard: 1 Rep: 1 Seq: 112 16:06:47 12 May 1999 ICP

|     |       |     |             |       |         |      |  |  |
|-----|-------|-----|-------------|-------|---------|------|--|--|
| Al3 | .0000 | ppm | 5847        | 2606  | 5662    |      |  |  |
|     |       |     | Ave. Int. = | 4705  | S. D. = | 1820 |  |  |
| Ca3 | .0000 | ppm | 36985       | 36334 | 36044   |      |  |  |
|     |       |     | Ave. Int. = | 36454 | S. D. = | 482  |  |  |
| Cu1 | .0000 | ppm | 33990       | 39136 | 47261   |      |  |  |
|     |       |     | Ave. Int. = | 40129 | S. D. = | 6691 |  |  |
| Fe2 | .0000 | ppm | 12843       | 15268 | 16944   |      |  |  |
|     |       |     | Ave. Int. = | 15018 | S. D. = | 2062 |  |  |
| K 1 | .0000 | ppm | 1743        | 2045  | 1625    |      |  |  |
|     |       |     | Ave. Int. = | 1804  | S. D. = | 217  |  |  |
| Mg4 | .0000 | ppm | -3086       | -1544 | -1711   |      |  |  |
|     |       |     | Ave. Int. = | -2114 | S. D. = | 846  |  |  |
| Mn1 | .0000 | ppm | 455         | 416   | 1430    |      |  |  |
|     |       |     | Ave. Int. = | 767   | S. D. = | 575  |  |  |
| Na2 | .0000 | ppm | 5321        | 5777  | 5673    |      |  |  |
|     |       |     | Ave. Int. = | 5590  | S. D. = | 239  |  |  |
| Zn3 | .0000 | ppm | -42         | -748  | 452     |      |  |  |
|     |       |     | Ave. Int. = | -113  | S. D. = | 603  |  |  |

\* Standard: 1 Rep: 2 Seq: 113 16:07:25 12 May 1999 ICP

|     |       |     |             |       |         |      |  |  |
|-----|-------|-----|-------------|-------|---------|------|--|--|
| Al3 | .0000 | ppm | 10286       | 770   | 6134    |      |  |  |
|     |       |     | Ave. Int. = | 5730  | S. D. = | 4771 |  |  |
| Ca3 | .0000 | ppm | 37044       | 32246 | 35417   |      |  |  |
|     |       |     | Ave. Int. = | 34902 | S. D. = | 2440 |  |  |
| Cu1 | .0000 | ppm | 50880       | 45816 | 42371   |      |  |  |
|     |       |     | Ave. Int. = | 46356 | S. D. = | 4280 |  |  |
| Fe2 | .0000 | ppm | 15858       | 15499 | 13849   |      |  |  |
|     |       |     | Ave. Int. = | 15069 | S. D. = | 1071 |  |  |
| K 1 | .0000 | ppm | 1962        | 1806  | 1778    |      |  |  |
|     |       |     | Ave. Int. = | 1849  | S. D. = | 99   |  |  |
| Mg4 | .0000 | ppm | 1658        | -2386 | -857    |      |  |  |
|     |       |     | Ave. Int. = | -528  | S. D. = | 2042 |  |  |
| Mn1 | .0000 | ppm | 819         | -1018 | 777     |      |  |  |
|     |       |     | Ave. Int. = | 193   | S. D. = | 1049 |  |  |
| Na2 | .0000 | ppm | 4690        | 4788  | 3518    |      |  |  |
|     |       |     | Ave. Int. = | 4332  | S. D. = | 707  |  |  |
| Zn3 | .0000 | ppm | 31          | -1860 | -2099   |      |  |  |
|     |       |     | Ave. Int. = | -1309 | S. D. = | 1167 |  |  |

*Mitchell*  
*Quigley*  
5/13/99

0165

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Standard: 2 Rep: 1 Seq: 114 16:10:42 12 May 1999 ICP

|     |       |     |             |          |          |        |  |  |
|-----|-------|-----|-------------|----------|----------|--------|--|--|
| Al3 | 20.00 | ppm | 3381865     | 3392512  | 3379218  |        |  |  |
|     |       |     | Ave. Int. = | 3384532  | S. D. =  | 7037   |  |  |
| Ca3 | 100.0 | ppm | 63555306    | 64009043 | 63547725 |        |  |  |
|     |       |     | Ave. Int. = | 63704025 | S. D. =  | 264181 |  |  |
| Cu1 | 2.500 | ppm | 8583586     | 8592772  | 8562146  |        |  |  |
|     |       |     | Ave. Int. = | 8579501  | S. D. =  | 15716  |  |  |
| Fe2 | 10.00 | ppm | 5636508     | 5668744  | 5629591  |        |  |  |
|     |       |     | Ave. Int. = | 5644948  | S. D. =  | 20896  |  |  |
| K 1 | 100.0 | ppm | 94154       | 94353    | 93353    |        |  |  |
|     |       |     | Ave. Int. = | 93953    | S. D. =  | 529    |  |  |
| Mg4 | 100.0 | ppm | 7785013     | 7843116  | 7798938  |        |  |  |
|     |       |     | Ave. Int. = | 7809022  | S. D. =  | 30336  |  |  |
| Mn1 | 1.500 | ppm | 2104002     | 2123344  | 2104442  |        |  |  |
|     |       |     | Ave. Int. = | 2110596  | S. D. =  | 11042  |  |  |
| Na2 | 100.0 | ppm | 2683775     | 2672369  | 2666400  |        |  |  |
|     |       |     | Ave. Int. = | 2674181  | S. D. =  | 8828   |  |  |
| Zn3 | 2.000 | ppm | 2222837     | 2242498  | 2223147  |        |  |  |
|     |       |     | Ave. Int. = | 2229494  | S. D. =  | 11263  |  |  |

: Standard: 2 Rep: 2 Seq: 115 16:11:18 12 May 1999 ICP

|     |       |     |             |          |          |        |  |  |
|-----|-------|-----|-------------|----------|----------|--------|--|--|
| Al3 | 20.00 | ppm | 3385068     | 3421586  | 3471730  |        |  |  |
|     |       |     | Ave. Int. = | 3426128  | S. D. =  | 43509  |  |  |
| Ca3 | 100.0 | ppm | 63585267    | 63723272 | 64452552 |        |  |  |
|     |       |     | Ave. Int. = | 63920364 | S. D. =  | 466025 |  |  |
| Cu1 | 2.500 | ppm | 8603597     | 8694882  | 8796709  |        |  |  |
|     |       |     | Ave. Int. = | 8698396  | S. D. =  | 96604  |  |  |
| Fe2 | 10.00 | ppm | 5638318     | 5662967  | 5737816  |        |  |  |
|     |       |     | Ave. Int. = | 5679700  | S. D. =  | 51817  |  |  |
| K 1 | 100.0 | ppm | 94199       | 94939    | 96151    |        |  |  |
|     |       |     | Ave. Int. = | 95096    | S. D. =  | 985    |  |  |
| Mg4 | 100.0 | ppm | 7783606     | 7791646  | 7900288  |        |  |  |
|     |       |     | Ave. Int. = | 7825180  | S. D. =  | 65170  |  |  |
| Mn1 | 1.500 | ppm | 2115099     | 2126172  | 2146695  |        |  |  |
|     |       |     | Ave. Int. = | 2129322  | S. D. =  | 16032  |  |  |
| Na2 | 100.0 | ppm | 2684946     | 2732048  | 2781267  |        |  |  |
|     |       |     | Ave. Int. = | 2732754  | S. D. =  | 48164  |  |  |
| Zn3 | 2.000 | ppm | 2223734     | 2221065  | 2243814  |        |  |  |
|     |       |     | Ave. Int. = | 2229538  | S. D. =  | 12435  |  |  |

CAS PS3000  
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| Line                 | Conc.    | Units | SD/RSD  | 1        | 2                        | 3      | 4 | 5 |
|----------------------|----------|-------|---------|----------|--------------------------|--------|---|---|
| <hr/>                |          |       |         |          |                          |        |   |   |
| *** Sample ID: ICV   |          |       | 12-2    | Seq: 117 | 16:14:33 12 May 1999 ICP |        |   |   |
| Al3                  | 9.739    | ppm   | .8681 % | 9.644    | 9.805                    | 9.769  |   |   |
| Ca3                  | 49.40    | ppm   | .3781 % | 49.18    | 49.52                    | 49.50  |   |   |
| Cu1                  | 1.222    | ppm   | .6628 % | 1.213    | 1.229                    | 1.223  |   |   |
| Fe2                  | 4.973    | ppm   | .7328 % | 4.933    | 5.003                    | 4.985  |   |   |
| K 1                  | 48.96    | ppm   | 1.230 % | 48.33    | 49.53                    | 49.03  |   |   |
| Mg4                  | 48.38    | ppm   | .6204 % | 48.04    | 48.61                    | 48.50  |   |   |
| Mn1                  | .7566    | ppm   | .6786 % | .7509    | .7608                    | .7581  |   |   |
| Na2                  | 51.61    | ppm   | .9483 % | 51.04    | 51.86                    | 51.92  |   |   |
| Zn3                  | 1.014    | ppm   | .2484 % | 1.011    | 1.016                    | 1.015  |   |   |
| <hr/>                |          |       |         |          |                          |        |   |   |
| *** Sample ID: ICB   |          |       | 12-2    | Seq: 118 | 16:17:44 12 May 1999 ICP |        |   |   |
| Al3                  | .0062 L  | ppm   | 85.63 % | .0066    | .0007                    | .0113  |   |   |
| Ca3                  | .0103 L  | ppm   | 19.12 % | .0095    | .0125                    | .0088  |   |   |
| Cu1                  | .0020 L  | ppm   | 92.43 % | .0012    | .0042                    | .0007  |   |   |
| Fe2                  | -.0049 L | ppm   | -88.04% | -.0067   | .0000                    | -.0082 |   |   |
| K 1                  | .1016 L  | ppm   | 436.8 % | .1948    | .4916                    | -.3815 |   |   |
| Mg4                  | -.0049 L | ppm   | -385.6% | -.0023   | .0126                    | -.0251 |   |   |
| Mn1                  | .0001 L  | ppm   | 401.3 % | -.0003   | .0001                    | .0005  |   |   |
| Na2                  | .0148 L  | ppm   | 88.06 % | .0299    | .0075                    | .0070  |   |   |
| Zn3                  | .0008 L  | ppm   | 163.0 % | .0000    | .0001                    | .0023  |   |   |
| <hr/>                |          |       |         |          |                          |        |   |   |
| *** Sample ID: CRII  |          |       | 12-2    | Seq: 119 | 16:20:55 12 May 1999 ICP |        |   |   |
| Al3                  | -.0126 L | ppm   | -28.63% | -.0125   | -.0162                   | -.0090 |   |   |
| Ca3                  | .0575 L  | ppm   | .4685 % | .0573    | .0578                    | .0574  |   |   |
| Cu1                  | .0518    | ppm   | 2.313 % | .0531    | .0511                    | .0511  |   |   |
| Fe2                  | -.0002 L | ppm   | -1136.% | .0022    | .0003                    | -.0032 |   |   |
| K 1                  | -.1452 L | ppm   | -93.67% | -.0092   | -.2812                   | -.1452 |   |   |
| Mg4                  | .0017 L  | ppm   | 691.9 % | -.0039   | .0149                    | -.0060 |   |   |
| Mn1                  | .0371    | ppm   | 2.469 % | .0381    | .0368                    | .0364  |   |   |
| Na2                  | .0437 L  | ppm   | 80.22 % | .0490    | .0063                    | .0758  |   |   |
| Zn3                  | .0516    | ppm   | 1.887 % | .0522    | .0521                    | .0505  |   |   |
| <hr/>                |          |       |         |          |                          |        |   |   |
| *** Sample ID: ICSAI |          |       | 12-2    | Seq: 121 | 16:24:06 12 May 1999 ICP |        |   |   |
| Al3                  | 439.4    | ppm   | 1.076 % | 442.4    | 441.9                    | 433.9  |   |   |
| Ca3                  | 465.9    | ppm   | .3231 % | 466.8    | 466.8                    | 464.2  |   |   |
| Cu1                  | -.0028 L | ppm   | -110.7% | -.0054   | -.0035                   | .0006  |   |   |
| Fe2                  | 166.6    | ppm   | .4874 % | 167.1    | 166.9                    | 165.6  |   |   |
| K 1                  | .0055 L  | ppm   | 3210. % | .1759    | -.1790                   | .0198  |   |   |
| Mg4                  | 479.5    | ppm   | .4115 % | 481.0    | 480.3                    | 477.3  |   |   |
| Mn1                  | -.0054 L | ppm   | -5.270% | -.0056   | -.0051                   | -.0055 |   |   |
| Na2                  | .1121 L  | ppm   | 102.4 % | .0493    | .0423                    | .2445  |   |   |
| Zn3                  | -.0172 L | ppm   | -8.449% | -.0187   | -.0172                   | -.0158 |   |   |

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| Line                                                           | Conc.    | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------|----------|-------|----------|--------|--------|--------|---|---|
| <hr/>                                                          |          |       |          |        |        |        |   |   |
| *** Sample ID: ICSABI 12-2 Seq: 122 16:27:17 12 May 1999 ICP   |          |       |          |        |        |        |   |   |
| Al3                                                            | 429.0    | ppm   | 1.432 %  | 427.8  | 435.7  | 423.6  |   |   |
| Ca3                                                            | 464.9    | ppm   | .7023 %  | 464.3  | 468.4  | 461.9  |   |   |
| Cu1                                                            | .4346    | ppm   | 1.076 %  | .4330  | .4398  | .4309  |   |   |
| Fe2                                                            | 165.7    | ppm   | .9696 %  | 165.5  | 167.4  | 164.2  |   |   |
| K 1                                                            | .1729 L  | ppm   | 76.27 %  | .2092  | .2829  | .0267  |   |   |
| Mg4                                                            | 476.4    | ppm   | .7281 %  | 475.8  | 480.1  | 473.3  |   |   |
| Mn1                                                            | .4245    | ppm   | .7155 %  | .4231  | .4280  | .4224  |   |   |
| Na2                                                            | .1726 L  | ppm   | 54.71 %  | .1353  | .1025  | .2799  |   |   |
| Zn3                                                            | .8368    | ppm   | .9085 %  | .8363  | .8446  | .8295  |   |   |
| *** Sample ID: CCV 12-2 Seq: 123 16:30:28 12 May 1999 ICP      |          |       |          |        |        |        |   |   |
| Al3                                                            | 9.517    | ppm   | 1.007 %  | 9.628  | 9.458  | 9.466  |   |   |
| Ca3                                                            | 49.05    | ppm   | .5909 %  | 49.39  | 48.90  | 48.87  |   |   |
| Cu1                                                            | 1.203    | ppm   | 1.117 %  | 1.218  | 1.196  | 1.194  |   |   |
| Fe2                                                            | 4.980    | ppm   | .8869 %  | 5.031  | 4.963  | 4.948  |   |   |
| K 1                                                            | 48.55    | ppm   | .7806 %  | 48.99  | 48.39  | 48.28  |   |   |
| Mg4                                                            | 47.81    | ppm   | .6123 %  | 48.15  | 47.65  | 47.63  |   |   |
| Mn1                                                            | .7477    | ppm   | .4675 %  | .7516  | .7447  | .7469  |   |   |
| I                                                              | 50.81    | ppm   | 1.253 %  | 51.53  | 50.54  | 50.35  |   |   |
| Zn3                                                            | 1.007    | ppm   | .3536 %  | 1.010  | 1.003  | 1.006  |   |   |
| *** Sample ID: CCE 12-2 Seq: 125 16:33:40 12 May 1999 ICP      |          |       |          |        |        |        |   |   |
| Al3                                                            | -.0056 L | ppm   | -385.2%  | .0148  | -.0036 | -.0280 |   |   |
| Ca3                                                            | .0126 L  | ppm   | 36.05 %  | .0075  | .0139  | .0163  |   |   |
| Cu1                                                            | .0006 L  | ppm   | 212.1 %  | .0019  | .0001  | -.0003 |   |   |
| Fe2                                                            | .0103 L  | ppm   | 10.24 %  | .0091  | .0108  | .0111  |   |   |
| K 1                                                            | -.0437 L | ppm   | -264.5%  | -.1560 | .0750  | -.0502 |   |   |
| Mg4                                                            | .0167 L  | ppm   | 64.75 %  | .0093  | .0292  | .0118  |   |   |
| Mn1                                                            | .0000 L  | ppm   | 2334. %  | -.0009 | .0002  | .0009  |   |   |
| Na2                                                            | .0182 L  | ppm   | 241.7 %  | .0318  | -.0310 | .0540  |   |   |
| Zn3                                                            | -.0000 L | ppm   | -9381. % | .0012  | -.0007 | -.0005 |   |   |
| *** Sample ID: PBS 4-27 12-2 Seq: 126 16:36:52 12 May 1999 ICP |          |       |          |        |        |        |   |   |
|                                                                |          |       | 1.00     |        |        |        |   |   |
| Al3                                                            | -.0171 L | ppm   | -46.04%  | -.0244 | -.0088 | -.0181 |   |   |
| Ca3                                                            | .0103 L  | ppm   | 6.535 %  | .0108  | .0106  | .0095  |   |   |
| Cu1                                                            | .0032 L  | ppm   | 44.38 %  | .0031  | .0018  | .0046  |   |   |
| Fe2                                                            | -.0042 L | ppm   | -8.603%  | -.0044 | -.0038 | -.0044 |   |   |
| K 1                                                            | -.1686 L | ppm   | -37.89%  | -.0998 | -.2261 | -.1797 |   |   |
| Mg4                                                            | .0150 L  | ppm   | 77.91 %  | .0204  | .0230  | .0016  |   |   |
| Mn1                                                            | .0007 L  | ppm   | 33.10 %  | .0009  | .0004  | .0007  |   |   |
| Na2                                                            | .0401 L  | ppm   | 51.72 %  | .0559  | .0166  | .0478  |   |   |
| Zn3                                                            | .0027 L  | ppm   | 24.16 %  | .0021  | .0025  | .0033  |   |   |

1 40:03 12 May 1999

Protocol: CLP-SM

| Line                                                            | Conc.   | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|-----------------------------------------------------------------|---------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: LCSS #239 12-2 Seq: 127 16:40:03 12 May 1999 ICP |         |       |         |       |       |       |   |   |
|                                                                 |         |       | 1.00    |       |       |       |   |   |
| Al3                                                             | 44.67   | ppm   | 1.191 % | 45.11 | 44.81 | 44.08 |   |   |
| Ca3                                                             | 10.94   | ppm   | .4563 % | 11.00 | 10.92 | 10.91 |   |   |
| Cu1                                                             | .8199   | ppm   | .9593 % | .8272 | .8209 | .8115 |   |   |
| Fe2                                                             | 85.93   | ppm   | .7276 % | 86.58 | 85.85 | 85.34 |   |   |
| K 1                                                             | 12.83   | ppm   | 2.561 % | 13.08 | 12.96 | 12.46 |   |   |
| Mg4                                                             | 10.07   | ppm   | .4014 % | 10.12 | 10.06 | 10.04 |   |   |
| Mn1                                                             | 2.446   | ppm   | .7383 % | 2.466 | 2.442 | 2.430 |   |   |
| Na2                                                             | 14.44   | ppm   | .9730 % | 14.59 | 14.41 | 14.31 |   |   |
| Zn3                                                             | 1.787   | ppm   | .1609 % | 1.789 | 1.788 | 1.783 |   |   |
| *** Sample ID: 285111 12-2 Seq: 129 16:43:15 12 May 1999 ICP    |         |       |         |       |       |       |   |   |
|                                                                 |         |       | 1.00    |       |       |       |   |   |
| Al3                                                             | 168.0   | ppm   | .1974 % | 167.7 | 168.1 | 168.3 |   |   |
| Ca3                                                             | 15.40   | ppm   | .2554 % | 15.38 | 15.37 | 15.44 |   |   |
| Cu1                                                             | .1775   | ppm   | .0786 % | .1776 | .1776 | .1774 |   |   |
| Fe2                                                             | 261.4 H | ppm   | .2340 % | 261.1 | 261.0 | 262.1 |   |   |
| K 1                                                             | 2.904   | ppm   | 4.724 % | 2.779 | 2.882 | 3.051 |   |   |
| Mg4                                                             | 88.71   | ppm   | .4296 % | 88.71 | 88.33 | 89.09 |   |   |
| Mn1                                                             | 8.143   | ppm   | .1604 % | 8.136 | 8.135 | 8.158 |   |   |
| I                                                               | 2.675   | ppm   | 1.548 % | 2.667 | 2.720 | 2.639 |   |   |
| Zn3                                                             | .8398   | ppm   | .2523 % | .8391 | .8382 | .8422 |   |   |
| *** Sample ID: 285111D 12-2 Seq: 130 16:46:27 12 May 1999 ICP   |         |       |         |       |       |       |   |   |
|                                                                 |         |       | 1.03    |       |       |       |   |   |
| Al3                                                             | 181.3   | ppm   | 1.539 % | 178.2 | 182.2 | 183.5 |   |   |
| Ca3                                                             | 18.85   | ppm   | .6780 % | 18.70 | 18.90 | 18.94 |   |   |
| Cu1                                                             | .1706   | ppm   | 1.778 % | .1671 | .1726 | .1721 |   |   |
| Fe2                                                             | 258.1 H | ppm   | 1.075 % | 255.0 | 259.2 | 260.2 |   |   |
| K 1                                                             | 3.966   | ppm   | 4.334 % | 4.165 | 3.865 | 3.869 |   |   |
| Mg4                                                             | 87.15   | ppm   | .8785 % | 86.28 | 87.48 | 87.69 |   |   |
| Mn1                                                             | 6.659   | ppm   | 1.127 % | 6.575 | 6.684 | 6.719 |   |   |
| Na2                                                             | 2.360   | ppm   | 1.009 % | 2.337 | 2.357 | 2.384 |   |   |
| Zn3                                                             | 1.014   | ppm   | .8078 % | 1.005 | 1.021 | 1.016 |   |   |
| *** Sample ID: 285111S 12-2 Seq: 131 16:49:39 12 May 1999 ICP   |         |       |         |       |       |       |   |   |
|                                                                 |         |       | 1.00    |       |       |       |   |   |
| Al3                                                             | 164.7   | ppm   | 1.042 % | 166.6 | 164.2 | 163.3 |   |   |
| Ca3                                                             | 22.17   | ppm   | .3900 % | 22.27 | 22.13 | 22.11 |   |   |
| Cu1                                                             | .4501   | ppm   | .7037 % | .4537 | .4486 | .4479 |   |   |
| Fe2                                                             | 290.6 H | ppm   | .6917 % | 292.9 | 289.8 | 289.2 |   |   |
| K 1                                                             | 20.36   | ppm   | 2.342 % | 20.87 | 20.30 | 19.92 |   |   |
| Mg4                                                             | 78.96   | ppm   | .5785 % | 79.47 | 78.82 | 78.59 |   |   |
| Mn1                                                             | 6.929   | ppm   | .6302 % | 6.979 | 6.908 | 6.899 |   |   |
| Na2                                                             | 20.67   | ppm   | 1.172 % | 20.95 | 20.55 | 20.52 |   |   |
| ~ 3                                                             | 1.426   | ppm   | .1674 % | 1.429 | 1.424 | 1.426 |   |   |

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| Line                                                          | Conc.   | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|---------------------------------------------------------------|---------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: 285111A 12-2 Seq: 133 16:52:51 12 May 1999 ICP |         |       |         |       |       |       |   |   |
| Al3                                                           | 165.3   | ppm   | 1.691 % | 166.1 | 162.2 | 167.7 |   |   |
| Ca3                                                           | 17.18   | ppm   | .6010 % | 17.25 | 17.06 | 17.23 |   |   |
| Cu1                                                           | .4035   | ppm   | 1.838 % | .4047 | .3956 | .4103 |   |   |
| Fe2                                                           | 256.3 H | ppm   | 1.085 % | 257.3 | 253.2 | 258.5 |   |   |
| K 1                                                           | 21.81   | ppm   | 2.260 % | 22.11 | 21.24 | 22.08 |   |   |
| Mg4                                                           | 89.03   | ppm   | .8334 % | 89.47 | 88.17 | 89.45 |   |   |
| Mn1                                                           | 8.419   | ppm   | 1.046 % | 8.445 | 8.320 | 8.490 |   |   |
| Na2                                                           | 22.15   | ppm   | 1.624 % | 22.10 | 21.82 | 22.53 |   |   |
| Zn3                                                           | 1.327   | ppm   | .8735 % | 1.336 | 1.314 | 1.332 |   |   |
| *** Sample ID: 285111L 12-2 Seq: 134 16:56:03 12 May 1999 ICP |         |       |         |       |       |       |   |   |
| Al3                                                           | 33.43   | ppm   | .3697 % | 33.42 | 33.55 | 33.31 |   |   |
| Ca3                                                           | 3.173   | ppm   | .3754 % | 3.186 | 3.170 | 3.163 |   |   |
| Cu1                                                           | .0356   | ppm   | 3.598 % | .0343 | .0356 | .0369 |   |   |
| Fe2                                                           | 54.42   | ppm   | .3404 % | 54.51 | 54.55 | 54.21 |   |   |
| K 1                                                           | .7012 L | ppm   | 43.83 % | 1.016 | .6857 | .4019 |   |   |
| Mg4                                                           | 17.48   | ppm   | .7136 % | 17.62 | 17.42 | 17.39 |   |   |
| Mn1                                                           | 1.675   | ppm   | .5440 % | 1.678 | 1.683 | 1.665 |   |   |
|                                                               | .5433   | ppm   | 7.273 % | .5772 | .4999 | .5528 |   |   |
| Zn3                                                           | .1772   | ppm   | 2.070 % | .1814 | .1751 | .1751 |   |   |
| *** Sample ID: 285112 12-2 Seq: 135 16:59:15 12 May 1999 ICP  |         |       |         |       |       |       |   |   |
|                                                               |         |       | 1.01    |       |       |       |   |   |
| Al3                                                           | 139.2   | ppm   | 1.367 % | 139.5 | 141.0 | 137.2 |   |   |
| Ca3                                                           | 104.9   | ppm   | .7495 % | 105.1 | 105.6 | 104.0 |   |   |
| Cu1                                                           | .7656   | ppm   | 1.583 % | .7648 | .7781 | .7539 |   |   |
| Fe2                                                           | 277.7 H | ppm   | .9357 % | 278.4 | 279.9 | 274.9 |   |   |
| K 1                                                           | 4.683   | ppm   | 4.645 % | 4.451 | 4.716 | 4.882 |   |   |
| Mg4                                                           | 50.96   | ppm   | .7468 % | 51.09 | 51.27 | 50.54 |   |   |
| Mn1                                                           | 3.483   | ppm   | .9242 % | 3.486 | 3.514 | 3.450 |   |   |
| Na2                                                           | 2.712   | ppm   | .7668 % | 2.715 | 2.732 | 2.691 |   |   |
| Zn3                                                           | 5.356   | ppm   | .5081 % | 5.355 | 5.384 | 5.330 |   |   |
| *** Sample ID: 285113 12-2 Seq: 137 17:02:26 12 May 1999 ICP  |         |       |         |       |       |       |   |   |
|                                                               |         |       | 1.04    |       |       |       |   |   |
| Al3                                                           | 108.5   | ppm   | .2076 % | 108.4 | 108.4 | 108.8 |   |   |
| Ca3                                                           | 26.34   | ppm   | .1238 % | 26.31 | 26.38 | 26.34 |   |   |
| Cu1                                                           | .3340   | ppm   | .8570 % | .3314 | .3335 | .3371 |   |   |
| Fe2                                                           | 229.8 H | ppm   | .1701 % | 229.3 | 230.0 | 230.0 |   |   |
| K 1                                                           | 3.915   | ppm   | 8.035 % | 3.689 | 4.274 | 3.781 |   |   |
| Mg4                                                           | 51.05   | ppm   | .3061 % | 50.94 | 51.23 | 50.99 |   |   |
| Mn1                                                           | 5.254   | ppm   | .2243 % | 5.241 | 5.261 | 5.261 |   |   |
| Na2                                                           | 2.225   | ppm   | .9929 % | 2.250 | 2.210 | 2.214 |   |   |
| Zn3                                                           | 1.308   | ppm   | .2181 % | 1.305 | 1.309 | 1.310 |   |   |

| Line                                                         | Conc.    | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|--------------------------------------------------------------|----------|-------|----------|--------|--------|--------|---|---|
| *** Sample ID: 285114 12-2 Seq: 138 17:05:37 12 May 1999 ICP |          |       |          |        |        |        |   |   |
|                                                              |          |       | 1.05     |        |        |        |   |   |
| Al3                                                          | 46.00    | ppm   | .2813 %  | 45.96  | 46.14  | 45.89  |   |   |
| Ca3                                                          | 507.4    | ppm   | .1633 %  | 507.5  | 508.1  | 506.5  |   |   |
| Cu1                                                          | 4.327    | ppm   | .2074 %  | 4.317  | 4.334  | 4.330  |   |   |
| Fe2                                                          | 267.7 H  | ppm   | .1625 %  | 268.2  | 267.5  | 267.4  |   |   |
| K 1                                                          | 1.423 L  | ppm   | 17.09 %  | 1.334  | 1.236  | 1.698  |   |   |
| Mg4                                                          | 30.54    | ppm   | .0298 %  | 30.54  | 30.55  | 30.53  |   |   |
| Mn1                                                          | 4.435    | ppm   | .2025 %  | 4.445  | 4.431  | 4.428  |   |   |
| Na2                                                          | 2.951    | ppm   | 1.367 %  | 2.951  | 2.910  | 2.991  |   |   |
| Zn3                                                          | 21.75    | ppm   | .1888 %  | 21.76  | 21.80  | 21.71  |   |   |
| *** Sample ID: CCV 12-2 Seq: 139 17:08:48 12 May 1999 ICP    |          |       |          |        |        |        |   |   |
| Al3                                                          | 9.334    | ppm   | .6416 %  | 9.273  | 9.393  | 9.336  |   |   |
| Ca3                                                          | 48.34    | ppm   | .2856 %  | 48.18  | 48.39  | 48.44  |   |   |
| Cu1                                                          | 1.172    | ppm   | 1.068 %  | 1.158  | 1.183  | 1.176  |   |   |
| Fe2                                                          | 4.879    | ppm   | .6551 %  | 4.842  | 4.896  | 4.898  |   |   |
| K 1                                                          | 47.23    | ppm   | 1.121 %  | 46.63  | 47.44  | 47.62  |   |   |
| Mg4                                                          | 47.40    | ppm   | .2911 %  | 47.24  | 47.47  | 47.49  |   |   |
| Mn1                                                          | .7342    | ppm   | .8072 %  | .7273  | .7374  | .7378  |   |   |
| ?                                                            | 48.89    | ppm   | .9924 %  | 48.34  | 49.23  | 49.11  |   |   |
| Zn3                                                          | 1.050    | ppm   | .1274 %  | 1.051  | 1.048  | 1.050  |   |   |
| *** Sample ID: CCB 12-2 Seq: 141 17:11:59 12 May 1999 ICP    |          |       |          |        |        |        |   |   |
| Al3                                                          | .0047 L  | ppm   | 207.0 %  | .0151  | -.0040 | .0029  |   |   |
| Ca3                                                          | .0117 L  | ppm   | 36.62 %  | .0083  | .0103  | .0165  |   |   |
| Cu1                                                          | .0042 L  | ppm   | 10.25 %  | .0044  | .0045  | .0037  |   |   |
| Fe2                                                          | .0084 L  | ppm   | 30.33 %  | .0057  | .0086  | .0107  |   |   |
| K 1                                                          | -.0013 L | ppm   | -8383. % | .0674  | .0523  | -.1236 |   |   |
| Mg4                                                          | -.0039 L | ppm   | -626.5 % | -.0310 | .0024  | .0169  |   |   |
| Mn1                                                          | -.0003 L | ppm   | -158.2 % | .0002  | -.0005 | -.0006 |   |   |
| Na2                                                          | .0392 L  | ppm   | 136.7 %  | .1010  | .0124  | .0043  |   |   |
| Zn3                                                          | .0091 L  | ppm   | 13.74 %  | .0105  | .0083  | .0084  |   |   |
| *** Sample ID: 285115 12-2 Seq: 142 17:15:10 12 May 1999 ICP |          |       |          |        |        |        |   |   |
|                                                              |          |       | 1.07     |        |        |        |   |   |
| Al3                                                          | 103.3    | ppm   | .9230 %  | 104.4  | 102.5  | 103.0  |   |   |
| Ca3                                                          | 249.5    | ppm   | .4820 %  | 250.9  | 249.0  | 248.6  |   |   |
| Cu1                                                          | 2.463    | ppm   | 1.030 %  | 2.491  | 2.442  | 2.457  |   |   |
| Fe2                                                          | 281.8 H  | ppm   | .6685 %  | 284.0  | 280.5  | 281.1  |   |   |
| K 1                                                          | 2.281    | ppm   | 12.87 %  | 1.948  | 2.395  | 2.502  |   |   |
| Mg4                                                          | 55.02    | ppm   | .4384 %  | 55.28  | 54.95  | 54.82  |   |   |
| Mn1                                                          | 7.493    | ppm   | .6514 %  | 7.546  | 7.450  | 7.482  |   |   |
| Na2                                                          | 2.822    | ppm   | 1.467 %  | 2.853  | 2.838  | 2.775  |   |   |
| 3                                                            | 7.338    | ppm   | .4001 %  | 7.367  | 7.341  | 7.308  |   |   |

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| Line                  | Conc. | Units | SD/RSD  | 1        | 2                        | 3     | 4 | 5 |
|-----------------------|-------|-------|---------|----------|--------------------------|-------|---|---|
| -----                 |       |       |         |          |                          |       |   |   |
| *** Sample ID: 285440 |       |       | 12-2    | Seq: 143 | 17:18:21 12 May 1999 ICP |       |   |   |
|                       |       |       | 1.01    |          |                          |       |   |   |
| Al3                   | 39.98 | ppm   | .4067 % | 39.87    | 40.17                    | 39.91 |   |   |
| Ca3                   | 27.73 | ppm   | .1814 % | 27.70    | 27.79                    | 27.70 |   |   |
| Cu1                   | .2150 | ppm   | 1.342 % | .2127    | .2183                    | .2141 |   |   |
| Fe2                   | 178.2 | ppm   | .2657 % | 178.0    | 178.7                    | 177.8 |   |   |
| K 1                   | 2.893 | ppm   | 2.124 % | 2.869    | 2.847                    | 2.963 |   |   |
| Mg4                   | 19.36 | ppm   | .3087 % | 19.29    | 19.38                    | 19.40 |   |   |
| Mn1                   | 2.329 | ppm   | .1573 % | 2.328    | 2.333                    | 2.326 |   |   |
| Na2                   | 2.208 | ppm   | .3150 % | 2.213    | 2.211                    | 2.200 |   |   |
| Zn3                   | .4925 | ppm   | .7832 % | .4944    | .4949                    | .4880 |   |   |
|                       |       |       |         |          |                          |       |   |   |
| *** Sample ID: 285441 |       |       | 12-2    | Seq: 145 | 17:21:32 12 May 1999 ICP |       |   |   |
|                       |       |       | 1.02    |          |                          |       |   |   |
| Al3                   | 55.40 | ppm   | .4369 % | 55.23    | 55.30                    | 55.68 |   |   |
| Ca3                   | 46.77 | ppm   | .2964 % | 46.75    | 46.64                    | 46.92 |   |   |
| Cu1                   | .3179 | ppm   | .5351 % | .3181    | .3161                    | .3195 |   |   |
| Fe2                   | 119.9 | ppm   | .3020 % | 119.9    | 119.6                    | 120.3 |   |   |
| K 1                   | 7.645 | ppm   | 2.538 % | 7.466    | 7.618                    | 7.851 |   |   |
| Mg4                   | 12.14 | ppm   | .8606 % | 12.10    | 12.06                    | 12.26 |   |   |
| Mn1                   | 2.214 | ppm   | .2326 % | 2.217    | 2.208                    | 2.218 |   |   |
| 2                     | 2.565 | ppm   | 1.273 % | 2.602    | 2.549                    | 2.542 |   |   |
| Zn3                   | 1.404 | ppm   | .3406 % | 1.405    | 1.399                    | 1.408 |   |   |
|                       |       |       |         |          |                          |       |   |   |
| *** Sample ID: 285917 |       |       | 12-2    | Seq: 146 | 17:24:44 12 May 1999 ICP |       |   |   |
|                       |       |       | 1.03    |          |                          |       |   |   |
| Al3                   | 96.42 | ppm   | 1.492 % | 95.58    | 98.08                    | 95.60 |   |   |
| Ca3                   | 8.880 | ppm   | .7398 % | 8.841    | 8.956                    | 8.844 |   |   |
| Cu1                   | .2509 | ppm   | 1.076 % | .2498    | .2539                    | .2489 |   |   |
| Fe2                   | 218.8 | H ppm | .8823 % | 217.4    | 221.0                    | 218.0 |   |   |
| K 1                   | 7.440 | ppm   | 2.849 % | 7.372    | 7.677                    | 7.270 |   |   |
| Mg4                   | 14.10 | ppm   | 1.172 % | 13.99    | 14.29                    | 14.02 |   |   |
| Mn1                   | .9897 | ppm   | .7716 % | .9839    | .9984                    | .9869 |   |   |
| Na2                   | 2.668 | ppm   | 4.650 % | 2.719    | 2.760                    | 2.527 |   |   |
| Zn3                   | .5415 | ppm   | .8805 % | .5378    | .5469                    | .5399 |   |   |
|                       |       |       |         |          |                          |       |   |   |
| *** Sample ID: 285918 |       |       | 12-2    | Seq: 147 | 17:27:56 12 May 1999 ICP |       |   |   |
|                       |       |       | 1.09    |          |                          |       |   |   |
| Al3                   | 106.0 | ppm   | .9417 % | 105.6    | 107.1                    | 105.3 |   |   |
| Ca3                   | 15.62 | ppm   | .3910 % | 15.63    | 15.68                    | 15.56 |   |   |
| Cu1                   | .0552 | ppm   | 1.177 % | .0549    | .0559                    | .0547 |   |   |
| Fe2                   | 118.4 | ppm   | .5263 % | 118.2    | 119.1                    | 117.9 |   |   |
| K 1                   | 3.976 | ppm   | 1.399 % | 3.981    | 4.029                    | 3.918 |   |   |
| Mg4                   | 17.59 | ppm   | .6537 % | 17.56    | 17.72                    | 17.50 |   |   |
| Mn1                   | 1.077 | ppm   | .3215 % | 1.074    | 1.081                    | 1.076 |   |   |
| Na2                   | 3.373 | ppm   | 2.048 % | 3.294    | 3.407                    | 3.419 |   |   |
| 3                     | .6155 | ppm   | .4244 % | .6185    | .6137                    | .6144 |   |   |

| Line                                                         | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|--------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: CRIF 12-2 Seq: 149 17:31:09 12 May 1999 ICP   |        |       |         |        |        |        |   |   |
| Al3                                                          | .0045  | L ppm | 325.0 % | .0019  | -.0086 | .0202  |   |   |
| Ca3                                                          | .0286  | L ppm | 12.02 % | .0290  | .0249  | .0317  |   |   |
| Cu1                                                          | .0532  | ppm   | 2.690 % | .0536  | .0516  | .0543  |   |   |
| Fe2                                                          | .0206  | L ppm | 40.46 % | .0157  | .0159  | .0302  |   |   |
| K 1                                                          | .0772  | L ppm | 348.3 % | .3556  | -.1808 | .0567  |   |   |
| Mg4                                                          | .0081  | L ppm | 208.8 % | .0272  | -.0051 | .0022  |   |   |
| Mn1                                                          | .0365  | ppm   | 1.843 % | .0361  | .0361  | .0373  |   |   |
| Na2                                                          | .0102  | L ppm | 363.5 % | .0405  | -.0311 | .0212  |   |   |
| Zn3                                                          | .0514  | ppm   | 1.243 % | .0515  | .0507  | .0519  |   |   |
| *** Sample ID: ICSAF 12-2 Seq: 150 17:34:21 12 May 1999 ICP  |        |       |         |        |        |        |   |   |
| Al3                                                          | 426.9  | ppm   | .5646 % | 428.5  | 428.0  | 424.1  |   |   |
| Ca3                                                          | 454.9  | ppm   | .7051 % | 457.1  | 456.5  | 451.3  |   |   |
| Cu1                                                          | .0002  | L ppm | 746.5 % | .0011  | -.0014 | .0008  |   |   |
| Fe2                                                          | 161.8  | ppm   | .5571 % | 162.5  | 162.1  | 160.7  |   |   |
| K 1                                                          | -.0758 | L ppm | -151.6% | .0292  | -.0580 | -.1986 |   |   |
| Mg4                                                          | 472.9  | ppm   | .6519 % | 474.9  | 474.4  | 469.3  |   |   |
| Mn1                                                          | -.0057 | L ppm | -8.879% | -.0051 | -.0061 | -.0059 |   |   |
| Na2                                                          | .1901  | L ppm | 36.84 % | .2529  | .2028  | .1146  |   |   |
| Zn3                                                          | -.0017 | L ppm | -88.20% | -.0033 | -.0005 | -.0012 |   |   |
| *** Sample ID: ICSABF 12-2 Seq: 151 17:37:33 12 May 1999 ICP |        |       |         |        |        |        |   |   |
| Al3                                                          | 430.0  | ppm   | 1.537 % | 425.1  | 427.4  | 437.5  |   |   |
| Ca3                                                          | 459.2  | ppm   | .5243 % | 457.5  | 458.0  | 461.9  |   |   |
| Cu1                                                          | .4393  | ppm   | 1.462 % | .4338  | .4377  | .4464  |   |   |
| Fe2                                                          | 163.0  | ppm   | 1.011 % | 161.8  | 162.4  | 164.9  |   |   |
| K 1                                                          | .1065  | L ppm | 26.34 % | .0844  | .0970  | .1381  |   |   |
| Mg4                                                          | 477.2  | ppm   | .7207 % | 474.9  | 475.5  | 481.1  |   |   |
| Mn1                                                          | .4232  | ppm   | 1.156 % | .4194  | .4216  | .4287  |   |   |
| Na2                                                          | .2044  | L ppm | 6.409 % | .1894  | .2098  | .2139  |   |   |
| Zn3                                                          | .8465  | ppm   | .3988 % | .8493  | .8428  | .8474  |   |   |
| *** Sample ID: CCV 12-2 Seq: 153 17:40:45 12 May 1999 ICP    |        |       |         |        |        |        |   |   |
| Al3                                                          | 9.445  | ppm   | .9799 % | 9.426  | 9.363  | 9.546  |   |   |
| Ca3                                                          | 48.22  | ppm   | .4973 % | 48.32  | 47.95  | 48.40  |   |   |
| Cu1                                                          | 1.175  | ppm   | .8879 % | 1.177  | 1.164  | 1.185  |   |   |
| Fe2                                                          | 4.873  | ppm   | .7118 % | 4.870  | 4.839  | 4.908  |   |   |
| K 1                                                          | 47.76  | ppm   | .8558 % | 47.64  | 47.42  | 48.22  |   |   |
| Mg4                                                          | 47.40  | ppm   | .7646 % | 47.39  | 47.05  | 47.77  |   |   |
| Mn1                                                          | .7374  | ppm   | .5230 % | .7373  | .7337  | .7414  |   |   |
| Na2                                                          | 49.59  | ppm   | 1.208 % | 49.44  | 49.09  | 50.26  |   |   |
| Zn3                                                          | 1.004  | ppm   | .3456 % | 1.007  | 1.000  | 1.006  |   |   |

| Line                                                            | Conc.  | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|-----------------------------------------------------------------|--------|-------|----------|--------|--------|--------|---|---|
| *** Sample ID: CCB 12-2 Seq: 154 17:43:57 12 May 1999 ICP       |        |       |          |        |        |        |   |   |
| Al3                                                             | .0062  | L ppm | 87.03 %  | .0008  | .0062  | .0115  |   |   |
| Ca3                                                             | .0111  | L ppm | 36.06 %  | .0090  | .0086  | .0157  |   |   |
| Cu1                                                             | .0007  | L ppm | 53.36 %  | .0010  | .0003  | .0008  |   |   |
| Fe2                                                             | .0190  | L ppm | 12.54 %  | .0163  | .0208  | .0199  |   |   |
| K 1                                                             | .0585  | L ppm | 64.30 %  | .0264  | .0491  | .0998  |   |   |
| Mg4                                                             | .0114  | L ppm | 158.5 %  | .0323  | .0008  | .0011  |   |   |
| Mn1                                                             | -.0000 | L ppm | -8450. % | -.0006 | .0004  | .0002  |   |   |
| Na2                                                             | -.0160 | L ppm | -296.6 % | .0382  | -.0364 | -.0498 |   |   |
| Zn3                                                             | .0021  | L ppm | 61.69 %  | .0031  | .0007  | .0024  |   |   |
| *** Sample ID: PES 4-14 12-2 Seq: 155 17:47:10 12 May 1999 ICP  |        |       |          |        |        |        |   |   |
|                                                                 |        |       | 1.00     |        |        |        |   |   |
| Al3                                                             | .0005  | L ppm | 2321. %  | -.0132 | .0104  | .0043  |   |   |
| Ca3                                                             | .0514  | L ppm | 5.187 %  | .0485  | .0521  | .0537  |   |   |
| Cu1                                                             | .0804  | ppm   | 1.709 %  | .0796  | .0820  | .0797  |   |   |
| Fe2                                                             | .3769  | ppm   | .6996 %  | .3779  | .3790  | .3740  |   |   |
| K 1                                                             | .0624  | L ppm | 230.3 %  | -.0621 | .2196  | .0296  |   |   |
| Mg4                                                             | .0071  | L ppm | 142.1 %  | .0039  | .0184  | -.0010 |   |   |
| Mn1                                                             | .0034  | L ppm | 8.604 %  | .0033  | .0037  | .0032  |   |   |
|                                                                 | .0330  | L ppm | 83.21 %  | .0335  | .0601  | .0053  |   |   |
| Zn3                                                             | .0172  | ppm   | .3382 %  | .0172  | .0173  | .0173  |   |   |
| *** Sample ID: LCSS #239 12-2 Seq: 157 17:50:23 12 May 1999 ICP |        |       |          |        |        |        |   |   |
|                                                                 |        |       | 1.01     |        |        |        |   |   |
| Al3                                                             | 23.80  | ppm   | .4524 %  | 23.77  | 23.72  | 23.92  |   |   |
| Ca3                                                             | 5.983  | ppm   | .4123 %  | 6.004  | 5.956  | 5.991  |   |   |
| Cu1                                                             | .4613  | ppm   | .4959 %  | .4619  | .4588  | .4633  |   |   |
| Fe2                                                             | 39.54  | ppm   | .2785 %  | 39.61  | 39.41  | 39.60  |   |   |
| K 1                                                             | 6.797  | ppm   | 2.470 %  | 6.609  | 6.851  | 6.932  |   |   |
| Mg4                                                             | 5.305  | ppm   | .3772 %  | 5.328  | 5.290  | 5.298  |   |   |
| Mn1                                                             | 1.223  | ppm   | .2785 %  | 1.227  | 1.220  | 1.223  |   |   |
| Na2                                                             | 7.674  | ppm   | .8636 %  | 7.650  | 7.623  | 7.749  |   |   |
| Zn3                                                             | .9523  | ppm   | .6270 %  | .9565  | .9455  | .9549  |   |   |
| *** Sample ID: 283549 12-2 Seq: 158 17:53:36 12 May 1999 ICP    |        |       |          |        |        |        |   |   |
|                                                                 |        |       | 1.05     |        |        |        |   |   |
| Al3                                                             | 4.508  | ppm   | 1.518 %  | 4.557  | 4.536  | 4.430  |   |   |
| Ca3                                                             | 3.228  | ppm   | .6192 %  | 3.250  | 3.223  | 3.211  |   |   |
| Cu1                                                             | 707.1  | H ppm | 1.365 %  | 713.4  | 711.9  | 696.0  |   |   |
| Fe2                                                             | 1136.  | H ppm | 1.046 %  | 1144.  | 1141.  | 1122.  |   |   |
| K 1                                                             | .6509  | L ppm | 31.15 %  | .6264  | .4615  | .8648  |   |   |
| Mg4                                                             | 1.149  | ppm   | 2.806 %  | 1.186  | 1.133  | 1.128  |   |   |
| Mn1                                                             | 10.83  | ppm   | 1.235 %  | 10.91  | 10.90  | 10.67  |   |   |
| Na2                                                             | .5272  | ppm   | 4.515 %  | .5464  | .5006  | .5347  |   |   |
| Zn3                                                             | 57.59  | H ppm | .5718 %  | 57.89  | 57.65  | 57.24  |   |   |

| Line                                                         | Conc. | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|--------------------------------------------------------------|-------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: 283550 12-2 Seq: 159 17:56:49 12 May 1999 ICP |       |       |         |       |       |       |   |   |
|                                                              |       |       | 1.02    |       |       |       |   |   |
| Al3                                                          | 14.37 | ppm   | .9766 % | 14.31 | 14.54 | 14.28 |   |   |
| Ca3                                                          | 12.18 | ppm   | .7751 % | 12.09 | 12.28 | 12.17 |   |   |
| Cu1                                                          | 46.94 | ppm   | 1.360 % | 46.57 | 47.68 | 46.59 |   |   |
| Fe2                                                          | 21.00 | ppm   | .9024 % | 20.84 | 21.21 | 20.95 |   |   |
| K 1                                                          | 1.768 | L ppm | 6.750 % | 1.642 | 1.783 | 1.880 |   |   |
| Mg4                                                          | 5.233 | ppm   | .7299 % | 5.189 | 5.260 | 5.248 |   |   |
| Mn1                                                          | .3272 | ppm   | 1.139 % | .3234 | .3308 | .3274 |   |   |
| Na2                                                          | .6714 | ppm   | 3.566 % | .6603 | .6550 | .6989 |   |   |
| Zn3                                                          | 38.43 | ppm   | .7329 % | 38.13 | 38.69 | 38.45 |   |   |
| *** Sample ID: 283551 12-2 Seq: 161 18:00:02 12 May 1999 ICP |       |       |         |       |       |       |   |   |
|                                                              |       |       | 1.02    |       |       |       |   |   |
| Al3                                                          | .6875 | ppm   | .9363 % | .6861 | .6945 | .6818 |   |   |
| Ca3                                                          | 1.899 | ppm   | .5495 % | 1.888 | 1.900 | 1.909 |   |   |
| Cu1                                                          | 838.5 | H ppm | .1493 % | 837.9 | 839.9 | 837.6 |   |   |
| Fe2                                                          | 197.8 | ppm   | .4325 % | 197.2 | 198.8 | 197.3 |   |   |
| K 1                                                          | .5204 | L ppm | 5.968 % | .5553 | .5099 | .4960 |   |   |
| Mg4                                                          | .3094 | L ppm | 4.491 % | .3053 | .3249 | .2980 |   |   |
| Mn1                                                          | 1.602 | ppm   | .6326 % | 1.596 | 1.613 | 1.596 |   |   |
| ?                                                            | .3349 | L ppm | 18.41 % | .3473 | .2679 | .3893 |   |   |
| Zn3                                                          | 490.7 | H ppm | .1619 % | 491.1 | 491.2 | 489.8 |   |   |
| *** Sample ID: 283552 12-2 Seq: 162 18:03:15 12 May 1999 ICP |       |       |         |       |       |       |   |   |
|                                                              |       |       | 1.05    |       |       |       |   |   |
| Al3                                                          | 20.46 | ppm   | 1.271 % | 20.74 | 20.43 | 20.22 |   |   |
| Ca3                                                          | 29.92 | ppm   | .8022 % | 30.18 | 29.87 | 29.71 |   |   |
| Cu1                                                          | 9.551 | ppm   | 1.347 % | 9.693 | 9.518 | 9.442 |   |   |
| Fe2                                                          | 19.87 | ppm   | .9334 % | 20.07 | 19.80 | 19.72 |   |   |
| K 1                                                          | 2.167 | ppm   | 7.602 % | 2.005 | 2.162 | 2.334 |   |   |
| Mg4                                                          | 6.919 | ppm   | .6841 % | 6.972 | 6.904 | 6.880 |   |   |
| Mn1                                                          | .3007 | ppm   | .8491 % | .3025 | .3019 | .2978 |   |   |
| Na2                                                          | 2.457 | ppm   | 2.423 % | 2.467 | 2.510 | 2.393 |   |   |
| Zn3                                                          | 52.51 | H ppm | .5475 % | 52.81 | 52.45 | 52.25 |   |   |
| *** Sample ID: 283553 12-2 Seq: 163 18:06:28 12 May 1999 ICP |       |       |         |       |       |       |   |   |
|                                                              |       |       | 1.05    |       |       |       |   |   |
| Al3                                                          | 33.30 | ppm   | .5379 % | 33.46 | 33.33 | 33.11 |   |   |
| Ca3                                                          | 75.30 | ppm   | .2952 % | 75.51 | 75.33 | 75.07 |   |   |
| Cu1                                                          | 327.2 | H ppm | .6885 % | 329.1 | 327.7 | 324.7 |   |   |
| Fe2                                                          | 91.14 | ppm   | .4641 % | 91.40 | 91.37 | 90.65 |   |   |
| K 1                                                          | 3.937 | ppm   | .4927 % | 3.944 | 3.915 | 3.952 |   |   |
| Mg4                                                          | 9.795 | ppm   | .0878 % | 9.799 | 9.785 | 9.801 |   |   |
| Mn1                                                          | 2.224 | ppm   | .5889 % | 2.235 | 2.229 | 2.210 |   |   |
| Na2                                                          | 5.465 | ppm   | 1.294 % | 5.519 | 5.385 | 5.490 |   |   |
| Zn3                                                          | 39.78 | ppm   | .1773 % | 39.84 | 39.80 | 39.70 |   |   |

| Line                                                         | Conc. | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|--------------------------------------------------------------|-------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: 283554 12-2 Seq: 165 18:09:41 12 May 1999 ICP |       |       |         |       |       |       |   |   |
|                                                              |       |       | 1.03    |       |       |       |   |   |
| Al3                                                          | 2.510 | ppm   | .6193 % | 2.528 | 2.503 | 2.499 |   |   |
| Ca3                                                          | 3.555 | ppm   | .2812 % | 3.563 | 3.559 | 3.544 |   |   |
| Cu1                                                          | 4.484 | ppm   | .2015 % | 4.474 | 4.493 | 4.484 |   |   |
| Fe2                                                          | 4.339 | ppm   | .3292 % | 4.356 | 4.331 | 4.331 |   |   |
| K 1                                                          | .1810 | L ppm | 99.01 % | .3857 | .1051 | .0522 |   |   |
| Mg4                                                          | .9317 | ppm   | 2.905 % | .9409 | .9530 | .9013 |   |   |
| Mn1                                                          | .0529 | ppm   | 1.523 % | .0525 | .0539 | .0524 |   |   |
| Na2                                                          | .3637 | L ppm | 13.37 % | .4014 | .3088 | .3808 |   |   |
| Zn3                                                          | 2.268 | ppm   | .7116 % | 2.285 | 2.266 | 2.253 |   |   |
| *** Sample ID: 283555 12-2 Seq: 166 18:12:54 12 May 1999 ICP |       |       |         |       |       |       |   |   |
|                                                              |       |       | 1.07    |       |       |       |   |   |
| Al3                                                          | 493.5 | ppm   | .4440 % | 493.6 | 491.2 | 495.6 |   |   |
| Ca3                                                          | 1.703 | ppm   | .1717 % | 1.706 | 1.700 | 1.703 |   |   |
| Cu1                                                          | 284.3 | H ppm | .5348 % | 284.7 | 282.6 | 285.5 |   |   |
| Fe2                                                          | 3.613 | ppm   | .5411 % | 3.619 | 3.591 | 3.628 |   |   |
| K 1                                                          | .3031 | L ppm | 59.59 % | .3617 | .4471 | .1005 |   |   |
| Mg4                                                          | .7793 | ppm   | 4.534 % | .7662 | .8193 | .7523 |   |   |
| Mn1                                                          | .5827 | ppm   | .7578 % | .5798 | .5806 | .5878 |   |   |
| Na2                                                          | .4906 | L ppm | 12.22 % | .5493 | .4931 | .4294 |   |   |
| Zn3                                                          | 2397. | H ppm | .1342 % | 2400. | 2396. | 2394. |   |   |
| *** Sample ID: 283556 12-2 Seq: 167 18:16:07 12 May 1999 ICP |       |       |         |       |       |       |   |   |
|                                                              |       |       | 1.00    |       |       |       |   |   |
| Al3                                                          | 17.65 | ppm   | .4674 % | 17.71 | 17.69 | 17.56 |   |   |
| Ca3                                                          | 24.14 | ppm   | .2399 % | 24.19 | 24.15 | 24.07 |   |   |
| Cu1                                                          | 157.2 | H ppm | .6699 % | 157.9 | 157.7 | 156.0 |   |   |
| Fe2                                                          | 21.34 | ppm   | .5649 % | 21.43 | 21.38 | 21.20 |   |   |
| K 1                                                          | 2.033 | ppm   | 14.24 % | 2.335 | 2.007 | 1.758 |   |   |
| Mg4                                                          | 6.480 | ppm   | .6229 % | 6.519 | 6.438 | 6.482 |   |   |
| Mn1                                                          | .2972 | ppm   | .5345 % | .2980 | .2984 | .2954 |   |   |
| Na2                                                          | 2.245 | ppm   | 2.351 % | 2.193 | 2.243 | 2.299 |   |   |
| Zn3                                                          | 48.05 | ppm   | .3234 % | 48.22 | 48.03 | 47.91 |   |   |
| *** Sample ID: CCV 12-2 Seq: 169 18:19:20 12 May 1999 ICP    |       |       |         |       |       |       |   |   |
| Al3                                                          | 9.452 | ppm   | 1.305 % | 9.561 | 9.318 | 9.477 |   |   |
| Ca3                                                          | 48.24 | ppm   | .6555 % | 48.59 | 47.97 | 48.16 |   |   |
| Cu1                                                          | 1.490 | ppm   | 1.941 % | 1.523 | 1.469 | 1.479 |   |   |
| Fe2                                                          | 4.826 | ppm   | .7793 % | 4.867 | 4.794 | 4.818 |   |   |
| K 1                                                          | 48.20 | ppm   | 1.898 % | 49.19 | 47.39 | 48.02 |   |   |
| Mg4                                                          | 48.11 | ppm   | .8355 % | 48.54 | 47.75 | 48.05 |   |   |
| Mn1                                                          | .7459 | ppm   | .7051 % | .7507 | .7403 | .7467 |   |   |
| Na2                                                          | 49.97 | ppm   | 1.171 % | 50.32 | 49.30 | 50.30 |   |   |
| Zn3                                                          | 4.157 | ppm   | 1.379 % | 4.223 | 4.125 | 4.123 |   |   |

| Line                  | Conc.  | Units | SD/RSD  | 1        | 2                        | 3      | 4 | 5 |
|-----------------------|--------|-------|---------|----------|--------------------------|--------|---|---|
| -----                 |        |       |         |          |                          |        |   |   |
| *** Sample ID: CCB    |        |       | 12-2    | Seq: 170 | 18:22:33 12 May 1999 ICP |        |   |   |
| Al3                   | -.0093 | L ppm | -252.1% | -.0101   | -.0325                   | .0146  |   |   |
| Ca3                   | .0021  | L ppm | 224.2 % | -.0016   | .0004                    | .0076  |   |   |
| Cu1                   | .2242  | ppm   | 3.682 % | .2329    | .2234                    | .2164  |   |   |
| Fe2                   | -.0021 | L ppm | -94.51% | -.0033   | .0002                    | -.0032 |   |   |
| K 1                   | .1912  | L ppm | 65.98 % | .0513    | .2261                    | .2963  |   |   |
| Mg4                   | -.0063 | L ppm | -67.52% | -.0103   | -.0018                   | -.0068 |   |   |
| Mn1                   | .0005  | L ppm | 38.55 % | .0005    | .0003                    | .0007  |   |   |
| Na2                   | -.0424 | L ppm | -52.75% | -.0682   | -.0289                   | -.0301 |   |   |
| Zn3                   | 2.789  | ppm   | 2.371 % | 2.839    | 2.814                    | 2.714  |   |   |
|                       |        |       |         |          |                          |        |   |   |
| *** Sample ID: 283557 |        |       | 12-2    | Seq: 171 | 18:25:46 12 May 1999 ICP |        |   |   |
|                       |        |       | 1.08    |          |                          |        |   |   |
| Al3                   | 17.51  | ppm   | .3826 % | 17.48    | 17.47                    | 17.59  |   |   |
| Ca3                   | 45.50  | ppm   | .2487 % | 45.41    | 45.46                    | 45.63  |   |   |
| Cu1                   | 241.7  | H ppm | .4876 % | 241.4    | 240.7                    | 243.0  |   |   |
| Fe2                   | 43.68  | ppm   | .3508 % | 43.60    | 43.58                    | 43.85  |   |   |
| K 1                   | 2.380  | ppm   | 3.238 % | 2.296    | 2.449                    | 2.394  |   |   |
| Mg4                   | 7.064  | ppm   | .5848 % | 7.025    | 7.058                    | 7.107  |   |   |
| Mn1                   | .4982  | ppm   | .3419 % | .4983    | .4964                    | .4998  |   |   |
| ?                     | 3.862  | ppm   | 1.665 % | 3.913    | 3.790                    | 3.883  |   |   |
| Zn3                   | 51.54  | H ppm | .2338 % | 51.48    | 51.46                    | 51.68  |   |   |
|                       |        |       |         |          |                          |        |   |   |
| *** Sample ID: 283558 |        |       | 12-2    | Seq: 173 | 18:28:59 12 May 1999 ICP |        |   |   |
|                       |        |       | 1.04    |          |                          |        |   |   |
| Al3                   | 17.06  | ppm   | 1.253 % | 16.90    | 16.97                    | 17.30  |   |   |
| Ca3                   | 24.25  | ppm   | .6127 % | 24.17    | 24.16                    | 24.42  |   |   |
| Cu1                   | 201.0  | H ppm | 1.689 % | 198.8    | 199.2                    | 204.9  |   |   |
| Fe2                   | 23.59  | ppm   | .9939 % | 23.44    | 23.48                    | 23.86  |   |   |
| K 1                   | 2.029  | ppm   | 3.725 % | 2.055    | 2.089                    | 1.944  |   |   |
| Mg4                   | 6.166  | ppm   | .2764 % | 6.169    | 6.148                    | 6.182  |   |   |
| Mn1                   | .2900  | ppm   | 1.463 % | .2869    | .2883                    | .2949  |   |   |
| Na2                   | 1.132  | ppm   | 6.134 % | 1.183    | 1.053                    | 1.160  |   |   |
| Zn3                   | 48.23  | ppm   | .4444 % | 48.10    | 48.11                    | 48.48  |   |   |
|                       |        |       |         |          |                          |        |   |   |
| *** Sample ID: 283559 |        |       | 12-2    | Seq: 174 | 18:32:12 12 May 1999 ICP |        |   |   |
|                       |        |       | 1.02    |          |                          |        |   |   |
| Al3                   | 17.60  | ppm   | .8154 % | 17.44    | 17.65                    | 17.72  |   |   |
| Ca3                   | 22.11  | ppm   | .2453 % | 22.05    | 22.12                    | 22.15  |   |   |
| Cu1                   | 215.7  | H ppm | 1.101 % | 213.0    | 216.4                    | 217.5  |   |   |
| Fe2                   | 23.03  | ppm   | .6241 % | 22.87    | 23.14                    | 23.09  |   |   |
| K 1                   | 2.103  | ppm   | 3.406 % | 2.133    | 2.155                    | 2.021  |   |   |
| Mg4                   | 6.216  | ppm   | .6836 % | 6.211    | 6.261                    | 6.177  |   |   |
| Mn1                   | .3230  | ppm   | .9184 % | .3196    | .3253                    | .3240  |   |   |
| Na2                   | 1.351  | ppm   | 6.421 % | 1.251    | 1.407                    | 1.395  |   |   |
| 3                     | 54.23  | H ppm | .1988 % | 54.12    | 54.34                    | 54.24  |   |   |

0177

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: 283560 12-2 Seq: 175 18:35:25 12 May 1999 ICP  
1.12

|     |         |     |         |       |       |       |  |  |
|-----|---------|-----|---------|-------|-------|-------|--|--|
| Al3 | 4.703   | ppm | .2690 % | 4.689 | 4.713 | 4.708 |  |  |
| Ca3 | 8.381   | ppm | .3900 % | 8.405 | 8.344 | 8.395 |  |  |
| Cu1 | 607.8 H | ppm | .9250 % | 603.9 | 605.3 | 614.2 |  |  |
| Fe2 | 1961. H | ppm | .2262 % | 1965. | 1960. | 1957. |  |  |
| K 1 | .4291 L | ppm | 11.27 % | .4032 | .3993 | .4849 |  |  |
| Mg4 | 1.464   | ppm | 1.076 % | 1.447 | 1.477 | 1.469 |  |  |
| Mn1 | 21.84   | ppm | .3281 % | 21.80 | 21.80 | 21.93 |  |  |
| Na2 | .4602 L | ppm | 9.584 % | .4094 | .4818 | .4892 |  |  |
| Zn3 | 45.06   | ppm | .1609 % | 45.12 | 44.98 | 45.09 |  |  |

\*\*\* Sample ID: 283560D 12-2 Seq: 177 18:38:40 12 May 1999 ICP  
1.05

|     |         |     |         |       |       |       |  |  |
|-----|---------|-----|---------|-------|-------|-------|--|--|
| Al3 | 4.704   | ppm | .6224 % | 4.696 | 4.680 | 4.737 |  |  |
| Ca3 | 7.896   | ppm | .1351 % | 7.900 | 7.884 | 7.904 |  |  |
| Cu1 | 443.6 H | ppm | .5533 % | 445.1 | 440.6 | 445.2 |  |  |
| Fe2 | 1750. H | ppm | .1072 % | 1749. | 1753. | 1747. |  |  |
| K 1 | .5088 L | ppm | 3.004 % | .4650 | .5564 | .5051 |  |  |
| Mg4 | 1.494   | ppm | 2.412 % | 1.489 | 1.532 | 1.460 |  |  |
| Mn1 | 18.86   | ppm | .1252 % | 18.84 | 18.86 | 18.89 |  |  |
| Na2 | .3913 L | ppm | 12.26 % | .4259 | .4115 | .3365 |  |  |
| Zn3 | 39.64   | ppm | .1165 % | 39.59 | 39.66 | 39.68 |  |  |

\*\*\* Sample ID: 283560S 12-2 Seq: 178 18:41:55 12 May 1999 ICP  
1.12

|     |          |     |          |        |        |        |  |  |
|-----|----------|-----|----------|--------|--------|--------|--|--|
| Al3 | .0094 L  | ppm | 66.66 %  | .0164  | .0075  | .0043  |  |  |
| Ca3 | -.0011 L | ppm | -99.88 % | -.0013 | .0001  | -.0021 |  |  |
| Cu1 | .0305    | ppm | 6.809 %  | .0329  | .0298  | .0289  |  |  |
| Fe2 | .0312 L  | ppm | 21.02 %  | .0386  | .0286  | .0263  |  |  |
| K 1 | -.1408 L | ppm | -78.50 % | -.1970 | -.2121 | -.0135 |  |  |
| Mg4 | .0138 L  | ppm | 6.170 %  | .0145  | .0141  | .0129  |  |  |
| Mn1 | .0002 L  | ppm | 79.95 %  | .0001  | .0004  | .0001  |  |  |
| Na2 | -.0357 L | ppm | -217.6 % | .0451  | -.0422 | -.1100 |  |  |
| Zn3 | .0898    | ppm | 13.11 %  | .1019  | .0890  | .0784  |  |  |

Sample not  
poured up in  
cup Repeat  
entire QC  
sample

\*\*\* Sample ID: 283560A 12-2 Seq: 179 18:45:10 12 May 1999 ICP

|     |         |     |         |       |       |       |  |  |
|-----|---------|-----|---------|-------|-------|-------|--|--|
| Al3 | 6.607   | ppm | .9109 % | 6.675 | 6.581 | 6.563 |  |  |
| Ca3 | 9.560   | ppm | .1835 % | 9.561 | 9.576 | 9.541 |  |  |
| Cu1 | 446.6 H | ppm | 1.066 % | 451.6 | 446.1 | 442.1 |  |  |
| Fe2 | 1717. H | ppm | .0199 % | 1717. | 1717. | 1716. |  |  |
| K 1 | 19.79   | ppm | 1.770 % | 20.19 | 19.56 | 19.61 |  |  |
| Mg4 | 3.175   | ppm | 1.161 % | 3.208 | 3.136 | 3.183 |  |  |
| Mn1 | 19.15   | ppm | .2064 % | 19.19 | 19.15 | 19.11 |  |  |
| Na2 | 20.74   | ppm | .9035 % | 20.92 | 20.77 | 20.54 |  |  |
| Zn3 | 38.98   | ppm | .1026 % | 38.93 | 38.98 | 39.01 |  |  |

| Line                   | Conc.  | Units | SD/RSD  | 1        | 2                        | 3      | 4 | 5 |
|------------------------|--------|-------|---------|----------|--------------------------|--------|---|---|
| <hr/>                  |        |       |         |          |                          |        |   |   |
| *** Sample ID: 283560L |        |       | 12-2    | Seq: 181 | 18:48:25 12 May 1999 ICP |        |   |   |
| Al3                    | 1.009  | ppm   | 1.338 % | 1.025    | .9987                    | 1.005  |   |   |
| Ca3                    | 1.853  | ppm   | .6153 % | 1.855    | 1.841                    | 1.863  |   |   |
| Cu1                    | 98.05  | ppm   | 1.741 % | 99.43    | 96.14                    | 98.58  |   |   |
| Fe2                    | 501.9  | H ppm | .9094 % | 504.9    | 496.7                    | 504.1  |   |   |
| K 1                    | .2748  | L ppm | 68.85 % | .1000    | .2486                    | .4757  |   |   |
| Mg4                    | .3086  | L ppm | 7.760 % | .3079    | .2849                    | .3328  |   |   |
| Mn1                    | 4.859  | ppm   | .9708 % | 4.891    | 4.805                    | 4.881  |   |   |
| Na2                    | .1009  | L ppm | 21.41 % | .0848    | .0925                    | .1255  |   |   |
| Zn3                    | 9.798  | ppm   | .6133 % | 9.824    | 9.730                    | 9.841  |   |   |
| <hr/>                  |        |       |         |          |                          |        |   |   |
| *** Sample ID: CCV     |        |       | 12-2    | Seq: 182 | 18:51:40 12 May 1999 ICP |        |   |   |
| Al3                    | 9.639  | ppm   | 1.434 % | 9.505    | 9.781                    | 9.631  |   |   |
| Ca3                    | 48.23  | ppm   | .6672 % | 47.87    | 48.37                    | 48.47  |   |   |
| Cu1                    | 1.242  | ppm   | 1.381 % | 1.223    | 1.256                    | 1.249  |   |   |
| Fe2                    | 5.029  | ppm   | 1.222 % | 4.962    | 5.043                    | 5.082  |   |   |
| K 1                    | 48.71  | ppm   | 2.008 % | 47.63    | 49.53                    | 48.98  |   |   |
| Mg4                    | 48.02  | ppm   | .3899 % | 47.80    | 48.12                    | 48.13  |   |   |
| Mn1                    | .7467  | ppm   | 1.024 % | .7390    | .7543                    | .7470  |   |   |
| Na2                    | 50.51  | ppm   | 1.716 % | 49.57    | 51.27                    | 50.70  |   |   |
| Zn3                    | 1.220  | ppm   | .6801 % | 1.228    | 1.221                    | 1.211  |   |   |
| <hr/>                  |        |       |         |          |                          |        |   |   |
| *** Sample ID: CCB     |        |       | 12-2    | Seq: 183 | 18:54:55 12 May 1999 ICP |        |   |   |
| Al3                    | .0050  | L ppm | 333.1 % | .0166    | -.0141                   | .0126  |   |   |
| Ca3                    | .0071  | L ppm | 1.969 % | .0071    | .0069                    | .0072  |   |   |
| Cu1                    | .1007  | ppm   | 1.474 % | .1009    | .1020                    | .0990  |   |   |
| Fe2                    | .0862  | L ppm | 3.122 % | .0893    | .0848                    | .0845  |   |   |
| K 1                    | .2157  | L ppm | 54.63 % | .1311    | .3502                    | .1657  |   |   |
| Mg4                    | .0111  | L ppm | 170.5 % | .0206    | -.0107                   | .0236  |   |   |
| Mn1                    | .0004  | L ppm | 96.68 % | .0001    | .0002                    | .0009  |   |   |
| Na2                    | .0343  | L ppm | 78.01 % | .0428    | .0043                    | .0559  |   |   |
| Zn3                    | .1505  | ppm   | 3.331 % | .1559    | .1499                    | .1459  |   |   |
| <hr/>                  |        |       |         |          |                          |        |   |   |
| *** Sample ID: CRIF    |        |       | 12-2    | Seq: 185 | 18:58:10 12 May 1999 ICP |        |   |   |
| Al3                    | -.0076 | L ppm | -121.4% | -.0177   | .0007                    | -.0059 |   |   |
| Ca3                    | .0155  | L ppm | 20.06 % | .0123    | .0185                    | .0157  |   |   |
| Cu1                    | .1330  | ppm   | 1.665 % | .1308    | .1352                    | .1329  |   |   |
| Fe2                    | .0937  | L ppm | 7.026 % | .0865    | .0993                    | .0954  |   |   |
| K 1                    | .0487  | L ppm | 497.3 % | -.0923   | .3287                    | -.0901 |   |   |
| Mg4                    | .0020  | L ppm | 878.6 % | -.0120   | .0219                    | -.0038 |   |   |
| Mn1                    | .0363  | ppm   | 1.358 % | .0365    | .0358                    | .0367  |   |   |
| Na2                    | -.0485 | L ppm | -45.56% | -.0345   | -.0740                   | -.0370 |   |   |
| Zn3                    | .1303  | ppm   | .4990 % | .1307    | .1307                    | .1296  |   |   |

| Line                                                         | Conc.    | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|--------------------------------------------------------------|----------|-------|---------|--------|--------|--------|---|---|
| <hr/>                                                        |          |       |         |        |        |        |   |   |
| *** Sample ID: ICSAF 12-2 Seq: 186 19:01:25 12 May 1999 ICP  |          |       |         |        |        |        |   |   |
| Al3                                                          | 433.4    | ppm   | .8583 % | 430.2  | 437.5  | 432.4  |   |   |
| Ca3                                                          | 453.4    | ppm   | .4714 % | 451.2  | 455.4  | 453.7  |   |   |
| Cu1                                                          | .0726    | ppm   | 2.760 % | .0713  | .0749  | .0716  |   |   |
| Fe2                                                          | 161.3    | ppm   | .4957 % | 160.4  | 162.0  | 161.3  |   |   |
| K 1                                                          | .1558 L  | ppm   | 207.4 % | .2229  | .4402  | -.1957 |   |   |
| Mg4                                                          | 473.3    | ppm   | .4725 % | 471.0  | 475.5  | 473.4  |   |   |
| Mn1                                                          | -.0059 L | ppm   | -9.253% | -.0065 | -.0058 | -.0055 |   |   |
| Na2                                                          | .0957 L  | ppm   | 26.70 % | .1251  | .0834  | .0786  |   |   |
| Zn3                                                          | .0424    | ppm   | 4.299 % | .0441  | .0425  | .0405  |   |   |
| *** Sample ID: ICSABF 12-2 Seq: 187 19:04:40 12 May 1999 ICP |          |       |         |        |        |        |   |   |
| Al3                                                          | 432.9    | ppm   | .8034 % | 432.2  | 429.9  | 436.7  |   |   |
| Ca3                                                          | 458.3    | ppm   | .4658 % | 457.6  | 456.5  | 460.6  |   |   |
| Cu1                                                          | .4649    | ppm   | 1.041 % | .4629  | .4614  | .4704  |   |   |
| Fe2                                                          | 162.2    | ppm   | .4684 % | 162.0  | 161.6  | 163.1  |   |   |
| K 1                                                          | .0386 L  | ppm   | 238.6 % | -.0198 | .1446  | -.0091 |   |   |
| Mg4                                                          | 477.3    | ppm   | .4084 % | 476.5  | 475.8  | 479.5  |   |   |
| Mn1                                                          | .4229    | ppm   | 1.014 % | .4222  | .4190  | .4275  |   |   |
| Na2                                                          | .1750 L  | ppm   | 17.38 % | .1935  | .1916  | .1399  |   |   |
| Zn3                                                          | .8186    | ppm   | .3237 % | .8169  | .8174  | .8217  |   |   |
| *** Sample ID: CCV 12-2 Seq: 189 19:07:55 12 May 1999 ICP    |          |       |         |        |        |        |   |   |
| Al3                                                          | 9.598    | ppm   | 1.036 % | 9.485  | 9.638  | 9.672  |   |   |
| Ca3                                                          | 48.13    | ppm   | .4672 % | 47.91  | 48.13  | 48.36  |   |   |
| Cu1                                                          | 1.143    | ppm   | 1.474 % | 1.125  | 1.146  | 1.158  |   |   |
| Fe2                                                          | 4.871    | ppm   | .9872 % | 4.816  | 4.888  | 4.908  |   |   |
| K 1                                                          | 48.50    | ppm   | 1.436 % | 48.02  | 48.19  | 49.30  |   |   |
| Mg4                                                          | 47.42    | ppm   | .6732 % | 47.22  | 47.26  | 47.79  |   |   |
| Mn1                                                          | .7409    | ppm   | 1.080 % | .7327  | .7413  | .7487  |   |   |
| Na2                                                          | 50.66    | ppm   | 1.812 % | 49.69  | 50.78  | 51.51  |   |   |
| Zn3                                                          | .9541    | ppm   | .5332 % | .9560  | .9484  | .9580  |   |   |
| *** Sample ID: CCB 12-2 Seq: 190 19:11:10 12 May 1999 ICP    |          |       |         |        |        |        |   |   |
| Al3                                                          | .0001 L  | ppm   | 3598. % | -.0020 | .0056  | -.0032 |   |   |
| Ca3                                                          | .0118 L  | ppm   | 33.02 % | .0081  | .0114  | .0159  |   |   |
| Cu1                                                          | .0441    | ppm   | 2.243 % | .0447  | .0430  | .0447  |   |   |
| Fe2                                                          | .0548 L  | ppm   | 6.822 % | .0512  | .0546  | .0586  |   |   |
| K 1                                                          | -.2204 L | ppm   | -72.00% | -.3535 | -.2628 | -.0448 |   |   |
| Mg4                                                          | .0255 L  | ppm   | 57.30 % | .0114  | .0247  | .0406  |   |   |
| Mn1                                                          | -.0001 L | ppm   | -302.0% | .0000  | .0001  | -.0004 |   |   |
| Na2                                                          | -.0860 L | ppm   | -30.01% | -.0827 | -.1133 | -.0620 |   |   |
| Zn3                                                          | .0243    | ppm   | 1.500 % | .0243  | .0239  | .0246  |   |   |

d

0180

## Metals Cover Page

Analyst: M. Niezgoda

Date: 5/13/99

Instrument: Leeman

File Name: 13-1

Reviewed By: CK Data Entered By: CK Manager Approval: CK 5/13 ✓  
CK 5/14 ✓

| Starlims Run # | Analytes Used      | Comments/<br>Problems                                                                        |
|----------------|--------------------|----------------------------------------------------------------------------------------------|
| <u>38130</u> ✓ | <u>Zn</u>          |                                                                                              |
| <u>38147</u> ✓ | <u>Fe &amp; Na</u> | <u>Final CCB out b/c of</u><br><u>high Iron in samples.</u><br><u>Samples 10x CCB - used</u> |
|                |                    |                                                                                              |
|                |                    |                                                                                              |

**Submission #'s needing PKG 5 or ASP Report**  
 (Place check mark in space provided when copy of raw data is made.)

| Sub #        | Run<br>Copy | Stds |
|--------------|-------------|------|
| <u>4-108</u> |             | ✓    |
|              |             |      |
|              |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

6445 PS3000  
12:28:44 13 May 1999

Folder: 05-13-99  
Protocol: CLP-SM

Page 1

| Line                   | Conc. | Units | SD/RSD      | 1      | 2                        | 3 | 4     | 5 |
|------------------------|-------|-------|-------------|--------|--------------------------|---|-------|---|
| *** Standard: 1 Rep: 1 |       |       |             | Seq: 6 | 12:28:44 13 May 1999 ICP |   |       |   |
| Ag1                    | .0000 | ppm   | 4688        | -1090  | 20348                    |   |       |   |
|                        |       |       | Ave. Int. = | 7982   | S. D. =                  |   | 11092 |   |
| Al3                    | .0000 | ppm   | 2248        | -1662  | 6330                     |   |       |   |
|                        |       |       | Ave. Int. = | 2305   | S. D. =                  |   | 3996  |   |
| As2                    | .0000 | ppm   | 1799        | 1157   | 1443                     |   |       |   |
|                        |       |       | Ave. Int. = | 1466   | S. D. =                  |   | 322   |   |
| Ba1                    | .0000 | ppm   | 51956       | 42829  | 54002                    |   |       |   |
|                        |       |       | Ave. Int. = | 49596  | S. D. =                  |   | 5949  |   |
| Be2                    | .0000 | ppm   | -12388      | -11812 | -12171                   |   |       |   |
|                        |       |       | Ave. Int. = | -12124 | S. D. =                  |   | 291   |   |
| Ca3                    | .0000 | ppm   | 24880       | 25049  | 32209                    |   |       |   |
|                        |       |       | Ave. Int. = | 27379  | S. D. =                  |   | 4183  |   |
| Cd1                    | .0000 | ppm   | -54868      | -55772 | -52583                   |   |       |   |
|                        |       |       | Ave. Int. = | -54408 | S. D. =                  |   | 1644  |   |
| Co1                    | .0000 | ppm   | 3117        | 2550   | 3098                     |   |       |   |
|                        |       |       | Ave. Int. = | 2922   | S. D. =                  |   | 322   |   |
| Cr4                    | .0000 | ppm   | 3448        | 4718   | 7000                     |   |       |   |
|                        |       |       | Ave. Int. = | 5055   | S. D. =                  |   | 1800  |   |
| Cu1                    | .0000 | ppm   | 77657       | 72956  | 75468                    |   |       |   |
|                        |       |       | Ave. Int. = | 75360  | S. D. =                  |   | 2352  |   |
| Fe2                    | .0000 | ppm   | 15940       | 17293  | 18269                    |   |       |   |
|                        |       |       | Ave. Int. = | 17167  | S. D. =                  |   | 1170  |   |
| K 1                    | .0000 | ppm   | 1188        | 1303   | 1134                     |   |       |   |
|                        |       |       | Ave. Int. = | 1208   | S. D. =                  |   | 86    |   |
| Mg4                    | .0000 | ppm   | -1119       | -2660  | -1173                    |   |       |   |
|                        |       |       | Ave. Int. = | -1651  | S. D. =                  |   | 875   |   |
| Mn1                    | .0000 | ppm   | 2360        | 2176   | 2512                     |   |       |   |
|                        |       |       | Ave. Int. = | 2349   | S. D. =                  |   | 168   |   |
| Na2                    | .0000 | ppm   | 1835        | -969   | 2334                     |   |       |   |
|                        |       |       | Ave. Int. = | 1067   | S. D. =                  |   | 1781  |   |
| Ni3                    | .0000 | ppm   | 4426        | 6381   | 6825                     |   |       |   |
|                        |       |       | Ave. Int. = | 5877   | S. D. =                  |   | 1276  |   |
| Pb1                    | .0000 | ppm   | -14805      | -12843 | -15389                   |   |       |   |
|                        |       |       | Ave. Int. = | -14346 | S. D. =                  |   | 1334  |   |
| Sb1                    | .0000 | ppm   | 9607        | 8811   | 7778                     |   |       |   |
|                        |       |       | Ave. Int. = | 8732   | S. D. =                  |   | 917   |   |
| Se4                    | .0000 | ppm   | -3096       | -4854  | -3869                    |   |       |   |
|                        |       |       | Ave. Int. = | -3940  | S. D. =                  |   | 881   |   |
| Tl1                    | .0000 | ppm   | -2864       | -4572  | -3937                    |   |       |   |
|                        |       |       | Ave. Int. = | -3791  | S. D. =                  |   | 863   |   |
| V 2                    | .0000 | ppm   | 22039       | 22419  | 23524                    |   |       |   |
|                        |       |       | Ave. Int. = | 22661  | S. D. =                  |   | 771   |   |
| Z 3                    | .0000 | ppm   | 8990        | 8176   | 9344                     |   |       |   |
|                        |       |       | Ave. Int. = | 8837   | S. D. =                  |   | 599   |   |

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IS P53000  
12:29:39 13 May 1999

Folder: 05-13-99  
Protocol: CLP-SM

Page 2

| Line                   | Conc. | Units | SD/RSD      | 1      | 2                        | 3 | 4    | 5 |
|------------------------|-------|-------|-------------|--------|--------------------------|---|------|---|
| *** Standard: 1 Rep: 2 |       |       |             | Seq: 7 | 12:29:39 13 May 1999 ICP |   |      |   |
| Ag1                    | .0000 | ppm   | 14800       | 8126   | 3368                     |   |      |   |
|                        |       |       | Ave. Int. = | 8765   | S. D. =                  |   | 5743 |   |
| Al3                    | .0000 | ppm   | 145         | 1517   | 5165                     |   |      |   |
|                        |       |       | Ave. Int. = | 2276   | S. D. =                  |   | 2595 |   |
| As2                    | .0000 | ppm   | 79          | -495   | -441                     |   |      |   |
|                        |       |       | Ave. Int. = | -286   | S. D. =                  |   | 317  |   |
| Ba1                    | .0000 | ppm   | 56723       | 65992  | 66892                    |   |      |   |
|                        |       |       | Ave. Int. = | 63202  | S. D. =                  |   | 5629 |   |
| Be2                    | .0000 | ppm   | -12837      | -11680 | -12294                   |   |      |   |
|                        |       |       | Ave. Int. = | -12270 | S. D. =                  |   | 579  |   |
| Ca3                    | .0000 | ppm   | 30475       | 27616  | 30102                    |   |      |   |
|                        |       |       | Ave. Int. = | 29398  | S. D. =                  |   | 1554 |   |
| Cd1                    | .0000 | ppm   | -67211      | -61065 | -62575                   |   |      |   |
|                        |       |       | Ave. Int. = | -63617 | S. D. =                  |   | 3203 |   |
| Co1                    | .0000 | ppm   | 3464        | 2648   | 3304                     |   |      |   |
|                        |       |       | Ave. Int. = | 3139   | S. D. =                  |   | 432  |   |
| Cr4                    | .0000 | ppm   | 5576        | 7958   | 6631                     |   |      |   |
|                        |       |       | Ave. Int. = | 6722   | S. D. =                  |   | 1194 |   |
| Cu1                    | .0000 | ppm   | 76291       | 75507  | 77469                    |   |      |   |
|                        |       |       | Ave. Int. = | 76422  | S. D. =                  |   | 988  |   |
| Fe2                    | .0000 | ppm   | 17282       | 18288  | 17888                    |   |      |   |
|                        |       |       | Ave. Int. = | 17819  | S. D. =                  |   | 507  |   |
| K 1                    | .0000 | ppm   | 1121        | 1031   | 1262                     |   |      |   |
|                        |       |       | Ave. Int. = | 1138   | S. D. =                  |   | 116  |   |
| Mg4                    | .0000 | ppm   | -721        | -2227  | -1297                    |   |      |   |
|                        |       |       | Ave. Int. = | -1415  | S. D. =                  |   | 760  |   |
| Mn1                    | .0000 | ppm   | 1369        | 1353   | 2727                     |   |      |   |
|                        |       |       | Ave. Int. = | 1816   | S. D. =                  |   | 789  |   |
| Na2                    | .0000 | ppm   | 358         | 651    | 2875                     |   |      |   |
|                        |       |       | Ave. Int. = | 1295   | S. D. =                  |   | 1376 |   |
| Ni3                    | .0000 | ppm   | 5347        | 5655   | 6782                     |   |      |   |
|                        |       |       | Ave. Int. = | 5928   | S. D. =                  |   | 755  |   |
| Pb1                    | .0000 | ppm   | -22634      | -21315 | -13677                   |   |      |   |
|                        |       |       | Ave. Int. = | -19209 | S. D. =                  |   | 4836 |   |
| Sb1                    | .0000 | ppm   | 9314        | 8722   | 9896                     |   |      |   |
|                        |       |       | Ave. Int. = | 9311   | S. D. =                  |   | 587  |   |
| Se4                    | .0000 | ppm   | -4592       | -5202  | -4361                    |   |      |   |
|                        |       |       | Ave. Int. = | -4718  | S. D. =                  |   | 435  |   |
| Tl1                    | .0000 | ppm   | -3496       | -4537  | -3746                    |   |      |   |
|                        |       |       | Ave. Int. = | -3926  | S. D. =                  |   | 543  |   |
| V 2                    | .0000 | ppm   | 21384       | 21830  | 20204                    |   |      |   |
|                        |       |       | Ave. Int. = | 21139  | S. D. =                  |   | 840  |   |
| W 3                    | .0000 | ppm   | 9080        | 8675   | 9265                     |   |      |   |
|                        |       |       | Ave. Int. = | 9007   | S. D. =                  |   | 302  |   |

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.S PS3000  
12:33:15 13 May 1999

Folder: 05-13-99  
Protocol: CLP-SM

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| Line                   | Conc. | Units | SD/RSD      | 1         | 2                        | 3       | 4 | 5 |
|------------------------|-------|-------|-------------|-----------|--------------------------|---------|---|---|
| *** Standard: 2 Rep: 1 |       |       |             | Seq: 8    | 12:33:15 13 May 1999 ICP |         |   |   |
| Ag1                    | 1.000 | ppm   | 1979247     | 2001930   | 2011816                  |         |   |   |
|                        |       |       | Ave. Int. = | 1997664   | S. D. =                  | 16698   |   |   |
| Al3                    | 20.00 | ppm   | 3177728     | 3197196   | 3230085                  |         |   |   |
|                        |       |       | Ave. Int. = | 3201670   | S. D. =                  | 26464   |   |   |
| As2                    | 4.000 | ppm   | 206173      | 210658    | 212465                   |         |   |   |
|                        |       |       | Ave. Int. = | 209765    | S. D. =                  | 3240    |   |   |
| Ba1                    | 20.00 | ppm   | 634744975   | 638984910 | 647322056                |         |   |   |
|                        |       |       | Ave. Int. = | 640350647 | S. D. =                  | 6398802 |   |   |
| Be2                    | .5000 | ppm   | 803901      | 815347    | 824702                   |         |   |   |
|                        |       |       | Ave. Int. = | 814650    | S. D. =                  | 10418   |   |   |
| Ca3                    | 100.0 | ppm   | 58912417    | 59192102  | 59343577                 |         |   |   |
|                        |       |       | Ave. Int. = | 59149365  | S. D. =                  | 218734  |   |   |
| Cd1                    | 2.000 | ppm   | 10803130    | 10863244  | 10886292                 |         |   |   |
|                        |       |       | Ave. Int. = | 10850889  | S. D. =                  | 42936   |   |   |
| Co1                    | 5.000 | ppm   | 1087163     | 1086605   | 1091329                  |         |   |   |
|                        |       |       | Ave. Int. = | 1088366   | S. D. =                  | 2581    |   |   |
| Cr4                    | 1.000 | ppm   | 1024764     | 1033324   | 1040607                  |         |   |   |
|                        |       |       | Ave. Int. = | 1032898   | S. D. =                  | 7930    |   |   |
| Cu1                    | 2.500 | ppm   | 7528890     | 7585208   | 7652728                  |         |   |   |
|                        |       |       | Ave. Int. = | 7588942   | S. D. =                  | 62003   |   |   |
| Fe2                    | 10.00 | ppm   | 5028384     | 5048588   | 5088981                  |         |   |   |
|                        |       |       | Ave. Int. = | 5055318   | S. D. =                  | 30854   |   |   |
| K 1                    | 100.0 | ppm   | 93264       | 93678     | 95110                    |         |   |   |
|                        |       |       | Ave. Int. = | 94017     | S. D. =                  | 969     |   |   |
| Mg4                    | 100.0 | ppm   | 7008682     | 7035788   | 7070743                  |         |   |   |
|                        |       |       | Ave. Int. = | 7038404   | S. D. =                  | 31113   |   |   |
| Mn1                    | 1.500 | ppm   | 2004763     | 2028845   | 2031118                  |         |   |   |
|                        |       |       | Ave. Int. = | 2021575   | S. D. =                  | 14604   |   |   |
| Na2                    | 100.0 | ppm   | 2551339     | 2564537   | 2595633                  |         |   |   |
|                        |       |       | Ave. Int. = | 2570503   | S. D. =                  | 22742   |   |   |
| Ni3                    | 4.000 | ppm   | 1133864     | 1140755   | 1142643                  |         |   |   |
|                        |       |       | Ave. Int. = | 1139087   | S. D. =                  | 4621    |   |   |
| Pb1                    | 2.000 | ppm   | 564935      | 562559    | 570683                   |         |   |   |
|                        |       |       | Ave. Int. = | 566059    | S. D. =                  | 4177    |   |   |
| Sb1                    | 10.00 | ppm   | 523161      | 517483    | 522005                   |         |   |   |
|                        |       |       | Ave. Int. = | 520883    | S. D. =                  | 3001    |   |   |
| Se4                    | 2.010 | ppm   | 68791       | 71669     | 71108                    |         |   |   |
|                        |       |       | Ave. Int. = | 70523     | S. D. =                  | 1526    |   |   |
| Tl1                    | 4.000 | ppm   | 88324       | 91858     | 90121                    |         |   |   |
|                        |       |       | Ave. Int. = | 90101     | S. D. =                  | 1767    |   |   |
| V 2                    | 5.000 | ppm   | 737096      | 749676    | 754625                   |         |   |   |
|                        |       |       | Ave. Int. = | 747132    | S. D. =                  | 9037    |   |   |
| Z 3                    | 2.000 | ppm   | 1816485     | 1829894   | 1831827                  |         |   |   |
|                        |       |       | Ave. Int. = | 1826069   | S. D. =                  | 8356    |   |   |

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| Line                   | Conc. | Units | SD/RSD      | 1         | 2                        | 3       | 4 | 5 |
|------------------------|-------|-------|-------------|-----------|--------------------------|---------|---|---|
| *** Standard: 2 Rep: 2 |       |       |             | Seq: 9    | 12:34:11 13 May 1999 ICP |         |   |   |
| Ag1                    | 1.000 | ppm   | 1991939     | 2013185   | 2010269                  |         |   |   |
|                        |       |       | Ave. Int. = | 2005131   | S. D. =                  | 11517   |   |   |
| Al3                    | 20.00 | ppm   | 3198340     | 3216978   | 3200528                  |         |   |   |
|                        |       |       | Ave. Int. = | 3205282   | S. D. =                  | 10188   |   |   |
| As2                    | 4.000 | ppm   | 206341      | 210934    | 208093                   |         |   |   |
|                        |       |       | Ave. Int. = | 208456    | S. D. =                  | 2318    |   |   |
| Ba1                    | 20.00 | ppm   | 641725315   | 645656118 | 641163507                |         |   |   |
|                        |       |       | Ave. Int. = | 642848313 | S. D. =                  | 2447802 |   |   |
| Be2                    | .5000 | ppm   | 815935      | 811227    | 817614                   |         |   |   |
|                        |       |       | Ave. Int. = | 814925    | S. D. =                  | 3311    |   |   |
| Ca3                    | 100.0 | ppm   | 58709285    | 59150840  | 59272466                 |         |   |   |
|                        |       |       | Ave. Int. = | 59044197  | S. D. =                  | 296349  |   |   |
| Cd1                    | 2.000 | ppm   | 10695524    | 10793090  | 10860515                 |         |   |   |
|                        |       |       | Ave. Int. = | 10783043  | S. D. =                  | 82953   |   |   |
| Co1                    | 5.000 | ppm   | 1078108     | 1089737   | 1080461                  |         |   |   |
|                        |       |       | Ave. Int. = | 1082769   | S. D. =                  | 6148    |   |   |
| Cr4                    | 1.000 | ppm   | 1029747     | 1031438   | 1038203                  |         |   |   |
|                        |       |       | Ave. Int. = | 1033129   | S. D. =                  | 4475    |   |   |
| Cu1                    | 2.500 | ppm   | 7583561     | 7655128   | 7624096                  |         |   |   |
|                        |       |       | Ave. Int. = | 7620928   | S. D. =                  | 35889   |   |   |
| Fe2                    | 10.00 | ppm   | 5028791     | 5060552   | 5082769                  |         |   |   |
|                        |       |       | Ave. Int. = | 5057371   | S. D. =                  | 27129   |   |   |
| K 1                    | 100.0 | ppm   | 93639       | 94542     | 93848                    |         |   |   |
|                        |       |       | Ave. Int. = | 94010     | S. D. =                  | 473     |   |   |
| Mg4                    | 100.0 | ppm   | 6981325     | 7020248   | 7051096                  |         |   |   |
|                        |       |       | Ave. Int. = | 7017556   | S. D. =                  | 34963   |   |   |
| Mn1                    | 1.500 | ppm   | 2008865     | 2021904   | 2018932                  |         |   |   |
|                        |       |       | Ave. Int. = | 2016567   | S. D. =                  | 6834    |   |   |
| Na2                    | 100.0 | ppm   | 2574877     | 2582433   | 2571667                  |         |   |   |
|                        |       |       | Ave. Int. = | 2576326   | S. D. =                  | 5527    |   |   |
| Ni3                    | 4.000 | ppm   | 1130914     | 1140848   | 1148745                  |         |   |   |
|                        |       |       | Ave. Int. = | 1140169   | S. D. =                  | 8935    |   |   |
| Pb1                    | 2.000 | ppm   | 556084      | 551219    | 569145                   |         |   |   |
|                        |       |       | Ave. Int. = | 558816    | S. D. =                  | 9270    |   |   |
| Sb1                    | 10.00 | ppm   | 515517      | 517017    | 522509                   |         |   |   |
|                        |       |       | Ave. Int. = | 518348    | S. D. =                  | 3681    |   |   |
| Se4                    | 2.010 | ppm   | 66398       | 74401     | 70099                    |         |   |   |
|                        |       |       | Ave. Int. = | 70299     | S. D. =                  | 4005    |   |   |
| Tl1                    | 4.000 | ppm   | 90993       | 89447     | 89840                    |         |   |   |
|                        |       |       | Ave. Int. = | 90093     | S. D. =                  | 804     |   |   |
| V 2                    | 5.000 | ppm   | 747537      | 745866    | 747114                   |         |   |   |
|                        |       |       | Ave. Int. = | 746839    | S. D. =                  | 869     |   |   |
| Zn3                    | 2.000 | ppm   | 1811298     | 1820417   | 1837427                  |         |   |   |
|                        |       |       | Ave. Int. = | 1823047   | S. D. =                  | 13262   |   |   |

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| Line                                                     | Conc. | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|----------------------------------------------------------|-------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: ICV 13-1 Seq: 11 12:37:44 13 May 1999 ICP |       |       |         |       |       |       |   |   |
| Ag1                                                      | .4948 | ppm   | 1.630 % | .4855 | .4990 | .4999 |   |   |
| Al3                                                      | 9.928 | ppm   | 2.507 % | 9.659 | 9.976 | 10.15 |   |   |
| As2                                                      | 1.930 | ppm   | 1.145 % | 1.915 | 1.919 | 1.955 |   |   |
| Ba1                                                      | 9.537 | ppm   | 2.999 % | 9.217 | 9.626 | 9.768 |   |   |
| Be2                                                      | .2489 | ppm   | 1.859 % | .2449 | .2477 | .2539 |   |   |
| Ca3                                                      | 49.99 | ppm   | 1.181 % | 49.32 | 50.22 | 50.44 |   |   |
| Cd1                                                      | .9818 | ppm   | .6273 % | .9749 | .9866 | .9840 |   |   |
| Co1                                                      | 2.513 | ppm   | 1.765 % | 2.467 | 2.519 | 2.555 |   |   |
| Cr4                                                      | .4866 | ppm   | 1.754 % | .4793 | .4846 | .4960 |   |   |
| Cu1                                                      | 1.238 | ppm   | 2.394 % | 1.204 | 1.249 | 1.260 |   |   |
| Fe2                                                      | 5.056 | ppm   | 1.692 % | 4.965 | 5.068 | 5.135 |   |   |
| K 1                                                      | 50.61 | ppm   | 3.827 % | 48.39 | 51.44 | 51.99 |   |   |
| Mg4                                                      | 49.14 | ppm   | 1.423 % | 48.33 | 49.48 | 49.60 |   |   |
| Mn1                                                      | .7383 | ppm   | 1.652 % | .7246 | .7422 | .7481 |   |   |
| Na2                                                      | 52.92 | ppm   | 4.263 % | 50.44 | 53.46 | 54.86 |   |   |
| Ni3                                                      | 1.978 | ppm   | 1.286 % | 1.949 | 1.994 | 1.992 |   |   |
| Pb1                                                      | .9605 | ppm   | 1.210 % | .9735 | .9568 | .9511 |   |   |
| 1                                                        | 5.753 | ppm   | 1.745 % | 5.646 | 5.769 | 5.845 |   |   |
| Se4                                                      | 1.009 | ppm   | 7.617 % | .9671 | 1.098 | .9628 |   |   |
| Tl1                                                      | 2.041 | ppm   | 4.258 % | 2.068 | 2.111 | 1.943 |   |   |
| V 2                                                      | 2.484 | ppm   | 1.661 % | 2.436 | 2.507 | 2.509 |   |   |
| Zn3                                                      | .9865 | ppm   | .2004 % | .9846 | .9863 | .9886 |   |   |

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| Line                                                     | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: ICB 13-1 Seq: 12 12:41:08 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                      | .0047  | L ppm | 145.7 % | .0125  | .0019  | -.0003 |   |   |
| Al3                                                      | .0217  | L ppm | 67.16 % | .0383  | .0163  | .0107  |   |   |
| As2                                                      | .0095  | L ppm | 144.9 % | .0216  | -.0055 | .0126  |   |   |
| Ba1                                                      | .0040  | L ppm | 33.01 % | .0037  | .0029  | .0055  |   |   |
| Be2                                                      | .0005  | L ppm | 20.43 % | .0006  | .0005  | .0004  |   |   |
| Ca3                                                      | .0223  | L ppm | 45.79 % | .0188  | .0142  | .0337  |   |   |
| Cd1                                                      | .0018  | L ppm | 29.73 % | .0023  | .0017  | .0013  |   |   |
| Co1                                                      | -.0028 | L ppm | -101.2% | -.0027 | .0000  | -.0056 |   |   |
| Cr4                                                      | .0015  | L ppm | 99.55 % | .0028  | .0020  | -.0002 |   |   |
| Cu1                                                      | .0001  | L ppm | 1108. % | .0018  | -.0008 | -.0006 |   |   |
| Fe2                                                      | -.0066 | L ppm | -81.99% | -.0087 | -.0105 | -.0004 |   |   |
| K 1                                                      | .0032  | L ppm | 1830. % | .0258  | -.0636 | .0474  |   |   |
| Mg4                                                      | .0352  | L ppm | 33.41 % | .0402  | .0218  | .0436  |   |   |
| Mn1                                                      | .0004  | L ppm | 151.5 % | .0006  | -.0003 | .0006  |   |   |
| Na2                                                      | .0443  | L ppm | 26.98 % | .0566  | .0327  | .0436  |   |   |
| Ni3                                                      | .0007  | L ppm | 136.6 % | .0014  | .0011  | -.0004 |   |   |
| Pb1                                                      | .0147  | L ppm | 97.36 % | .0309  | .0036  | .0096  |   |   |
|                                                          | -.0088 | L ppm | -228.5% | .0085  | -.0040 | -.0308 |   |   |
| Se4                                                      | .0032  | L ppm | 798.7 % | .0143  | -.0260 | .0213  |   |   |
| Tl1                                                      | .0482  | L ppm | 21.88 % | .0467  | .0594  | .0385  |   |   |
| V 2                                                      | .0070  | L ppm | 34.57 % | .0096  | .0048  | .0065  |   |   |
| Zn3                                                      | .0001  | L ppm | 924.5 % | .0001  | -.0008 | .0011  |   |   |

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| Line                                                      | Conc.    | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-----------------------------------------------------------|----------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: CR11 13-1 Seq: 13 12:44:31 13 May 1999 ICP |          |       |         |        |        |        |   |   |
| Ag1                                                       | .0216    | ppm   | 9.732 % | .0240  | .0205  | .0202  |   |   |
| Al3                                                       | .0279 L  | ppm   | 55.77 % | .0415  | .0109  | .0312  |   |   |
| As2                                                       | .0274 L  | ppm   | 49.73 % | .0230  | .0165  | .0427  |   |   |
| Ba1                                                       | .0007 L  | ppm   | 37.46 % | .0007  | .0004  | .0010  |   |   |
| Be2                                                       | .0106    | ppm   | 4.007 % | .0101  | .0107  | .0109  |   |   |
| Ca3                                                       | .0318 L  | ppm   | 20.47 % | .0329  | .0248  | .0377  |   |   |
| Cd1                                                       | .0117    | ppm   | 1.730 % | .0119  | .0115  | .0119  |   |   |
| Co1                                                       | .1037    | ppm   | 2.490 % | .1067  | .1026  | .1020  |   |   |
| Cr4                                                       | .0235    | ppm   | 9.522 % | .0260  | .0217  | .0229  |   |   |
| Cu1                                                       | .0533    | ppm   | 4.836 % | .0519  | .0517  | .0563  |   |   |
| Fe2                                                       | -.0013 L | ppm   | -747.5% | -.0023 | -.0107 | .0090  |   |   |
| K 1                                                       | -.0464 L | ppm   | -132.1% | -.0539 | .0183  | -.1035 |   |   |
| Mg4                                                       | .0179 L  | ppm   | 150.4 % | .0484  | -.0024 | .0077  |   |   |
| Mn1                                                       | .0378    | ppm   | 1.375 % | .0381  | .0381  | .0372  |   |   |
| Na2                                                       | .0704 L  | ppm   | 144.5 % | .1207  | -.0467 | .1372  |   |   |
| Ni3                                                       | .0858    | ppm   | 6.693 % | .0884  | .0793  | .0899  |   |   |
| Pb1                                                       | .1215    | ppm   | 9.463 % | .1345  | .1172  | .1128  |   |   |
| 1                                                         | .1301    | ppm   | 12.88 % | .1311  | .1129  | .1464  |   |   |
| Se4                                                       | .0718 L  | ppm   | 77.68 % | .1361  | .0421  | .0371  |   |   |
| Tl1                                                       | .0525 L  | ppm   | 67.14 % | .0794  | .0126  | .0656  |   |   |
| V 2                                                       | .1141    | ppm   | 9.715 % | .1152  | .1025  | .1246  |   |   |
| Zn3                                                       | .0547    | ppm   | 4.880 % | .0542  | .0523  | .0575  |   |   |

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| Line                                                       | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: ICSAI 13-1 Seq: 15 12:47:54 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                        | -.0037 | L ppm | -126.5% | -.0091 | -.0009 | -.0011 |   |   |
| Al3                                                        | 455.9  | ppm   | .4870 % | 457.9  | 453.5  | 456.4  |   |   |
| As2                                                        | -.2655 | L ppm | -10.37% | -.2348 | -.2879 | -.2739 |   |   |
| Ba1                                                        | -.0002 | L ppm | -45.59% | -.0003 | -.0001 | -.0002 |   |   |
| Be2                                                        | -.0005 | L ppm | -119.7% | -.0011 | -.0001 | -.0002 |   |   |
| Ca3                                                        | 478.9  | ppm   | .2348 % | 478.2  | 478.4  | 480.2  |   |   |
| Cd1                                                        | -.0019 | L ppm | -21.56% | -.0022 | -.0021 | -.0015 |   |   |
| Co1                                                        | -.0058 | L ppm | -53.20% | -.0084 | -.0066 | -.0024 |   |   |
| Cr4                                                        | -.0003 | L ppm | -262.0% | -.0004 | .0005  | -.0009 |   |   |
| Cu1                                                        | .0003  | L ppm | 327.9 % | .0001  | -.0006 | .0016  |   |   |
| Fe2                                                        | 172.8  | ppm   | .1681 % | 173.0  | 172.5  | 173.0  |   |   |
| K 1                                                        | -.0476 | L ppm | -543.6% | -.3022 | -.0552 | .2147  |   |   |
| Mg4                                                        | 494.5  | ppm   | .1348 % | 494.2  | 494.0  | 495.2  |   |   |
| Mn1                                                        | -.0062 | L ppm | -15.30% | -.0070 | -.0051 | -.0065 |   |   |
| Na2                                                        | .2185  | L ppm | 15.56 % | .1794  | .2409  | .2351  |   |   |
| Ni3                                                        | .0030  | L ppm | 110.8 % | -.0007 | .0039  | .0058  |   |   |
| Pb1                                                        | -.0423 | L ppm | -38.02% | -.0241 | -.0482 | -.0545 |   |   |
| .                                                          | .0703  | L ppm | 64.47 % | .0203  | .1087  | .0818  |   |   |
| Se4                                                        | -.0004 | L ppm | -3134.% | .0119  | .0004  | -.0134 |   |   |
| Tl1                                                        | -.0388 | L ppm | -309.8% | .0394  | .0214  | -.1774 |   |   |
| V 2                                                        | -.0068 | L ppm | -55.83% | -.0109 | -.0034 | -.0062 |   |   |
| Zn3                                                        | -.0210 | L ppm | -9.248% | -.0231 | -.0204 | -.0194 |   |   |

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| Line                                                        | Conc.    | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|----------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: ICSABI 13-1 Seq: 16 12:51:17 13 May 1999 ICP |          |       |         |        |        |        |   |   |
| Ag1                                                         | .9582    | ppm   | .7616 % | .9499  | .9611  | .9637  |   |   |
| Al3                                                         | 444.7    | ppm   | .8018 % | 440.6  | 447.2  | 446.3  |   |   |
| As2                                                         | -.3244 L | ppm   | -9.642% | -.2885 | -.3391 | -.3457 |   |   |
| Ba1                                                         | .4086    | ppm   | .6760 % | .4056  | .4110  | .4092  |   |   |
| Be2                                                         | .4564    | ppm   | .6318 % | .4532  | .4589  | .4572  |   |   |
| Ca3                                                         | 473.8    | ppm   | .8742 % | 469.1  | 476.0  | 476.4  |   |   |
| Cd1                                                         | .8521    | ppm   | .6502 % | .8457  | .8560  | .8545  |   |   |
| Co1                                                         | .4226    | ppm   | .5616 % | .4226  | .4202  | .4249  |   |   |
| Cr4                                                         | .4216    | ppm   | .3067 % | .4208  | .4231  | .4209  |   |   |
| Cu1                                                         | .4486    | ppm   | .9781 % | .4436  | .4516  | .4506  |   |   |
| Fe2                                                         | 171.3    | ppm   | .7563 % | 169.8  | 172.3  | 171.7  |   |   |
| K 1                                                         | -.0210 L | ppm   | -660.0% | -.0845 | .1379  | -.1164 |   |   |
| Mg4                                                         | 487.4    | ppm   | .9426 % | 482.1  | 489.9  | 490.1  |   |   |
| Mn1                                                         | .4209    | ppm   | .7162 % | .4175  | .4225  | .4229  |   |   |
| Na2                                                         | .2640 L  | ppm   | 20.23 % | .2037  | .3054  | .2829  |   |   |
| Ni3                                                         | .8452    | ppm   | 1.886 % | .8352  | .8636  | .8369  |   |   |
| Pb1                                                         | .8131    | ppm   | .8027 % | .8082  | .8205  | .8107  |   |   |
| /                                                           | .0242 L  | ppm   | 106.0 % | .0179  | .0023  | .0525  |   |   |
| Se4                                                         | -.0433 L | ppm   | -119.7% | .0025  | -.0996 | -.0328 |   |   |
| Tl1                                                         | -.1372 L | ppm   | -6.179% | -.1468 | -.1343 | -.1306 |   |   |
| V 2                                                         | .4217    | ppm   | 2.291 % | .4121  | .4215  | .4314  |   |   |
| Zn3                                                         | .8230    | ppm   | .9465 % | .8141  | .8285  | .8265  |   |   |

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| Line                                                     | Conc. | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|----------------------------------------------------------|-------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: CCV 13-1 Seq: 17 12:54:40 13 May 1999 ICP |       |       |         |       |       |       |   |   |
| Ag1                                                      | .4903 | ppm   | .8472 % | .4898 | .4864 | .4947 |   |   |
| Al3                                                      | 9.817 | ppm   | .5340 % | 9.839 | 9.854 | 9.757 |   |   |
| As2                                                      | 1.907 | ppm   | 3.405 % | 1.894 | 1.849 | 1.977 |   |   |
| Ba1                                                      | 9.307 | ppm   | .6820 % | 9.269 | 9.381 | 9.272 |   |   |
| Be2                                                      | .2452 | ppm   | .6246 % | .2435 | .2465 | .2455 |   |   |
| Ca3                                                      | 50.01 | ppm   | .3280 % | 49.88 | 50.20 | 49.96 |   |   |
| Cd1                                                      | .9878 | ppm   | .3524 % | .9844 | .9879 | .9913 |   |   |
| Co1                                                      | 2.531 | ppm   | .3972 % | 2.520 | 2.540 | 2.534 |   |   |
| Cr4                                                      | .4849 | ppm   | .5668 % | .4831 | .4881 | .4836 |   |   |
| Cu1                                                      | 1.218 | ppm   | .6283 % | 1.212 | 1.227 | 1.216 |   |   |
| Fe2                                                      | 5.136 | ppm   | .4362 % | 5.141 | 5.156 | 5.112 |   |   |
| K 1                                                      | 48.91 | ppm   | 1.061 % | 49.04 | 49.36 | 48.34 |   |   |
| Mg4                                                      | 49.08 | ppm   | .3816 % | 48.89 | 49.27 | 49.08 |   |   |
| Mn1                                                      | .7309 | ppm   | .6827 % | .7260 | .7359 | .7307 |   |   |
| Na2                                                      | 50.92 | ppm   | .5372 % | 50.88 | 51.21 | 50.67 |   |   |
| Ni3                                                      | 1.967 | ppm   | 1.105 % | 1.943 | 1.985 | 1.972 |   |   |
| Pb1                                                      | .9676 | ppm   | 2.448 % | .9411 | .9865 | .9753 |   |   |
| S 1                                                      | 5.713 | ppm   | .7040 % | 5.667 | 5.738 | 5.734 |   |   |
| Se4                                                      | .9841 | ppm   | 4.894 % | .9618 | 1.039 | .9512 |   |   |
| Tl1                                                      | 1.975 | ppm   | 4.845 % | 2.048 | 1.867 | 2.011 |   |   |
| V 2                                                      | 2.471 | ppm   | .1357 % | 2.468 | 2.471 | 2.474 |   |   |
| Zn3                                                      | .9962 | ppm   | .4978 % | .9906 | .9980 | 1.000 |   |   |

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| Line                                                     | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: CCB 13-1 Seq: 19 12:58:03 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                      | .0007  | L ppm | 477.0 % | -.0004 | .0041  | -.0018 |   |   |
| Al3                                                      | .0292  | L ppm | 68.53 % | .0071  | .0461  | .0345  |   |   |
| As2                                                      | .0070  | L ppm | 176.6 % | -.0044 | .0200  | .0053  |   |   |
| Ba1                                                      | .0027  | L ppm | 1.930 % | .0026  | .0027  | .0027  |   |   |
| Be2                                                      | .0007  | L ppm | 85.44 % | .0006  | .0002  | .0014  |   |   |
| Ca3                                                      | .0342  | L ppm | 23.52 % | .0261  | .0344  | .0422  |   |   |
| Cd1                                                      | .0015  | L ppm | 8.022 % | .0015  | .0013  | .0015  |   |   |
| Co1                                                      | -.0028 | L ppm | -81.73% | -.0039 | -.0044 | -.0002 |   |   |
| Cr4                                                      | .0002  | L ppm | 617.5 % | -.0000 | .0015  | -.0009 |   |   |
| Cu1                                                      | -.0011 | L ppm | -118.1% | -.0013 | -.0024 | .0003  |   |   |
| Fe2                                                      | .0097  | L ppm | 60.05 % | .0050  | .0080  | .0162  |   |   |
| K 1                                                      | -.0744 | L ppm | -77.36% | -.0259 | -.0593 | -.1380 |   |   |
| Mg4                                                      | .0418  | L ppm | 45.40 % | .0491  | .0561  | .0203  |   |   |
| Mn1                                                      | -.0001 | L ppm | -187.7% | -.0004 | -.0002 | .0001  |   |   |
| Na2                                                      | .0263  | L ppm | 162.3 % | .0121  | .0741  | -.0075 |   |   |
| Ni3                                                      | .0009  | L ppm | 140.2 % | .0021  | -.0005 | .0011  |   |   |
| Pb1                                                      | -.0066 | L ppm | -1.695% | -.0066 | -.0064 | -.0066 |   |   |
| ' '                                                      | .0042  | L ppm | 627.1 % | .0029  | .0310  | -.0214 |   |   |
| S_4                                                      | .0299  | L ppm | 21.99 % | .0299  | .0233  | .0365  |   |   |
| Tl1                                                      | .0444  | L ppm | 57.06 % | .0176  | .0477  | .0680  |   |   |
| V 2                                                      | .0021  | L ppm | 366.2 % | .0084  | .0044  | -.0065 |   |   |
| Zn3                                                      | -.0013 | L ppm | -46.46% | -.0015 | -.0017 | -.0006 |   |   |

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| Line                                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-----------------------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: PEW 5-5      13-1      Seq: 21      13:01:51 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                                         | .0013  | L ppm | 325.2 % | .0006  | .0060  | -.0026 |   |   |
| Al3                                                                         | .0026  | L ppm | 686.2 % | -.0036 | .0231  | -.0116 |   |   |
| As2                                                                         | -.0108 | L ppm | -123.7% | .0004  | -.0072 | -.0255 |   |   |
| Ba1                                                                         | -.0002 | L ppm | -184.0% | .0000  | .0000  | -.0005 |   |   |
| Be2                                                                         | .0003  | L ppm | 51.48 % | .0005  | .0003  | .0002  |   |   |
| Ca3                                                                         | .0437  | L ppm | 8.312 % | .0440  | .0472  | .0400  |   |   |
| Cd1                                                                         | .0008  | L ppm | 110.2 % | .0013  | .0013  | -.0002 |   |   |
| Co1                                                                         | -.0036 | L ppm | -23.49% | -.0035 | -.0028 | -.0045 |   |   |
| Cr4                                                                         | .0005  | L ppm | 281.4 % | -.0002 | .0019  | -.0003 |   |   |
| Cu1                                                                         | -.0041 | L ppm | -53.24% | -.0042 | -.0019 | -.0063 |   |   |
| Fe2                                                                         | .0152  | L ppm | 7.055 % | .0139  | .0157  | .0159  |   |   |
| K 1                                                                         | .0330  | L ppm | 320.1 % | .0151  | .1465  | -.0625 |   |   |
| Mg4                                                                         | .0232  | L ppm | 84.28 % | .0258  | .0412  | .0024  |   |   |
| Mn1                                                                         | -.0001 | L ppm | -656.1% | .0004  | -.0001 | -.0006 |   |   |
| Na2                                                                         | .1318  | L ppm | 9.828 % | .1351  | .1428  | .1174  |   |   |
| Ni3                                                                         | -.0028 | L ppm | -164.1% | -.0011 | .0007  | -.0080 |   |   |
| Pb1                                                                         | .0079  | L ppm | 110.3 % | .0172  | .0064  | .0000  |   |   |
| '                                                                           | -.0196 | L ppm | -96.82% | -.0356 | -.0245 | .0014  |   |   |
| Sn4                                                                         | .0467  | L ppm | 64.14 % | .0741  | .0147  | .0512  |   |   |
| Tl1                                                                         | .0250  | L ppm | 234.0 % | -.0041 | .0924  | -.0133 |   |   |
| V 2                                                                         | -.0033 | L ppm | -170.5% | -.0097 | -.0003 | .0001  |   |   |
| Zn3                                                                         | .0462  | L ppm | 2.111 % | .0457  | .0455  | .0473  |   |   |

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| Line                                                      | Conc.   | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|-----------------------------------------------------------|---------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: LCSW 13-1 Seq: 22 13:05:14 13 May 1999 ICP |         |       |         |       |       |       |   |   |
| Ag1                                                       | .0493   | ppm   | .7934 % | .0491 | .0489 | .0497 |   |   |
| Al3                                                       | 1.928   | ppm   | 1.319 % | 1.955 | 1.905 | 1.924 |   |   |
| As2                                                       | .0378 L | ppm   | 73.84 % | .0500 | .0575 | .0059 |   |   |
| Ba1                                                       | 1.793   | ppm   | .7808 % | 1.804 | 1.777 | 1.798 |   |   |
| Be2                                                       | .0476   | ppm   | 1.077 % | .0473 | .0472 | .0482 |   |   |
| Ca3                                                       | 2.520   | ppm   | 1.054 % | 2.546 | 2.493 | 2.521 |   |   |
| Cd1                                                       | .0515   | ppm   | 1.830 % | .0515 | .0505 | .0524 |   |   |
| Co1                                                       | .5032   | ppm   | 1.655 % | .5121 | .5019 | .4956 |   |   |
| Cr4                                                       | .1941   | ppm   | .4733 % | .1952 | .1934 | .1939 |   |   |
| Cu1                                                       | .2386   | ppm   | .5235 % | .2395 | .2372 | .2391 |   |   |
| Fe2                                                       | 1.024   | ppm   | 1.434 % | 1.036 | 1.007 | 1.028 |   |   |
| K 1                                                       | 19.53   | ppm   | 1.150 % | 19.67 | 19.27 | 19.65 |   |   |
| Mg4                                                       | 1.928   | ppm   | 1.453 % | 1.936 | 1.897 | 1.951 |   |   |
| Mn1                                                       | .4947   | ppm   | 1.113 % | .4983 | .4884 | .4975 |   |   |
| Na2                                                       | 20.45   | ppm   | .5366 % | 20.58 | 20.38 | 20.41 |   |   |
| Ni3                                                       | .4967   | ppm   | 2.151 % | .5090 | .4898 | .4912 |   |   |
| Pb1                                                       | .5007   | ppm   | 1.876 % | .4902 | .5082 | .5038 |   |   |
| !                                                         | .5253   | ppm   | 5.152 % | .5240 | .5530 | .4990 |   |   |
| Se4                                                       | 1.059   | ppm   | 3.725 % | 1.101 | 1.022 | 1.056 |   |   |
| Tl1                                                       | 2.072   | ppm   | 2.923 % | 2.135 | 2.066 | 2.015 |   |   |
| V 2                                                       | .4922   | ppm   | 1.869 % | .4840 | .4904 | .5021 |   |   |
| Zn3                                                       | .5093   | ppm   | 1.326 % | .5163 | .5028 | .5088 |   |   |

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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 288425 13-1 Seq: 23 13:08:39 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | .0070  | L ppm | 77.75 % | .0026  | .0131  | .0054  |   |   |
| Al3                                                         | 24.66  | ppm   | 1.683 % | 24.95  | 24.18  | 24.85  |   |   |
| As2                                                         | -.1039 | L ppm | -18.63% | -.0918 | -.0938 | -.1263 |   |   |
| Ba1                                                         | 2.072  | ppm   | 2.013 % | 2.097  | 2.023  | 2.094  |   |   |
| Be2                                                         | .0029  | L ppm | 19.73 % | .0026  | .0026  | .0036  |   |   |
| Ca3                                                         | 230.2  | ppm   | .7083 % | 232.0  | 228.8  | 229.8  |   |   |
| Cd1                                                         | .0255  | ppm   | .5325 % | .0256  | .0255  | .0254  |   |   |
| Co1                                                         | .0323  | L ppm | 4.303 % | .0335  | .0327  | .0308  |   |   |
| Cr4                                                         | .2574  | ppm   | 1.922 % | .2596  | .2608  | .2517  |   |   |
| Cu1                                                         | 2.222  | ppm   | 1.893 % | 2.247  | 2.173  | 2.245  |   |   |
| Fe2                                                         | 187.4  | ppm   | .9484 % | 189.1  | 185.5  | 187.5  |   |   |
| K 1                                                         | 20.54  | ppm   | 2.430 % | 20.67  | 19.99  | 20.96  |   |   |
| Mg4                                                         | 60.08  | ppm   | .7006 % | 60.56  | 59.75  | 59.93  |   |   |
| Mn1                                                         | 2.543  | ppm   | 1.060 % | 2.569  | 2.515  | 2.546  |   |   |
| Na2                                                         | 50.59  | ppm   | 2.209 % | 51.39  | 49.31  | 51.08  |   |   |
| Ni3                                                         | .1986  | ppm   | 3.741 % | .2072  | .1941  | .1946  |   |   |
| Pb1                                                         | 5.005  | ppm   | .4594 % | 5.031  | 4.986  | 4.999  |   |   |
|                                                             | .1100  | ppm   | 30.06 % | .1056  | .1450  | .0793  |   |   |
| Se4                                                         | .0368  | L ppm | 69.19 % | .0552  | .0476  | .0077  |   |   |
| Tl1                                                         | -.0701 | L ppm | -78.62% | -.0322 | -.0448 | -.1334 |   |   |
| V 2                                                         | .0943  | ppm   | 5.041 % | .0942  | .0895  | .0990  |   |   |
| Zn3                                                         | 7.367  | ppm   | .4166 % | 7.390  | 7.379  | 7.332  |   |   |

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| Line                                                                       | Conc.    | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------------------|----------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 288426      13-1      Seq: 25      13:12:04 13 May 1999 ICP |          |       |         |        |        |        |   |   |
| Ag1                                                                        | .0245    | ppm   | 10.30 % | .0239  | .0272  | .0223  |   |   |
| Al3                                                                        | 347.6    | ppm   | .8492 % | 350.7  | 344.9  | 347.1  |   |   |
| As2                                                                        | -.8071 L | ppm   | -4.106% | -.7706 | -.8353 | -.8152 |   |   |
| Ba1                                                                        | 10.35    | ppm   | .9819 % | 10.46  | 10.26  | 10.34  |   |   |
| Be2                                                                        | .0279    | ppm   | 3.012 % | .0288  | .0272  | .0277  |   |   |
| Ca3                                                                        | 577.3    | ppm   | .7489 % | 582.3  | 574.9  | 574.6  |   |   |
| Cd1                                                                        | .0349    | ppm   | 2.855 % | .0360  | .0348  | .0341  |   |   |
| Co1                                                                        | .2067    | ppm   | 1.487 % | .2060  | .2040  | .2101  |   |   |
| Cr4                                                                        | .8152    | ppm   | .8458 % | .8231  | .8111  | .8113  |   |   |
| Cu1                                                                        | 3.879    | ppm   | .8143 % | 3.912  | 3.849  | 3.875  |   |   |
| Fe2                                                                        | 902.7 H  | ppm   | .7303 % | 910.3  | 898.6  | 899.2  |   |   |
| K 1                                                                        | 57.15    | ppm   | .6125 % | 57.51  | 56.82  | 57.12  |   |   |
| Mg4                                                                        | 200.0    | ppm   | .7327 % | 201.7  | 199.5  | 198.9  |   |   |
| Mn1                                                                        | 8.824    | ppm   | .7546 % | 8.897  | 8.768  | 8.806  |   |   |
| Na2                                                                        | 45.36    | ppm   | 1.041 % | 45.72  | 44.83  | 45.54  |   |   |
| Ni3                                                                        | .6281    | ppm   | 1.605 % | .6394  | .6251  | .6199  |   |   |
| Pb1                                                                        | 13.50    | ppm   | .8892 % | 13.64  | 13.43  | 13.44  |   |   |
| 1                                                                          | .0465 L  | ppm   | 36.82 % | .0397  | .0660  | .0338  |   |   |
| Se4                                                                        | .0474 L  | ppm   | 105.9 % | .0984  | -.0020 | .0459  |   |   |
| Tl1                                                                        | -.4559 L | ppm   | -6.065% | -.4843 | -.4542 | -.4291 |   |   |
| V 2                                                                        | .8954    | ppm   | 2.352 % | .9028  | .8717  | .9119  |   |   |
| Zn3                                                                        | 14.64    | ppm   | .6193 % | 14.74  | 14.61  | 14.57  |   |   |

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| Line                                                           | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: PBBW 5-12 13-1 Seq: 26 13:15:29 13 May 1999 ICF |        |       |         |        |        |        |   |   |
| Ag1                                                            | -.0011 | L ppm | -175.9% | .0007  | -.0009 | -.0030 |   |   |
| Al3                                                            | .0823  | L ppm | 9.488 % | .0800  | .0910  | .0759  |   |   |
| As2                                                            | -.0055 | L ppm | -388.1% | .0191  | -.0202 | -.0155 |   |   |
| Ba1                                                            | .0028  | L ppm | 10.98 % | .0026  | .0027  | .0031  |   |   |
| Be2                                                            | .0006  | L ppm | 12.63 % | .0007  | .0005  | .0006  |   |   |
| Ca3                                                            | .2127  | L ppm | 9.277 % | .2032  | .1995  | .2354  |   |   |
| Cd1                                                            | .0010  | L ppm | 110.1 % | .0009  | .0021  | -.0000 |   |   |
| Co1                                                            | -.0058 | L ppm | -76.00% | -.0102 | -.0058 | -.0014 |   |   |
| Cr4                                                            | -.0009 | L ppm | -114.6% | -.0010 | .0002  | -.0018 |   |   |
| Cu1                                                            | -.0076 | L ppm | -22.24% | -.0085 | -.0056 | -.0086 |   |   |
| Fe2                                                            | .3548  | ppm   | 10.06 % | .3549  | .3191  | .3905  |   |   |
| K 1                                                            | .0207  | L ppm | 709.6 % | -.1359 | .1562  | .0419  |   |   |
| Mg4                                                            | .0483  | L ppm | 9.257 % | .0485  | .0526  | .0437  |   |   |
| Mn1                                                            | .0028  | L ppm | 14.28 % | .0023  | .0029  | .0031  |   |   |
| Na2                                                            | .1144  | L ppm | 18.19 % | .1119  | .0950  | .1364  |   |   |
| Ni3                                                            | -.0020 | L ppm | -74.31% | -.0023 | -.0004 | -.0032 |   |   |
| Pb1                                                            | .0012  | L ppm | 1402. % | -.0136 | .0204  | -.0031 |   |   |
| 1                                                              | -.0248 | L ppm | -57.45% | -.0242 | -.0394 | -.0109 |   |   |
| 4                                                              | .0104  | L ppm | 397.2 % | -.0230 | .0564  | -.0023 |   |   |
| Tl1                                                            | .0303  | L ppm | 217.9 % | .0719  | .0647  | -.0458 |   |   |
| V 2                                                            | -.0006 | L ppm | -167.6% | -.0001 | -.0017 | .0000  |   |   |
| Zn3                                                            | .0147  | ppm   | 5.277 % | .0145  | .0140  | .0155  |   |   |

Report Zn 0.0200mg/k

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| Line                                                      | Conc.   | Units | SD/RSD  | 1     | 2     | 3      | 4 | 5 |
|-----------------------------------------------------------|---------|-------|---------|-------|-------|--------|---|---|
| *** Sample ID: LCSW 13-1 Seq: 27 13:18:54 13 May 1999 ICP |         |       |         |       |       |        |   |   |
| Ag1                                                       | .0550   | ppm   | 7.592 % | .0526 | .0598 | .0526  |   |   |
| Al3                                                       | 2.034   | ppm   | 1.156 % | 2.030 | 2.059 | 2.012  |   |   |
| As2                                                       | .0285 L | ppm   | 94.50 % | .0350 | .0517 | -.0011 |   |   |
| Ba1                                                       | 1.894   | ppm   | 1.827 % | 1.910 | 1.918 | 1.854  |   |   |
| Be2                                                       | .0491   | ppm   | .6948 % | .0487 | .0493 | .0493  |   |   |
| Ca3                                                       | 2.114   | ppm   | 1.125 % | 2.125 | 2.130 | 2.087  |   |   |
| Cd1                                                       | .0523   | ppm   | .8587 % | .0522 | .0527 | .0518  |   |   |
| Co1                                                       | .5188   | ppm   | 1.746 % | .5195 | .5275 | .5094  |   |   |
| Cr4                                                       | .2001   | ppm   | 1.785 % | .2007 | .2033 | .1962  |   |   |
| Cu1                                                       | .2502   | ppm   | 1.479 % | .2506 | .2537 | .2463  |   |   |
| Fe2                                                       | 1.068   | ppm   | 1.369 % | 1.080 | 1.072 | 1.052  |   |   |
| K 1                                                       | 21.16   | ppm   | 1.642 % | 21.45 | 21.26 | 20.78  |   |   |
| Mg4                                                       | 1.987   | ppm   | 2.781 % | 1.958 | 2.050 | 1.951  |   |   |
| Mn1                                                       | .5111   | ppm   | 1.435 % | .5125 | .5176 | .5031  |   |   |
| Na2                                                       | 22.20   | ppm   | 2.426 % | 22.68 | 22.31 | 21.62  |   |   |
| Ni3                                                       | .5071   | ppm   | 1.731 % | .5055 | .5165 | .4992  |   |   |
| Pb1                                                       | .5144   | ppm   | 3.061 % | .4992 | .5134 | .5306  |   |   |
| Se1                                                       | .4989   | ppm   | 8.594 % | .4795 | .5480 | .4691  |   |   |
| Si4                                                       | .9241   | ppm   | 6.455 % | .9816 | .9281 | .8625  |   |   |
| Ti1                                                       | 2.138   | ppm   | 3.224 % | 2.062 | 2.197 | 2.155  |   |   |
| V 2                                                       | .5239   | ppm   | 2.913 % | .5227 | .5397 | .5093  |   |   |
| Zn3                                                       | .5213   | ppm   | .8438 % | .5192 | .5264 | .5184  |   |   |

IS PS3000  
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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 289979 13-1 Seq: 29 13:22:19 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | .0009  | L ppm | 151.2 % | .0025  | -.0001 | .0004  |   |   |
| Al3                                                         | .0754  | L ppm | 8.474 % | .0819  | .0751  | .0692  |   |   |
| As2                                                         | .0101  | L ppm | 117.9 % | -.0021 | .0217  | .0106  |   |   |
| Ba1                                                         | .0703  | ppm   | 1.123 % | .0702  | .0696  | .0712  |   |   |
| Be2                                                         | .0003  | L ppm | 163.9 % | .0007  | .0002  | -.0001 |   |   |
| Ca3                                                         | 26.23  | ppm   | .6668 % | 26.32  | 26.02  | 26.33  |   |   |
| Cd1                                                         | .0010  | L ppm | .6638 % | .0013  | .0016  | .0003  |   |   |
| Cd1                                                         | -.0026 | L ppm | -147.0% | -.0027 | .0013  | -.0065 |   |   |
| Cr4                                                         | .0012  | L ppm | 132.0 % | .0028  | .0014  | -.0005 |   |   |
| Cu1                                                         | -.0005 | L ppm | -570.6% | .0025  | -.0012 | -.0027 |   |   |
| Fe2                                                         | 1.032  | ppm   | .7270 % | 1.038  | 1.024  | 1.035  |   |   |
| K 1                                                         | 1.853  | L ppm | 8.452 % | 2.018  | 1.834  | 1.706  |   |   |
| Mg4                                                         | 8.075  | ppm   | .4759 % | 8.107  | 8.032  | 8.087  |   |   |
| Mn1                                                         | .0961  | ppm   | .5895 % | .0955  | .0966  | .0963  |   |   |
| Na2                                                         | 5.044  | ppm   | .3600 % | 5.044  | 5.026  | 5.062  |   |   |
| Ni3                                                         | -.0008 | L ppm | -321.1% | -.0018 | .0022  | -.0028 |   |   |
| Pb1                                                         | .0144  | L ppm | 81.86 % | .0271  | .0121  | .0039  |   |   |
| .                                                           | .0290  | L ppm | 43.22 % | .0361  | .0145  | .0365  |   |   |
| Se4                                                         | .0337  | L ppm | 98.37 % | .0405  | -.0023 | .0630  |   |   |
| Tl1                                                         | -.0089 | L ppm | -667.6% | .0595  | -.0470 | -.0392 |   |   |
| V 2                                                         | -.0017 | L ppm | -144.9% | -.0012 | -.0043 | .0005  |   |   |
| Zn3                                                         | .0851  | ppm   | 2.126 % | .0868  | .0852  | .0832  |   |   |

Repeat due to  
Fe Prep BLK  
contamination  
CR5/3/99

IS P53000  
13:25:44 13 May 1999

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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 289982 13-1 Seq: 30 13:25:44 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | .0009  | L ppm | 446.3 % | -.0036 | .0036  | .0026  |   |   |
| Al3                                                         | .0398  | L ppm | 31.14 % | .0291  | .0533  | .0369  |   |   |
| As2                                                         | -.0164 | L ppm | -114.3% | -.0133 | -.0366 | .0006  |   |   |
| Ba1                                                         | .0629  | ppm   | 1.053 % | .0636  | .0626  | .0624  |   |   |
| Be2                                                         | .0010  | L ppm | 8.940 % | .0010  | .0011  | .0009  |   |   |
| Ca3                                                         | 25.63  | ppm   | .4321 % | 25.69  | 25.50  | 25.69  |   |   |
| Cd1                                                         | .0005  | L ppm | 34.11 % | .0004  | .0004  | .0007  |   |   |
| Co1                                                         | -.0038 | L ppm | -64.09% | -.0044 | -.0011 | -.0059 |   |   |
| Cr4                                                         | .0004  | L ppm | 168.3 % | -.0004 | .0009  | .0008  |   |   |
| Cu1                                                         | -.0054 | L ppm | -24.60% | -.0069 | -.0043 | -.0049 |   |   |
| Fe2                                                         | .3780  | ppm   | .9818 % | .3740  | .3785  | .3814  |   |   |
| K 1                                                         | 1.684  | L ppm | 8.589 % | 1.628  | 1.848  | 1.575  |   |   |
| Mg4                                                         | 7.724  | ppm   | .3058 % | 7.738  | 7.697  | 7.737  |   |   |
| Mn1                                                         | .0312  | ppm   | 1.178 % | .0315  | .0314  | .0308  |   |   |
| Na2                                                         | 4.905  | ppm   | .6736 % | 4.885  | 4.943  | 4.887  |   |   |
| Ni3                                                         | .0003  | L ppm | 279.6 % | -.0000 | .0012  | -.0003 |   |   |
| Pb1                                                         | .0076  | L ppm | 170.9 % | .0095  | .0195  | -.0062 |   |   |
|                                                             | .0110  | L ppm | 444.8 % | -.0362 | .0617  | .0076  |   |   |
| Se4                                                         | -.0047 | L ppm | -478.6% | -.0292 | -.0003 | .0154  |   |   |
| Tl1                                                         | .0023  | L ppm | 1213. % | -.0288 | .0105  | .0252  |   |   |
| V 2                                                         | -.0030 | L ppm | -96.32% | -.0026 | -.0003 | -.0060 |   |   |
| Zn3                                                         | .0068  | L ppm | 5.881 % | .0072  | .0069  | .0064  |   |   |

Repeat  
due to Fe  
prep blk contamination  
CJ5/13/99

IS PS3000  
13:29:09 13 May 1999

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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 289991 13-1 Seq: 31 13:29:09 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | -.0000 | L ppm | -21820% | .0039  | -.0058 | .0018  |   |   |
| Al3                                                         | .0799  | L ppm | 22.74 % | .1009  | .0691  | .0697  |   |   |
| As2                                                         | .0012  | L ppm | 2307. % | .0320  | -.0242 | -.0041 |   |   |
| Ba1                                                         | .1694  | ppm   | 1.471 % | .1669  | .1696  | .1718  |   |   |
| Be2                                                         | .0006  | L ppm | 29.25 % | .0006  | .0004  | .0007  |   |   |
| Ca3                                                         | 39.87  | ppm   | .8173 % | 39.62  | 39.74  | 40.24  |   |   |
| Cd1                                                         | .0007  | L ppm | 68.98 % | .0012  | .0003  | .0006  |   |   |
| Co1                                                         | .0013  | L ppm | 97.49 % | .0011  | .0002  | .0027  |   |   |
| Cr4                                                         | .0019  | L ppm | 72.32 % | .0033  | .0005  | .0020  |   |   |
| Cu1                                                         | -.0097 | L ppm | -14.67% | -.0081 | -.0104 | -.0107 |   |   |
| Fe2                                                         | 1.559  | ppm   | .8690 % | 1.545  | 1.559  | 1.572  |   |   |
| K 1                                                         | 3.132  | ppm   | 16.04 % | 3.712  | 2.841  | 2.842  |   |   |
| Mg4                                                         | 12.70  | ppm   | 1.142 % | 12.60  | 12.64  | 12.87  |   |   |
| Mn1                                                         | .1620  | ppm   | 1.141 % | .1598  | .1632  | .1628  |   |   |
| Na2                                                         | 2.148  | ppm   | 2.069 % | 2.186  | 2.099  | 2.159  |   |   |
| Ni3                                                         | -.0000 | L ppm | -43120% | .0033  | -.0033 | -.0001 |   |   |
| Pb1                                                         | .0207  | L ppm | 112.3 % | .0354  | .0328  | -.0061 |   |   |
| Si                                                          | .0237  | L ppm | 132.9 % | .0588  | -.0022 | .0145  |   |   |
| Sn4                                                         | .0557  | L ppm | 43.32 % | .0835  | .0415  | .0420  |   |   |
| Tl1                                                         | .0085  | L ppm | 293.6 % | -.0142 | .0044  | .0353  |   |   |
| V 2                                                         | -.0040 | L ppm | -122.9% | -.0011 | -.0097 | -.0012 |   |   |
| Zn3                                                         | .0041  | L ppm | 26.16 % | .0048  | .0045  | .0028  |   |   |

*Repeat due to  
Fe prep blank  
contamination  
05/13/99*

4S P53000  
13:32:34 13 May 1999

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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 289992 13-1 Seq: 33 13:32:34 13 May 1999 ICF |        |       |         |        |        |        |   |   |
| Ag1                                                         | .0057  | L ppm | 57.28 % | .0051  | .0093  | .0028  |   |   |
| Al3                                                         | .0699  | L ppm | 10.60 % | .0782  | .0673  | .0641  |   |   |
| As2                                                         | .0223  | L ppm | 71.34 % | .0040  | .0298  | .0330  |   |   |
| Ba1                                                         | .1607  | ppm   | .8631 % | .1591  | .1611  | .1618  |   |   |
| Be2                                                         | .0006  | L ppm | 97.35 % | .0002  | .0013  | .0003  |   |   |
| Ca3                                                         | 39.95  | ppm   | .3464 % | 40.03  | 40.02  | 39.79  |   |   |
| Cd1                                                         | .0011  | L ppm | 59.18 % | .0018  | .0011  | .0005  |   |   |
| Co1                                                         | .0001  | L ppm | 3795. % | .0036  | .0003  | -.0036 |   |   |
| Cr4                                                         | .0006  | L ppm | 328.2 % | .0016  | .0018  | -.0016 |   |   |
| Cu1                                                         | -.0084 | L ppm | -17.43% | -.0079 | -.0072 | -.0100 |   |   |
| Fe2                                                         | .5765  | ppm   | .5362 % | .5795  | .5766  | .5733  |   |   |
| K 1                                                         | 3.106  | ppm   | 3.000 % | 3.000  | 3.145  | 3.173  |   |   |
| Mg4                                                         | 12.71  | ppm   | .5410 % | 12.76  | 12.73  | 12.63  |   |   |
| Mn1                                                         | .0990  | ppm   | .4525 % | .0984  | .0992  | .0992  |   |   |
| Na2                                                         | 2.235  | ppm   | 1.875 % | 2.274  | 2.240  | 2.191  |   |   |
| Ni3                                                         | .0002  | L ppm | 998.0 % | .0020  | .0008  | -.0021 |   |   |
| Pb1                                                         | .0088  | L ppm | 190.0 % | .0282  | -.0017 | .0001  |   |   |
| !                                                           | -.0055 | L ppm | -120.7% | -.0013 | -.0020 | -.0131 |   |   |
| Se4                                                         | .0266  | L ppm | 159.4 % | -.0065 | .0118  | .0743  |   |   |
| Tl1                                                         | .0177  | L ppm | 69.66 % | .0292  | .0190  | .0047  |   |   |
| V 2                                                         | .0025  | L ppm | 43.93 % | .0012  | .0033  | .0028  |   |   |
| Zn3                                                         | .0023  | L ppm | 16.39 % | .0025  | .0026  | .0019  |   |   |

Repeat  
due to  
prep blank  
contamination  
CJ 5/13/99

AS PS3000  
13:35:59 13 May 1999

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| Line                                                     | Conc. | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|----------------------------------------------------------|-------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: CCV 13-1 Seq: 34 13:35:59 13 May 1999 ICP |       |       |         |       |       |       |   |   |
| Ag1                                                      | .4956 | ppm   | 1.858 % | .4950 | .4867 | .5051 |   |   |
| Al3                                                      | 9.967 | ppm   | .7262 % | 9.968 | 9.894 | 10.04 |   |   |
| As2                                                      | 1.979 | ppm   | 1.700 % | 2.018 | 1.962 | 1.958 |   |   |
| Ba1                                                      | 9.485 | ppm   | .7870 % | 9.496 | 9.405 | 9.553 |   |   |
| Be2                                                      | .2446 | ppm   | .8400 % | .2447 | .2425 | .2466 |   |   |
| Ca3                                                      | 50.34 | ppm   | 1.115 % | 50.15 | 49.90 | 50.97 |   |   |
| Cd1                                                      | 1.000 | ppm   | 1.535 % | .9922 | .9905 | 1.018 |   |   |
| Co1                                                      | 2.550 | ppm   | 1.222 % | 2.546 | 2.520 | 2.582 |   |   |
| Cr4                                                      | .4923 | ppm   | 1.176 % | .4890 | .4889 | .4990 |   |   |
| Cu1                                                      | 1.253 | ppm   | .8678 % | 1.253 | 1.243 | 1.264 |   |   |
| Fe2                                                      | 5.093 | ppm   | .9237 % | 5.073 | 5.059 | 5.147 |   |   |
| K 1                                                      | 50.64 | ppm   | .3610 % | 50.79 | 50.70 | 50.44 |   |   |
| Mg4                                                      | 49.79 | ppm   | 1.194 % | 49.71 | 49.24 | 50.42 |   |   |
| Mn1                                                      | .7461 | ppm   | 1.040 % | .7424 | .7410 | .7551 |   |   |
| Na2                                                      | 52.81 | ppm   | .7373 % | 52.66 | 52.52 | 53.25 |   |   |
| Ni3                                                      | 1.992 | ppm   | 1.366 % | 1.981 | 1.971 | 2.022 |   |   |
| Pb1                                                      | .9732 | ppm   | 2.283 % | .9652 | .9560 | .9983 |   |   |
| Si 1                                                     | 5.799 | ppm   | .6446 % | 5.838 | 5.764 | 5.796 |   |   |
| S 4                                                      | .9978 | ppm   | 5.619 % | 1.044 | .9354 | 1.014 |   |   |
| Tl1                                                      | 2.016 | ppm   | 5.448 % | 2.109 | 1.895 | 2.045 |   |   |
| V 2                                                      | 2.549 | ppm   | 1.479 % | 2.538 | 2.518 | 2.591 |   |   |
| Zn3                                                      | .9949 | ppm   | 1.188 % | .9872 | .9891 | 1.009 |   |   |

0203

35 PS3000  
13:39:24 13 May 1999

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| Line               | Conc.  | Units | SD/RSD  | 1       | 2                        | 3      | 4 | 5 |
|--------------------|--------|-------|---------|---------|--------------------------|--------|---|---|
| *** Sample ID: CCB |        |       |         |         |                          |        |   |   |
|                    |        |       | 13-1    | Seq: 35 | 13:39:24 13 May 1999 ICP |        |   |   |
| Ag1                | .0003  | L ppm | 1435. % | -.0007  | .0044                    | -.0030 |   |   |
| Al3                | -.0161 | L ppm | -36.32% | -.0191  | -.0093                   | -.0197 |   |   |
| As2                | .0021  | L ppm | 538.4 % | .0139   | -.0093                   | .0018  |   |   |
| Ba1                | -.0006 | L ppm | -13.66% | -.0006  | -.0005                   | -.0007 |   |   |
| Be2                | .0009  | L ppm | 12.87 % | .0009   | .0010                    | .0008  |   |   |
| Ca3                | -.0026 | L ppm | -72.75% | -.0009  | -.0023                   | -.0046 |   |   |
| Cd1                | .0008  | L ppm | 23.87 % | .0006   | .0009                    | .0010  |   |   |
| Co1                | -.0033 | L ppm | -48.23% | -.0017  | -.0033                   | -.0049 |   |   |
| Cr4                | -.0011 | L ppm | -173.6% | -.0003  | .0003                    | -.0032 |   |   |
| Cu1                | -.0086 | L ppm | -9.479% | -.0085  | -.0078                   | -.0095 |   |   |
| Fe2                | -.0183 | L ppm | -3.075% | -.0189  | -.0177                   | -.0183 |   |   |
| K 1                | -.0323 | L ppm | -405.5% | .0539   | .0323                    | -.1832 |   |   |
| Mg4                | .0021  | L ppm | 370.1 % | .0058   | .0073                    | -.0068 |   |   |
| Mn1                | -.0007 | L ppm | -11.75% | -.0007  | -.0006                   | -.0007 |   |   |
| Na2                | .0190  | L ppm | 140.7 % | .0078   | -.0003                   | .0496  |   |   |
| Ni3                | -.0007 | L ppm | -65.90% | -.0007  | -.0002                   | -.0011 |   |   |
| Pb1                | .0042  | L ppm | 338.6 % | .0100   | .0148                    | -.0121 |   |   |
| Se1                | .0008  | L ppm | 1558. % | .0032   | .0111                    | -.0121 |   |   |
| Si                 | .0160  | L ppm | 92.11 % | .0261   | -.0009                   | .0229  |   |   |
| Tl1                | .0528  | L ppm | 69.93 % | .0254   | .0948                    | .0382  |   |   |
| V 2                | -.0004 | L ppm | -451.2% | .0017   | -.0021                   | -.0009 |   |   |
| Zn3                | -.0054 | L ppm | -14.28% | -.0045  | -.0060                   | -.0056 |   |   |

C204

S P63000  
13:42:49 13 May 1999

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| Line                                                                       | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 285796      13-1      Seq: 37      13:42:49 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                                        | -.0211 | L ppm | -8.273% | -.0227 | -.0213 | -.0192 |   |   |
| Al3                                                                        | 9.463  | ppm   | 1.500 % | 9.579  | 9.506  | 9.305  |   |   |
| As2                                                                        | .0147  | L ppm | 235.3 % | .0294  | .0396  | -.0248 |   |   |
| Ba1                                                                        | .0290  | ppm   | 1.666 % | .0292  | .0294  | .0285  |   |   |
| Be2                                                                        | .0045  | L ppm | 3.495 % | .0045  | .0046  | .0043  |   |   |
| Ca3                                                                        | 297.9  | ppm   | 1.842 % | 303.9  | 296.6  | 293.1  |   |   |
| Cd1                                                                        | .0066  | ppm   | 10.34 % | .0065  | .0074  | .0060  |   |   |
| Co1                                                                        | .0084  | L ppm | 44.82 % | .0115  | .0096  | .0042  |   |   |
| Cr4                                                                        | .0433  | ppm   | 5.039 % | .0458  | .0427  | .0415  |   |   |
| Cu1                                                                        | .0547  | ppm   | 4.245 % | .0571  | .0545  | .0525  |   |   |
| Fe2                                                                        | 3.849  | ppm   | 1.855 % | 3.925  | 3.841  | 3.783  |   |   |
| K 1                                                                        | 19.85  | ppm   | 1.475 % | 20.09  | 19.95  | 19.53  |   |   |
| Mg4                                                                        | 23.11  | ppm   | 2.132 % | 23.67  | 22.92  | 22.73  |   |   |
| Mn1                                                                        | .0431  | ppm   | 1.315 % | .0432  | .0436  | .0425  |   |   |
| Na2                                                                        | 7588.  | H ppm | 2.105 % | 7771.  | 7519.  | 7474.  |   |   |
| Ni3                                                                        | .1453  | ppm   | 3.480 % | .1512  | .1423  | .1425  |   |   |
| Pb1                                                                        | -.3916 | L ppm | -1.347% | -.3972 | -.3867 | -.3909 |   |   |
| S                                                                          | -.0700 | L ppm | -34.58% | -.0420 | -.0846 | -.0832 |   |   |
| Se4                                                                        | .0146  | L ppm | 409.6 % | .0782  | .0060  | -.0404 |   |   |
| Tl1                                                                        | -.3155 | L ppm | -26.85% | -.2300 | -.3171 | -.3994 |   |   |
| V 2                                                                        | 1.133  | ppm   | 1.489 % | 1.142  | 1.144  | 1.114  |   |   |
| Zn3                                                                        | .5705  | ppm   | 2.539 % | .5872  | .5619  | .5623  |   |   |

0205

S PS3000  
13:46:14 13 May 1999

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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 285798 13-1 Seq: 38 13:46:14 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | -.0181 | L ppm | -16.14% | -.0202 | -.0192 | -.0147 |   |   |
| Al3                                                         | 1.362  | ppm   | 2.063 % | 1.375  | 1.330  | 1.381  |   |   |
| As2                                                         | .0246  | L ppm | 65.73 % | .0077  | .0399  | .0264  |   |   |
| Ba1                                                         | .0188  | L ppm | .3723 % | .0188  | .0187  | .0188  |   |   |
| Be2                                                         | .0033  | L ppm | 4.974 % | .0034  | .0031  | .0033  |   |   |
| Ca3                                                         | 234.1  | ppm   | .1996 % | 234.2  | 233.6  | 234.6  |   |   |
| Cd1                                                         | .0070  | ppm   | 11.79 % | .0079  | .0063  | .0068  |   |   |
| Co1                                                         | -.0015 | L ppm | -174.7% | -.0016 | -.0042 | .0012  |   |   |
| Cr4                                                         | .0917  | ppm   | 2.731 % | .0930  | .0888  | .0932  |   |   |
| Cu1                                                         | .0318  | ppm   | 7.127 % | .0343  | .0299  | .0312  |   |   |
| Fe2                                                         | 2.922  | ppm   | .2980 % | 2.927  | 2.912  | 2.928  |   |   |
| K 1                                                         | 18.08  | ppm   | 1.430 % | 18.03  | 17.85  | 18.36  |   |   |
| Mg4                                                         | 16.42  | ppm   | .7503 % | 16.35  | 16.36  | 16.57  |   |   |
| Mn1                                                         | .0289  | ppm   | 5.361 % | .0306  | .0276  | .0285  |   |   |
| Na2                                                         | 7143.  | H ppm | .2371 % | 7159.  | 7125.  | 7145.  |   |   |
| Ni3                                                         | .2347  | ppm   | 1.270 % | .2321  | .2340  | .2380  |   |   |
| Pb1                                                         | -.7593 | L ppm | -2.102% | -.7761 | -.7573 | -.7444 |   |   |
| r                                                           | -.0161 | L ppm | -19.95% | -.0130 | -.0194 | -.0157 |   |   |
| Se4                                                         | .1550  | L ppm | 31.93 % | .2067  | .1081  | .1501  |   |   |
| Tl1                                                         | -.2282 | L ppm | -10.36% | -.2009 | -.2431 | -.2405 |   |   |
| V 2                                                         | .5097  | ppm   | .6434 % | .5132  | .5089  | .5068  |   |   |
| Zn3                                                         | .1859  | ppm   | 1.166 % | .1839  | .1857  | .1882  |   |   |

IS PS3000  
13:49:39 13 May 1999

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| Line                                                      | Conc.  | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|-----------------------------------------------------------|--------|-------|----------|--------|--------|--------|---|---|
| *** Sample ID: CRIF 13-1 Seq: 39 13:49:39 13 May 1999 ICP |        |       |          |        |        |        |   |   |
| Ag1                                                       | .0210  | ppm   | 17.92 %  | .0230  | .0166  | .0233  |   |   |
| Al3                                                       | .0014  | L ppm | 1694. %  | .0241  | -.0245 | .0047  |   |   |
| As2                                                       | .0178  | L ppm | 121.2 %  | .0408  | -.0018 | .0143  |   |   |
| Ba1                                                       | -.0003 | L ppm | -66.82%  | -.0002 | -.0006 | -.0002 |   |   |
| Be2                                                       | .0104  | ppm   | 3.956 %  | .0106  | .0106  | .0099  |   |   |
| Ca3                                                       | .0342  | L ppm | 12.93 %  | .0378  | .0293  | .0356  |   |   |
| Cd1                                                       | .0115  | ppm   | 5.861 %  | .0120  | .0107  | .0118  |   |   |
| Co1                                                       | .1025  | ppm   | 7.608 %  | .1019  | .0950  | .1106  |   |   |
| Cr4                                                       | .0186  | ppm   | 13.04 %  | .0193  | .0159  | .0206  |   |   |
| Cu1                                                       | .0460  | ppm   | 4.385 %  | .0464  | .0438  | .0478  |   |   |
| Fe2                                                       | -.0012 | L ppm | -210.2%  | .0003  | -.0041 | .0002  |   |   |
| K 1                                                       | -.0025 | L ppm | -7054.7% | .1774  | -.1803 | -.0047 |   |   |
| Mg4                                                       | .0018  | L ppm | 1508. %  | .0271  | -.0257 | .0038  |   |   |
| Mn1                                                       | .0356  | ppm   | 2.321 %  | .0357  | .0348  | .0364  |   |   |
| Na2                                                       | 2.084  | ppm   | 8.060 %  | 2.277  | 1.993  | 1.981  |   |   |
| Ni3                                                       | .0780  | ppm   | 5.888 %  | .0808  | .0727  | .0805  |   |   |
| Pb1                                                       | .1203  | ppm   | 6.928 %  | .1267  | .1109  | .1233  |   |   |
| Se1                                                       | .1111  | ppm   | 28.45 %  | .1393  | .1170  | .0769  |   |   |
| Sn4                                                       | .0158  | L ppm | 134.3 %  | .0403  | .0018  | .0054  |   |   |
| Tl1                                                       | .0423  | L ppm | 26.73 %  | .0296  | .0463  | .0511  |   |   |
| V 2                                                       | .1001  | ppm   | 1.665 %  | .1016  | .1005  | .0983  |   |   |
| Zn3                                                       | .0405  | ppm   | 2.563 %  | .0411  | .0393  | .0412  |   |   |

0207

IS PS3000  
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| Line                                                       | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: ICSAF 13-1 Seq: 41 13:53:04 13 May 1999 ICF |        |       |         |        |        |        |   |   |
| Ag1                                                        | -.0005 | L ppm | -651.6% | .0011  | -.0039 | .0014  |   |   |
| Al3                                                        | 461.1  | ppm   | 1.278 % | 459.5  | 456.1  | 467.6  |   |   |
| As2                                                        | -.3209 | L ppm | -4.190% | -.3091 | -.3355 | -.3181 |   |   |
| Ba1                                                        | -.0000 | L ppm | -4741.% | .0001  | -.0001 | -.0000 |   |   |
| Be2                                                        | .0005  | L ppm | 183.5 % | .0009  | -.0005 | .0012  |   |   |
| Ca3                                                        | 481.6  | ppm   | .4372 % | 482.4  | 479.2  | 483.2  |   |   |
| Cd1                                                        | .0008  | L ppm | 255.4 % | .0015  | -.0016 | .0026  |   |   |
| Co1                                                        | -.0012 | L ppm | -238.6% | -.0007 | -.0044 | .0014  |   |   |
| Cr4                                                        | .0012  | L ppm | 110.5 % | -.0003 | .0018  | .0021  |   |   |
| Cu1                                                        | .0068  | L ppm | 27.81 % | .0089  | .0055  | .0058  |   |   |
| Fe2                                                        | 174.6  | ppm   | .7597 % | 174.7  | 173.2  | 175.8  |   |   |
| K 1                                                        | .0903  | L ppm | 115.2 % | .1915  | -.0164 | .0959  |   |   |
| Mg4                                                        | 499.6  | ppm   | .4542 % | 500.2  | 497.0  | 501.4  |   |   |
| Mn1                                                        | -.0067 | L ppm | -4.088% | -.0070 | -.0065 | -.0067 |   |   |
| Na2                                                        | 1.506  | ppm   | 4.922 % | 1.485  | 1.588  | 1.444  |   |   |
| Ni3                                                        | .0034  | L ppm | 128.3 % | .0039  | -.0012 | .0073  |   |   |
| Pb1                                                        | -.0205 | L ppm | -40.49% | -.0277 | -.0114 | -.0225 |   |   |
| Se4                                                        | -.0036 | L ppm | -648.7% | -.0064 | -.0252 | .0209  |   |   |
| Sn4                                                        | .0629  | L ppm | 67.61 % | .1103  | .0502  | .0281  |   |   |
| Tl1                                                        | -.0195 | L ppm | -285.3% | .0118  | -.0838 | .0135  |   |   |
| V 2                                                        | -.0141 | L ppm | -19.29% | -.0149 | -.0164 | -.0111 |   |   |
| Zn3                                                        | -.0214 | L ppm | -11.66% | -.0231 | -.0225 | -.0185 |   |   |

0208

AS P53000  
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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: ICSABF 13-1 Seq: 42 13:56:29 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | .9922  | ppm   | .5170 % | .9931  | .9968  | .9866  |   |   |
| Al3                                                         | 462.2  | ppm   | .4216 % | 463.5  | 463.1  | 459.9  |   |   |
| As2                                                         | -.3000 | L ppm | -30.85% | -.3133 | -.3852 | -.2015 |   |   |
| Ba1                                                         | .4231  | ppm   | .5040 % | .4242  | .4244  | .4206  |   |   |
| Be2                                                         | .4614  | ppm   | .3873 % | .4624  | .4625  | .4593  |   |   |
| Ca3                                                         | 484.7  | ppm   | .0245 % | 484.8  | 484.8  | 484.6  |   |   |
| Cd1                                                         | .8756  | ppm   | .1181 % | .8756  | .8745  | .8766  |   |   |
| Co1                                                         | .4454  | ppm   | 1.140 % | .4432  | .4512  | .4417  |   |   |
| Cr4                                                         | .4302  | ppm   | .7999 % | .4269  | .4338  | .4298  |   |   |
| Cu1                                                         | .4700  | ppm   | .5732 % | .4721  | .4708  | .4669  |   |   |
| Fe2                                                         | 175.7  | ppm   | .2088 % | 175.8  | 176.0  | 175.3  |   |   |
| K 1                                                         | .1308  | L ppm | 72.09 % | .0581  | .0970  | .2373  |   |   |
| Mg4                                                         | 501.3  | H ppm | .0200 % | 501.4  | 501.3  | 501.2  |   |   |
| Mn1                                                         | .4374  | ppm   | .0724 % | .4375  | .4371  | .4377  |   |   |
| Na2                                                         | 1.497  | ppm   | 17.54 % | 1.787  | 1.431  | 1.274  |   |   |
| Ni3                                                         | .8585  | ppm   | .7716 % | .8603  | .8512  | .8641  |   |   |
| Pb1                                                         | .8362  | ppm   | 2.514 % | .8532  | .8426  | .8127  |   |   |
| Se 1                                                        | .0091  | L ppm | 493.7 % | .0018  | .0573  | -.0318 |   |   |
| Se 4                                                        | .0041  | L ppm | 333.9 % | -.0116 | .0113  | .0126  |   |   |
| Tl1                                                         | .0283  | L ppm | 82.33 % | .0313  | .0036  | .0498  |   |   |
| V 2                                                         | .4417  | ppm   | 1.613 % | .4470  | .4336  | .4446  |   |   |
| Zn3                                                         | .8320  | ppm   | .9557 % | .8230  | .8381  | .8348  |   |   |

0209

IS PS3000  
13:59:54 13 May 1999

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| Line                                                     | Conc. | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|----------------------------------------------------------|-------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: CCV 13-1 Seq: 43 13:59:54 13 May 1999 ICP |       |       |         |       |       |       |   |   |
| Ag1                                                      | .4954 | ppm   | .5645 % | .4970 | .4922 | .4970 |   |   |
| Al3                                                      | 10.02 | ppm   | .9741 % | 10.12 | 9.925 | 10.00 |   |   |
| As2                                                      | 1.947 | ppm   | .5637 % | 1.959 | 1.937 | 1.945 |   |   |
| Ba1                                                      | 9.502 | ppm   | .7865 % | 9.582 | 9.435 | 9.489 |   |   |
| Be2                                                      | .2443 | ppm   | .9718 % | .2462 | .2417 | .2451 |   |   |
| Ca3                                                      | 50.22 | ppm   | .4736 % | 50.39 | 49.94 | 50.31 |   |   |
| Cd1                                                      | .9939 | ppm   | .4912 % | .9959 | .9883 | .9975 |   |   |
| Co1                                                      | 2.562 | ppm   | .6757 % | 2.575 | 2.542 | 2.567 |   |   |
| Cr4                                                      | .4899 | ppm   | .6602 % | .4897 | .4868 | .4933 |   |   |
| Cu1                                                      | 1.254 | ppm   | 1.093 % | 1.269 | 1.244 | 1.248 |   |   |
| Fe2                                                      | 5.179 | ppm   | .5283 % | 5.196 | 5.148 | 5.194 |   |   |
| K 1                                                      | 50.31 | ppm   | .2659 % | 50.36 | 50.16 | 50.42 |   |   |
| Mg4                                                      | 49.44 | ppm   | .6791 % | 49.60 | 49.06 | 49.67 |   |   |
| Mn1                                                      | .7449 | ppm   | .7878 % | .7486 | .7382 | .7480 |   |   |
| Na2                                                      | 52.37 | ppm   | .7850 % | 52.78 | 51.95 | 52.38 |   |   |
| Ni3                                                      | 1.973 | ppm   | .1510 % | 1.973 | 1.976 | 1.970 |   |   |
| Pb1                                                      | .9629 | ppm   | .5464 % | .9673 | .9571 | .9644 |   |   |
| S 1                                                      | 5.744 | ppm   | .6903 % | 5.789 | 5.731 | 5.713 |   |   |
| Se+                                                      | .9763 | ppm   | 5.791 % | 1.000 | .9118 | 1.017 |   |   |
| Tl1                                                      | 1.982 | ppm   | 3.053 % | 2.051 | 1.961 | 1.935 |   |   |
| V 2                                                      | 2.562 | ppm   | .8387 % | 2.571 | 2.538 | 2.578 |   |   |
| Zn3                                                      | .9964 | ppm   | .4083 % | .9960 | .9926 | 1.001 |   |   |

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4S PS3000  
14:03:19 13 May 1999

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| Line                                                                                                                    | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: CCB                      13-1                      Seq: 45                      14:03:19 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                                                                                     | .0049  | L ppm | 67.18 % | .0050  | .0082  | .0016  |   |   |
| Al3                                                                                                                     | .0161  | L ppm | 211.9 % | .0221  | .0469  | -.0206 |   |   |
| As2                                                                                                                     | .0070  | L ppm | 598.1 % | .0020  | .0510  | -.0320 |   |   |
| Ba1                                                                                                                     | .0020  | L ppm | 25.48 % | .0026  | .0020  | .0016  |   |   |
| Be2                                                                                                                     | .0011  | L ppm | 26.22 % | .0008  | .0014  | .0012  |   |   |
| Ca3                                                                                                                     | .0246  | L ppm | 28.65 % | .0315  | .0248  | .0174  |   |   |
| Cd1                                                                                                                     | .0017  | L ppm | 24.92 % | .0022  | .0014  | .0015  |   |   |
| Co1                                                                                                                     | -.0020 | L ppm | -126.8% | -.0003 | -.0008 | -.0049 |   |   |
| Cr4                                                                                                                     | .0007  | L ppm | 289.7 % | -.0007 | .0031  | -.0003 |   |   |
| Cu1                                                                                                                     | -.0080 | L ppm | -28.85% | -.0054 | -.0090 | -.0097 |   |   |
| Fe2                                                                                                                     | .0022  | L ppm | 191.0 % | .0050  | .0041  | -.0026 |   |   |
| K 1                                                                                                                     | -.0946 | L ppm | -140.4% | .0581  | -.1833 | -.1585 |   |   |
| Mg4                                                                                                                     | .0448  | L ppm | 56.20 % | .0302  | .0739  | .0304  |   |   |
| Mn1                                                                                                                     | -.0003 | L ppm | -79.08% | -.0004 | -.0005 | -.0000 |   |   |
| Na2                                                                                                                     | .4501  | L ppm | 17.42 % | .4872  | .5032  | .3600  |   |   |
| Ni3                                                                                                                     | .0001  | L ppm | 4409. % | .0021  | .0015  | -.0034 |   |   |
| Pb1                                                                                                                     | .0153  | L ppm | 49.36 % | .0207  | .0186  | .0067  |   |   |
|                                                                                                                         | -.0252 | L ppm | -110.1% | -.0341 | .0059  | -.0475 |   |   |
| Se4                                                                                                                     | .0438  | L ppm | 89.98 % | .0611  | .0716  | -.0013 |   |   |
| Tl1                                                                                                                     | .0598  | L ppm | 29.38 % | .0489  | .0505  | .0801  |   |   |
| V 2                                                                                                                     | .0036  | L ppm | 231.1 % | .0125  | .0020  | -.0038 |   |   |
| Zn3                                                                                                                     | -.0073 | L ppm | -7.561% | -.0071 | -.0069 | -.0079 |   |   |

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IS PS3000  
14:06:45 13 May 1999

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| Line                                                          | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|---------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: PBS 4-14 13-1 Seq: 47 14:06:45 13 May 1999 ICP |        |       |         |        |        |        |   |   |
|                                                               |        |       | 1.00    |        |        |        |   |   |
| Ag1                                                           | .0006  | L ppm | 222.9 % | .0020  | -.0006 | .0004  |   |   |
| Al3                                                           | .0320  | L ppm | 109.9 % | .0719  | .0061  | .0178  |   |   |
| As2                                                           | .0026  | L ppm | 726.6 % | .0186  | -.0178 | .0068  |   |   |
| Ba1                                                           | .0001  | L ppm | 209.0 % | .0000  | -.0000 | .0003  |   |   |
| Be2                                                           | .0008  | L ppm | 35.79 % | .0005  | .0010  | .0008  |   |   |
| Ca3                                                           | .0551  | L ppm | 5.678 % | .0587  | .0528  | .0538  |   |   |
| Cd1                                                           | .0014  | L ppm | 12.10 % | .0013  | .0012  | .0016  |   |   |
| Co1                                                           | -.0017 | L ppm | -156.9% | -.0046 | .0006  | -.0010 |   |   |
| Cr4                                                           | .0030  | L ppm | 46.03 % | .0042  | .0015  | .0034  |   |   |
| Cu1                                                           | .0788  | ppm   | 3.139 % | .0760  | .0797  | .0807  |   |   |
| Fe2                                                           | .3979  | ppm   | .4538 % | .3965  | .4000  | .3973  |   |   |
| K 1                                                           | .1421  | L ppm | 79.25 % | .0128  | .1949  | .2186  |   |   |
| Mg4                                                           | .0237  | L ppm | 183.7 % | .0710  | -.0146 | .0147  |   |   |
| Mn1                                                           | .0035  | L ppm | 10.34 % | .0033  | .0039  | .0033  |   |   |
| Na2                                                           | .4447  | L ppm | 12.68 % | .5026  | .3899  | .4416  |   |   |
| Ni3                                                           | .0004  | L ppm | 423.9 % | .0002  | -.0012 | .0023  |   |   |
| Pb1                                                           | .0079  | L ppm | 231.7 % | -.0128 | .0147  | .0218  |   |   |
|                                                               | -.0131 | L ppm | -170.6% | -.0164 | -.0336 | .0107  |   |   |
| Se4                                                           | .0240  | L ppm | 55.54 % | .0354  | .0093  | .0274  |   |   |
| Tl1                                                           | .0391  | L ppm | 41.82 % | .0374  | .0562  | .0236  |   |   |
| V 2                                                           | .0055  | L ppm | 182.8 % | .0102  | -.0061 | .0125  |   |   |
| Zn3                                                           | .0098  | L ppm | 10.35 % | .0098  | .0107  | .0087  |   |   |

*not  
needed  
OKS/14/99*

C212

.S PS3000  
14:10:09 13 May 1999

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| Line                          | Conc. | Units | SD/RSD  | 1       | 2                        | 3     | 4 | 5 |
|-------------------------------|-------|-------|---------|---------|--------------------------|-------|---|---|
| *** Sample ID: LCSS #239 13-1 |       |       |         | Seq: 48 | 14:10:09 13 May 1999 ICP |       |   |   |
|                               |       |       | 1.01    |         |                          |       |   |   |
| Ag1                           | .2920 | ppm   | .8454 % | .2908   | .2903                    | .2948 |   |   |
| Al3                           | 25.89 | ppm   | 1.150 % | 25.56   | 25.97                    | 26.14 |   |   |
| As2                           | .7783 | ppm   | 2.837 % | .8026   | .7595                    | .7729 |   |   |
| Ba1                           | .7494 | ppm   | .9474 % | .7414   | .7516                    | .7551 |   |   |
| Be2                           | .3715 | ppm   | .6864 % | .3689   | .3717                    | .3740 |   |   |
| Ca3                           | 6.357 | ppm   | 1.084 % | 6.282   | 6.373                    | 6.417 |   |   |
| Cd1                           | .5754 | ppm   | .6310 % | .5719   | .5750                    | .5791 |   |   |
| Co1                           | .3541 | ppm   | 1.453 % | .3482   | .3570                    | .3572 |   |   |
| Cr4                           | .8478 | ppm   | 1.395 % | .8343   | .8526                    | .8565 |   |   |
| Cu1                           | .5015 | ppm   | 1.022 % | .4956   | .5047                    | .5042 |   |   |
| Fe2                           | 43.04 | ppm   | 1.010 % | 42.57   | 43.11                    | 43.43 |   |   |
| K 1                           | 7.479 | ppm   | 1.443 % | 7.574   | 7.501                    | 7.362 |   |   |
| Mg4                           | 5.709 | ppm   | 1.185 % | 5.639   | 5.715                    | 5.774 |   |   |
| Mn1                           | 1.288 | ppm   | 1.012 % | 1.273   | 1.292                    | 1.298 |   |   |
| Na2                           | 8.797 | ppm   | 1.548 % | 8.640   | 8.872                    | 8.880 |   |   |
| Ni3                           | .3182 | ppm   | 1.711 % | .3133   | .3172                    | .3240 |   |   |
| Pb1                           | .3250 | ppm   | 3.672 % | .3113   | .3324                    | .3314 |   |   |
| '                             | .1330 | ppm   | 6.298 % | .1249   | .1416                    | .1323 |   |   |
| Se4                           | .6597 | ppm   | 3.985 % | .6511   | .6457                    | .6822 |   |   |
| Tl1                           | .3241 | ppm   | 13.86 % | .2740   | .3608                    | .3375 |   |   |
| V 2                           | .4753 | ppm   | 2.018 % | .4659   | .4750                    | .4851 |   |   |
| Zn3                           | .9693 | ppm   | 1.187 % | .9571   | .9708                    | .9799 |   |   |

not  
needed  
OK 5/14/99

IS PS3000  
14:13:34 13 May 1999

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| Line                                                                       | Conc.  | Units | SD/RSD  | 1     | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------------------|--------|-------|---------|-------|--------|--------|---|---|
| *** Sample ID: 283554      13-1      Seq: 49      14:13:34 13 May 1999 ICP |        |       |         |       |        |        |   |   |
| 1.03                                                                       |        |       |         |       |        |        |   |   |
| Ag1                                                                        | .0045  | L ppm | 126.0 % | .0052 | -.0015 | .0098  |   |   |
| Al3                                                                        | 2.677  | ppm   | .9705 % | 2.684 | 2.649  | 2.699  |   |   |
| As2                                                                        | .0107  | L ppm | 43.93 % | .0160 | .0087  | .0073  |   |   |
| Ba1                                                                        | .0127  | L ppm | 2.597 % | .0128 | .0123  | .0130  |   |   |
| Be2                                                                        | .0011  | L ppm | 17.08 % | .0013 | .0009  | .0012  |   |   |
| Ca3                                                                        | 3.673  | ppm   | .5112 % | 3.663 | 3.662  | 3.695  |   |   |
| Cd1                                                                        | .0035  | L ppm | 7.179 % | .0035 | .0032  | .0037  |   |   |
| Co1                                                                        | .0040  | L ppm | 33.67 % | .0048 | .0048  | .0024  |   |   |
| Cr4                                                                        | .0119  | ppm   | 15.80 % | .0138 | .0100  | .0120  |   |   |
| Cu1                                                                        | 4.869  | ppm   | .2997 % | 4.860 | 4.860  | 4.886  |   |   |
| Fe2                                                                        | 4.530  | ppm   | .3563 % | 4.525 | 4.517  | 4.548  |   |   |
| K 1                                                                        | .2825  | L ppm | 38.70 % | .1948 | .2477  | .4050  |   |   |
| Mg4                                                                        | .9834  | ppm   | 3.315 % | .9856 | .9497  | 1.015  |   |   |
| Mn1                                                                        | .0538  | ppm   | .6628 % | .0540 | .0533  | .0539  |   |   |
| Na2                                                                        | .6378  | ppm   | 14.34 % | .6911 | .5321  | .6900  |   |   |
| Ni3                                                                        | .0449  | ppm   | 3.592 % | .0464 | .0432  | .0449  |   |   |
| Pb1                                                                        | .6003  | ppm   | 1.968 % | .6021 | .5877  | .6112  |   |   |
| !                                                                          | -.0039 | L ppm | -967.8% | .0377 | -.0362 | -.0132 |   |   |
| Li4                                                                        | .0254  | L ppm | 136.0 % | .0628 | .0183  | -.0051 |   |   |
| Tl1                                                                        | .0454  | L ppm | 31.97 % | .0504 | .0290  | .0567  |   |   |
| V 2                                                                        | .0088  | L ppm | 44.23 % | .0127 | .0049  | .0089  |   |   |
| Zn3                                                                        | 2.132  | ppm   | .7984 % | 2.135 | 2.113  | 2.147  |   |   |

C214

S PS3000  
14:16:59 13 May 1999

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| Line                                                                       | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 283555      13-1      Seq: 51      14:16:59 13 May 1999 ICP |        |       |         |        |        |        |   |   |
|                                                                            |        |       | 1.07    |        |        |        |   |   |
| Ag1                                                                        | .0690  | ppm   | 1.924 % | .0675  | .0701  | .0695  |   |   |
| Al3                                                                        | 531.8  | H ppm | 1.206 % | 538.2  | 525.4  | 531.9  |   |   |
| As2                                                                        | .2556  | L ppm | 15.29 % | .2806  | .2105  | .2756  |   |   |
| Ba1                                                                        | .0067  | L ppm | 4.180 % | .0067  | .0070  | .0064  |   |   |
| Be2                                                                        | .0014  | L ppm | 60.90 % | .0011  | .0024  | .0008  |   |   |
| Ca3                                                                        | 1.796  | ppm   | .7623 % | 1.812  | 1.786  | 1.791  |   |   |
| Cd1                                                                        | .0547  | ppm   | 1.465 % | .0539  | .0555  | .0547  |   |   |
| Co1                                                                        | .0193  | L ppm | 15.44 % | .0197  | .0220  | .0161  |   |   |
| Cr4                                                                        | .0275  | ppm   | 7.636 % | .0260  | .0267  | .0300  |   |   |
| Cu1                                                                        | 329.2  | H ppm | 1.514 % | 334.1  | 324.1  | 329.3  |   |   |
| Fe2                                                                        | 3.889  | ppm   | 1.152 % | 3.940  | 3.858  | 3.868  |   |   |
| K 1                                                                        | .3218  | L ppm | 49.42 % | .2885  | .4949  | .1821  |   |   |
| Mg4                                                                        | .8250  | ppm   | 4.513 % | .8391  | .7827  | .8530  |   |   |
| Mn1                                                                        | .6057  | ppm   | .6034 % | .6091  | .6018  | .6063  |   |   |
| Na2                                                                        | .8834  | ppm   | 1.629 % | .8708  | .8804  | .8991  |   |   |
| Ni3                                                                        | 1.283  | ppm   | .6828 % | 1.293  | 1.276  | 1.279  |   |   |
| Pb1                                                                        | 13.98  | ppm   | .6404 % | 14.08  | 13.94  | 13.91  |   |   |
|                                                                            | 1.081  | ppm   | 9.672 % | 1.077  | 1.187  | .9783  |   |   |
|                                                                            | .3051  | L ppm | 9.780 % | .3112  | .2727  | .3315  |   |   |
| Tl1                                                                        | .1314  | L ppm | 70.20 % | .0339  | .2172  | .1431  |   |   |
| V 2                                                                        | -.0065 | L ppm | -59.99% | -.0020 | -.0089 | -.0087 |   |   |
| Zn3                                                                        | 2763.  | H ppm | .6228 % | 2781.  | 2762.  | 2747.  |   |   |

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| Line                                                                       | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 283560      13-1      Seq: 52      14:20:24 13 May 1999 ICP |        |       |         |        |        |        |   |   |
|                                                                            |        |       | 1.12    |        |        |        |   |   |
| Ag1                                                                        | .0968  | ppm   | 7.104 % | .0982  | .1029  | .0893  |   |   |
| Al3                                                                        | 5.240  | ppm   | 2.076 % | 5.268  | 5.331  | 5.119  |   |   |
| As2                                                                        | -3.935 | L ppm | -1.095% | -3.914 | -3.907 | -3.985 |   |   |
| Ba1                                                                        | .0163  | L ppm | 2.509 % | .0163  | .0167  | .0159  |   |   |
| Be2                                                                        | -.0010 | L ppm | -90.24% | -.0003 | -.0006 | -.0020 |   |   |
| Ca3                                                                        | 8.925  | ppm   | .9172 % | 8.939  | 8.999  | 8.837  |   |   |
| Cd1                                                                        | .0095  | ppm   | 6.408 % | .0099  | .0098  | .0088  |   |   |
| Co1                                                                        | .1783  | ppm   | 6.710 % | .1830  | .1871  | .1646  |   |   |
| Cr4                                                                        | 5.147  | ppm   | .9522 % | 5.141  | 5.198  | 5.101  |   |   |
| Cu1                                                                        | 693.4  | H ppm | 1.307 % | 697.7  | 699.5  | 683.0  |   |   |
| Fe2                                                                        | 2136.  | H ppm | .7915 % | 2140.  | 2150.  | 2117.  |   |   |
| K 1                                                                        | .8146  | L ppm | 12.30 % | .9267  | .7339  | .7833  |   |   |
| Mg4                                                                        | 1.599  | ppm   | 2.145 % | 1.573  | 1.586  | 1.638  |   |   |
| Mn1                                                                        | 22.77  | ppm   | .8856 % | 22.80  | 22.95  | 22.55  |   |   |
| Na2                                                                        | .7876  | ppm   | 6.667 % | .7996  | .8330  | .7301  |   |   |
| Ni3                                                                        | 5.662  | ppm   | 1.247 % | 5.655  | 5.735  | 5.595  |   |   |
| Pb1                                                                        | 18.35  | ppm   | 1.247 % | 18.34  | 18.58  | 18.13  |   |   |
|                                                                            | .2752  | ppm   | 6.512 % | .2952  | .2695  | .2608  |   |   |
| Se4                                                                        | .0379  | L ppm | 254.3 % | .0667  | .1166  | -.0696 |   |   |
| Tl1                                                                        | -.0040 | L ppm | -1370.% | .0571  | -.0492 | -.0199 |   |   |
| V 2                                                                        | .1789  | ppm   | 5.578 % | .1835  | .1675  | .1858  |   |   |
| Zn3                                                                        | 50.99  | H ppm | 1.320 % | 51.07  | 51.62  | 50.28  |   |   |

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| Line                                                         | Conc.    | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|--------------------------------------------------------------|----------|-------|----------|--------|--------|--------|---|---|
| *** Sample ID: 283560D 13-1 Seq: 53 14:23:49 13 May 1999 ICP |          |       |          |        |        |        |   |   |
|                                                              |          |       | 1.05     |        |        |        |   |   |
| Ag1                                                          | .0838    | ppm   | 1.679 %  | .0852  | .0839  | .0824  |   |   |
| Al3                                                          | 5.060    | ppm   | 1.175 %  | 4.992  | 5.085  | 5.103  |   |   |
| As2                                                          | -3.025 L | ppm   | -1.397 % | -3.060 | -2.978 | -3.036 |   |   |
| Ba1                                                          | .0149 L  | ppm   | 1.072 %  | .0148  | .0149  | .0151  |   |   |
| Be2                                                          | -.0008 L | ppm   | -183.6 % | .0002  | -.0026 | -.0001 |   |   |
| Ca3                                                          | 8.403    | ppm   | 1.141 %  | 8.292  | 8.452  | 8.464  |   |   |
| Cd1                                                          | .0087    | ppm   | 14.51 %  | .0090  | .0073  | .0098  |   |   |
| Co1                                                          | .1578    | ppm   | 1.586 %  | .1550  | .1595  | .1590  |   |   |
| Cr4                                                          | 4.727    | ppm   | 1.137 %  | 4.666  | 4.750  | 4.765  |   |   |
| Cu1                                                          | 506.3 H  | ppm   | 1.262 %  | 499.1  | 508.8  | 511.1  |   |   |
| Fe2                                                          | 1896. H  | ppm   | .7449 %  | 1880.  | 1906.  | 1903.  |   |   |
| K 1                                                          | .6551 L  | ppm   | 37.75 %  | .4762  | .9373  | .5517  |   |   |
| Mg4                                                          | 1.590    | ppm   | 2.420 %  | 1.548  | 1.601  | 1.622  |   |   |
| Mn1                                                          | 19.63    | ppm   | 1.159 %  | 19.37  | 19.73  | 19.79  |   |   |
| Na2                                                          | .6508    | ppm   | 9.730 %  | .6376  | .5952  | .7198  |   |   |
| Ni3                                                          | 4.840    | ppm   | 1.019 %  | 4.784  | 4.879  | 4.856  |   |   |
| Pb1                                                          | 15.39    | ppm   | .7925 %  | 15.25  | 15.43  | 15.48  |   |   |
| S 1                                                          | .3522    | ppm   | 8.762 %  | .3212  | .3526  | .3829  |   |   |
| U 1                                                          | .0676 L  | ppm   | 70.63 %  | .0879  | .0130  | .1018  |   |   |
| Tl1                                                          | .0855 L  | ppm   | 62.05 %  | .1085  | .0248  | .1232  |   |   |
| V 2                                                          | .1718    | ppm   | 3.233 %  | .1654  | .1759  | .1740  |   |   |
| Zn3                                                          | 43.67    | ppm   | 1.043 %  | 43.14  | 43.91  | 43.95  |   |   |

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| Line                                                          | Conc.    | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|---------------------------------------------------------------|----------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 28356005 13-1 Seq: 55 14:27:14 13 May 1999 ICP |          |       |         |        |        |        |   |   |
|                                                               |          |       | 1.12    |        |        |        |   |   |
| Ag1                                                           | .1229    | ppm   | 5.435 % | .1256  | .1153  | .1278  |   |   |
| Al3                                                           | 7.336    | ppm   | 1.502 % | 7.365  | 7.215  | 7.429  |   |   |
| As2                                                           | -3.139 L | ppm   | -6.555% | -2.971 | -3.368 | -3.078 |   |   |
| Ba1                                                           | 1.867    | ppm   | .9597 % | 1.863  | 1.852  | 1.887  |   |   |
| Be2                                                           | .0444    | ppm   | 1.697 % | .0449  | .0436  | .0448  |   |   |
| Ca3                                                           | 10.48    | ppm   | 1.570 % | 10.50  | 10.31  | 10.64  |   |   |
| Cd1                                                           | .0556    | ppm   | 3.378 % | .0549  | .0542  | .0577  |   |   |
| Co1                                                           | .6396    | ppm   | 2.471 % | .6355  | .6263  | .6571  |   |   |
| Cr4                                                           | 4.937    | ppm   | 1.379 % | 4.939  | 4.868  | 5.004  |   |   |
| Cu1                                                           | 439.9 H  | ppm   | 1.183 % | 439.1  | 435.2  | 445.5  |   |   |
| Fe2                                                           | 1910. H  | ppm   | 1.322 % | 1916.  | 1883.  | 1932.  |   |   |
| K 1                                                           | 21.29    | ppm   | 1.442 % | 21.33  | 20.97  | 21.58  |   |   |
| Mg4                                                           | 3.448    | ppm   | 3.400 % | 3.509  | 3.313  | 3.523  |   |   |
| Mn1                                                           | 20.37    | ppm   | 1.387 % | 20.36  | 20.09  | 20.65  |   |   |
| Na2                                                           | 22.22    | ppm   | 1.440 % | 22.22  | 21.90  | 22.54  |   |   |
| Ni3                                                           | 6.374    | ppm   | 1.632 % | 6.392  | 6.262  | 6.467  |   |   |
| Pb1                                                           | 14.05    | ppm   | 1.576 % | 14.07  | 13.82  | 14.26  |   |   |
| S 1                                                           | .5293    | ppm   | 7.392 % | .5373  | .4867  | .5637  |   |   |
| U +                                                           | .1222 L  | ppm   | 113.1 % | .2093  | -.0371 | .1943  |   |   |
| Tl1                                                           | 1.938    | ppm   | 6.676 % | 1.957  | 1.800  | 2.057  |   |   |
| V 2                                                           | .6651    | ppm   | .8315 % | .6616  | .6622  | .6715  |   |   |
| Zn3                                                           | 40.75    | ppm   | 1.873 % | 40.88  | 39.93  | 41.44  |   |   |

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| Line                                                         | Conc.    | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|--------------------------------------------------------------|----------|-------|----------|--------|--------|--------|---|---|
| *** Sample ID: 283560A 13-1 Seq: 56 14:30:39 13 May 1999 ICP |          |       |          |        |        |        |   |   |
| Ag1                                                          | .1341    | ppm   | 1.637 %  | .1354  | .1316  | .1353  |   |   |
| Al3                                                          | 7.080    | ppm   | 1.107 %  | 7.136  | 6.991  | 7.114  |   |   |
| As2                                                          | -3.109 L | ppm   | -2.550 % | -3.131 | -3.176 | -3.021 |   |   |
| Ba1                                                          | 1.882    | ppm   | .6879 %  | 1.884  | 1.869  | 1.894  |   |   |
| Be2                                                          | .0472    | ppm   | 3.241 %  | .0475  | .0456  | .0486  |   |   |
| Ca3                                                          | 10.33    | ppm   | .7566 %  | 10.39  | 10.24  | 10.35  |   |   |
| Cd1                                                          | .0594    | ppm   | 1.309 %  | .0597  | .0600  | .0585  |   |   |
| Co1                                                          | .6580    | ppm   | 1.816 %  | .6699  | .6460  | .6580  |   |   |
| Cr4                                                          | 4.881    | ppm   | .7486 %  | 4.892  | 4.840  | 4.910  |   |   |
| Cu1                                                          | 500.5 H  | ppm   | .9127 %  | 501.3  | 495.6  | 504.6  |   |   |
| Fe2                                                          | 1866. H  | ppm   | .7686 %  | 1880.  | 1851.  | 1866.  |   |   |
| K 1                                                          | 21.71    | ppm   | .7480 %  | 21.82  | 21.53  | 21.79  |   |   |
| Mg4                                                          | 3.446    | ppm   | 1.134 %  | 3.489  | 3.413  | 3.437  |   |   |
| Mn1                                                          | 19.97    | ppm   | .6981 %  | 20.05  | 19.81  | 20.06  |   |   |
| Na2                                                          | 22.28    | ppm   | .8007 %  | 22.24  | 22.12  | 22.47  |   |   |
| Ni3                                                          | 5.287    | ppm   | 1.457 %  | 5.336  | 5.198  | 5.326  |   |   |
| Pb1                                                          | 15.74    | ppm   | .7431 %  | 15.87  | 15.64  | 15.72  |   |   |
| '                                                            | .8173    | ppm   | 10.41 %  | .8048  | .7391  | .9079  |   |   |
| S_4                                                          | .0898 L  | ppm   | 25.73 %  | .1140  | .0875  | .0680  |   |   |
| Tl1                                                          | 1.945    | ppm   | 4.333 %  | 1.930  | 1.869  | 2.036  |   |   |
| V 2                                                          | .6903    | ppm   | 1.587 %  | .6923  | .6785  | .7001  |   |   |
| Zn3                                                          | 43.28    | ppm   | .8521 %  | 43.64  | 42.90  | 43.29  |   |   |

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| Line                                                         | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|--------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 283560L 13-1 Seq: 57 14:34:03 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                          | .0167  | ppm   | 23.11 % | .0140  | .0150  | .0212  |   |   |
| Al3                                                          | 1.075  | ppm   | 1.990 % | 1.099  | 1.068  | 1.058  |   |   |
| As2                                                          | -.5811 | L ppm | -4.605% | -.6057 | -.5526 | -.5851 |   |   |
| Ba1                                                          | .0027  | L ppm | 3.365 % | .0028  | .0026  | .0027  |   |   |
| Be2                                                          | .0009  | L ppm | 60.25 % | .0011  | .0013  | .0003  |   |   |
| Ca3                                                          | 1.883  | ppm   | .6825 % | 1.889  | 1.892  | 1.868  |   |   |
| Cd1                                                          | .0020  | L ppm | 37.46 % | .0022  | .0027  | .0012  |   |   |
| Co1                                                          | .0325  | L ppm | 11.46 % | .0299  | .0368  | .0309  |   |   |
| Cr4                                                          | 1.064  | ppm   | 1.237 % | 1.066  | 1.076  | 1.050  |   |   |
| Cu1                                                          | 94.50  | ppm   | 1.813 % | 95.25  | 95.71  | 92.54  |   |   |
| Fe2                                                          | 486.8  | H ppm | .9390 % | 489.1  | 489.8  | 481.6  |   |   |
| K 1                                                          | .0570  | L ppm | 65.84 % | .0737  | .0833  | .0140  |   |   |
| Mg4                                                          | .3390  | L ppm | 3.935 % | .3499  | .3241  | .3432  |   |   |
| Mn1                                                          | 4.530  | ppm   | .9034 % | 4.546  | 4.561  | 4.484  |   |   |
| Na2                                                          | .2752  | L ppm | 17.30 % | .2518  | .2438  | .3300  |   |   |
| Ni3                                                          | 1.137  | ppm   | 1.035 % | 1.147  | 1.140  | 1.124  |   |   |
| Pb1                                                          | 3.640  | ppm   | .3628 % | 3.655  | 3.635  | 3.630  |   |   |
| Se 1                                                         | .0587  | L ppm | 22.87 % | .0432  | .0673  | .0656  |   |   |
| Sn 4                                                         | -.0040 | L ppm | -739.2% | -.0368 | .0219  | .0028  |   |   |
| Tl1                                                          | .0552  | L ppm | 45.63 % | .0500  | .0825  | .0330  |   |   |
| V 2                                                          | .0415  | L ppm | 8.771 % | .0457  | .0401  | .0389  |   |   |
| Zn3                                                          | 10.08  | ppm   | .1153 % | 10.08  | 10.09  | 10.07  |   |   |

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| Line                                                        | Conc.  | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|----------|--------|--------|--------|---|---|
| *** Sample ID: 000005 13-1 Seq: 59 14:37:26 13 May 1999 ICP |        |       |          |        |        |        |   |   |
| Ag1                                                         | -.0006 | L ppm | -395.0%  | -.0027 | -.0009 | .0018  |   |   |
| Al3                                                         | -.0125 | L ppm | -101.4%  | -.0211 | .0020  | -.0184 |   |   |
| As2                                                         | -.0016 | L ppm | -1129.7% | -.0205 | .0008  | .0150  |   |   |
| Ba1                                                         | -.0006 | L ppm | -28.88%  | -.0007 | -.0007 | -.0004 |   |   |
| Be2                                                         | .0010  | L ppm | 26.64 %  | .0011  | .0007  | .0013  |   |   |
| Ca3                                                         | -.0021 | L ppm | -66.00%  | -.0025 | -.0006 | -.0033 |   |   |
| Cd1                                                         | .0010  | L ppm | 32.82 %  | .0008  | .0008  | .0014  |   |   |
| Co1                                                         | -.0038 | L ppm | -57.12%  | -.0029 | -.0022 | -.0062 |   |   |
| Cr4                                                         | .0003  | L ppm | 445.4 %  | -.0001 | .0017  | -.0008 |   |   |
| Cu1                                                         | .3011  | ppm   | 4.016 %  | .3142  | .2990  | .2903  |   |   |
| Fe2                                                         | .2233  | ppm   | 2.103 %  | .2214  | .2286  | .2198  |   |   |
| K 1                                                         | -.2260 | L ppm | -89.08%  | -.3460 | -.3384 | .0064  |   |   |
| Mg4                                                         | -.0021 | L ppm | -822.4%  | -.0179 | .0157  | -.0040 |   |   |
| Mn1                                                         | .0004  | L ppm | 132.8 %  | .0000  | .0001  | .0009  |   |   |
| Na2                                                         | .0959  | L ppm | 28.94 %  | .0834  | .1276  | .0766  |   |   |
| Ni3                                                         | -.0033 | L ppm | -194.9%  | -.0021 | .0025  | -.0104 |   |   |
| Pb1                                                         | .0081  | L ppm | 98.86 %  | .0168  | .0008  | .0068  |   |   |
| P 1                                                         | -.0132 | L ppm | -134.5%  | -.0074 | .0009  | -.0331 |   |   |
| S 1                                                         | .0237  | L ppm | 5.991 %  | .0234  | .0252  | .0224  |   |   |
| Tl1                                                         | .0539  | L ppm | 19.89 %  | .0621  | .0579  | .0418  |   |   |
| V 2                                                         | .0010  | L ppm | 319.3 %  | .0023  | .0034  | -.0026 |   |   |
| Zn3                                                         | 1.620  | ppm   | 1.962 %  | 1.620  | 1.652  | 1.588  |   |   |

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| Line               | Conc. | Units | SD/RSD  | 1       | 2     | 3     | 4                        | 5 |
|--------------------|-------|-------|---------|---------|-------|-------|--------------------------|---|
| *** Sample ID: CCV |       |       |         |         |       |       |                          |   |
|                    |       |       | 13-1    | Seq: 60 |       |       | 14:40:49 13 May 1999 ICP |   |
| Ag1                | .4819 | ppm   | 1.061 % | .4768   | .4870 | .4818 |                          |   |
| Al3                | 9.592 | ppm   | .8374 % | 9.500   | 9.639 | 9.639 |                          |   |
| As2                | 1.897 | ppm   | 2.687 % | 1.884   | 1.953 | 1.853 |                          |   |
| Ba1                | 9.048 | ppm   | 1.180 % | 8.951   | 9.031 | 9.162 |                          |   |
| Be2                | .2363 | ppm   | .7032 % | .2344   | .2374 | .2370 |                          |   |
| Ca3                | 48.93 | ppm   | .6848 % | 48.87   | 49.29 | 48.63 |                          |   |
| Cd1                | .9956 | ppm   | 1.030 % | .9953   | 1.006 | .9855 |                          |   |
| Co1                | 2.547 | ppm   | .7631 % | 2.535   | 2.569 | 2.537 |                          |   |
| Cr4                | .4792 | ppm   | 1.197 % | .4765   | .4858 | .4753 |                          |   |
| Cu1                | 1.362 | ppm   | .5822 % | 1.353   | 1.365 | 1.368 |                          |   |
| Fe2                | 5.100 | ppm   | .7609 % | 5.060   | 5.138 | 5.101 |                          |   |
| K 1                | 48.19 | ppm   | 1.064 % | 47.74   | 48.09 | 48.75 |                          |   |
| Mg4                | 49.01 | ppm   | .9138 % | 48.90   | 49.50 | 48.62 |                          |   |
| Mn1                | .7275 | ppm   | .5127 % | .7244   | .7316 | .7264 |                          |   |
| Na2                | 50.02 | ppm   | .9406 % | 49.50   | 50.17 | 50.41 |                          |   |
| Ni3                | 1.941 | ppm   | .1413 % | 1.942   | 1.943 | 1.938 |                          |   |
| Pb1                | .9755 | ppm   | 2.195 % | .9809   | .9936 | .9519 |                          |   |
| S 1                | 5.619 | ppm   | .7273 % | 5.602   | 5.666 | 5.590 |                          |   |
| S 2                | .9603 | ppm   | 5.136 % | .9037   | .9834 | .9939 |                          |   |
| Tl1                | 1.966 | ppm   | 1.198 % | 1.983   | 1.974 | 1.939 |                          |   |
| V 2                | 2.501 | ppm   | .8046 % | 2.478   | 2.516 | 2.510 |                          |   |
| Zn3                | 2.227 | ppm   | 3.002 % | 2.262   | 2.269 | 2.150 |                          |   |

0222

IS PS3000  
14:44:12 13 May 1999

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| Line                                                                                                                    | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: CCB                      13-1                      Seq: 61                      14:44:12 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                                                                                     | .0033  | L ppm | 47.92 % | .0034  | .0017  | .0049  |   |   |
| Al3                                                                                                                     | -.0063 | L ppm | -53.37% | -.0062 | -.0096 | -.0030 |   |   |
| As2                                                                                                                     | .0083  | L ppm | 54.17 % | .0130  | .0042  | .0076  |   |   |
| Ba1                                                                                                                     | -.0006 | L ppm | -29.11% | -.0007 | -.0006 | -.0004 |   |   |
| Be2                                                                                                                     | .0010  | L ppm | 52.49 % | .0005  | .0015  | .0009  |   |   |
| Ca3                                                                                                                     | -.0048 | L ppm | -83.82% | -.0085 | -.0052 | -.0006 |   |   |
| Cd1                                                                                                                     | .0015  | L ppm | 25.25 % | .0012  | .0019  | .0014  |   |   |
| Co1                                                                                                                     | -.0026 | L ppm | -52.94% | -.0041 | -.0024 | -.0014 |   |   |
| Cr4                                                                                                                     | -.0006 | L ppm | -147.0% | .0004  | -.0008 | -.0012 |   |   |
| Cu1                                                                                                                     | .1112  | ppm   | 4.454 % | .1119  | .1158  | .1060  |   |   |
| Fe2                                                                                                                     | .1593  | ppm   | 14.65 % | .1356  | .1823  | .1600  |   |   |
| K 1                                                                                                                     | .1268  | L ppm | 130.1 % | .0862  | .3082  | -.0140 |   |   |
| Mg4                                                                                                                     | -.0033 | L ppm | -108.0% | .0005  | -.0039 | -.0065 |   |   |
| Mn1                                                                                                                     | .0005  | L ppm | 77.79 % | .0002  | .0009  | .0004  |   |   |
| Na2                                                                                                                     | .1203  | L ppm | 11.97 % | .1364  | .1087  | .1157  |   |   |
| Ni3                                                                                                                     | -.0012 | L ppm | -240.3% | -.0020 | -.0035 | .0020  |   |   |
| Pb1                                                                                                                     | .0118  | L ppm | 83.79 % | .0004  | .0172  | .0178  |   |   |
| Se1                                                                                                                     | -.0028 | L ppm | -719.6% | .0050  | .0121  | -.0255 |   |   |
| Si4                                                                                                                     | .0643  | L ppm | 50.10 % | .0276  | .0779  | .0876  |   |   |
| Tl1                                                                                                                     | .0654  | L ppm | 61.05 % | .0272  | .0621  | .1068  |   |   |
| V 2                                                                                                                     | .0029  | L ppm | 201.4 % | -.0038 | .0053  | .0072  |   |   |
| Zn3                                                                                                                     | .8425  | ppm   | 4.244 % | .8777  | .8437  | .8062  |   |   |

0223

IS PS3000  
14:47:35 13 May 1999

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| Line                                                      | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-----------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: CRIF 13-1 Seq: 63 14:47:35 13 May 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                       | .0240  | ppm   | 6.922 % | .0242  | .0256  | .0223  |   |   |
| Al3                                                       | .0100  | L ppm | 92.07 % | .0004  | .0187  | .0108  |   |   |
| As2                                                       | .0310  | L ppm | 72.01 % | .0065  | .0503  | .0364  |   |   |
| Ba1                                                       | .0000  | L ppm | 654.0 % | .0000  | .0002  | -.0001 |   |   |
| Be2                                                       | .0107  | ppm   | 9.439 % | .0119  | .0104  | .0099  |   |   |
| Ca3                                                       | .0210  | L ppm | 20.06 % | .0167  | .0252  | .0213  |   |   |
| Cd1                                                       | .0132  | ppm   | 5.236 % | .0129  | .0140  | .0127  |   |   |
| Co1                                                       | .1084  | ppm   | 3.397 % | .1045  | .1118  | .1088  |   |   |
| Cr4                                                       | .0213  | ppm   | 4.350 % | .0204  | .0222  | .0213  |   |   |
| Cu1                                                       | .1148  | ppm   | 3.975 % | .1180  | .1169  | .1096  |   |   |
| Fe2                                                       | .1229  | ppm   | 9.470 % | .1135  | .1359  | .1192  |   |   |
| K 1                                                       | -.0011 | L ppm | -6687.% | .0258  | -.0863 | .0571  |   |   |
| Mg4                                                       | .0050  | L ppm | 722.8 % | -.0361 | .0322  | .0190  |   |   |
| Mn1                                                       | .0373  | ppm   | 2.261 % | .0374  | .0382  | .0365  |   |   |
| Na2                                                       | .1894  | L ppm | 62.05 % | .1098  | .3243  | .1339  |   |   |
| Ni3                                                       | .0801  | ppm   | 4.306 % | .0774  | .0840  | .0789  |   |   |
| Pb1                                                       | .1371  | ppm   | 9.228 % | .1454  | .1225  | .1433  |   |   |
| Si 1                                                      | .0892  | L ppm | 26.68 % | .0848  | .0679  | .1149  |   |   |
| S 4                                                       | .0634  | L ppm | 47.90 % | .0749  | .0862  | .0289  |   |   |
| Tl1                                                       | .0792  | L ppm | 50.14 % | .0333  | .1021  | .1021  |   |   |
| V 2                                                       | .1085  | ppm   | 2.941 % | .1115  | .1088  | .1052  |   |   |
| Zn3                                                       | .5684  | ppm   | 2.350 % | .5766  | .5755  | .5529  |   |   |

C224

IS P53000  
14:50:59 13 May 1999

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Protocol: CLP-SM

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| Line                                                       | Conc.  | Units | SD/RSD   | 1      | 2      | 3      | 4 | 5 |
|------------------------------------------------------------|--------|-------|----------|--------|--------|--------|---|---|
| *** Sample ID: ICSAF 13-1 Seq: 64 14:50:59 13 May 1999 ICP |        |       |          |        |        |        |   |   |
| Ag1                                                        | -.0003 | L ppm | -1053. % | .0034  | -.0025 | -.0018 |   |   |
| Al3                                                        | 450.4  | ppm   | .5509 %  | 453.1  | 448.3  | 449.9  |   |   |
| As2                                                        | -.2541 | L ppm | -9.459 % | -.2268 | -.2634 | -.2721 |   |   |
| Ba1                                                        | -.0005 | L ppm | -33.89 % | -.0004 | -.0007 | -.0004 |   |   |
| Be2                                                        | .0015  | L ppm | 21.84 %  | .0011  | .0017  | .0016  |   |   |
| Ca3                                                        | 469.7  | ppm   | .3680 %  | 471.5  | 468.0  | 469.7  |   |   |
| Cd1                                                        | .0009  | L ppm | 174.1 %  | .0025  | -.0006 | .0007  |   |   |
| Co1                                                        | -.0024 | L ppm | -154.6 % | .0019  | -.0040 | -.0052 |   |   |
| Cr4                                                        | .0022  | L ppm | 75.87 %  | .0038  | .0005  | .0023  |   |   |
| Cu1                                                        | .0424  | ppm   | 3.086 %  | .0428  | .0434  | .0409  |   |   |
| Fe2                                                        | 169.0  | ppm   | .4945 %  | 169.9  | 168.3  | 168.7  |   |   |
| K 1                                                        | -.1324 | L ppm | -129.8 % | -.3308 | -.0405 | -.0260 |   |   |
| Mg4                                                        | 490.9  | ppm   | .4131 %  | 493.1  | 489.2  | 490.2  |   |   |
| Mn1                                                        | -.0057 | L ppm | -9.536 % | -.0052 | -.0056 | -.0063 |   |   |
| Na2                                                        | .3235  | L ppm | 16.28 %  | .2998  | .2869  | .3839  |   |   |
| Ni3                                                        | .0015  | L ppm | 85.89 %  | .0018  | .0001  | .0025  |   |   |
| Pb1                                                        | -.0358 | L ppm | -82.22 % | -.0264 | -.0688 | -.0123 |   |   |
| Cr 1                                                       | .0511  | L ppm | 104.3 %  | .1050  | -.0015 | .0498  |   |   |
| Cu4                                                        | .0802  | L ppm | 77.70 %  | .0701  | .0236  | .1470  |   |   |
| Tl1                                                        | -.0240 | L ppm | -42.60 % | -.0150 | -.0351 | -.0218 |   |   |
| V 2                                                        | -.0004 | L ppm | -1490. % | .0028  | -.0066 | .0027  |   |   |
| Zn3                                                        | .2917  | ppm   | 3.782 %  | .3032  | .2906  | .2812  |   |   |

0225

IS PS3000  
14:57:49 13 May 1999

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| Line                                                     | Conc. | Units | SD/RSD  | 1     | 2     | 3     | 4 | 5 |
|----------------------------------------------------------|-------|-------|---------|-------|-------|-------|---|---|
| *** Sample ID: CCV 13-1 Seq: 67 14:57:49 13 May 1999 ICP |       |       |         |       |       |       |   |   |
| Ag1                                                      | .4864 | ppm   | .7990 % | .4905 | .4828 | .4860 |   |   |
| Al3                                                      | 9.758 | ppm   | .7208 % | 9.836 | 9.741 | 9.698 |   |   |
| As2                                                      | 1.910 | ppm   | .4903 % | 1.911 | 1.919 | 1.900 |   |   |
| Ba1                                                      | 9.275 | ppm   | .5878 % | 9.287 | 9.322 | 9.215 |   |   |
| Be2                                                      | .2388 | ppm   | .3558 % | .2395 | .2391 | .2379 |   |   |
| Ca3                                                      | 49.14 | ppm   | .4975 % | 49.42 | 48.97 | 49.02 |   |   |
| Cd1                                                      | .9842 | ppm   | .6341 % | .9887 | .9771 | .9868 |   |   |
| Co1                                                      | 2.536 | ppm   | .4610 % | 2.549 | 2.532 | 2.526 |   |   |
| Cr4                                                      | .4800 | ppm   | .6696 % | .4829 | .4765 | .4806 |   |   |
| Cu1                                                      | 1.210 | ppm   | .4511 % | 1.216 | 1.209 | 1.205 |   |   |
| Fe2                                                      | 4.991 | ppm   | .5817 % | 5.024 | 4.979 | 4.970 |   |   |
| K 1                                                      | 49.89 | ppm   | .8219 % | 50.01 | 50.23 | 49.44 |   |   |
| Mg4                                                      | 48.73 | ppm   | .6488 % | 49.04 | 48.41 | 48.73 |   |   |
| Mn1                                                      | .7285 | ppm   | .4796 % | .7325 | .7266 | .7263 |   |   |
| Na2                                                      | 51.43 | ppm   | .5322 % | 51.43 | 51.70 | 51.15 |   |   |
| Ni3                                                      | 1.938 | ppm   | .7025 % | 1.949 | 1.941 | 1.923 |   |   |
| Pb1                                                      | .9837 | ppm   | 1.479 % | .9999 | .9793 | .9718 |   |   |
| Se1                                                      | 5.624 | ppm   | .4843 % | 5.644 | 5.593 | 5.635 |   |   |
| Sn4                                                      | 1.004 | ppm   | 1.026 % | .9929 | 1.013 | 1.007 |   |   |
| Tl1                                                      | 1.978 | ppm   | 2.229 % | 2.023 | 1.977 | 1.935 |   |   |
| V 2                                                      | 2.543 | ppm   | .7918 % | 2.561 | 2.546 | 2.521 |   |   |
| Zn3                                                      | 1.092 | ppm   | 1.109 % | 1.106 | 1.082 | 1.088 |   |   |

0226

S PS3000  
15:01:14 13 May 1999

Folder: 05-13-99  
Protocol: CLP-SM

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| Line               | Conc.  | Units | SD/RSD  | 1       | 2                        | 3      | 4 | 5 |
|--------------------|--------|-------|---------|---------|--------------------------|--------|---|---|
| *** Sample ID: CCB |        |       |         |         |                          |        |   |   |
|                    |        |       | 13-1    | Seq: 68 | 15:01:14 13 May 1999 ICP |        |   |   |
| Ag1                | -.0012 | L ppm | -214.6% | -.0010  | -.0040                   | .0013  |   |   |
| Al3                | -.0037 | L ppm | -385.1% | .0129   | -.0112                   | -.0128 |   |   |
| As2                | .0045  | L ppm | 568.0 % | .0299   | -.0208                   | .0043  |   |   |
| Ba1                | -.0003 | L ppm | -59.85% | -.0005  | -.0003                   | -.0001 |   |   |
| Be2                | .0012  | L ppm | 26.02 % | .0010   | .0012                    | .0016  |   |   |
| Ca3                | .0014  | L ppm | 100.3 % | .0004   | .0008                    | .0030  |   |   |
| Cd1                | .0016  | L ppm | 16.35 % | .0013   | .0018                    | .0018  |   |   |
| Co1                | -.0048 | L ppm | -20.31% | -.0038  | -.0057                   | -.0047 |   |   |
| Cr4                | -.0000 | L ppm | -4330.% | .0018   | .0001                    | -.0020 |   |   |
| Cu1                | .0049  | L ppm | 31.35 % | .0058   | .0031                    | .0057  |   |   |
| Fe2                | .0394  | L ppm | 2.259 % | .0400   | .0384                    | .0397  |   |   |
| K 1                | .0621  | L ppm | 186.6 % | .1864   | -.0431                   | .0431  |   |   |
| Mg4                | .0229  | L ppm | 78.16 % | .0133   | .0119                    | .0436  |   |   |
| Mn1                | -.0007 | L ppm | -22.68% | -.0009  | -.0006                   | -.0006 |   |   |
| Na2                | .0748  | L ppm | 47.85 % | .1161   | .0541                    | .0542  |   |   |
| Ni3                | -.0025 | L ppm | -46.33% | -.0033  | -.0012                   | -.0031 |   |   |
| Pb1                | .0065  | L ppm | 53.46 % | .0029   | .0099                    | .0068  |   |   |
| C                  | -.0374 | L ppm | -44.97% | -.0265  | -.0568                   | -.0289 |   |   |
| Se4                | .0483  | L ppm | 48.20 % | .0226   | .0543                    | .0680  |   |   |
| Tl1                | .0727  | L ppm | 32.47 % | .0970   | .0499                    | .0711  |   |   |
| V 2                | .0088  | L ppm | 83.25 % | .0010   | .0098                    | .0156  |   |   |
| Zn3                | .0731  | ppm   | 4.116 % | .0751   | .0747                    | .0697  |   |   |

0227

# Metals Cover Page

Analyst: D Bond

Date: 4/21/99

Instrument: FLMS

File Name: APR-215

Reviewed By: DCB

Data Entered By: DCB

Manager Approval: [Signature]

| Starlims Run # | Analytes Used | Comments/<br>Problems |
|----------------|---------------|-----------------------|
| <u>37295</u> ✓ | <u>Hg.3</u>   |                       |
|                |               |                       |
|                |               |                       |
|                |               |                       |
|                |               |                       |

Submission #'s needing PKG 5 or ASP Report  
(Place check mark in space provided when copy of raw data is made.)

| Sub #               | Run<br>Copy | Stds |
|---------------------|-------------|------|
| <u>K45DEL 4-108</u> |             | ✓    |
|                     |             |      |
|                     |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

0220

Method Name: Hg\_10ppb  
 Method Description: Method 245.1A FIMS  
 Element: Hg

Date: 04/21/1999  
 Technique: FI-MHS  
 Calibration Type:  
 Hg, Zero Intercept: Linear  
 Wavelength: 253.7 nm  
 Sample Info Name: ROUTINE.SIF

Results Data Set Name: APR-21S

Element: Hg Seq. No.: 5 AS Loc.: 1 Date: 04/21/1999  
 Sample ID: Calib Blank

| Repl # | SampleConc µg/L | StndConc µg/L | BlkCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|---------------|----------------|-----------|-------------|----------|-------------|
| 1      |                 |               | 0.0002         | 0.0021    | 0.0002      | 01:04:51 | No          |
| 2      |                 |               | 0.0007         | 0.0035    | 0.0007      | 01:05:21 | No          |
| Mean:  |                 |               | 0.0005         |           |             |          |             |
| SD :   |                 |               | 0.0003         |           |             |          |             |
| %RSD:  |                 |               | 69.3834        |           |             |          |             |

Auto-zero performed.

Element: Hg Seq. No.: 6 AS Loc.: 2 Date: 04/21/1999  
 Sample ID: 0.5ppb std

| Repl # | SampleConc µg/L | StndConc µg/L | BlkCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|---------------|----------------|-----------|-------------|----------|-------------|
| 1      |                 |               | 0.0042         | 0.0363    | 0.0047      | 01:06:39 | No          |
| 2      |                 |               | 0.0034         | 0.0272    | 0.0038      | 01:07:09 | No          |
| Mean:  |                 |               | 0.0038         |           |             |          |             |
| SD :   |                 |               | 0.0006         |           |             |          |             |
| %RSD:  |                 |               | 15.7760        |           |             |          |             |

[Hg] Standard number 1 applied. [0.5000]  
 Correlation Coefficient: 1.00000 Slope: 0.00756

Element: Hg Seq. No.: 7 AS Loc.: 3 Date: 04/21/1999  
 Sample ID: 1ppb std

| Repl # | SampleConc µg/L | StndConc µg/L | BlkCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|---------------|----------------|-----------|-------------|----------|-------------|
| 1      |                 |               | 0.0080         | 0.0655    | 0.0085      | 01:08:28 | No          |
| 2      |                 |               | 0.0070         | 0.0527    | 0.0075      | 01:08:58 | No          |
| Mean:  |                 |               | 0.0075         |           |             |          |             |
| SD :   |                 |               | 0.0008         |           |             |          |             |
| %RSD:  |                 |               | 10.0036        |           |             |          |             |

[Hg] Standard number 2 applied. [1.000]  
 Correlation Coefficient: 0.99994 Slope: 0.00751

Element: Hg Seq. No.: 8 AS Loc.: 4 Date: 04/21/1999  
 Sample ID: 2ppb std

| Repl # | SampleConc µg/L | StndConc µg/L | BlkCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|---------------|----------------|-----------|-------------|----------|-------------|
| 1      |                 |               | 0.0149         | 0.1102    | 0.0154      | 01:10:18 | No          |
| 2      |                 |               | 0.0141         | 0.1034    | 0.0146      | 01:10:48 | No          |
| Mean:  |                 |               | 0.0145         |           |             |          |             |
| SD :   |                 |               | 0.0006         |           |             |          |             |
| %RSD:  |                 |               | 3.8289         |           |             |          |             |

[Hg] Standard number 3 applied. [2.000]

0229

Correlation Coefficient: 0.99954

Slope: 0.00733

=====

Element: Hg Seq. No.: 9 AS Loc.: 5 Date: 04/21/1999

Sample ID: 5ppb std

-----

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0365             | 0.2557       | 0.0369         | 01:12:10 | No             |
| 2      |                    |                  | 0.0361             | 0.2547       | 0.0366         | 01:12:40 | No             |
| Mean:  |                    |                  | 0.0363             |              |                |          |                |
| SD :   |                    |                  | 0.0002             |              |                |          |                |
| %RSD:  |                    |                  | 0.6131             |              |                |          |                |

[Hg] Standard number 4 applied. [5.000]

Correlation Coefficient: 0.99994 Slope: 0.00727

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=====

Element: Hg Seq. No.: 10 AS Loc.: 6 Date: 04/21/1999

Sample ID: 10ppb std

-----

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0732             | 0.5139       | 0.0737         | 01:14:02 | No             |
| 2      |                    |                  | 0.0726             | 0.5110       | 0.0730         | 01:14:32 | No             |
| Mean:  |                    |                  | 0.0729             |              |                |          |                |
| SD :   |                    |                  | 0.0004             |              |                |          |                |
| %RSD:  |                    |                  | 0.6012             |              |                |          |                |

[Hg] Standard number 5 applied. [10.00]

Correlation Coefficient: 0.99999 Slope: 0.00728

-----

## Calibration data for Hg

| Standard ID | Mean Signal<br>(Pk Height) | Entered<br>Concentration<br>(µg/L) | Calculated<br>Concentration<br>(µg/L) | Standard<br>Deviation | %RSD |
|-------------|----------------------------|------------------------------------|---------------------------------------|-----------------------|------|
| Calib Blank | 0.0005                     | ----                               | ----                                  | ----                  | ---- |
| 0.5ppb std  | 0.0038                     | 0.5000                             | 0.5190                                | 0.00060               | 15.8 |
| 1ppb std    | 0.0075                     | 1.0000                             | 1.030                                 | 0.00075               | 10.0 |
| 2ppb std    | 0.0145                     | 2.0000                             | 1.995                                 | 0.00056               | 3.8  |
| 5ppb std    | 0.0363                     | 5.0000                             | 4.984                                 | 0.00022               | 0.6  |
| 10ppb std   | 0.0729                     | 10.0000                            | 10.00                                 | 0.00044               | 0.6  |
| Calib Blank | 0.0005                     | ----                               | ----                                  | ----                  | ---- |

Correlation Coefficient: 0.99999 Slope: 0.00728

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=====

Element: Hg Seq. No.: 11 AS Loc.: 7 Date: 04/21/1999

Sample ID: ICV

-----

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 2.915              | 2.915            | 0.0212             | 0.1546       | 0.0217         | 01:15:55 | No             |
| 2      | 2.724              | 2.724            | 0.0198             | 0.1385       | 0.0203         | 01:16:25 | No             |
| Mean:  | 2.819              | 2.819            | 0.0205             |              |                |          |                |
| SD :   | 0.1353             | 0.1353           | 0.0010             |              |                |          |                |
| %RSD:  | 4.8                | 4.8              | 4.7981             |              |                |          |                |

QC value within specified limits.

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=====

Element: Hg Seq. No.: 12 AS Loc.: 1 Date: 04/21/1999

Sample ID: ICB

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0560            | -0.0560          | -0.0004            | 0.0005       | 0.0001         | 01:17:45 | No             |

2        -0.0579    -0.0579    -0.0004    0.0006    0.0001    01:18:15    No  
 Mean:    -0.0569    -0.0569    -0.0004  
 SD :      0.00137    0.00137    0.0000  
 %RSD:      2.4        2.4        2.3995  
 QC value within specified limits.

=====

Element: Hg        Seq. No.: 13        AS Loc.: 8        Date: 04/21/1999  
 Sample ID: CRII

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.3244             | 0.3244          | 0.0024            | 0.0201       | 0.0029         | 01:19:35 | No             |
| 2      | 0.3412             | 0.3412          | 0.0025            | 0.0207       | 0.0030         | 01:20:04 | No             |
| Mean:  | 0.3328             | 0.3328          | 0.0024            |              |                |          |                |
| SD :   | 0.01188            | 0.01188         | 0.0001            |              |                |          |                |
| %RSD:  | 3.6                | 3.6             | 3.5696            |              |                |          |                |

QC value within specified limits.

=====

Element: Hg        Seq. No.: 14        AS Loc.: 7        Date: 04/21/1999  
 Sample ID: CCV

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 2.894              | 2.894           | 0.0211            | 0.1547       | 0.0216         | 01:21:27 | No             |
| 2      | 2.817              | 2.817           | 0.0205            | 0.1454       | 0.0210         | 01:21:57 | No             |
| Mean:  | 2.855              | 2.855           | 0.0208            |              |                |          |                |
| SD :   | 0.05478            | 0.05478         | 0.0004            |              |                |          |                |
| %RSD:  | 1.9                | 1.9             | 1.9184            |              |                |          |                |

QC value within specified limits.

=====

Element: Hg        Seq. No.: 15        AS Loc.: 1        Date: 04/21/1999  
 Sample ID: CCB

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0593            | -0.0593         | -0.0004           | 0.0001       | 0.0001         | 01:23:17 | No             |
| 2      | -0.0500            | -0.0500         | -0.0004           | 0.0009       | 0.0001         | 01:23:47 | No             |
| Mean:  | -0.0546            | -0.0546         | -0.0004           |              |                |          |                |
| SD :   | 0.00655            | 0.00655         | 0.0000            |              |                |          |                |
| %RSD:  | 12.0               | 12.0            | 11.9823           |              |                |          |                |

QC value within specified limits.

=====

Element: Hg        Seq. No.: 16        AS Loc.: 9        Date: 04/21/1999  
 Sample ID: PBS 4/21    286347    0.60

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0632            | -0.0632         | -0.0005           | -0.0001      | 0.0000         | 01:25:04 | No             |
| 2      | -0.0597            | -0.0597         | -0.0004           | 0.0004       | 0.0001         | 01:25:34 | No             |
| Mean:  | -0.0615            | -0.0615         | -0.0004           |              |                |          |                |
| SD :   | 0.00250            | 0.00250         | 0.0000            |              |                |          |                |
| %RSD:  | 4.1                | 4.1             | 4.0617            |              |                |          |                |

=====

Element: Hg        Seq. No.: 17        AS Loc.: 10        Date: 04/21/1999  
 Sample ID: LCSS    286349    0.60

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 8.260              | 8.260           | 0.0602            | 0.4318       | 0.0606         | 01:26:51 | No             |
| 2      | 8.149              | 8.149           | 0.0593            | 0.4310       | 0.0598         | 01:27:21 | No             |

Mean: 8.205 8.205 0.0598  
 SD : 0.07842 0.07842 0.0006  
 %RSD: 1.0 1.0 0.9559

=====  
 Element: Hg Seq. No.: 18 AS Loc.: 11 Date: 04/21/1999  
 Sample ID: 285610 0.67

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0242            | -0.0242           | -0.0002            | 0.0021       | 0.0003         | 01:28:39 | No             |
| 2      | -0.0287            | -0.0287           | -0.0002            | 0.0017       | 0.0003         | 01:29:09 | No             |
| Mean:  | -0.0265            | -0.0265           | -0.0002            |              |                |          |                |
| SD :   | 0.00318            | 0.00318           | 0.0000             |              |                |          |                |
| %RSD:  | 12.0               | 12.0              | 12.0045            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 19 AS Loc.: 12 Date: 04/21/1999  
 Sample ID: 285611 0.60

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0165            | -0.0165           | -0.0001            | 0.0025       | 0.0004         | 01:30:28 | No             |
| 2      | -0.0184            | -0.0184           | -0.0001            | 0.0025       | 0.0004         | 01:30:58 | No             |
| Mean:  | -0.0175            | -0.0175           | -0.0001            |              |                |          |                |
| SD :   | 0.00135            | 0.00135           | 0.0000             |              |                |          |                |
| %RSD:  | 7.7                | 7.7               | 7.7369             |              |                |          |                |

=====  
 Element: Hg Seq. No.: 20 AS Loc.: 13 Date: 04/21/1999  
 Sample ID: 285611D 286342 0.64

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0300            | -0.0300           | -0.0002            | 0.0016       | 0.0003         | 01:32:19 | No             |
| 2      | -0.0270            | -0.0270           | -0.0002            | 0.0018       | 0.0003         | 01:32:49 | No             |
| Mean:  | -0.0285            | -0.0285           | -0.0002            |              |                |          |                |
| SD :   | 0.00207            | 0.00207           | 0.0000             |              |                |          |                |
| %RSD:  | 7.3                | 7.3               | 7.2801             |              |                |          |                |

=====  
 Element: Hg Seq. No.: 21 AS Loc.: 14 Date: 04/21/1999  
 Sample ID: 285611S 286343 0.60

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.9734             | 0.9734            | 0.0071             | 0.0538       | 0.0076         | 01:34:10 | No             |
| 2      | 0.9806             | 0.9806            | 0.0071             | 0.0542       | 0.0076         | 01:34:40 | No             |
| Mean:  | 0.9770             | 0.9770            | 0.0071             |              |                |          |                |
| SD :   | 0.00509            | 0.00509           | 0.0000             |              |                |          |                |
| %RSD:  | 0.5                | 0.5               | 0.5213             |              |                |          |                |

=====  
 Element: Hg Seq. No.: 22 AS Loc.: 15 Date: 04/21/1999  
 Sample ID: 285612 0.63

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0238            | -0.0238           | -0.0002            | 0.0024       | 0.0003         | 01:36:03 | No             |
| 2      | -0.0757            | -0.0757           | -0.0006            | -0.0060      | -0.0001        | 01:36:33 | No             |
| Mean:  | -0.0497            | -0.0497           | -0.0004            |              |                |          |                |
| SD :   | 0.03667            | 0.03667           | 0.0003             |              |                |          |                |
| %RSD:  | 73.8               | 73.8              | 73.7524            |              |                |          |                |

0232

Element: Hg Seq. No.: 23 AS Loc.: 16 Date: 04/21/1999  
 Sample ID: 285613 0.64

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0664            | -0.0664           | -0.0005            | -0.0073      | 0.0000         | 01:37:56 | No             |
| 2      | -0.0105            | -0.0105           | -0.0001            | 0.0015       | 0.0004         | 01:38:26 | No             |
| Mean:  | -0.0385            | -0.0385           | -0.0003            |              |                |          |                |
| SD :   | 0.03954            | 0.03954           | 0.0003             |              |                |          |                |
| %RSD:  | 102.8              | 102.8             | 102.7645           |              |                |          |                |

Element: Hg Seq. No.: 24 AS Loc.: 17 Date: 04/21/1999  
 Sample ID: 285615 0.63

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0085            | -0.0085           | -0.0001            | 0.0031       | 0.0004         | 01:39:46 | No             |
| 2      | 0.0011             | 0.0011            | 0.0000             | 0.0038       | 0.0005         | 01:40:16 | No             |
| Mean:  | -0.0037            | -0.0037           | 0.0000             |              |                |          |                |
| SD :   | 0.00673            | 0.00673           | 0.0000             |              |                |          |                |
| %RSD:  | 182.1              | 182.1             | 182.1153           |              |                |          |                |

Element: Hg Seq. No.: 25 AS Loc.: 18 Date: 04/21/1999  
 Sample ID: 285617 0.62

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0036             | 0.0036            | 0.0000             | 0.0039       | 0.0005         | 01:41:33 | No             |
| 2      | -0.0015            | -0.0015           | 0.0000             | 0.0033       | 0.0005         | 01:42:03 | No             |
| Mean:  | 0.0011             | 0.0011            | 0.0000             |              |                |          |                |
| SD :   | 0.00357            | 0.00357           | 0.0000             |              |                |          |                |
| %RSD:  | 337.0              | 337.0             | 337.0070           |              |                |          |                |

Element: Hg Seq. No.: 26 AS Loc.: 7 Date: 04/21/1999  
 Sample ID: CCV

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 2.905              | 2.905             | 0.0212             | 0.1555       | 0.0216         | 01:43:22 | No             |
| 2      | 2.876              | 2.876             | 0.0209             | 0.1540       | 0.0214         | 01:43:52 | No             |
| Mean:  | 2.890              | 2.890             | 0.0211             |              |                |          |                |
| SD :   | 0.02088            | 0.02088           | 0.0002             |              |                |          |                |
| %RSD:  | 0.7                | 0.7               | 0.7225             |              |                |          |                |

QC value within specified limits.

Element: Hg Seq. No.: 27 AS Loc.: 1 Date: 04/21/1999  
 Sample ID: CCB

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0660            | -0.0660           | -0.0005            | -0.0006      | 0.0000         | 01:45:12 | No             |
| 2      | -0.0645            | -0.0645           | -0.0005            | -0.0001      | 0.0000         | 01:45:42 | No             |
| Mean:  | -0.0653            | -0.0653           | -0.0005            |              |                |          |                |
| SD :   | 0.00107            | 0.00107           | 0.0000             |              |                |          |                |
| %RSD:  | 1.6                | 1.6               | 1.6416             |              |                |          |                |

QC value within specified limits.

Element: Hg Seq. No.: 28 AS Loc.: 19 Date: 04/21/1999  
 Sample ID: 283549 0.63

0203

0.63

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0522            | -0.0522           | -0.0004            | 0.0005       | 0.0001         | 01:46:59 | No             |
| 2      | -0.0496            | -0.0496           | -0.0004            | 0.0006       | 0.0001         | 01:47:29 | No             |
| Mean:  | -0.0509            | -0.0509           | -0.0004            |              |                |          |                |
| SD :   | 0.00185            | 0.00185           | 0.0000             |              |                |          |                |
| %RSD:  | 3.6                | 3.6               | 3.6358             |              |                |          |                |

=====  
 Element: Hg Seq. No.: 29 AS Loc.: 20 Date: 04/21/1999  
 Sample ID: 283550 0.65

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0321             | 0.0321            | 0.0002             | 0.0056       | 0.0007         | 01:48:46 | No             |
| 2      | 0.0293             | 0.0293            | 0.0002             | 0.0050       | 0.0007         | 01:49:16 | No             |
| Mean:  | 0.0307             | 0.0307            | 0.0002             |              |                |          |                |
| SD :   | 0.00200            | 0.00200           | 0.0000             |              |                |          |                |
| %RSD:  | 6.5                | 6.5               | 6.5005             |              |                |          |                |

=====  
 Element: Hg Seq. No.: 30 AS Loc.: 21 Date: 04/21/1999  
 Sample ID: 283551 0.69

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0296            | -0.0296           | -0.0002            | 0.0018       | 0.0003         | 01:50:32 | No             |
| 2      | -0.0190            | -0.0190           | -0.0001            | 0.0030       | 0.0003         | 01:51:01 | No             |
| Mean:  | -0.0243            | -0.0243           | -0.0002            |              |                |          |                |
| SD :   | 0.00751            | 0.00751           | 0.0001             |              |                |          |                |
| %RSD:  | 30.9               | 30.9              | 30.9131            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 31 AS Loc.: 22 Date: 04/21/1999  
 Sample ID: 283552

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.2252             | 0.2252            | 0.0016             | 0.0141       | 0.0021         | 01:52:20 | No             |
| 2      | -0.0629            | -0.0629           | -0.0005            | -0.0065      | 0.0000         | 01:52:50 | No             |
| Mean:  | 0.0812             | 0.0812            | 0.0006             |              |                |          |                |
| SD :   | 0.2038             | 0.2038            | 0.0015             |              |                |          |                |
| %RSD:  | 251.0              | 251.0             | 251.0229           |              |                |          |                |

See Feanalysis at end

=====  
 Element: Hg Seq. No.: 32 AS Loc.: 23 Date: 04/21/1999  
 Sample ID: 283553 0.61

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0169            | -0.0169           | -0.0001            | 0.0024       | 0.0004         | 01:54:09 | No             |
| 2      | -0.0579            | -0.0579           | -0.0004            | -0.0013      | 0.0001         | 01:54:39 | No             |
| Mean:  | -0.0374            | -0.0374           | -0.0003            |              |                |          |                |
| SD :   | 0.02902            | 0.02902           | 0.0002             |              |                |          |                |
| %RSD:  | 77.5               | 77.5              | 77.5431            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 33 AS Loc.: 24 Date: 04/21/1999  
 Sample ID: 283554 0.61

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0273            | -0.0273           | -0.0002            | 0.0014       | 0.0003         | 01:55:58 | No             |
| 2      | -0.0145            | -0.0145           | -0.0001            | 0.0026       | 0.0004         | 01:56:28 | No             |
| Mean:  | -0.0209            | -0.0209           | -0.0002            |              |                |          |                |

0234

SD : 0.00900 0.00900 0.0001  
 %RSD: 43.1 43.1 43.0637

=====  
 Element: Hg Seq. No.: 34 AS Loc.: 25 Date: 04/21/1999  
 Sample ID: 283555 0.60

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0686            | -0.0686           | -0.0005            | -0.0015      | 0.0000         | 01:57:48 | No             |
| 2      | -0.0615            | -0.0615           | -0.0004            | -0.0001      | 0.0000         | 01:58:18 | No             |
| Mean:  | -0.0650            | -0.0650           | -0.0005            |              |                |          |                |
| SD :   | 0.00504            | 0.00504           | 0.0000             |              |                |          |                |
| %RSD:  | 7.8                | 7.8               | 7.7579             |              |                |          |                |

=====  
 Element: Hg Seq. No.: 35 AS Loc.: 26 Date: 04/21/1999  
 Sample ID: 283556 0.65

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0871             | 0.0871            | 0.0006             | 0.0083       | 0.0011         | 01:59:38 | No             |
| 2      | 0.0838             | 0.0838            | 0.0006             | 0.0079       | 0.0011         | 02:00:08 | No             |
| Mean:  | 0.0855             | 0.0855            | 0.0006             |              |                |          |                |
| SD :   | 0.00234            | 0.00234           | 0.0000             |              |                |          |                |
| %RSD:  | 2.7                | 2.7               | 2.7332             |              |                |          |                |

=====  
 Element: Hg Seq. No.: 36 AS Loc.: 27 Date: 04/21/1999  
 Sample ID: 283557 0.61

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0808             | 0.0808            | 0.0006             | 0.0072       | 0.0011         | 02:01:28 | No             |
| 2      | 0.0938             | 0.0938            | 0.0007             | 0.0084       | 0.0012         | 02:01:58 | No             |
| Mean:  | 0.0873             | 0.0873            | 0.0006             |              |                |          |                |
| SD :   | 0.00922            | 0.00922           | 0.0001             |              |                |          |                |
| %RSD:  | 10.6               | 10.6              | 10.5649            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 37 AS Loc.: 28 Date: 04/21/1999  
 Sample ID: 283558 0.61

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0415             | 0.0415            | 0.0003             | 0.0054       | 0.0008         | 02:03:19 | No             |
| 2      | 0.0524             | 0.0524            | 0.0004             | 0.0064       | 0.0009         | 02:03:49 | No             |
| Mean:  | 0.0469             | 0.0469            | 0.0003             |              |                |          |                |
| SD :   | 0.00770            | 0.00770           | 0.0001             |              |                |          |                |
| %RSD:  | 16.4               | 16.4              | 16.4032            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 38 AS Loc.: 7 Date: 04/21/1999  
 Sample ID: CCV

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 2.825              | 2.825             | 0.0206             | 0.1535       | 0.0211         | 02:05:11 | No             |
| 2      | 2.810              | 2.810             | 0.0205             | 0.1535       | 0.0210         | 02:05:40 | No             |
| Mean:  | 2.817              | 2.817             | 0.0205             |              |                |          |                |
| SD :   | 0.01007            | 0.01007           | 0.0001             |              |                |          |                |
| %RSD:  | 0.4                | 0.4               | 0.3574             |              |                |          |                |

QC value within specified limits.

0235



| #     | µg/L    | µg/L    | Signal  | Area    | Height |          | Stored |
|-------|---------|---------|---------|---------|--------|----------|--------|
| 1     | -0.0636 | -0.0636 | -0.0005 | 0.0000  | 0.0000 | 02:16:09 | No     |
| 2     | -0.0646 | -0.0646 | -0.0005 | -0.0004 | 0.0000 | 02:16:39 | No     |
| Mean: | -0.0641 | -0.0641 | -0.0005 |         |        |          |        |
| SD :  | 0.00069 | 0.00069 | 0.0000  |         |        |          |        |
| %RSD: | 1.1     | 1.1     | 1.0800  |         |        |          |        |

=====

Element: Hg      Seq. No.: 45      AS Loc.: 34      Date: 04/21/1999

Sample ID: -

| Repl  | SampleConc | StdConc | BlkCorr | Peak    | Peak   | Time     | Peak   |
|-------|------------|---------|---------|---------|--------|----------|--------|
| #     | µg/L       | µg/L    | Signal  | Area    | Height |          | Stored |
| 1     | -0.0576    | -0.0576 | -0.0004 | 0.0005  | 0.0001 | 02:17:54 | No     |
| 2     | -0.0592    | -0.0592 | -0.0004 | -0.0001 | 0.0001 | 02:18:24 | No     |
| Mean: | -0.0584    | -0.0584 | -0.0004 |         |        |          |        |
| SD :  | 0.00109    | 0.00109 | 0.0000  |         |        |          |        |
| %RSD: | 1.9        | 1.9     | 1.8751  |         |        |          |        |

=====

Element: Hg      Seq. No.: 46      AS Loc.: 35      Date: 04/21/1999

Sample ID: -

| Repl  | SampleConc | StdConc | BlkCorr | Peak   | Peak   | Time     | Peak   |
|-------|------------|---------|---------|--------|--------|----------|--------|
| #     | µg/L       | µg/L    | Signal  | Area   | Height |          | Stored |
| 1     | -0.0514    | -0.0514 | -0.0004 | 0.0011 | 0.0001 | 02:19:40 | No     |
| 2     | -0.0622    | -0.0622 | -0.0005 | 0.0001 | 0.0000 | 02:20:10 | No     |
| Mean: | -0.0568    | -0.0568 | -0.0004 |        |        |          |        |
| SD :  | 0.00761    | 0.00761 | 0.0001  |        |        |          |        |
| %RSD: | 13.4       | 13.4    | 13.3854 |        |        |          |        |

=====

Element: Hg      Seq. No.: 47      AS Loc.: 7      Date: 04/21/1999

Sample ID: CCV

| Repl  | SampleConc | StdConc | BlkCorr | Peak   | Peak   | Time     | Peak   |
|-------|------------|---------|---------|--------|--------|----------|--------|
| #     | µg/L       | µg/L    | Signal  | Area   | Height |          | Stored |
| 1     | 2.853      | 2.853   | 0.0208  | 0.1551 | 0.0213 | 02:21:29 | No     |
| 2     | 2.845      | 2.845   | 0.0207  | 0.1545 | 0.0212 | 02:21:58 | No     |
| Mean: | 2.849      | 2.849   | 0.0208  |        |        |          |        |
| SD :  | 0.00593    | 0.00593 | 0.0000  |        |        |          |        |
| %RSD: | 0.2        | 0.2     | 0.2083  |        |        |          |        |

QC value within specified limits.

=====

Element: Hg      Seq. No.: 48      AS Loc.: 1      Date: 04/21/1999

Sample ID: CCB

| Repl  | SampleConc | StdConc | BlkCorr | Peak    | Peak   | Time     | Peak   |
|-------|------------|---------|---------|---------|--------|----------|--------|
| #     | µg/L       | µg/L    | Signal  | Area    | Height |          | Stored |
| 1     | -0.0674    | -0.0674 | -0.0005 | -0.0006 | 0.0000 | 02:23:18 | No     |
| 2     | -0.0627    | -0.0627 | -0.0005 | -0.0002 | 0.0000 | 02:23:48 | No     |
| Mean: | -0.0650    | -0.0650 | -0.0005 |         |        |          |        |
| SD :  | 0.00330    | 0.00330 | 0.0000  |         |        |          |        |
| %RSD: | 5.1        | 5.1     | 5.0732  |         |        |          |        |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 49 AS Loc.: 7 Date: 04/21/1999  
Sample ID: ICV  
=====

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 2.839              | 2.839           | 0.0207            | 0.1542       | 0.0212         | 02:36:35 | No             |
| 2      | 2.833              | 2.833           | 0.0206            | 0.1532       | 0.0211         | 02:37:05 | No             |
| Mean:  | 2.836              | 2.836           | 0.0207            |              |                |          |                |
| SD :   | 0.00425            | 0.00425         | 0.0000            |              |                |          |                |
| %RSD:  | 0.1                | 0.1             | 0.1497            |              |                |          |                |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 50 AS Loc.: 1 Date: 04/21/1999  
Sample ID: ICB  
=====

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0253            | -0.0253         | -0.0002           | -0.0004      | 0.0003         | 02:38:26 | No             |
| 2      | -0.0549            | -0.0549         | -0.0004           | 0.0004       | 0.0001         | 02:38:56 | No             |
| Mean:  | -0.0401            | -0.0401         | -0.0003           |              |                |          |                |
| SD :   | 0.02098            | 0.02098         | 0.0002            |              |                |          |                |
| %RSD:  | 52.3               | 52.3            | 52.3247           |              |                |          |                |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 51 AS Loc.: 8 Date: 04/21/1999  
Sample ID: CRII  
=====

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.3175             | 0.3175          | 0.0023            | 0.0202       | 0.0028         | 02:40:15 | No             |
| 2      | 0.3250             | 0.3250          | 0.0024            | 0.0208       | 0.0029         | 02:40:45 | No             |
| Mean:  | 0.3213             | 0.3213          | 0.0023            |              |                |          |                |
| SD :   | 0.00530            | 0.00530         | 0.0000            |              |                |          |                |
| %RSD:  | 1.6                | 1.6             | 1.6491            |              |                |          |                |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 52 AS Loc.: 7 Date: 04/21/1999  
Sample ID: CCV  
=====

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 2.826              | 2.826           | 0.0206            | 0.1522       | 0.0211         | 02:42:07 | No             |
| 2      | 2.813              | 2.813           | 0.0205            | 0.1534       | 0.0210         | 02:42:36 | No             |
| Mean:  | 2.820              | 2.820           | 0.0205            |              |                |          |                |
| SD :   | 0.00918            | 0.00918         | 0.0001            |              |                |          |                |
| %RSD:  | 0.3                | 0.3             | 0.3255            |              |                |          |                |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 53 AS Loc.: 1 Date: 04/21/1999  
Sample ID: CCB  
=====

| Repl # | SampleConc<br>µg/L | StdConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-----------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0530            | -0.0530         | -0.0004           | 0.0009       | 0.0001         | 02:43:56 | No             |
| 2      | -0.0646            | -0.0646         | -0.0005           | -0.0004      | 0.0000         | 02:44:26 | No             |
| Mean:  | -0.0588            | -0.0588         | -0.0004           |              |                |          |                |
| SD :   | 0.00825            | 0.00825         | 0.0001            |              |                |          |                |
| %RSD:  | 14.0               | 14.0            | 14.0297           |              |                |          |                |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 54 AS Loc.: 22 Date: 04/21/1999  
=====

Sample ID: 283552

0.61

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0524             | 0.0524           | 0.0004            | 0.0061       | 0.0009         | 02:45:44 | No             |
| 2      | 0.0566             | 0.0566           | 0.0004            | 0.0066       | 0.0009         | 02:46:14 | No             |
| Mean:  | 0.0545             | 0.0545           | 0.0004            |              |                |          |                |
| SD :   | 0.00297            | 0.00297          | 0.0000            |              |                |          |                |
| %RSD:  | 5.5                | 5.5              | 5.4523            |              |                |          |                |

=====

Element: Hg      Seq. No.: 55      AS Loc.: 7      Date: 04/21/1999

Sample ID: CCV

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 2.762              | 2.762            | 0.0201            | 0.1525       | 0.0206         | 02:47:34 | No             |
| 2      | 2.791              | 2.791            | 0.0203            | 0.1530       | 0.0208         | 02:48:04 | No             |
| Mean:  | 2.777              | 2.777            | 0.0202            |              |                |          |                |
| SD :   | 0.01988            | 0.01988          | 0.0001            |              |                |          |                |
| %RSD:  | 0.7                | 0.7              | 0.7162            |              |                |          |                |

QC value within specified limits.

=====

Element: Hg      Seq. No.: 56      AS Loc.: 1      Date: 04/21/1999

Sample ID: CCB

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0440            | -0.0440          | -0.0003           | 0.0015       | 0.0002         | 02:49:24 | No             |
| 2      | -0.0618            | -0.0618          | -0.0004           | 0.0000       | 0.0000         | 02:49:54 | No             |
| Mean:  | -0.0529            | -0.0529          | -0.0004           |              |                |          |                |
| SD :   | 0.01252            | 0.01252          | 0.0001            |              |                |          |                |
| %RSD:  | 23.7               | 23.7             | 23.6646           |              |                |          |                |

QC value within specified limits.

0239

CAS - R. J. HESTER ICP soils digest log  
method SW846 3050 (CLP soils) (S)

DATE: 4/14/99  
TECH: DCS/DM

CLP spike witness:                       
Approved by:                     

| client/order #        | weight (gms) | init. color/texture  | final vol (mls) | final color/clarity | metals requested | comments      |
|-----------------------|--------------|----------------------|-----------------|---------------------|------------------|---------------|
| 1 PAS                 | 1.00         | colorless/clear      | 200             | colorless/clear     | TAL              |               |
| 2 LCSS                | 1.01         | brown/fine           |                 | ↓                   |                  | ERA #239      |
| 3 N45DEC(4108) 383549 | 1.05         | black/fine           |                 | yellow/clear        |                  |               |
| 4 S50                 | 1.02         | ↓                    |                 | colorless/clear     |                  |               |
| 5 S51                 | 1.02         | yellow/medium        |                 | green/clear         |                  |               |
| 6 S52                 | 1.05         | black/fine           |                 | yellow/clear        |                  |               |
| 7 S53                 | 1.05         | grey/fine            |                 | green/clear         |                  |               |
| 8 S54                 | 1.02         | yellow/fine          |                 | colorless/clear     |                  |               |
| 9 S55                 | 1.07         | grey/coarse shavings |                 | ↓                   |                  |               |
| 10 S56                | 1.00         | black/fine           |                 | green/clear         |                  |               |
| 11 S57                | 1.08         | ↓                    |                 | ↓                   |                  |               |
| 12 S58                | 1.04         | ↓                    |                 | ↓                   |                  |               |
| 13 S59                | 1.02         | ↓                    |                 | ↓                   |                  |               |
| 14 S60                | 1.12         | brown/fine           |                 | yellow/clear        |                  |               |
| 15 S602UP             | 1.05         | ↓                    |                 | ↓                   |                  |               |
| 16 S605PL             | 1.12         | ↓                    |                 | ↓                   |                  | 2.0ml SPK A,B |
| 17 S605PL             | 1.11         | ↓                    |                 | ↓                   |                  | 2.0ml SPK #4  |
| 18                    |              |                      |                 |                     |                  |               |
| 19                    |              |                      |                 |                     |                  |               |
| 20                    |              |                      |                 |                     |                  |               |
| 21                    |              |                      |                 |                     |                  |               |
| 22                    |              |                      |                 |                     |                  |               |
| 23                    |              |                      |                 |                     |                  |               |
| 24                    |              |                      |                 |                     |                  |               |

spikes used: Spike 1 (date:                     ) Spike 2 (date:                     ) Spike 3 (date:                     ) Spike 4 (date:                     ) Spike 6 (date:                     )  
HNO3 lot # N64025 HCL lot # M50036 H2O2 lot # 38324902 SPK A,B CFI 9CB208

# Columbia Analytical Services

Analysis For: Hg  
 Bath Temp: 95/95  
 Time In: 1105  
 Time Out: 1135

EPA Method: 7470 (7471) 245.1/245.5

Analyst: DCB  
 Prep Date: 4/21/99  
 Run Date: 4/21/99

| Client / Submission # | Sample Number       | Initial Wgt/Volume (g/ml) | Final Volume (ml) | Client / Submission # | Sample Number | Initial Wgt/Volume (g/ml) | Final Volume (ml) |
|-----------------------|---------------------|---------------------------|-------------------|-----------------------|---------------|---------------------------|-------------------|
| 1                     | Std                 |                           | 100               | 31                    |               |                           |                   |
| 2                     | ICB/CCB             |                           |                   | 32                    |               |                           |                   |
| 3                     | PBS                 | 0.60                      |                   | 33                    |               |                           |                   |
| 4                     | LCS                 | 0.60                      |                   | 34                    |               |                           |                   |
| 5                     | 4-217 385610        | 0.67                      |                   | 35                    |               |                           |                   |
| 6                     | 611                 | 0.60                      |                   | 36                    |               |                           |                   |
| 7                     | 611 Dup             | 0.64                      |                   | 37                    |               |                           |                   |
| 8                     | 611 SPK             | 0.60                      |                   | 38                    |               |                           |                   |
| 9                     | 612                 | 0.63                      |                   | 39                    |               |                           |                   |
| 10                    | 613                 | 0.64                      |                   | 40                    |               |                           |                   |
| 11                    | 615                 | 0.63                      |                   | 41                    |               |                           |                   |
| 12                    | 617                 | 0.62                      |                   | 42                    |               |                           |                   |
| 13                    | NYSDEC 4-109 283549 | 0.63                      |                   | 43                    |               |                           |                   |
| 14                    | 550                 | 0.65                      |                   | 44                    |               |                           |                   |
| 15                    | 551                 | 0.69                      |                   | 45                    |               |                           |                   |
| 16                    | 552                 | 0.61                      |                   | 46                    |               |                           |                   |
| 17                    | 553                 | 0.61                      |                   | 47                    |               |                           |                   |
| 18                    | 554                 | 0.61                      |                   | 48                    |               |                           |                   |
| 19                    | 555                 | 0.60                      |                   | 49                    |               |                           |                   |
| 20                    | 556                 | 0.65                      |                   | 50                    |               |                           |                   |
| 21                    | 557                 | 0.61                      |                   | 51                    |               |                           |                   |
| 22                    | 558                 | 0.61                      |                   | 52                    |               |                           |                   |
| 23                    | 559                 | 0.62                      |                   |                       | Std 0.5*      | 0.50ml of 0.1ppm          | 100               |
| 24                    | 560                 | 0.64                      |                   |                       | Std 1.0*      | 1.00ml of 0.1ppm          | 100               |
| 25                    | 560 Dup             | 0.64                      |                   |                       | Std 2.0*      | 2.00ml of 0.1ppm          | 100               |
| 26                    | 560 SPK             | 0.67                      |                   |                       | Std 5.0*      | 5.00ml of 0.1ppm          | 100               |
| 27                    |                     |                           |                   |                       | Std 10.0*     | 10.0ml of 0.1ppm          | 100               |
| 28                    |                     |                           |                   |                       | ICV/CCV**     | 3.00ml of 0.1ppm          | 100               |
| 29                    |                     |                           |                   |                       | LCSW/MS*      | 1.00ml of 0.1ppm          | 100               |
| 30                    |                     |                           |                   |                       | CRDL*         | 0.40ml of 0.1ppm          | 100               |

## Lot # of Reagents Used:

HNO3: N04025

H2SO4: —

HCL: M50036

K2S2O8: —

KMnO4: 37302825

SnCl2: 38132830

NaCl: 38023819

NH2OH-HCL: M12406

LCSW ERA Lot#: 239

\*Source Standard: (Vendor/Lot #) 4/21/99 EPA 8035081

\*\*ICV Standard: (Vendor/Lot #) CPI 8EK067

\*(10ppm stock prepped on: 4/19/99)

\*(10ppm stock prepped on: 4/19/99)

\*(0.1ppm working std prepped on: 4/21/99)

\*(0.1ppm working std prepped on: 4/21/99)

Comments/Problems: APR-215

0241

0042

# OPTIMA CALIBRATION STANDARD

| ELEM   | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL<br>(MLS) | FINAL<br>CONC<br>(PPM) | MATRIX          | PREP BY/<br>DATE |
|--------|-----------------|----------------|---------------|-----------------------|------------------------|-----------------|------------------|
| MULTI  | EM/A80850806    | MULTI          | 1.00          | 100                   | MULTI                  | 5%HCL<br>2%HNO3 | DM 4/27/99       |
| CA     |                 | 5010           |               |                       | 50.0                   |                 | gmh 4/27/99      |
| MG     |                 | 4983           |               |                       |                        |                 |                  |
| K      |                 | 4981           |               |                       |                        |                 |                  |
| NA     |                 | 5002           |               |                       |                        |                 |                  |
| MULTI  | EM/105-715C     | MULTI          | 1.00          | 100                   | MULTI                  |                 |                  |
| AG     |                 | 100            |               |                       | 1.00                   |                 |                  |
| CR     |                 | 100            |               |                       | 1.00                   |                 |                  |
| MN     |                 | 150            |               |                       | 1.50                   |                 |                  |
| NI     |                 | 400            |               |                       | 4.00                   |                 |                  |
| ZN     |                 | 200            |               |                       | 2.00                   |                 |                  |
| MULTI  | CPI/8DK012E     | MULTI          | 1.00          | 100                   | MULTI                  |                 |                  |
| AL     |                 | 2000           |               |                       | 20.0                   |                 |                  |
| BA     |                 | 2000           |               |                       | 20.0                   |                 |                  |
| BE     |                 | 50             |               |                       | 0.50                   |                 |                  |
| CO     |                 | 500            |               |                       | 5.00                   |                 |                  |
| CU     |                 | 250            |               |                       | 2.50                   |                 |                  |
| FE     |                 | 1000           |               |                       | 10.0                   |                 |                  |
| V      |                 | 500            |               |                       | 5.0                    |                 |                  |
| MULTI  | EM/085-757C     | MULTI          | 2.00          | 100                   | MULTI                  |                 |                  |
| AS     |                 | 101            |               |                       | 2.00                   |                 |                  |
| CD     |                 | 50             |               |                       | 1.00                   |                 |                  |
| PB     |                 | 50             |               |                       |                        |                 |                  |
| SE     |                 | 50             |               |                       |                        |                 |                  |
| TL     |                 | 100            |               |                       | 2.00                   |                 |                  |
| INDIV. |                 |                |               |                       |                        |                 |                  |
| SB     | MKL/1738426     | 1000           | 1.00          | 100                   | 10.0                   |                 |                  |
| B      | CPI/8JB047      | 1000           | 0.500         |                       | 5.00                   |                 |                  |

Mo  
Ti  
Sn  
CPI/8HB080  
CPI/8GB030  
CPI/81B036

↓  
1.00  
↓  
10.0

0242 000062

# OPTIMA ICV/CCV

| ELEM   | VENDOR/LOT#  | CONC. (PPM) | VOL. (MLS) | FINAL VOL (MLS) | FINAL CONC (PPM) | MATRIX          | PREP BY/ DATE            |
|--------|--------------|-------------|------------|-----------------|------------------|-----------------|--------------------------|
| MULTI  | CPI/9CM186   | MULTI       | 0.500      | 100             | MULTI            | 5%HCL<br>2%HNO3 | DM 4/27/99<br>Cm 4/27/99 |
| CA     |              | 5000        |            |                 | 25.0             |                 |                          |
| MG     |              |             |            |                 |                  |                 |                          |
| K      |              |             |            |                 |                  |                 |                          |
| NA     |              |             |            |                 |                  |                 |                          |
| MULTI  | CPI/9AK0468  | MULTI       | 0.500      | 100             | MULTI            |                 |                          |
| AG     |              | 100         |            |                 | 0.500            |                 |                          |
| CR     |              | 100         |            |                 | 0.500            |                 |                          |
| MN     |              | 150         |            |                 | 0.750            |                 |                          |
| NI     |              | 400         |            |                 | 2.00             |                 |                          |
| ZN     |              | 200         |            |                 | 1.00             |                 |                          |
| MULTI  | EM/A80550150 | MULTI       | 0.500      | 100             | MULTI            |                 |                          |
| AL     |              | 2000        |            |                 | 10.0             |                 |                          |
| BA     |              | 1995        |            |                 | 10.0             |                 |                          |
| BE     |              | 50          |            |                 | 0.250            |                 |                          |
| CO     |              | 501         |            |                 | 2.50             |                 |                          |
| CU     |              | 248         |            |                 | 1.25             |                 |                          |
| FE     |              | 1000        |            |                 | 5.00             |                 |                          |
| V      |              | 500         |            |                 | 2.50             |                 |                          |
| MULTI  | CPI/9AK142   | MULTI       | 1.00       | 100             | MULTI            |                 |                          |
| AS     |              | 100         |            |                 | 1.00             |                 |                          |
| CD     |              | 50          |            |                 | 0.500            |                 |                          |
| PB     |              | 50          |            |                 |                  |                 |                          |
| SE     |              | 50          |            |                 |                  |                 |                          |
| TL     |              | 100         |            |                 | 1.00             |                 |                          |
| INDIV. |              |             |            |                 |                  |                 |                          |
| SB     | CPI/84B076   | 1000        | 0.500      | 100             | 5.00             |                 |                          |
| B      | CPI/9CA082   | 1000        | 0.250      |                 | 2.50             |                 |                          |

Mo  
Ti  
Sn

CPI/84B084  
CPI/86B056  
EM/A8015005A

↓  
997

↓  
0.500

↓

↓  
500

0243

000087

## OPTIMA CRI

[illegible]

Ag came in separate bottle with same lot number

02400103

# ICSA/ICSAB

| ICSA  |              |             |            |                 |                  | MATRIX                                 | PREP BY/    |
|-------|--------------|-------------|------------|-----------------|------------------|----------------------------------------|-------------|
| ELEM  | VENDOR/ LOT# | CONC. (PPM) | VOL. (MLS) | FINAL VOL (MLS) | FINAL CONC (PPM) |                                        | DATE        |
| MULTI | CPI/9CM122   | MULTI       | 50         | 500             | MULTI            | 5%HCL<br>2%HNO3                        | Don 3/2/99  |
| AL    |              | 5000        |            |                 | 500              |                                        | Don 3/24/99 |
| CA    |              | 5000        |            |                 | 500              |                                        | Don 4/2/99  |
| FE    |              | 2000        |            |                 | 200              |                                        | Don 4/19/99 |
| MG    |              | 5000        |            |                 | 500              |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
| ICSAB |              |             |            |                 |                  | prepped to 1000mls instead of 500mls → | Don 3/30/99 |
| MULTI | CPI/9CM122   | MULTI       | 50         | 500             | MULTI            |                                        | Don 4/15/99 |
| AL    |              | 5000        |            |                 | 500              |                                        | DM 4/15/99  |
| CA    |              | 5000        |            |                 | 500              |                                        | Don 4/20/99 |
| FE    |              | 2000        |            |                 | 200              |                                        |             |
| MG    |              | 5000        |            |                 | 500              |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
|       |              |             |            |                 |                  |                                        |             |
| MULTI | CPI/8HB112   | MULTI       | 5.00       |                 | MULTI            |                                        |             |
| AG    |              | 100         |            |                 | 1.00             |                                        |             |
| BA    |              | 50          |            |                 | 0.500            |                                        |             |
| BE    |              | 50          |            |                 | ↓                |                                        |             |
| CD    |              | 100         |            |                 | 1.00             |                                        |             |
| CO    |              | 50          |            |                 | 0.500            |                                        |             |
| CR    |              | 50          |            |                 | ↓                |                                        |             |
| CU    |              | 50          |            |                 | ↓                |                                        |             |
| MN    |              | 50          |            |                 | ↓                |                                        |             |
| NI    |              | 100         |            |                 | 1.00             |                                        |             |
| PB    |              | 100         |            |                 | ↓                |                                        |             |
| V     |              | 50          |            |                 | 0.500            |                                        |             |
| ZN    |              | 100         |            |                 | 1.00             |                                        |             |

0245 000108

# LEEMAN CALIBRATION STANDARD

| Element         | CAS Lot # | Conc. (ppm) | Vol. (mls) | Final Vol. (mls) | Final Conc. (ppm) | Matrix            | Analyst/ Date |
|-----------------|-----------|-------------|------------|------------------|-------------------|-------------------|---------------|
| Cal Std 1       | M178001 O | Multi       | 2.00       | 100              | Multi             | 5% HCL<br>2% HNO3 | gmn 5/3/99    |
| CA              |           | 5000        |            |                  | 100               |                   | gmn 5/4/99 *  |
| MG              |           | 5000        |            |                  | 100               |                   | gmn 5/4/99    |
| K               |           | 5000        |            |                  | 100               |                   | gmn 5/5/99    |
| NA              |           | 5000        |            |                  | 100               |                   | gmn 5/6/99    |
| Cal Std 2       | M178001 H | Multi       | 1.00       |                  | Multi             |                   | gmn 5/7/99 *  |
| AG              |           | 100         |            |                  | 1.00              |                   | gmn 5/7/99    |
| CR              |           | 100         |            |                  | 1.00              |                   | DM 5/10/99    |
| MN              |           | 150         |            |                  | 1.50              |                   | gmn 5/11/99   |
| NI              |           | 400         |            |                  | 4.00              |                   | gmn 5/11/99 * |
| ZN              |           | 200         |            |                  | 2.00              |                   | gmn 5/12/99   |
| Cal Std 3       | M178001 M | Multi       | 1.00       |                  | Multi             |                   | gmn 5/13/99   |
| AL              |           | 2000        |            |                  | 20.0              |                   |               |
| BA              |           | 2000        |            |                  | 20.0              |                   |               |
| BE              |           | 50          |            |                  | 0.500             |                   |               |
| CO              |           | 500         |            |                  | 5.00              |                   |               |
| CU              |           | 250         |            |                  | 2.50              |                   |               |
| FE              |           | 1000        |            |                  | 10.0              |                   |               |
| V               |           | 500         |            |                  | 5.00              |                   |               |
| Cal Std 4       | M178001 C | Multi       | 4.00       |                  | Multi             |                   |               |
| AS              |           | 100         |            |                  | 4.00              |                   |               |
| CD              |           | 50          |            |                  | 2.00              |                   |               |
| PB              |           | 50          |            |                  | 2.00              |                   |               |
| SE              |           | 50          |            |                  | 2.00              |                   |               |
| TL              |           | 100         |            |                  | 4.00              |                   |               |
| Single Elements |           |             |            |                  |                   |                   |               |
| SB              | M178002 B | 1000        | 1.00       |                  | 10.0              |                   |               |
| CK 5/3/99       |           |             |            |                  |                   |                   |               |
|                 |           |             |            |                  |                   |                   |               |
|                 |           |             |            |                  |                   |                   |               |

\* 15% HCL  
6% HNO3

0087

## LEEMAN ICV/CCV STANDARD

[illegible]

\* 15% HCl  
6% HNO<sub>3</sub>

0128

# LEEMAN CRI STANDARD

| Element  | CAS Lot # | Conc. (ppm) | Vol. (mls) | Final Vol. (mls) | Final Conc. (ppm) | Matrix  | Analyst/ Date |
|----------|-----------|-------------|------------|------------------|-------------------|---------|---------------|
| CRDL STD | M178001 T | Multi       | 0.500      | 500              | Multi             | 5% HCL  | mm 3/30/99    |
| AG       |           | 20          |            |                  | 0.0200            | 2% HNO3 | mm 5/11/99    |
| AS       |           | 20          |            |                  | 0.0200            |         |               |
| BE       |           | 10          |            |                  | 0.0100            |         |               |
| CD       |           | 10          |            |                  | 0.0100            |         |               |
| CR       |           | 20          |            |                  | 0.0200            |         |               |
| CO       |           | 100         |            |                  | 0.100             |         |               |
| CU       |           | 50          |            |                  | 0.0500            |         |               |
| MN       |           | 30          |            |                  | 0.0300            |         |               |
| NI       |           | 80          |            |                  | 0.0800            |         |               |
| PB       |           | 6           |            |                  | below             |         |               |
| SB       |           | 120         |            |                  | 0.120             |         |               |
| SE       |           | 10          |            |                  | 0.0100            |         |               |
| TL       |           | 20          |            |                  | 0.0200            |         |               |
| V        |           | 100         |            |                  | 0.100             |         |               |
| ZN       |           | 40          |            |                  | 0.0400            |         |               |
|          |           |             |            |                  |                   |         |               |
|          |           |             |            |                  |                   |         |               |
| PB       | M178002 G | 1000        | 0.0500     |                  | 0.106             |         |               |
|          |           |             |            |                  |                   |         |               |

Ag shipped in separate bottle, same lot number.

0248 0169

# ICSA / ICSAB STANDARD

| ICSA         |           |             |            |                  |                   |         |               |
|--------------|-----------|-------------|------------|------------------|-------------------|---------|---------------|
| Element      | CAS Lot # | Conc. (ppm) | Vol. (mls) | Final Vol. (mls) | Final Conc. (ppm) | Matrix  | Analyst/ Date |
| Int. A Sol'n | M178002 D | Multi       | 100        | 1000             | Multi             | 5% HCL  | DM 4/27/99    |
| AL           |           | 5000        |            |                  | 500               | 2% HNO3 | DM 5/7/99     |
| CA           |           | 5000        |            |                  | 500               |         |               |
| FE           |           | 2000        |            |                  | 200               |         |               |
| MG           |           | 5000        |            |                  | 500               |         |               |
|              |           |             |            |                  |                   |         |               |
|              |           |             |            |                  |                   |         |               |
|              |           |             |            |                  |                   |         |               |
|              |           |             |            |                  |                   |         |               |

| ICSAB        |           |       |      |      |       |  |            |
|--------------|-----------|-------|------|------|-------|--|------------|
| Int. A Sol'n | M178002 D | Multi | 100  | 1000 | Multi |  | DM 4/29/99 |
| AL           |           | 5000  |      |      | 500   |  | DM 5/7/99  |
| CA           |           | 5000  |      |      | 500   |  |            |
| FE           |           | 2000  |      |      | 200   |  |            |
| MG           |           | 5000  |      |      | 500   |  |            |
| Int. B Sol'n | M178002 F | Multi | 10.0 |      | Multi |  |            |
| AG           |           | 100   |      |      | 1.00  |  |            |
| BA           |           | 50    |      |      | 0.500 |  |            |
| BE           |           | 50    |      |      | 0.500 |  |            |
| CD           |           | 100   |      |      | 1.00  |  |            |
| CO           |           | 50    |      |      | 0.500 |  |            |
| CR           |           | 50    |      |      | 0.500 |  |            |
| CU           |           | 50    |      |      | 0.500 |  |            |
| MN           |           | 50    |      |      | 0.500 |  |            |
| NI           |           | 100   |      |      | 1.00  |  |            |
| PB           |           | 100   |      |      | 1.00  |  |            |
| V            |           | 50    |      |      | 0.500 |  |            |
| ZN           |           | 100   |      |      | 1.00  |  |            |
|              |           |       |      |      |       |  |            |
|              |           |       |      |      |       |  |            |
|              |           |       |      |      |       |  |            |
|              |           |       |      |      |       |  |            |

0175

0249

## MERCURY STANDARDS

### CAL STK A

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX | PREP BY/<br>DATE |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| HG   | EM A8035081     | 1000           | 1.00          | 100                 | 10.0                 | 5%HNO3 | DCB 4/19/99      |

### CAL STK B

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|
| HG   | CAL STK A       | 10.0           | 1.00          | 100                 | 0.100                | 5%HNO3 |

### CALIBRATION STDS USING ABOVE CAL STK B

| STD<br>(PPB) | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPB) | MATRIX | PREP BY/<br>DATE |
|--------------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| 0.500        | CAL STK B       | 0.100          | 0.50          | 100                 | 0.500                | 5%HNO3 | DCB 4/19/99      |
| 1.00         |                 |                | 1.00          |                     | 1.00                 |        | DCB 4/21/99      |
| 2.00         |                 |                | 2.00          |                     | 2.00                 |        |                  |
| 5.00         |                 |                | 5.00          |                     | 5.00                 |        |                  |
| 10.0         |                 |                | 10.0          |                     | 10.0                 |        |                  |
| CRA          |                 |                | 0.400         |                     | 0.400                |        |                  |
| CSW          |                 |                | 1.00          |                     | 1.00                 |        |                  |

### CCV STOCK A

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX | PREP BY/<br>DATE |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| HG   | CP 8EKA67       | 1000           | 1.00          | 100                 | 10.0                 | 5%HNO3 | DCB 4/19/99      |

### CCV STOCK B

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|
| HG   | CCV STK A       | 10.0           | 1.00          | 100                 | 0.100                | 5%HNO3 |

### CCV STANDARD

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPB) | MATRIX | PREP BY/<br>DATE |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| HG   | CCVSTK B        | 0.100          | 3.00          | 100                 | 3.00                 | 5%HNO3 | DCB 4/19/99      |
|      |                 |                |               |                     |                      |        | DCB 4/21/99      |
|      |                 |                |               |                     |                      |        |                  |
|      |                 |                |               |                     |                      |        |                  |
|      |                 |                |               |                     |                      |        |                  |

\*\*\* (CAL STK A/CCV STK A CAN BE USED FOR ONE WEEK. CAL STK B/CCV STK B AND CORRESPONDING STDS MADE WITH THESE STKS MUST BE PREPARED DAILY)

DATE PRINTED: 04/16/99

## SOLIDS REPORT

RUN #: 37071 ANALYSIS DATE: 04/15/1999 ASSIGNED TO :  
TEMPLATE: DWPS  
TEST :

| CUP# | ORDER # | SUBMISSION | CONTROL TYPE | GROSS(g)                 | TARE(g) | DIFF(g) | % SOLID          | DISH ID | LS JOB# | LS LOC# |
|------|---------|------------|--------------|--------------------------|---------|---------|------------------|---------|---------|---------|
| 1    | 285214  |            | ICBW         | (1.3100-1.3100)=0.0000   |         |         | DRY*100 = 1.00   | 1       |         |         |
|      |         |            |              | (1.3100-1.3100)=0.0000   |         |         | WET              |         |         |         |
| 2    | 283539  | 9904000107 | ESMP         | (11.0100-1.3200)=9.6900  |         |         | DRY*100 = 87.10  | 2       |         |         |
|      |         |            |              | (12.4500-1.3200)=11.1300 |         |         | WET              |         |         |         |
| 3    | 285215  |            | DUPE         | (11.2500-1.3000)=9.9500  |         |         | DRY*100 = 87.20  | 3       |         |         |
|      |         |            |              | (12.7100-1.3000)=11.4100 |         |         | WET              |         |         |         |
| 4    | 283540  | 9904000107 | ESMP         | (10.5700-1.3000)=9.2700  |         |         | DRY*100 = 85.00  | 4       |         |         |
|      |         |            |              | (12.2000-1.3000)=10.9000 |         |         | WET              |         |         |         |
| 5    | 283549  | 9904000108 | ESMP         | (12.3700-1.3100)=11.0600 |         |         | DRY*100 = 100.00 | 5       |         |         |
|      |         |            |              | (12.3700-1.3100)=11.0600 |         |         | WET              |         |         |         |
| 6    | 283550  | 9904000108 | ESMP         | (11.8000-1.3200)=10.4800 |         |         | DRY*100 = 99.40  | 6       |         |         |
|      |         |            |              | (11.8600-1.3200)=10.5400 |         |         | WET              |         |         |         |
| 7    | 283551  | 9904000108 | ESMP         | (13.0300-1.3200)=11.7100 |         |         | DRY*100 = 99.90  | 7       |         |         |
|      |         |            |              | (13.0400-1.3200)=11.7200 |         |         | WET              |         |         |         |
| 8    | 283552  | 9904000108 | ESMP         | (12.2400-1.3100)=10.9300 |         |         | DRY*100 = 98.90  | 8       |         |         |
|      |         |            |              | (12.3600-1.3100)=11.0500 |         |         | WET              |         |         |         |
| 9    | 283553  | 9904000108 | ESMP         | (11.3800-1.3100)=10.0700 |         |         | DRY*100 = 100.00 | 9       |         |         |
|      |         |            |              | (11.3800-1.3100)=10.0700 |         |         | WET              |         |         |         |
| 0    | 283554  | 9904000108 | ESMP         | (11.7300-1.3200)=10.4100 |         |         | DRY*100 = 99.70  | 10      |         |         |
|      |         |            |              | (11.7600-1.3200)=10.4400 |         |         | WET              |         |         |         |
| 11   | 283555  | 9904000108 | ESMP         | (9.0600-1.3200)=7.7400   |         |         | DRY*100 = 99.60  | 11      |         |         |
|      |         |            |              | (9.0900-1.3200)=7.7700   |         |         | WET              |         |         |         |
| 12   | 283557  | 9904000108 | ESMP         | (12.0600-1.3100)=10.7500 |         |         | DRY*100 = 98.40  | 13      |         |         |
|      |         |            |              | (12.2300-1.3100)=10.9200 |         |         | WET              |         |         |         |
| 13   | 283558  | 9904000108 | ESMP         | (11.9700-1.3100)=10.6600 |         |         | DRY*100 = 98.70  | 14      |         |         |
|      |         |            |              | (12.1100-1.3100)=10.8000 |         |         | WET              |         |         |         |
| 14   | 283559  | 9904000108 | ESMP         | (12.2800-1.3100)=10.9700 |         |         | DRY*100 = 98.90  | 15      |         |         |
|      |         |            |              | (12.4000-1.3100)=11.0900 |         |         | WET              |         |         |         |
| 15   | 283560  | 9904000108 | ESMP         | (11.3400-1.3200)=10.0200 |         |         | DRY*100 = 99.90  | 16      |         |         |
|      |         |            |              | (11.3500-1.3200)=10.0300 |         |         | WET              |         |         |         |
| 16   | 285220  |            | DUPE         | (11.4500-1.3100)=10.1400 |         |         | DRY*100 = 99.90  | 17      |         |         |
|      |         |            |              | (11.4600-1.3100)=10.1500 |         |         | WET              |         |         |         |
| 17   | 283648  | 9904000091 | ESMP         | (10.5800-1.3100)=9.2700  |         |         | DRY*100 = 78.80  | 18      |         |         |
|      |         |            |              | (13.0800-1.3100)=11.7700 |         |         | WET              |         |         |         |
| 18   | 283649  | 9904000091 | ESMP         | (11.4600-1.3100)=10.1500 |         |         | DRY*100 = 83.30  | 19      |         |         |
|      |         |            |              | (13.4900-1.3100)=12.1800 |         |         | WET              |         |         |         |
| 19   | 283652  | 9904000091 | ESMP         | (10.3500-1.3300)=9.0200  |         |         | DRY*100 = 84.50  | 20      |         |         |
|      |         |            |              | (12.0000-1.3300)=10.6700 |         |         | WET              |         |         |         |
| 20   | 283653  | 9904000091 | ESMP         | (10.4600-1.3200)=9.1400  |         |         | DRY*100 = 85.40  | 21      |         |         |
|      |         |            |              | (12.0200-1.3200)=10.7000 |         |         | WET              |         |         |         |
| 21   | 283654  | 9904000091 | ESMP         | (10.4100-1.3100)=9.1000  |         |         | DRY*100 = 84.10  | 22      |         |         |
|      |         |            |              | (12.1300-1.3100)=10.8200 |         |         | WET              |         |         |         |
| 22   | 283650  | 9904000091 | ESMP         | (10.2200-1.3100)=8.9100  |         |         | DRY*100 = 82.30  | 24      |         |         |
|      |         |            |              | (12.1300-1.3100)=10.8200 |         |         | WET              |         |         |         |
| 23   | 285222  |            | DUPE         | (10.6300-1.3100)=9.3200  |         |         | DRY*100 = 84.60  | 25      |         |         |
|      |         |            |              | (12.3300-1.3100)=11.0200 |         |         | WET              |         |         |         |
| 24   | 283655  | 9904000091 | ESMP         | (10.6400-1.3100)=9.3300  |         |         | DRY*100 = 91.10  | 26      |         |         |
|      |         |            |              | (11.5500-1.3100)=10.2400 |         |         | WET              |         |         |         |
| 25   | 283656  | 9904000091 | ESMP         | (10.2200-1.3100)=8.9100  |         |         | DRY*100 = 86.90  | 27      |         |         |
|      |         |            |              | (11.5600-1.3100)=10.2500 |         |         | WET              |         |         |         |

0251

DATE PRINTED: 04/16/99

SOLIDS REPORT

RUN #: 37071 ANALYSIS DATE: 04/15/1999 ASSIGNED TO :

TEMPLATE: DWPS

TEST :

| CUP# | ORDER # | SUBMISSION | CONTROL |                                                      |         | % SOLID                | DISH ID | LS<br>JOB# | LS<br>LOC# |
|------|---------|------------|---------|------------------------------------------------------|---------|------------------------|---------|------------|------------|
|      |         |            | TYPE    | GROSS(g)                                             | TARE(g) |                        |         |            |            |
| 26   | 283657  | 9904000091 | ESMP    | (10.7500-1.3100)=9.4400<br>(12.1800-1.3100)=10.8700  |         | DRY*100 = 86.80<br>WET | 28      |            |            |
| 27   | 283658  | 9904000091 | ESMP    | (10.2600-1.3200)=8.9400<br>(11.9800-1.3200)=10.6600  |         | DRY*100 = 83.90<br>WET | 29      |            |            |
| 28   | 283659  | 9904000091 | ESMP    | (11.3400-1.3100)=10.0300<br>(12.4700-1.3100)=11.1600 |         | DRY*100 = 89.90<br>WET | 30      |            |            |
| 29   | 283660  | 9904000091 | ESMP    | (11.3400-1.3200)=10.0200<br>(12.6500-1.3200)=11.3300 |         | DRY*100 = 88.40<br>WET | 31      |            |            |
| 30   | 283663  | 9904000091 | ESMP    | (10.8000-1.3100)=9.4900<br>(12.6800-1.3100)=11.3700  |         | DRY*100 = 83.50<br>WET | 32      |            |            |
| 31   | 283837  | 9904000126 | ESMP    | (11.4700-1.3200)=10.1500<br>(12.3600-1.3200)=11.0400 |         | DRY*100 = 91.90<br>WET | 33      |            |            |
| 32   | 283842  | 9904000126 | ESMP    | (9.3200-1.3200)=8.0000<br>(11.7600-1.3200)=10.4400   |         | DRY*100 = 76.60<br>WET | 35      |            |            |
| 33   | 283843  | 9904000126 | ESMP    | (8.5400-1.3200)=7.2200<br>(11.5200-1.3200)=10.2000   |         | DRY*100 = 70.80<br>WET | 36      |            |            |
| 34   | 285223  |            | DUPE    | (8.4900-1.3100)=7.1800<br>(11.5000-1.3100)=10.1900   |         | DRY*100 = 70.50<br>WET | 37      |            |            |
| 35   | 283847  | 9904000126 | ESMP    | (10.3500-1.3200)=9.0300<br>(11.7300-1.3200)=10.4100  |         | DRY*100 = 86.70<br>WET | 38      |            |            |
| 36   | 283848  | 9904000126 | ESMP    | (9.1400-1.3100)=7.8300<br>(11.4500-1.3100)=10.1400   |         | DRY*100 = 77.20<br>WET | 39      |            |            |
| 37   | 283849  | 9904000126 | ESMP    | (10.7100-1.3100)=9.4000<br>(11.9100-1.3100)=10.6000  |         | DRY*100 = 88.70<br>WET | 40      |            |            |
| 38   | 283850  | 9904000126 | ESMP    | (10.1300-1.3000)=8.8300<br>(12.4200-1.3000)=11.1200  |         | DRY*100 = 79.40<br>WET | 41      |            |            |
| 39   | 283851  | 9904000126 | ESMP    | (10.6700-1.3100)=9.3600<br>(12.3500-1.3100)=11.0400  |         | DRY*100 = 84.80<br>WET | 42      |            |            |
| 40   | 283852  | 9904000126 | ESMP    | (10.8100-1.3100)=9.5000<br>(12.4800-1.3100)=11.1700  |         | DRY*100 = 85.00<br>WET | 43      |            |            |
| 41   | 283853  | 9904000126 | ESMP    | (11.1600-1.3200)=9.8400<br>(11.9400-1.3200)=10.6200  |         | DRY*100 = 92.60<br>WET | 44      |            |            |
| 42   | 283846  | 9904000126 | ESMP    | (10.1800-1.3100)=8.8700<br>(11.4200-1.3100)=10.1100  |         | DRY*100 = 87.70<br>WET | 46      |            |            |
| 43   | 285225  |            | DUPE    | (10.9000-1.3100)=9.5900<br>(12.2200-1.3100)=10.9100  |         | DRY*100 = 87.90<br>WET | 47      |            |            |
| 44   | 283854  | 9904000126 | ESMP    | (10.5800-1.3100)=9.2700<br>(11.9000-1.3100)=10.5900  |         | DRY*100 = 87.50<br>WET | 48      |            |            |
| 45   | 283855  | 9904000126 | ESMP    | (10.7700-1.3100)=9.4600<br>(12.2900-1.3100)=10.9800  |         | DRY*100 = 86.20<br>WET | 49      |            |            |
| 46   | 283856  | 9904000126 | ESMP    | (10.8400-1.3100)=9.5300<br>(12.4700-1.3100)=11.1600  |         | DRY*100 = 85.40<br>WET | 50      |            |            |
| 47   | 283857  | 9904000127 | ESMP    | (10.1600-1.3100)=8.8500<br>(11.6900-1.3100)=10.3800  |         | DRY*100 = 85.30<br>WET | 51      |            |            |
| 48   | 283858  | 9904000127 | ESMP    | (7.3800-1.3200)=6.0600<br>(11.8900-1.3200)=10.5700   |         | DRY*100 = 57.30<br>WET | 52      |            |            |
| 49   | 283859  | 9904000127 | ESMP    | (10.5700-1.3100)=9.2600<br>(11.9700-1.3100)=10.6600  |         | DRY*100 = 86.90<br>WET | 53      |            |            |
| 50   | 284069  | 9904000143 | ESMP    | (10.9700-1.3100)=9.6600<br>(12.4400-1.3100)=11.1300  |         | DRY*100 = 86.80<br>WET | 54      |            |            |

0252

DATE PRINTED: 04/16/99

SOLIDS REPORT

RUN #: 37071 ANALYSIS DATE: 04/15/1999 ASSIGNED TO :

TEMPLATE: DWPS

TEST :

| CUP# | ORDER # | SUBMISSION | CONTROL<br>TYPE | GROSS(g)                                             | TARE(g) | DIFF(g) | % SOLID                | DISH ID | LS<br>JOB# | LS<br>LOC# |
|------|---------|------------|-----------------|------------------------------------------------------|---------|---------|------------------------|---------|------------|------------|
| 51   | 284071  | 9904000143 | ESMP            | (11.8200-1.3100)=10.5100<br>(13.7300-1.3100)=12.4200 |         |         | DRY*100 = 84.60<br>WET | 55      |            |            |
| 52   | 284072  | 9904000143 | ESMP            | (9.5200-1.3100)=8.2100<br>(11.9100-1.3100)=10.6000   |         |         | DRY*100 = 77.40<br>WET | 57      |            |            |
| 53   | 285228  |            | DUPE            | (10.1500-1.3100)=8.8400<br>(12.6100-1.3100)=11.3000  |         |         | DRY*100 = 78.20<br>WET | 58      |            |            |
| 54   | 284073  | 9904000143 | ESMP            | (10.7600-1.3100)=9.4500<br>(14.2400-1.3100)=12.9300  |         |         | DRY*100 = 73.10<br>WET | 59      |            |            |
| 55   | 284180  | 9904000126 | ESMP            | (10.1900-1.3100)=8.8800<br>(12.1100-1.3100)=10.8000  |         |         | DRY*100 = 82.20<br>WET | 60      |            |            |
| 56   | 284182  | 9904000126 | ESMP            | (10.2500-1.3200)=8.9300<br>(11.8300-1.3200)=10.5100  |         |         | DRY*100 = 85.00<br>WET | 61      |            |            |
| 57   | 284183  | 9904000126 | ESMP            | (11.9500-1.3000)=10.6500<br>(13.4800-1.3000)=12.1800 |         |         | DRY*100 = 87.40<br>WET | 62      |            |            |
| 58   | 284185  | 9904000126 | ESMP            | (10.6600-1.3100)=9.3500<br>(12.5400-1.3100)=11.2300  |         |         | DRY*100 = 83.20<br>WET | 63      |            |            |
| 59   | 284619  | 9904000166 | ESMP            | (4.4100-1.3100)=3.1000<br>(8.7400-1.3100)=7.4300     |         |         | DRY*100 = 41.70<br>WET | 64      |            |            |
| 60   | 284621  | 9904000166 | ESMP            | (7.7800-1.3100)=6.4700<br>(11.7600-1.3100)=10.4500   |         |         | DRY*100 = 61.90<br>WET | 65      |            |            |
| 61   | 284622  | 9904000166 | ESMP            | (11.2100-1.3100)=9.9000<br>(13.0200-1.3100)=11.7100  |         |         | DRY*100 = 84.50<br>WET | 66      |            |            |
| 62   | 283556  | 9904000108 | ESMP            | (11.8400-1.3200)=10.5200<br>(11.9700-1.3200)=10.6500 |         |         | DRY*100 = 98.80<br>WET | 68      |            |            |

0253

Print #: 37071

yte: PERCENT SOL. 160.0 PERCENT SOLIDS

Printed: 04/16/99 14:51

| TYPE | SUBMISSION | ORDER # | MATRIX     | REPORTED | DILUTION | PQL | % RECOVERY | % RSD | DATE       | QC | PKG # |
|------|------------|---------|------------|----------|----------|-----|------------|-------|------------|----|-------|
|      |            |         |            | RESULT   |          |     |            |       | ANALYZED   |    |       |
| BLK6 |            | 285214  | SOIL/SEDIM | 1.00     | 1.0      | 1.0 |            |       | 04/15/1999 |    |       |
| ESMP | 9904000107 | 283539  | SOIL/SEDIM | 87.1     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 1     |
| LDUP |            | 285215  | SOIL/SEDIM | 87.2     | 1.0      | 1.0 |            | 0.12  | 04/15/1999 |    |       |
| ESMP | 9904000107 | 283540  | SOIL/SEDIM | 85.0     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 1     |
| ESMP | 9904000108 | 283549  | SOIL/SEDIM | 100      | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283550  | SOIL/SEDIM | 99.4     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283551  | SOIL/SEDIM | 99.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283552  | SOIL/SEDIM | 98.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283553  | SOIL/SEDIM | 100      | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283554  | SOIL/SEDIM | 99.7     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283555  | SOIL/SEDIM | 99.6     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283557  | SOIL/SEDIM | 98.4     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283558  | SOIL/SEDIM | 98.7     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283559  | SOIL/SEDIM | 98.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000108 | 283560  | SOIL/SEDIM | 99.9     | 1.0      | 1.0 |            |       | 04/15/1999 | QC | 5     |
| LDUP |            | 285220  | SOIL/SEDIM | 99.9     | 1.0      | 1.0 |            | 0.00  | 04/15/1999 |    |       |
| ESMP | 9904000091 | 283648  | SOIL/SEDIM | 78.8     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283649  | SOIL/SEDIM | 83.3     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283652  | SOIL/SEDIM | 84.5     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283653  | SOIL/SEDIM | 85.4     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283654  | SOIL/SEDIM | 84.1     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283650  | SOIL/SEDIM | 82.3     | 1.0      | 1.0 |            |       | 04/15/1999 | QC | 5     |
| LDUP |            | 285222  | SOIL/SEDIM | 84.6     | 1.0      | 1.0 |            | 2.72  | 04/15/1999 |    |       |
| ESMP | 9904000091 | 283655  | SOIL/SEDIM | 91.1     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283656  | SOIL/SEDIM | 86.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283657  | SOIL/SEDIM | 86.8     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283658  | SOIL/SEDIM | 83.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283659  | SOIL/SEDIM | 89.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283660  | SOIL/SEDIM | 88.4     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000091 | 283663  | SOIL/SEDIM | 83.5     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283837  | SOIL/SEDIM | 91.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283842  | SOIL/SEDIM | 76.6     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283843  | SOIL/SEDIM | 70.8     | 1.0      | 1.0 |            |       | 04/15/1999 | QC | 5     |
| LDUP |            | 285223  | SOIL/SEDIM | 70.5     | 1.0      | 1.0 |            | 0.48  | 04/15/1999 |    |       |
| ESMP | 9904000126 | 283847  | SOIL/SEDIM | 86.7     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283848  | SOIL/SEDIM | 77.2     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283849  | SOIL/SEDIM | 88.7     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283850  | SOIL/SEDIM | 79.4     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283851  | SOIL/SEDIM | 84.8     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283852  | SOIL/SEDIM | 85.0     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283853  | SOIL/SEDIM | 92.6     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283846  | SOIL/SEDIM | 87.7     | 1.0      | 1.0 |            |       | 04/15/1999 | QC | 5     |
| LDUP |            | 285225  | SOIL/SEDIM | 87.9     | 1.0      | 1.0 |            | 0.23  | 04/15/1999 |    |       |
| ESMP | 9904000126 | 283854  | SOIL/SEDIM | 87.5     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283855  | SOIL/SEDIM | 86.2     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000126 | 283856  | SOIL/SEDIM | 85.4     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 5     |
| ESMP | 9904000127 | 283857  | SOIL/SEDIM | 85.3     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 1     |
| ESMP | 9904000127 | 283858  | SOIL/SEDIM | 57.3     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 1     |
| ESMP | 9904000127 | 283859  | SOIL/SEDIM | 86.9     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 1     |
| ESMP | 9904000143 | 284069  | SOIL/SEDIM | 86.8     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 1     |
| ESMP | 9904000143 | 284071  | SOIL/SEDIM | 84.6     | 1.0      | 1.0 |            |       | 04/15/1999 |    | 1     |

ANALYTE:G:\STARLIMS\ASBAR.RP1

| <u>TYPE</u> | <u>SUBMISSION</u> | <u>ORDER #</u> | <u>MATRIX</u> | <u>RESULT</u> | <u>DILUTION</u> | <u>PQL</u> | <u>% RECOVERY</u> | <u>% RSD</u> | <u>ANALYZED</u> | <u>QC</u> | <u>PKG #</u> |
|-------------|-------------------|----------------|---------------|---------------|-----------------|------------|-------------------|--------------|-----------------|-----------|--------------|
|             | 9904000143        | 284072         | SOIL/SEDIM    | 77.4          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 1            |
| LDUP        |                   | 285228         | SOIL/SEDIM    | 78.2          | 1.0             | 1.0        |                   | 1.07         | 04/15/1999      |           |              |
| ESMP        | 9904000143        | 284073         | SOIL/SEDIM    | 73.1          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 1            |
| ESMP        | 9904000126        | 284180         | SOIL/SEDIM    | 82.2          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 5            |
| ESMP        | 9904000126        | 284182         | SOIL/SEDIM    | 85.0          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 5            |
| ESMP        | 9904000126        | 284183         | SOIL/SEDIM    | 87.4          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 5            |
| ESMP        | 9904000126        | 284185         | SOIL/SEDIM    | 83.2          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 5            |
| ESMP        | 9904000166        | 284619         | SOIL/SEDIM    | 41.7          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 1            |
| ESMP        | 9904000166        | 284621         | SOIL/SEDIM    | 61.9          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 1            |
| ESMP        | 9904000166        | 284622         | SOIL/SEDIM    | 84.5          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 1            |
| ESMP        | 9904000108        | 283556         | SOIL/SEDIM    | 98.8          | 1.0             | 1.0        |                   |              | 04/15/1999      |           | 5            |

Records printed: 62

0255

## Dry Weight Percent Solids

Analyst: A. Perry

Columbia Analytical Services

1 Mustard Street

Rochester, NY 14609

Date: 4/15/99"S" weight initial: 10.01 final: \_\_\_\_\_

| Job Number      | Client                                                                                        | Dish I.D. | Wet Weight (g) |       | Dry Weight (g) | Percent Solid |
|-----------------|-----------------------------------------------------------------------------------------------|-----------|----------------|-------|----------------|---------------|
| -285214         | ICB                                                                                           | 1         | 1.31           | Gross | 1.31           |               |
|                 |                                                                                               |           |                | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |
| 283539          | <br>(04-107) | 2         | 12.45          | Gross | 11.01          |               |
|                 |                                                                                               |           | 1.32           | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |
| -dup<br>-285215 |                                                                                               | 3         | 12.71          | Gross | 11.25          |               |
|                 |                                                                                               |           | 1.30           | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |
| 283540          |                                                                                               | 4         | 12.20          | Gross | 10.57          |               |
|                 |                                                                                               |           | 1.30           | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |
| 283549          | NYSDEC<br>(04-108)                                                                            | 5         | 12.37          | Gross | 12.37          |               |
|                 |                                                                                               |           | 1.31           | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |
| 283550          |                                                                                               | 6         | 11.86          | Gross | 11.80          |               |
|                 |                                                                                               |           | 1.32           | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |
| 283551          |                                                                                               | 7         | 13.04          | Gross | 13.03          |               |
|                 |                                                                                               |           | 1.32           | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |
| 283552          |                                                                                               | 8         | 12.36          | Gross | 12.24          |               |
|                 |                                                                                               |           | 1.31           | Tare  |                |               |
|                 |                                                                                               |           |                | Diff. |                |               |

Dry Weight Percent Solids

Analyst: A.P

Columbia Analytical Services  
1 Mustard Street  
Rochester, NY 14609

Date: 4/15/99

"S" weight initial: \_\_\_\_\_ final: \_\_\_\_\_

| Job Number | Client             | Dish I.D. | Wet Weight (g) |       | Dry Weight (g) | Percent Solid   |
|------------|--------------------|-----------|----------------|-------|----------------|-----------------|
| 283553     | NYSDEC<br>(04-105) | 9         | 11.38          | Gross | 11.38          | -Sandy rock     |
|            |                    |           | 1.31           | Tare  |                |                 |
|            |                    |           |                | Diff. |                |                 |
| 283554     |                    | 10        | 11.76          | Gross | 11.73          |                 |
|            |                    |           | 1.32           | Tare  |                |                 |
|            |                    |           |                | Diff. |                |                 |
| 283555     |                    | 11        | 9.09*          | Gross | 9.06           | -metal shavings |
|            |                    |           | 1.32           | Tare  |                |                 |
|            |                    |           |                | Diff. |                |                 |
|            |                    |           |                | Gross | 1.32           |                 |
|            | CCB                | 12        | 1.32           | Tare  |                |                 |
|            |                    |           |                | Diff. |                |                 |
| 283557     | NYSDEC<br>(04-108) | 13        | 12.23          | Gross | 12.06          |                 |
|            |                    |           | 1.31           | Tare  |                |                 |
|            |                    |           |                | Diff. |                |                 |
| 283558     |                    | 14        | 12.11          | Gross | 11.97          |                 |
|            |                    |           | 1.31           | Tare  |                |                 |
|            |                    |           |                | Diff. |                |                 |
| 283559     |                    | 15        | 12.40          | Gross | 12.28          |                 |
|            |                    |           | 1.31           | Tare  |                |                 |
|            |                    |           |                | Diff. |                |                 |
| 283560     |                    | 16        | 11.35          | Gross | 11.34          |                 |
|            |                    |           | 1.32           | Tare  |                |                 |
|            |                    |           |                | Diff. | 0.0257         |                 |

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\* entire sample used

3

Dry Weight Percent Solids

Analyst: AP

Date: 4/15/99

Columbia Analytical Services  
1 Mustard Street  
Rochester, NY 14609

"S" weight initial: \_\_\_\_\_ final: \_\_\_\_\_

| Job Number                | Client                            | Dish I.D. | Wet Weight (g)                 |                        | Dry Weight (g) | Percent Solid |
|---------------------------|-----------------------------------|-----------|--------------------------------|------------------------|----------------|---------------|
| 283566<br>-amp<br>-285220 | NYSDEC<br>(04-108)                | 17        | 11.46<br>1.31                  | Gross<br>Tare<br>Diff. | 11.45          |               |
| 283648                    | <del>██████████</del><br>(04-091) | 18        | 13.08<br>1.31                  | Gross<br>Tare<br>Diff. | 10.58          |               |
| 283649                    | ↓                                 | 19        | 13.49<br>1.31                  | Gross<br>Tare<br>Diff. | 11.46          |               |
| 283652                    | ↓                                 | 20        | 12.00<br>1.33                  | Gross<br>Tare<br>Diff. | 10.35          |               |
| 283653                    | ↓                                 | 21        | 12.02<br>1.32                  | Gross<br>Tare<br>Diff. | 10.46          |               |
| 283654                    | ↓                                 | 22        | 12.13 <del>60415</del><br>1.31 | Gross<br>Tare<br>Diff. | 10.41          |               |
|                           | CCB                               | 23        | 1.31                           | Gross<br>Tare<br>Diff. | 1.31           |               |
| 283650                    | <del>██████████</del><br>(04-091) | 24        | 12.13<br>1.31                  | Gross<br>Tare<br>Diff. | 10.22<br>0.258 |               |

Dry Weight Percent Solids

Analyst: AP

Date: 04/15/99

Columbia Analytical Services  
1 Mustard Street  
Rochester, NY 14609

"S" weight initial: \_\_\_\_\_ final: \_\_\_\_\_

| Job Number                  | Client                      | Dish I.D. | Wet Weight (g) |                        | Dry Weight (g) | Percent Solid |
|-----------------------------|-----------------------------|-----------|----------------|------------------------|----------------|---------------|
| 283650<br>-amp<br>-285222   | <del>_____</del><br>(04-91) | 25        | 12.33<br>1.31  | Gross<br>Tare<br>Diff. | 10.63          |               |
| 283655                      |                             | 26        | 11.55<br>1.31  | Gross<br>Tare<br>Diff. | 10.64          |               |
| <del>283656</del><br>283656 |                             | 27        | 11.56<br>1.31  | Gross<br>Tare<br>Diff. | 10.22          |               |
| 283657                      |                             | 28        | 12.18<br>1.31  | Gross<br>Tare<br>Diff. | 10.75          |               |
| 283658                      |                             | 29        | 11.98<br>1.32  | Gross<br>Tare<br>Diff. | 10.26          |               |
| 283659                      |                             | 30        | 12.47<br>1.31  | Gross<br>Tare<br>Diff. | 11.34          |               |
| 283660                      |                             | 31        | 12.65<br>1.32  | Gross<br>Tare<br>Diff. | 11.34          |               |
| 283663                      |                             | 32        | 12.68<br>1.31  | Gross<br>Tare<br>Diff. | 10.80<br>0259  |               |

(5)

## Dry Weight Percent Solids

Columbia Analytical Services  
1 Mustard Street  
Rochester, NY 14609Analyst: APDate: 4/15/99

"S" weight initial: \_\_\_\_\_ final: \_\_\_\_\_

| Job Number      | Client                            | Dish I.D. | Wet Weight (g) |                        | Dry Weight (g) | Percent Solid |
|-----------------|-----------------------------------|-----------|----------------|------------------------|----------------|---------------|
| 283837          | <del>██████████</del><br>(04-126) | 33        | 12.36<br>1.32  | Gross<br>Tare<br>Diff. | 11.47          |               |
|                 | CCB                               | 34        | 1.32           | Gross<br>Tare<br>Diff. | 1.32           |               |
| 283842          | <del>██████████</del><br>(04-126) | 35        | 11.76<br>1.32  | Gross<br>Tare<br>Diff. | 9.32           |               |
| 283843          |                                   | 36        | 11.52<br>1.32  | Gross<br>Tare<br>Diff. | 8.54           |               |
| -dup<br>-285223 |                                   | 37        | 11.50<br>1.31  | Gross<br>Tare<br>Diff. | 8.49           |               |
| 283847          |                                   | 38        | 11.73<br>1.32  | Gross<br>Tare<br>Diff. | 10.35          |               |
| 283848          |                                   | 39        | 11.45<br>1.31  | Gross<br>Tare<br>Diff. | 9.14           |               |
| 283849          |                                   | 40        | 11.91<br>1.31  | Gross<br>Tare<br>Diff. | 10.71<br>0.200 |               |

6

Dry Weight Percent Solids

Analyst: AP

Date: 4/15/99

Columbia Analytical Services  
1 Mustard Street  
Rochester, NY 14609

"S" weight initial: \_\_\_\_\_ final: \_\_\_\_\_

| Job Number      | Client                            | Dish I.D. | Wet Weight (g) |       | Dry Weight (g) | Percent Solid |
|-----------------|-----------------------------------|-----------|----------------|-------|----------------|---------------|
| 283850          | <del>██████████</del><br>(04-126) | 41        | 12.42          | Gross | 10.13          |               |
|                 |                                   |           | 1.30           | Tare  |                |               |
|                 |                                   |           |                | Diff. |                |               |
| 283851          |                                   | 42        | 12.35          | Gross | 10.67          |               |
|                 |                                   |           | 1.31           | Tare  |                |               |
|                 |                                   |           |                | Diff. |                |               |
| 283852          |                                   | 43        | 12.48          | Gross | 10.81          |               |
|                 |                                   |           | 1.31           | Tare  |                |               |
|                 |                                   |           |                | Diff. |                |               |
| 283853          |                                   | 44        | 11.94          | Gross | 11.16          |               |
|                 |                                   |           | 1.32           | Tare  |                |               |
|                 |                                   |           |                | Diff. |                |               |
|                 | CCB                               | 45        | 1.31           | Gross | 1.31           |               |
|                 |                                   |           |                | Tare  |                |               |
|                 |                                   |           |                | Diff. |                |               |
| 283846          | <del>██████████</del><br>(04-126) | 46        | 11.42          | Gross | 10.18          |               |
|                 |                                   |           | 1.31           | Tare  |                |               |
|                 |                                   |           |                | Diff. |                |               |
| -dup<br>-285225 |                                   | 47        | 12.22          | Gross | 10.90          |               |
|                 |                                   |           | 1.31           | Tare  |                |               |
|                 |                                   |           |                | Diff. |                |               |
| 283854          |                                   | 48        | 11.90          | Gross | 10.58          |               |
|                 |                                   |           | 1.31           | Tare  |                |               |
|                 |                                   |           |                | Diff. | 0.261          |               |

Dry Weight Percent Solids

Analyst: CP

Date: 4/15/99

Columbia Analytical Services  
1 Mustard Street  
Rochester, NY 14609

"S" weight initial: \_\_\_\_\_ final: \_\_\_\_\_

| Job Number                  | Client                                                                                          | Dish I.D. | Wet Weight (g) |       | Dry Weight (g) | Percent Solid |
|-----------------------------|-------------------------------------------------------------------------------------------------|-----------|----------------|-------|----------------|---------------|
| 283855                      | <br>(04-126)   | 49        | 12.29          | Gross | 10.77          |               |
|                             |                                                                                                 |           | 1.31           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. |                |               |
| 283856                      | ↓                                                                                               | 50        | 12.47          | Gross | 10.84          |               |
|                             |                                                                                                 |           | 1.31           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. |                |               |
| 283857                      | <br>(04-127)   | 51        | 11.69          | Gross | 10.16          |               |
|                             |                                                                                                 |           | 1.31           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. |                |               |
| 283858                      | ↓                                                                                               | 52        | 11.89          | Gross | 7.38           | -claylike     |
|                             |                                                                                                 |           | 1.32           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. |                |               |
| 283859                      | ↓                                                                                               | 53        | 11.97          | Gross | 10.57          |               |
|                             |                                                                                                 |           | 1.31           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. |                |               |
| 284069                      | <br>(04-143) | 54        | 12.44          | Gross | 10.97          |               |
|                             |                                                                                                 |           | 1.31           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. |                |               |
| <del>284106</del><br>284071 |                                                                                                 | 55        | 13.73          | Gross | 11.82          |               |
|                             |                                                                                                 |           | 1.31           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. |                |               |
|                             | CCB                                                                                             | 56        |                | Gross | 1.32           |               |
|                             |                                                                                                 |           | 1.32           | Tare  |                |               |
|                             |                                                                                                 |           |                | Diff. | 0.262          |               |

8

Dry Weight Percent Solids

Columbia Analytical Services  
1 Mustard Street  
Rochester, NY 14609

Analyst: AP

Date: 4/15/99

"S" weight initial: \_\_\_\_\_ final: \_\_\_\_\_

| Job Number       | Client                                                                                          | Dish I.D. | Wet Weight (g) |       | Dry Weight (g) | Percent Solid |
|------------------|-------------------------------------------------------------------------------------------------|-----------|----------------|-------|----------------|---------------|
| 284072           | <br>(64-143)   | 57        | 11.91          | Gross | 9.52           |               |
|                  |                                                                                                 |           | 1.31           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. |                |               |
| - dup<br>-285228 |                                                                                                 | 58        | 12.61          | Gross | 10.15          |               |
|                  |                                                                                                 |           | 1.31           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. |                |               |
| 284073           | ↓                                                                                               | 59        | 14.24          | Gross | 10.76          |               |
|                  |                                                                                                 |           | 1.31           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. |                |               |
| 284180           | <br>(04-126) | 60        | 12.11          | Gross | 10.19          |               |
|                  |                                                                                                 |           | 1.31           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. |                |               |
| 284182           | ↓                                                                                               | 61        | 11.83          | Gross | 10.25          |               |
|                  |                                                                                                 |           | 1.32           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. |                |               |
| 284183           | ↓                                                                                               | 62        | 13.48          | Gross | 11.95          |               |
|                  |                                                                                                 |           | 1.30           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. |                |               |
| 284185           | ↓                                                                                               | 63        | 12.54          | Gross | 10.66          |               |
|                  |                                                                                                 |           | 1.31           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. |                |               |
| 284619           | <br>(04-166) | 64        | 8.74           | Gross | 4.41           | Paint-like    |
|                  |                                                                                                 |           | 1.31           | Tare  |                |               |
|                  |                                                                                                 |           |                | Diff. | 0.263          |               |

c:\1\1\g\forms\dwps.wk1

\*entire sample used

**Analyst:**

Date:

[illegible]

c:\1\1\g\forms\dwps.wk1

entire sample used

Columbia Analytical Services  
1 Mustard St., Rochester, NY 14608-0859

General Chemistry Analytical Run Cover Sheet

Analyst: Shawn P. Kelly Date: 04/16/99

Analysis: WPS Instrument: Top Leader

Quality Control:

|                        | Log<br>Book # | Log Book<br>Date | Log Book<br>Page # | Stock Sol<br>(m/Ls) | Stock Sol<br>(mg/L) | Final Vol<br>(mLs) | True Value<br>(mg/L) |
|------------------------|---------------|------------------|--------------------|---------------------|---------------------|--------------------|----------------------|
| a) Standards Prep.:    |               |                  |                    |                     |                     |                    |                      |
| b) I/CCV Preparation:  |               |                  |                    |                     |                     |                    |                      |
| c) LCS Preparation:    |               |                  |                    |                     |                     |                    |                      |
| d) Matrix Spike Prep.: |               |                  |                    |                     |                     |                    |                      |

Instrument log filled in? (Y) (N)

Comments:

Packages:

a) Chains Signed? (Y) (N)

b) Copy and attach Standards Preparation.

Production:

|                    | Start<br>Time | End<br>Time | Total<br>(minutes) |
|--------------------|---------------|-------------|--------------------|
| Preparation Time : |               |             |                    |
| Analytical Time:   |               |             |                    |
| Finish Time:       |               |             |                    |

# of Samples (including Mtx QC): \_\_\_\_\_

Repeats due to Sample: \_\_\_\_\_

Repeats due to Error: \_\_\_\_\_

Comments:

***METALS DATA***

***TCLP***

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 D1

Date Sampled :04/06/99  
Date Received:04/07/99

Order #:283561  
Submission #:9904000108

Sample Matrix:SOIL/SEDIMENT

| ANALYTE  | PQL      | RESULT    | UNITS | DATE<br>ANALYZED | ANALYTICAL<br>DILUTION |
|----------|----------|-----------|-------|------------------|------------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99         | 1.0                    |
| CADMIUM  | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |
| CHROMIUM | 0.100    | 0.463     | MG/L  | 04/28/99         | 1.0                    |
| LEAD     | 0.100    | 0.373     | MG/L  | 04/28/99         | 1.0                    |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99         | 10.0                   |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 D2

|                        |                         |                             |
|------------------------|-------------------------|-----------------------------|
| Date Sampled :04/06/99 | Order #:283562          | Sample Matrix:SOIL/SEDIMENT |
| Date Received:04/07/99 | Submission #:9904000108 |                             |

| ANALYTE  | PQL      | RESULT    | UNITS | DATE ANALYZED | ANALYTICAL DILUTION |
|----------|----------|-----------|-------|---------------|---------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99      | 1.0                 |
| CADMIUM  | 0.100    | 0.208     | MG/L  | 04/28/99      | 1.0                 |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| LEAD     | 0.100    | 14.5      | MG/L  | 04/28/99      | 1.0                 |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99      | 10.0                |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |

Data reported following TCLP Toxicity Characteristics Leaching Procedure Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-2

# COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 D3

|                        |                         |                             |
|------------------------|-------------------------|-----------------------------|
| Date Sampled :04/06/99 | Order #:283563          | Sample Matrix:SOIL/SEDIMENT |
| Date Received:04/07/99 | Submission #:9904000108 |                             |

| ANALYTE  | PQL      | RESULT    | UNITS | DATE ANALYZED | ANALYTICAL DILUTION |
|----------|----------|-----------|-------|---------------|---------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99      | 1.0                 |
| CADMIUM  | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| LEAD     | 0.100    | 3.06      | MG/L  | 04/28/99      | 1.0                 |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99      | 10.0                |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |

Data reported following TCLP Toxicity Characteristics Leaching Procedure, Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-3

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 D4

|                        |                         |                             |
|------------------------|-------------------------|-----------------------------|
| Date Sampled :04/06/99 | Order #:283564          | Sample Matrix:SOIL/SEDIMENT |
| Date Received:04/07/99 | Submission #:9904000108 |                             |

| ANALYTE  | PQL      | RESULT    | UNITS | DATE ANALYZED | ANALYTICAL DILUTION |
|----------|----------|-----------|-------|---------------|---------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99      | 1.0                 |
| CADMIUM  | 0.100    | 0.811     | MG/L  | 04/28/99      | 1.0                 |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| LEAD     | 0.100    | 20.3      | MG/L  | 04/28/99      | 1.0                 |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99      | 10.0                |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 D5

|                        |                         |                             |
|------------------------|-------------------------|-----------------------------|
| Date Sampled :04/06/99 | Order #:283565          | Sample Matrix:SOIL/SEDIMENT |
| Date Received:04/07/99 | Submission #:9904000108 |                             |

| ANALYTE  | PQL      | RESULT    | UNITS | DATE<br>ANALYZED | ANALYTICAL<br>DILUTION |
|----------|----------|-----------|-------|------------------|------------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99         | 1.0                    |
| CADMIUM  | 0.100    | 0.117     | MG/L  | 04/28/99         | 1.0                    |
| CHROMIUM | 0.100    | 0.141     | MG/L  | 04/28/99         | 1.0                    |
| LEAD     | 0.100    | 41.0      | MG/L  | 04/28/99         | 1.0                    |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99         | 10.0                   |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-5

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID : D055 D7

|                         |                          |                              |
|-------------------------|--------------------------|------------------------------|
| Date Sampled : 04/06/99 | Order #: 283567          | Sample Matrix: SOIL/SEDIMENT |
| Date Received: 04/07/99 | Submission #: 9904000108 |                              |

| ANALYTE  | PQL      | RESULT    | UNITS | DATE ANALYZED | ANALYTICAL DILUTION |
|----------|----------|-----------|-------|---------------|---------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99      | 1.0                 |
| CADMIUM  | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| LEAD     | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99      | 10.0                |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |

Data reported following TCLP Toxicity Characteristics Leaching Procedure Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-7

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 S1

Date Sampled :04/06/99  
Date Received:04/07/99

Order #:283568  
Submission #:9904000108

Sample Matrix:SOIL/SEDIMENT

| ANALYTE  | PQL      | RESULT    | UNITS | DATE ANALYZED | ANALYTICAL DILUTION |
|----------|----------|-----------|-------|---------------|---------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99      | 1.0                 |
| CADMIUM  | 0.100    | 0.333     | MG/L  | 04/28/99      | 1.0                 |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| LEAD     | 0.100    | 19.8      | MG/L  | 04/28/99      | 1.0                 |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99      | 10.0                |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |

Data reported following TCLP Toxicity Characteristics Leaching Procedure Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-8

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID : D055 S2

|                         |                          |                              |
|-------------------------|--------------------------|------------------------------|
| Date Sampled : 04/06/99 | Order #: 283569          | Sample Matrix: SOIL/SEDIMENT |
| Date Received: 04/07/99 | Submission #: 9904000108 |                              |

| ANALYTE  | PQL      | RESULT    | UNITS | DATE ANALYZED | ANALYTICAL DILUTION |
|----------|----------|-----------|-------|---------------|---------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99      | 1.0                 |
| CADMIUM  | 0.100    | 0.320     | MG/L  | 04/28/99      | 1.0                 |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| LEAD     | 0.100    | 18.1      | MG/L  | 04/28/99      | 1.0                 |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99      | 10.0                |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |

Data reported following TCLP Toxicity Characteristics Leaching Procedure Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-9

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 S3

Date Sampled :04/06/99  
Date Received:04/07/99

Order #:283570  
Submission #:9904000108

Sample Matrix:SOIL/SEDIMENT

| ANALYTE  | PQL      | RESULT    | UNITS | DATE<br>ANALYZED | ANALYTICAL<br>DILUTION |
|----------|----------|-----------|-------|------------------|------------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99         | 1.0                    |
| CADMIUM  | 0.100    | 0.300     | MG/L  | 04/28/99         | 1.0                    |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |
| LEAD     | 0.100    | 17.7      | MG/L  | 04/28/99         | 1.0                    |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99         | 10.0                   |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |

Data reported following TCLP Toxicity Characteristics Leaching Procedure Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-10

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID : D055 S4

|                         |                          |                              |
|-------------------------|--------------------------|------------------------------|
| Date Sampled : 04/06/99 | Order #: 283571          | Sample Matrix: SOIL/SEDIMENT |
| Date Received: 04/07/99 | Submission #: 9904000108 |                              |

| ANALYTE  | PQL      | RESULT    | UNITS | DATE ANALYZED | ANALYTICAL DILUTION |
|----------|----------|-----------|-------|---------------|---------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99      | 1.0                 |
| CADMIUM  | 0.100    | 0.387     | MG/L  | 04/28/99      | 1.0                 |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |
| LEAD     | 0.100    | 19.5      | MG/L  | 04/28/99      | 1.0                 |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99      | 10.0                |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99      | 1.0                 |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99      | 1.0                 |

COLUMBIA ANALYTICAL SERVICES

Reported: 05/17/99

NYS DEC - Region 9  
Project Reference: Marsh Valve  
Client Sample ID :D055 S5

Date Sampled :04/06/99  
Date Received:04/07/99

Order #:283572  
Submission #:9904000108

Sample Matrix:SOIL/SEDIMENT

| ANALYTE  | PQL      | RESULT    | UNITS | DATE<br>ANALYZED | ANALYTICAL<br>DILUTION |
|----------|----------|-----------|-------|------------------|------------------------|
| ARSENIC  | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| BARIUM   | 1.00     | 1.00 U    | MG/L  | 04/28/99         | 1.0                    |
| CADMIUM  | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |
| CHROMIUM | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |
| LEAD     | 0.100    | 0.159     | MG/L  | 04/28/99         | 1.0                    |
| MERCURY  | 0.000300 | 0.00300 U | MG/L  | 04/16/99         | 10.0                   |
| SELENIUM | 0.500    | 0.500 U   | MG/L  | 04/28/99         | 1.0                    |
| SILVER   | 0.100    | 0.100 U   | MG/L  | 04/28/99         | 1.0                    |

Data reported following TCLP Toxicity Characteristics Leaching Procedure. Federal Register, Part 261, Vol. 55, No. 126, June 29, 1990.

METALS-12

## INORGANIC QUALITY CONTROL SUMMARY

## ACCURACY

|          | ORIGINAL | DUPLICATE | RPD | FOUND | ADDED | % REC. | LIMITS   |
|----------|----------|-----------|-----|-------|-------|--------|----------|
| ARSENIC  | 0.500 U  | 0.500 U   | NC  | 4.27  | 5.00  | 85     | 75 - 125 |
|          | 1.00 U   | 1.00 U    | NC  | 4.69  | 5.00  | 94     | 75 - 125 |
|          | 0.100 U  | 0.100 U   | NC  | 1.02  | 1.00  | 103    | 75 - 125 |
| CADMIUM  | 0.100 U  | 0.100 U   | NC  | 4.98  | 5.00  | 100    | 75 - 125 |
|          | 0.159    | 0.142     | 12  | 5.18  | 5.00  | 100    | 75 - 125 |
| CHROMIUM | 0.500 U  | 0.500 U   | NC  | 0.975 | 1.00  | 98     | 75 - 125 |
|          | 0.100 U  | 0.100 U   | NC  | 4.92  | 5.00  | 98     | 75 - 125 |

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 05/17/99  
CAS Order # : 283572 - D055 S5  
Client : NYS DEC - Region 9  
Marsh Valve  
Reported Units: MG/L  
Run # : 37143

PRECISION                      ACCURACY

| PRECISION |           | ACCURACY |        |        |                    |
|-----------|-----------|----------|--------|--------|--------------------|
| ORIGINAL  | DUPLICATE | RPD      | FOUND  | ADDED  | % REC.      LIMITS |
| 0.00300 U | 0.00300 U | NC       | 0.0106 | 0.0100 | 106      75 - 125  |

MERCURY

0280

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: 9904000108  
Client: NYS DEC - Region 9  
Marsh Valve

BLANK SPIKES

| BLANK      | FOUND  | ADDED  | % REC | LIMITS   | RUN   | UNITS |
|------------|--------|--------|-------|----------|-------|-------|
| MERCURY    |        |        |       |          |       |       |
| 0.000300 U | 0.0110 | 0.0100 | 110   | 48 - 182 | 37143 | MG/L  |
| ARSENIC    |        |        |       |          |       |       |
| 0.500 U    | 5.34   | 5.00   | 107   | 80 - 120 | 37560 | MG/L  |
| BARIUM     |        |        |       |          |       |       |
| 1.00 U     | 4.92   | 5.00   | 98    | 80 - 120 | 37560 | MG/L  |
| CADMIUM    |        |        |       |          |       |       |
| 0.100 U    | 1.09   | 1.00   | 109   | 80 - 120 | 37560 | MG/L  |
| CHROMIUM   |        |        |       |          |       |       |
| 0.100 U    | 5.19   | 5.00   | 104   | 80 - 120 | 37560 | MG/L  |
| LEAD       |        |        |       |          |       |       |
| 0.100 U    | 5.30   | 5.00   | 106   | 80 - 120 | 37560 | MG/L  |
| SELENIUM   |        |        |       |          |       |       |
| 0.500 U    | 1.06   | 1.00   | 106   | 80 - 120 | 37560 | MG/L  |
| SILVER     |        |        |       |          |       |       |
| 0.100 U    | 5.16   | 5.00   | 103   | 80 - 120 | 37560 | MG/L  |

0284

## INORGANIC CLP

-2A-

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS

SDG NO.: 10406

Initial Calibration Source: LABPREP

Continuing Calibration Source: LABPREP

Concentration Units: ug/L

| Analyte  | Initial Calibration |         |       | Continuing Calibration |         |       |         |       | M  |
|----------|---------------------|---------|-------|------------------------|---------|-------|---------|-------|----|
|          | True                | Found   | %R(1) | True                   | Found   | %R(1) | Found   | %R(1) |    |
| Arsenic  | 2000.0              | 1953.00 | 97.7  | 2000.0                 | 2017.00 | 100.9 | 1951.00 | 97.6  | P  |
| Barium   | 10000.0             | 9731.00 | 97.3  | 10000.0                | 9690.00 | 96.9  | 9415.00 | 94.2  | P  |
| Cadmium  | 1000.0              | 1000.00 | 100.0 | 1000.0                 | 1001.00 | 100.1 | 1035.00 | 103.5 | P  |
| Chromium | 500.0               | 508.10  | 101.6 | 500.0                  | 511.00  | 102.2 | 505.70  | 101.1 | P  |
| Lead     | 1000.0              | 986.50  | 98.7  | 1000.0                 | 981.30  | 98.1  | 1015.00 | 101.5 | P  |
| Mercury  | 3.0                 | 3.02    | 100.8 | 3.0                    | 3.02    | 100.6 | 2.98    | 99.5  | CV |
| Selenium | 1000.0              | 1048.00 | 104.8 | 1000.0                 | 982.20  | 98.2  | 946.80  | 94.7  | P  |
| Silver   | 500.0               | 506.40  | 101.3 | 500.0                  | 506.60  | 101.3 | 503.40  | 100.7 | P  |

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

0202

## INORGANIC CLP

-2A-

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS

SDG NO.: 10406

Initial Calibration Source:

Continuing Calibration Source: LABPREP

Concentration Units: ug/L

| Analyte  | Initial Calibration |       |       | Continuing Calibration |         |       |         |       | M  |
|----------|---------------------|-------|-------|------------------------|---------|-------|---------|-------|----|
|          | True                | Found | %R(1) | True                   | Found   | %R(1) | Found   | %R(1) |    |
| Arsenic  |                     |       |       | 2000.0                 | 1991.00 | 99.6  | 1983.00 | 99.2  | P  |
| Barium   |                     |       |       | 10000.0                | 9210.00 | 92.1  | 9360.00 | 93.6  | P  |
| Cadmium  |                     |       |       | 1000.0                 | 1054.00 | 105.4 | 1055.00 | 105.5 | P  |
| Chromium |                     |       |       | 500.0                  | 510.30  | 102.1 | 513.50  | 102.7 | P  |
| Lead     |                     |       |       | 1000.0                 | 1033.00 | 103.3 | 1052.00 | 105.2 | P  |
| Mercury  |                     |       |       | 3.0                    | 3.42    | 113.9 | 3.36    | 112.0 | CV |
| Selenium |                     |       |       | 1000.0                 | 979.40  | 97.9  | 981.60  | 98.2  | P  |
| Silver   |                     |       |       | 500.0                  | 494.70  | 98.9  | 506.80  | 101.4 | P  |

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

0203

INORGANIC CLP

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS

SDG NO.: 10406

Initial Calibration Source:

Continuing Calibration Source: LABPREP

Concentration Units: ug/L

| Analyte | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | M  |
|---------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|----|
|         | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |    |
| Mercury |                     |       |       | 3.0                    | 3.00  | 99.9  | 2.99  | 99.8  | CV |

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

0284

## INORGANIC CLP

-2B-

## CRDL STANDARD FOR AA AND ICP

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

SDG No.: 10406

AA CRDL Standard Source:

ICP CRDL Standard Source: CPI

Concentration Units: ug/L

| Analyte  | CRDL Standard for AA |       |       | CRDL Standard for ICP |        |       |        |       |
|----------|----------------------|-------|-------|-----------------------|--------|-------|--------|-------|
|          | True                 | Found | %R    | Initial               |        | Final |        |       |
|          |                      |       |       | True                  | Found  | %R    | Found  | %R    |
| Arsenic  |                      |       |       | 20.0                  | 22.20  | 111.0 | 8.60   | 43.0  |
| Barium   |                      |       |       |                       |        |       |        |       |
| Cadmium  |                      |       |       | 10.0                  | 12.30  | 123.0 | 11.90  | 119.0 |
| Chromium |                      |       |       | 20.0                  | 20.80  | 104.0 | 21.80  | 109.0 |
| Lead     |                      |       |       | 106.0                 | 113.80 | 107.4 | 120.90 | 114.1 |
| Mercury  | 0.4                  | 0.40  | 100.7 |                       |        |       |        |       |
| Selenium |                      |       |       | 10.0                  | 66.20  | 662.0 | 33.20  | 332.0 |
| Silver   |                      |       |       | 20.0                  | 21.60  | 108.0 | 20.10  | 100.5 |

0285

## INORGANIC CLP

-3-

## BLANKS

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

SDG NO.: 10406Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| 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 |                           |   |    |
| Arsenic  | 500.0                                | U | 500.0                                  | U | 500.0  | U | 500.0  | U | 500.000                   | U | P  |
| Barium   | 1000.0                               | U | 1000.0                                 | U | 1000.0 | U | 1000.0 | U | 1000.000                  | U | P  |
| Cadmium  | 100.0                                | U | 100.0                                  | U | 100.0  | U | 100.0  | U | 100.000                   | U | P  |
| Chromium | 100.0                                | U | 100.0                                  | U | 100.0  | U | 100.0  | U | 100.000                   | U | P  |
| Lead     | 100.0                                | U | 100.0                                  | U | 100.0  | U | 100.0  | U | 100.000                   | U | P  |
| Mercury  | 0.3                                  | U | 0.3                                    | U | 0.3    | U | 0.3    | U | 3.000                     | U | CV |
| Selenium | 500.0                                | U | 500.0                                  | U | 500.0  | U | 500.0  | U | 500.000                   | U | P  |
| Silver   | 100.0                                | U | 100.0                                  | U | 100.0  | U | 100.0  | U | 100.000                   | U | P  |

0286

## INORGANIC CLP

-3-

## BLANKS

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

SDG NO.: 10406Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

| 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 |                           |   |    |
| Arsenic  |                                      |   | 500.0                                  | U |     |   |     |   |                           |   | P  |
| Barium   |                                      |   | 1000.0                                 | U |     |   |     |   |                           |   | P  |
| Cadmium  |                                      |   | 100.0                                  | U |     |   |     |   |                           |   | P  |
| Chromium |                                      |   | 100.0                                  | U |     |   |     |   |                           |   | P  |
| Lead     |                                      |   | 100.0                                  | U |     |   |     |   |                           |   | P  |
| Mercury  |                                      |   | 0.3                                    | U | 0.3 | U | 0.3 | U |                           |   | CV |
| Selenium |                                      |   | 500.0                                  | U |     |   |     |   |                           |   | P  |
| Silver   |                                      |   | 100.0                                  | U |     |   |     |   |                           |   | P  |

0287

## INORGANIC CLP

-4-

## ICP INTERFERENCE CHECK SAMPLE

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

SDG NO.: 10406

ICP ID Number: PS3000

ICS Source: CPI

Concentration Units): ug/L

| Analyte  | True  |        | Initial Found |        |      | Final Found |        |       |
|----------|-------|--------|---------------|--------|------|-------------|--------|-------|
|          | Sol.A | Sol.AB | Sol.A         | Sol.AB | %R   | Sol.A       | Sol.AB | %R    |
| Arsenic  |       |        | -203          | -203.4 |      | -209        | -317.0 |       |
| Barium   |       | 500    | 0             | 460.9  | 92.2 | -1          | 449.0  | 89.8  |
| Cadmium  |       | 1000   | 1             | 955.0  | 95.5 | 0           | 1006.0 | 100.6 |
| Chromium |       | 500    | -3            | 468.3  | 93.7 | -3          | 474.8  | 95.0  |
| Lead     |       | 1000   | -27           | 917.7  | 91.8 | -69         | 945.9  | 94.6  |
| Selenium |       |        | -11           | -43.5  |      | 30          | -43.2  |       |
| Silver   |       | 1000   | -4            | 990.6  | 99.1 | -6          | 982.3  | 98.2  |

0268

## INORGANIC CLP

-5B-

## POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

D055 S5A

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

SDG NO.: 10406

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

| Analyte  | Control<br>Limit %R | Spiked Sample<br>Result (SSR) | C | Sample<br>Result (SR) | C | Spike<br>Added (SA) | %R    | Q | M |
|----------|---------------------|-------------------------------|---|-----------------------|---|---------------------|-------|---|---|
| Arsenic  |                     | 4218.00                       |   | -624.20               | U | 5000.0              | 84.4  |   | P |
| Barium   |                     | 4769.00                       |   | 273.20                | U | 5000.0              | 95.4  |   | P |
| Cadmium  |                     | 1010.00                       |   | 2.20                  | U | 1000.0              | 101.0 |   | P |
| Chromium |                     | 4924.00                       |   | 98.30                 | U | 5000.0              | 98.5  |   | P |
| Lead     |                     | 5105.00                       |   | 158.70                |   | 5000.0              | 98.9  |   | P |
| Selenium |                     | 998.70                        |   | 67.00                 | U | 1000.0              | 99.9  |   | P |
| Silver   |                     | 4847.00                       |   | -5.10                 | U | 5000.0              | 96.9  |   | P |

Comments:

## INORGANIC CLP

-9-

## ICP SERIAL DILUTIONS

SAMPLE NO.

D055 S5L

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

SDG NO.: 10406

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

| Analyte  | Initial Sample<br>Result (I) |   | Serial Dilution<br>Result (S) |   | % Differ-<br>ence | Q | M |
|----------|------------------------------|---|-------------------------------|---|-------------------|---|---|
|          |                              | C |                               | C |                   |   |   |
| Arsenic  | 500.00                       | U | 2500.00                       | U |                   |   | P |
| Barium   | 1000.00                      | U | 5000.00                       | U |                   |   | P |
| Cadmium  | 100.00                       | U | 500.00                        | U |                   |   | P |
| Chromium | 100.00                       | U | 500.00                        | U |                   |   | P |
| Lead     | 158.70                       |   | 500.00                        | U | 100.0             |   | P |
| Selenium | 500.00                       | U | 2500.00                       | U |                   |   | P |
| Silver   | 100.00                       | U | 500.00                        | U |                   |   | P |

0250

Idl date: 04/16/99

Linear Range date: 10/02/98

| Analyte | Leeman IDL<br>(ppb) | Leeman Linear Range<br>(ppm) |
|---------|---------------------|------------------------------|
| Ag      | 3.25                | 5                            |
| Al      | 50.9                | 500                          |
| As      | 90.3                | 5                            |
| Ba      | 13.6                | 50                           |
| Be      | 0.941               | 10                           |
| Ca      | 145                 | 1000                         |
| Cd      | 1.58                | 30                           |
| Co      | 7.12                | 40                           |
| Cr      | 3.96                | 40                           |
| Cu      | 5.38                | 100                          |
| Fe      | 21.0                | 200                          |
| K       | 431                 | 400                          |
| Mg      | 156                 | 500                          |
| Mn      | 2.51                | 40                           |
| Na      | 222                 | 300                          |
| Ni      | 8.53                | 100                          |
| Pb      | 26.8                | 100                          |
| Sb      | 56.0                | 10                           |
| Se      | 96.6                | 10                           |
| Tl      | 74.3                | 50                           |
| V       | 18.9                | 40                           |
| Zn      | 1.98                | 50                           |
| B       |                     |                              |
| Mo      |                     |                              |
| Ti      |                     |                              |

| Analyte       | 4100ZL #2 (ppb)   | 4100ZL (ppb)      | FIMS (ppb)         |
|---------------|-------------------|-------------------|--------------------|
| <b>Pb</b>     | 0.708<br>04/20/99 |                   |                    |
| <b>As</b>     | 3.37<br>02/09/99  | 1.84<br>04/01/99  |                    |
| <b>Tl</b>     | 2.31<br>10/08/98  | 1.43<br>04/13/99  |                    |
| <b>Se</b>     | 0.790<br>02/03/99 | 0.900<br>03/25/99 |                    |
| <b>Cu</b>     |                   | 0.542<br>12/04/97 |                    |
| <b>Hg IDL</b> |                   |                   | 0.0379<br>01/14/99 |
| <b>Sb</b>     | 5.98<br>11/06/98  | 2.41<br>9/22/98   |                    |

Hg Water MDL: 0.0418ppb (01/05/99)  
Hg Soil MDL: 0.0217mg/kg (10/02/97)

## Form 11. ICP Interelement Correction Factors

SNG No.: 10406

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

Instrument ID: Leeman ICP

Date: 10/22/98

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |            |            |            |            |
|-----------|-------------------------|------------------------------------------|------------|------------|------------|------------|
|           |                         | Al                                       | Ca         | Fe         | Mg         | Na         |
| Aluminum  | 308.22                  | 0.0000000                                | -0.0000086 | -0.0001396 | -0.0000116 | -0.0000455 |
| Antimony  | 206.83                  | 0.0002013                                | 0.0002181  | 0.0000742  | 0.0002919  | 0.0000143  |
| Arsenic   | 193.70                  | -0.0009153                               | 0.0002165  | -0.0001441 | 0.0001828  | -0.0000046 |
| Barium    | 455.40                  | -0.0000029                               | -0.0000021 | 0.0000025  | 0.0000058  | 0.0000007  |
| Beryllium | 234.86                  | 0.0000002                                | -0.0000007 | 0.0000272  | -0.0000017 | -0.0000004 |
| Cadmium   | 214.44                  | -0.0000265                               | 0.0000002  | 0.0000296  | -0.0000012 | -0.0000007 |
| Calcium   | 317.93                  | -0.0000359                               | 0.0000000  | -0.0000373 | 0.0000098  | -0.0000410 |
| Chromium  | 267.72                  | 0.0000027                                | 0.0000021  | 0.0000087  | 0.0000051  | 0.0000011  |
| Cobalt    | 228.62                  | 0.0000012                                | 0.0000083  | 0.0000340  | 0.0000196  | -0.0000016 |
| Copper    | 324.75                  | 0.0000008                                | 0.0000052  | 0.0000157  | -0.0000001 | -0.0000007 |
| Iron      | 259.94                  | -0.0000236                               | -0.0000366 | 0.0000000  | -0.0000348 | -0.0000398 |
| Lead      | 220.35                  | -0.0003856                               | 0.0000475  | 0.0001373  | 0.0000960  | 0.0000182  |
| Magnesium | 279.08                  | -0.0000393                               | -0.0000078 | 0.0001996  | 0.0000000  | -0.0000292 |
| Manganese | 257.61                  | 0.0000004                                | -0.0000018 | 0.0000117  | 0.0000110  | 0.0000047  |
| Nickel    | 231.60                  | -0.0000011                               | 0.0000035  | 0.0000120  | 0.0000048  | -0.0000009 |
| Potassium | 766.49                  | 0.0000429                                | 0.0001343  | 0.0000909  | 0.0001700  | 0.0001800  |
| Selenium  | 196.00                  | 0.0000618                                | 0.0000455  | -0.0000452 | 0.0000620  | 0.0000096  |
| Silver    | 328.07                  | 0.0000040                                | 0.0000099  | 0.0000069  | 0.0000053  | 0.0000030  |
| Sodium    | 589.59                  | -0.0000403                               | 0.0001193  | 0.0000090  | 0.0000041  | 0.0000000  |
| Thallium  | 276.80                  | 0.0000912                                | -0.0000338 | -0.0000523 | -0.0001292 | 0.0000397  |
| Vanadium  | 310.23                  | 0.0000114                                | 0.0000231  | -0.0000001 | 0.0000017  | 0.0000028  |
| Zinc      | 213.86                  | 0.0000059                                | 0.0000047  | 0.0000173  | 0.0000429  | -0.0000001 |

0293

INORGANIC CLP

-12-

ICP LINEAR RANGES (QUARTERLY)

Contract: 9904000108

Lab Code:

Case No.: SH999

SAS No.:

SDG NO.: 10406

ICP ID Number: PS3000

Date: 10/02/98

| Analyte  | Integ.<br>Time<br>(Sec.) | Concentration<br>(ug/L) | M |
|----------|--------------------------|-------------------------|---|
| Arsenic  | 3.00                     | 5000.0                  | P |
| Barium   | 3.00                     | 50000.0                 | P |
| Cadmium  | 3.00                     | 30000.0                 | P |
| Chromium | 3.00                     | 40000.0                 | P |
| Lead     | 3.00                     | 100000.0                | P |
| Selenium | 3.00                     | 10000.0                 | P |
| Silver   | 3.00                     | 5000.0                  | P |

Comments:

0294

## INORGANIC CLP

-14-

## ANALYSIS RUN LOG

Contract: 9904000108

Lab Code

Case No.: SH999

SAS No.:

SDG No.: 10406

Instrument ID Number: PS3000

Method: P

Start Date: 4/28/99

End Date: 4/28/99

| Sample No. | D/F  | Time  | % R | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |
|------------|------|-------|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|
|            |      |       |     | A L      | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K | S E | A G | N A | T L | V Z |
| Std1Rep1   | 1.00 | 15:20 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| Std1Rep2   | 1.00 | 15:21 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| Std2Rep1   | 1.00 | 15:24 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| Std2Rep2   | 1.00 | 15:25 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| ICV        | 1.00 | 15:29 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| ICB        | 1.00 | 15:32 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| CR II      | 1.00 | 15:35 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| ICSAI      | 1.00 | 15:39 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| ICSABI     | 1.00 | 15:42 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| CCV        | 1.00 | 15:46 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| CCB        | 1.00 | 15:49 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| BW         | 1.00 | 15:52 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| LCSW       | 1.00 | 15:56 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 D1    | 1.00 | 15:59 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 D2    | 1.00 | 16:03 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 D3    | 1.00 | 16:06 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 D4    | 1.00 | 16:09 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 D5    | 1.00 | 16:13 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 D6    | 1.00 | 16:16 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 D7    | 1.00 | 16:19 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S1    | 1.00 | 16:23 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| CCV        | 1.00 | 16:26 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| CCB        | 1.00 | 16:30 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S2    | 1.00 | 16:33 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S3    | 1.00 | 16:36 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S4    | 1.00 | 16:40 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S5    | 1.00 | 16:43 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S5D   | 1.00 | 16:47 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S5S   | 1.00 | 16:50 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S5A   | 1.00 | 16:53 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| D055 S5L   | 5.00 | 16:57 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |
| ZZZZZ      | 1.00 | 17:00 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |
| ZZZZZ      | 1.00 | 17:04 |     |          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |     |     |     |     |     |
| CCV        | 1.00 | 17:07 |     |          |     | X   | X   |     | X   | X   |     |     |     | X   |     |     |     |     |     | X | X   |     |     |     |     |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

## INORGANIC CLP

-14-

## ANALYSIS RUN LOG

Contract: 9904000108

Lab Code

Case No.: SH999

SAS No.:

SDG No.: 10406Instrument ID Number: PS3000Method: PStart Date: 4/28/99End Date: 4/28/99

| Sample No. | D/F  | Time  | % R | Analytes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|------------|------|-------|-----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|            |      |       |     | A L      | S B | A S | B A | B E | C D | C A | C R | C O | C U | F E | P B | M G | M N | H G | N I | K E | S G | A A | N L | T V | Z N | C N |  |
| CCB        | 1.00 | 17:10 |     |          |     | X   | X   |     | X   |     | X   |     |     | X   |     |     |     |     | X   | X   |     |     |     |     |     |     |  |
| CRIF       | 1.00 | 17:14 |     |          |     | X   | X   |     | X   |     | X   |     |     | X   |     |     |     |     | X   | X   |     |     |     |     |     |     |  |
| ICSAF      | 1.00 | 17:17 |     |          |     | X   | X   |     | X   |     | X   |     |     | X   |     |     |     |     | X   | X   |     |     |     |     |     |     |  |
| ICSABF     | 1.00 | 17:21 |     |          |     | X   | X   |     | X   |     | X   |     |     | X   |     |     |     |     | X   | X   |     |     |     |     |     |     |  |
| CCV        | 1.00 | 17:24 |     |          |     | X   | X   |     | X   |     | X   |     |     | X   |     |     |     |     | X   | X   |     |     |     |     |     |     |  |
| CCB        | 1.00 | 17:27 |     |          |     | X   | X   |     | X   |     | X   |     |     | X   |     |     |     |     | X   | X   |     |     |     |     |     |     |  |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

## INORGANIC CLP

-14-

## ANALYSIS RUN LOG

Contract: 9904000108

Lab Code

Case No.: SH999

SAS No.:

SDG No.: 10406

Instrument ID Number: FIMS

Method: CV

Start Date: 4/16/99

End Date: 4/16/99

| Sample No.  | D/F  | Time  | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-------------|------|-------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|             |      |       |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>E | S<br>E | A<br>G | A<br>L | T<br>L | V<br>N |
| Calib Blank | 1.00 | 10:26 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| 0.5ppb std  | 1.00 | 10:28 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| 1ppb std    | 1.00 | 10:29 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| 2ppb std    | 1.00 | 10:31 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| 5ppb std    | 1.00 | 10:33 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| 10ppb std   | 1.00 | 10:35 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| ICV         | 1.00 | 10:37 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| ICB         | 1.00 | 10:39 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| CRII        | 1.00 | 10:40 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| CCV         | 1.00 | 10:42 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| CCB         | 1.00 | 10:44 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| ZZZZ        | 1.00 | 10:46 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 10:48 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 10:50 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 10:51 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 10:53 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 10:55 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 10:57 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 10:59 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:01 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:02 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV         | 1.00 | 11:04 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| CCB         | 1.00 | 11:06 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:08 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:10 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:11 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:13 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:15 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:17 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:19 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:21 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:22 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZ       | 1.00 | 11:24 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CCV         | 1.00 | 11:26 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

## INORGANIC CLP

-14-

## ANALYSIS RUN LOG

Contract: 9904000108

Lab Code

Case No.: SH999

SAS No.:

SDG No.: 10406

Instrument ID Number: FIMS

Method: CV

Start Date: 4/16/99

End Date: 4/16/99

| Sample 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 |
| CCB        | 1.00 | 11:28 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| ZZZZZ      | 1.00 | 11:30 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 11:32 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 11:33 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 11:35 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 11:37 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 11:39 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| PBW        | 1.00 | 11:41 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| LCSW       | 1.00 | 11:42 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| ZZZZZ      | 1.00 | 11:44 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| D055 D1    | 1.00 | 11:46 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| CCV        | 1.00 | 11:48 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| CCB        | 1.00 | 11:50 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 D2    | 1.00 | 11:51 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 D3    | 1.00 | 11:53 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 D4    | 1.00 | 11:55 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 D5    | 1.00 | 11:57 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 D6    | 1.00 | 11:59 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 D7    | 1.00 | 12:01 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 S1    | 1.00 | 12:02 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 S2    | 1.00 | 12:04 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 S3    | 1.00 | 12:06 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 S4    | 1.00 | 12:08 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| CCV        | 1.00 | 12:10 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| CCB        | 1.00 | 12:12 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 S5    | 1.00 | 12:13 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 S5D   | 1.00 | 12:15 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| D055 S5S   | 1.00 | 12:17 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| ZZZZZ      | 1.00 | 12:19 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 12:20 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 12:22 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ZZZZZ      | 1.00 | 12:24 |     |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CCV        | 1.00 | 12:26 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| CCB        | 1.00 | 12:28 |     |          |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

# Metals Cover Page

Analyst: M. Niezgoda

Date: 4/28/99

Instrument: Leeman

File Name: 28-1A

Reviewed By: CK Data Entered By: CK Manager Approval: CK 4/29 ✓

| Starlims Run # | Analytes Used                            | Comments/<br>Problems |
|----------------|------------------------------------------|-----------------------|
| <u>37500 ✓</u> | <u>Ag As Ba Cd Cr Pb Se</u><br><u>.4</u> |                       |
|                |                                          |                       |
|                |                                          |                       |
|                |                                          |                       |
|                |                                          |                       |

Submission #'s needing PKG 5 or ASP Report  
(Place check mark in space provided when copy of raw data is made.)

| Sub #         | Run<br>Copy | Stds |
|---------------|-------------|------|
| <u>04-108</u> |             | ✓    |
| <u>04-064</u> |             | ✓    |
|               |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

CAS PS3000  
15:20:39 28 Apr 1999

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| Line                   | Conc. | Units | SD/RSD      | 1       | 2                        | 3    | 4 | 5 |
|------------------------|-------|-------|-------------|---------|--------------------------|------|---|---|
| *** Standard: 1 Rep: 1 |       |       |             | Seq: 22 | 15:20:39 28 Apr 1999 ICP |      |   |   |
| Ag1                    | .0000 | ppm   | 20198       | 18576   | 12453                    |      |   |   |
|                        |       |       | Ave. Int. = | 17076   | S. D. =                  | 4085 |   |   |
| Al3                    | .0000 | ppm   | -1628       | 3267    | -729                     |      |   |   |
|                        |       |       | Ave. Int. = | 303     | S. D. =                  | 2606 |   |   |
| As2                    | .0000 | ppm   | 137         | 2817    | 600                      |      |   |   |
|                        |       |       | Ave. Int. = | 1185    | S. D. =                  | 1432 |   |   |
| Ba1                    | .0000 | ppm   | 59687       | 56463   | 57161                    |      |   |   |
|                        |       |       | Ave. Int. = | 57770   | S. D. =                  | 1696 |   |   |
| Ca3                    | .0000 | ppm   | 26268       | 28457   | 27327                    |      |   |   |
|                        |       |       | Ave. Int. = | 27351   | S. D. =                  | 1095 |   |   |
| Cd1                    | .0000 | ppm   | -42921      | -46591  | -41469                   |      |   |   |
|                        |       |       | Ave. Int. = | -43660  | S. D. =                  | 2640 |   |   |
| Cr4                    | .0000 | ppm   | 5764        | 9187    | 5814                     |      |   |   |
|                        |       |       | Ave. Int. = | 6922    | S. D. =                  | 1962 |   |   |
| Fe2                    | .0000 | ppm   | 11305       | 10845   | 12528                    |      |   |   |
|                        |       |       | Ave. Int. = | 11559   | S. D. =                  | 870  |   |   |
| Mn4                    | .0000 | ppm   | -3867       | -4401   | -3024                    |      |   |   |
|                        |       |       | Ave. Int. = | -3764   | S. D. =                  | 694  |   |   |
| Mn1                    | .0000 | ppm   | 1792        | 2300    | 1115                     |      |   |   |
|                        |       |       | Ave. Int. = | 1736    | S. D. =                  | 595  |   |   |
| Na2                    | .0000 | ppm   | 1127        | 2354    | 1694                     |      |   |   |
|                        |       |       | Ave. Int. = | 1725    | S. D. =                  | 614  |   |   |
| Pb1                    | .0000 | ppm   | -5559       | -7471   | -3609                    |      |   |   |
|                        |       |       | Ave. Int. = | -5546   | S. D. =                  | 1931 |   |   |
| Se4                    | .0000 | ppm   | -3264       | -4770   | -3136                    |      |   |   |
|                        |       |       | Ave. Int. = | -3723   | S. D. =                  | 909  |   |   |

*Michael*  
*4/28/99*

C300

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| Line                   | Conc. | Units | SD/RSD      | 1       | 2                        | 3    | 4 | 5 |
|------------------------|-------|-------|-------------|---------|--------------------------|------|---|---|
| *** Standard: 1 Rep: 2 |       |       |             | Seq: 23 | 15:21:29 28 Apr 1999 ICP |      |   |   |
| Ag1                    | .0000 | ppm   | 20566       | 22750   | 20765                    |      |   |   |
|                        |       |       | Ave. Int. = | 21360   | S. D. =                  | 1208 |   |   |
| Al3                    | .0000 | ppm   | -215        | 4030    | 1339                     |      |   |   |
|                        |       |       | Ave. Int. = | 1718    | S. D. =                  | 2148 |   |   |
| As2                    | .0000 | ppm   | 843         | 905     | 1031                     |      |   |   |
|                        |       |       | Ave. Int. = | 926     | S. D. =                  | 96   |   |   |
| Ba1                    | .0000 | ppm   | 57041       | 65990   | 52422                    |      |   |   |
|                        |       |       | Ave. Int. = | 58484   | S. D. =                  | 6898 |   |   |
| Ca3                    | .0000 | ppm   | 30960       | 28265   | 27833                    |      |   |   |
|                        |       |       | Ave. Int. = | 29019   | S. D. =                  | 1694 |   |   |
| Cd1                    | .0000 | ppm   | -43355      | -39148  | -44576                   |      |   |   |
|                        |       |       | Ave. Int. = | -42360  | S. D. =                  | 2848 |   |   |
| Cr4                    | .0000 | ppm   | 7667        | 9031    | 5253                     |      |   |   |
|                        |       |       | Ave. Int. = | 7317    | S. D. =                  | 1913 |   |   |
| Fe2                    | .0000 | ppm   | 10072       | 8825    | 13205                    |      |   |   |
|                        |       |       | Ave. Int. = | 10701   | S. D. =                  | 2257 |   |   |
| M-4                    | .0000 | ppm   | -2393       | -210    | -2264                    |      |   |   |
|                        |       |       | Ave. Int. = | -1622   | S. D. =                  | 1225 |   |   |
| Mn1                    | .0000 | ppm   | 1701        | 2747    | 1630                     |      |   |   |
|                        |       |       | Ave. Int. = | 2026    | S. D. =                  | 625  |   |   |
| Na2                    | .0000 | ppm   | 2109        | 2021    | 7059                     |      |   |   |
|                        |       |       | Ave. Int. = | 3730    | S. D. =                  | 2884 |   |   |
| Pb1                    | .0000 | ppm   | -1757       | -7633   | -6281                    |      |   |   |
|                        |       |       | Ave. Int. = | -5224   | S. D. =                  | 3077 |   |   |
| Se4                    | .0000 | ppm   | -1832       | -3460   | -3398                    |      |   |   |
|                        |       |       | Ave. Int. = | -2897   | S. D. =                  | 923  |   |   |

0301

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| Line                   | Conc. | Units | SD/RSD      | 1         | 2                        | 3       | 4 | 5 |
|------------------------|-------|-------|-------------|-----------|--------------------------|---------|---|---|
| *** Standard: 2 Rep: 1 |       |       |             | Seq: 24   | 15:24:56 28 Apr 1999 ICP |         |   |   |
| Ag1                    | 1.000 | ppm   | 2044618     | 2032792   | 2044124                  |         |   |   |
|                        |       |       | Ave. Int. = | 2040511   | S. D. =                  | 6690    |   |   |
| Al3                    | 20.00 | ppm   | 3220953     | 3173053   | 3191585                  |         |   |   |
|                        |       |       | Ave. Int. = | 3195197   | S. D. =                  | 24153   |   |   |
| As2                    | 4.000 | ppm   | 207946      | 209470    | 204438                   |         |   |   |
|                        |       |       | Ave. Int. = | 207285    | S. D. =                  | 2580    |   |   |
| Ba1                    | 20.00 | ppm   | 620186659   | 612764085 | 620043189                |         |   |   |
|                        |       |       | Ave. Int. = | 617664644 | S. D. =                  | 4244615 |   |   |
| Ca3                    | 100.0 | ppm   | 60778771    | 60318391  | 60431595                 |         |   |   |
|                        |       |       | Ave. Int. = | 60509586  | S. D. =                  | 239894  |   |   |
| Cd1                    | 2.000 | ppm   | 10505526    | 10414639  | 10425859                 |         |   |   |
|                        |       |       | Ave. Int. = | 10448675  | S. D. =                  | 49553   |   |   |
| Cr4                    | 1.000 | ppm   | 1033002     | 1018098   | 1021524                  |         |   |   |
|                        |       |       | Ave. Int. = | 1024208   | S. D. =                  | 7806    |   |   |
| Fe2                    | 10.00 | ppm   | 5269811     | 5207961   | 5219253                  |         |   |   |
|                        |       |       | Ave. Int. = | 5232342   | S. D. =                  | 32937   |   |   |
| 4                      | 100.0 | ppm   | 7043634     | 6986229   | 6994985                  |         |   |   |
|                        |       |       | Ave. Int. = | 7008283   | S. D. =                  | 30927   |   |   |
| Mn1                    | 1.500 | ppm   | 2059501     | 2041486   | 2042126                  |         |   |   |
|                        |       |       | Ave. Int. = | 2047704   | S. D. =                  | 10221   |   |   |
| Na2                    | 100.0 | ppm   | 2655831     | 2629208   | 2651537                  |         |   |   |
|                        |       |       | Ave. Int. = | 2645525   | S. D. =                  | 14293   |   |   |
| Pb1                    | 2.000 | ppm   | 553350      | 550491    | 546803                   |         |   |   |
|                        |       |       | Ave. Int. = | 550215    | S. D. =                  | 3282    |   |   |
| Se4                    | 2.010 | ppm   | 73034       | 73286     | 70907                    |         |   |   |
|                        |       |       | Ave. Int. = | 72409     | S. D. =                  | 1307    |   |   |

0302

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| Line                   | Conc. | Units | SD/RSD      | 1         | 2                        | 3        | 4 | 5 |
|------------------------|-------|-------|-------------|-----------|--------------------------|----------|---|---|
| *** Standard: 2 Rep: 2 |       |       |             | Seq: 25   | 15:25:44 28 Apr 1999 ICP |          |   |   |
| Ag1                    | 1.000 | ppm   | 2083790     | 2052312   | 2017845                  |          |   |   |
|                        |       |       | Ave. Int. = | 2051316   | S. D. =                  | 32984    |   |   |
| Al3                    | 20.00 | ppm   | 3268372     | 3251529   | 3157091                  |          |   |   |
|                        |       |       | Ave. Int. = | 3225664   | S. D. =                  | 59980    |   |   |
| As2                    | 4.000 | ppm   | 209019      | 215805    | 202370                   |          |   |   |
|                        |       |       | Ave. Int. = | 209065    | S. D. =                  | 6718     |   |   |
| Ba1                    | 20.00 | ppm   | 631354005   | 629981514 | 609591325                |          |   |   |
|                        |       |       | Ave. Int. = | 623642281 | S. D. =                  | 12187820 |   |   |
| Ca3                    | 100.0 | ppm   | 61579955    | 61214617  | 60133369                 |          |   |   |
|                        |       |       | Ave. Int. = | 60975980  | S. D. =                  | 752239   |   |   |
| Cd1                    | 2.000 | ppm   | 10622645    | 10590251  | 10426399                 |          |   |   |
|                        |       |       | Ave. Int. = | 10546432  | S. D. =                  | 105206   |   |   |
| Cr4                    | 1.000 | ppm   | 1045884     | 1041905   | 1012742                  |          |   |   |
|                        |       |       | Ave. Int. = | 1033510   | S. D. =                  | 18096    |   |   |
| Fe2                    | 10.00 | ppm   | 5319229     | 5277032   | 5192014                  |          |   |   |
|                        |       |       | Ave. Int. = | 5262758   | S. D. =                  | 64798    |   |   |
| K 4                    | 100.0 | ppm   | 7136015     | 7099111   | 6959215                  |          |   |   |
|                        |       |       | Ave. Int. = | 7064780   | S. D. =                  | 93266    |   |   |
| Mn1                    | 1.500 | ppm   | 2091082     | 2077471   | 2029087                  |          |   |   |
|                        |       |       | Ave. Int. = | 2065880   | S. D. =                  | 32582    |   |   |
| Na2                    | 100.0 | ppm   | 2698611     | 2687363   | 2612621                  |          |   |   |
|                        |       |       | Ave. Int. = | 2666198   | S. D. =                  | 46739    |   |   |
| Pb1                    | 2.000 | ppm   | 567020      | 552154    | 552780                   |          |   |   |
|                        |       |       | Ave. Int. = | 557318    | S. D. =                  | 8408     |   |   |
| Se4                    | 2.010 | ppm   | 78031       | 76234     | 72287                    |          |   |   |
|                        |       |       | Ave. Int. = | 75517     | S. D. =                  | 2938     |   |   |

0303

CAS PS3000  
15:29:10 28 Apr 1999

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| Line                | Conc.  | Units | SD/RSD  | 1       | 2                        | 3      | 4 | 5 |
|---------------------|--------|-------|---------|---------|--------------------------|--------|---|---|
| *** Sample ID: ICV  |        |       |         |         |                          |        |   |   |
|                     |        |       | 28-1    | Seq: 27 | 15:29:10 28 Apr 1999 ICP |        |   |   |
| Ag1                 | .5064  | ppm   | .8500 % | .5082   | .5015                    | .5095  |   |   |
| Al3                 | 10.14  | ppm   | .5289 % | 10.20   | 10.13                    | 10.10  |   |   |
| As2                 | 1.953  | ppm   | 1.101 % | 1.977   | 1.936                    | 1.946  |   |   |
| Ba1                 | 9.731  | ppm   | .6708 % | 9.804   | 9.709                    | 9.679  |   |   |
| Ca3                 | 50.11  | ppm   | .7468 % | 50.54   | 49.86                    | 49.92  |   |   |
| Cd1                 | 1.000  | ppm   | .8944 % | 1.010   | .9944                    | .9953  |   |   |
| Cr4                 | .5081  | ppm   | .7731 % | .5125   | .5068                    | .5049  |   |   |
| Fe2                 | 5.209  | ppm   | .7461 % | 5.253   | 5.181                    | 5.192  |   |   |
| Mg4                 | 49.35  | ppm   | .6080 % | 49.70   | 49.17                    | 49.19  |   |   |
| Mn1                 | .7654  | ppm   | .7544 % | .7721   | .7625                    | .7617  |   |   |
| Na2                 | 51.27  | ppm   | .8523 % | 51.71   | 51.27                    | 50.83  |   |   |
| Pb1                 | .9865  | ppm   | 1.762 % | .9931   | .9668                    | .9997  |   |   |
| Se4                 | 1.048  | ppm   | 1.911 % | 1.062   | 1.056                    | 1.025  |   |   |
| *** Sample ID: ICE  |        |       |         |         |                          |        |   |   |
|                     |        |       | 28-1    | Seq: 28 | 15:32:33 28 Apr 1999 ICP |        |   |   |
| Ag1                 | -.0025 | L ppm | -182.3% | -.0061  | .0027                    | -.0043 |   |   |
| Al3                 | .0014  | L ppm | 718.5 % | .0010   | -.0083                   | .0114  |   |   |
| As2                 | -.0120 | L ppm | -80.60% | -.0214  | -.0126                   | -.0020 |   |   |
| Ba1                 | .0071  | L ppm | 106.4 % | .0021   | .0034                    | .0158  |   |   |
| Ca3                 | .0388  | L ppm | 107.1 % | .0124   | .0174                    | .0868  |   |   |
| Cd1                 | .0014  | L ppm | 64.46 % | .0004   | .0016                    | .0021  |   |   |
| Cr4                 | -.0001 | L ppm | -1099.% | .0007   | -.0015                   | .0005  |   |   |
| Fe2                 | -.0021 | L ppm | -212.2% | -.0047  | -.0045                   | .0030  |   |   |
| Mg4                 | .0408  | L ppm | 96.32 % | .0299   | .0081                    | .0844  |   |   |
| Mn1                 | .0002  | L ppm | 233.0 % | -.0003  | .0006                    | .0004  |   |   |
| Na2                 | -.0347 | L ppm | -73.70% | -.0632  | -.0138                   | -.0271 |   |   |
| Pb1                 | -.0090 | L ppm | -78.62% | -.0126  | -.0008                   | -.0135 |   |   |
| Se4                 | .0169  | L ppm | 199.2 % | .0132   | .0522                    | -.0148 |   |   |
| *** Sample ID: CR11 |        |       |         |         |                          |        |   |   |
|                     |        |       | 28-1    | Seq: 29 | 15:35:55 28 Apr 1999 ICP |        |   |   |
| Ag1                 | .0216  | ppm   | 13.50 % | .0183   | .0238                    | .0227  |   |   |
| Al3                 | .0179  | L ppm | 16.50 % | .0146   | .0185                    | .0204  |   |   |
| As2                 | .0222  | L ppm | 104.5 % | -.0028  | .0431                    | .0264  |   |   |
| Ba1                 | .0008  | L ppm | 50.80 % | .0003   | .0011                    | .0010  |   |   |
| Ca3                 | .0273  | L ppm | 5.120 % | .0265   | .0264                    | .0289  |   |   |
| Cd1                 | .0123  | ppm   | 7.610 % | .0125   | .0131                    | .0113  |   |   |
| Cr4                 | .0208  | ppm   | 6.344 % | .0206   | .0196                    | .0222  |   |   |
| Fe2                 | -.0034 | L ppm | -62.77% | -.0044  | -.0049                   | -.0010 |   |   |
| Mg4                 | .0315  | L ppm | 76.20 % | .0175   | .0177                    | .0591  |   |   |
| Mn1                 | .0318  | ppm   | .5491 % | .0317   | .0320                    | .0318  |   |   |
| Na2                 | -.0002 | L ppm | -19160% | -.0323  | .0034                    | .0284  |   |   |
| Pb1                 | .1138  | ppm   | 8.459 % | .1063   | .1247                    | .1106  |   |   |
| Se4                 | .0662  | L ppm | 62.71 % | .1092   | .0629                    | .0264  |   |   |

0304

AS P53000  
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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: ICSAI 28-1 Seq: 31 15:39:18 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0035 | L ppm | -20.07% | -.0027 | -.0041 | -.0036 |  |  |
| Al3 | 515.8  | H ppm | .9894 % | 511.7  | 514.2  | 521.5  |  |  |
| As2 | -.2030 | L ppm | -53.25% | -.2236 | -.2994 | -.0861 |  |  |
| Ba1 | -.0004 | L ppm | -35.94% | -.0005 | -.0002 | -.0004 |  |  |
| Ca3 | 505.3  | ppm   | .4869 % | 503.5  | 504.4  | 508.1  |  |  |
| Cd1 | .0007  | L ppm | 71.05 % | .0005  | .0003  | .0013  |  |  |
| Cr4 | -.0025 | L ppm | -84.88% | -.0035 | -.0038 | -.0001 |  |  |
| Fe2 | 188.0  | ppm   | .7437 % | 187.0  | 187.4  | 189.6  |  |  |
| Mg4 | 535.8  | H ppm | .5871 % | 533.7  | 534.3  | 539.4  |  |  |
| Mn1 | .0070  | L ppm | 16.39 % | .0057  | .0073  | .0079  |  |  |
| Na2 | .1297  | L ppm | 53.86 % | .1166  | .0673  | .2051  |  |  |
| Pb1 | -.0273 | L ppm | -26.97% | -.0347 | -.0272 | -.0200 |  |  |
| Se4 | -.0110 | L ppm | -771.4% | -.0517 | -.0683 | .0869  |  |  |

\*\*\* Sample ID: ICSABI 28-1 Seq: 32 15:42:40 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | .9906  | ppm   | 1.157 % | 1.004  | .9828  | .9853  |  |  |
| 3   | 505.1  | H ppm | 1.684 % | 514.9  | 499.3  | 501.1  |  |  |
| As2 | -.2034 | L ppm | -32.48% | -.1287 | -.2540 | -.2274 |  |  |
| Ba1 | .4609  | ppm   | 1.699 % | .4699  | .4558  | .4569  |  |  |
| Ca3 | 497.2  | ppm   | .8725 % | 502.1  | 493.7  | 495.9  |  |  |
| Cd1 | .9550  | ppm   | .3783 % | .9592  | .9529  | .9529  |  |  |
| Cr4 | .4683  | ppm   | 1.353 % | .4756  | .4640  | .4653  |  |  |
| Fe2 | 185.4  | ppm   | 1.140 % | 187.8  | 183.9  | 184.6  |  |  |
| Mg4 | 525.7  | H ppm | .9094 % | 531.1  | 521.8  | 524.3  |  |  |
| Mn1 | .4873  | ppm   | .8350 % | .4919  | .4843  | .4856  |  |  |
| Na2 | .1385  | L ppm | 41.11 % | .0889  | .1259  | .2006  |  |  |
| Pb1 | .9177  | ppm   | .3295 % | .9155  | .9165  | .9212  |  |  |
| Se4 | -.0435 | L ppm | -73.62% | -.0390 | -.0775 | -.0140 |  |  |

\*\*\* Sample ID: CCV 28-1 Seq: 33 15:46:04 28 Apr 1999 ICP

|     |       |     |         |       |       |       |  |  |
|-----|-------|-----|---------|-------|-------|-------|--|--|
| Ag1 | .5066 | ppm | 1.059 % | .5013 | .5120 | .5063 |  |  |
| Al3 | 10.09 | ppm | .8492 % | 9.993 | 10.14 | 10.15 |  |  |
| As2 | 2.017 | ppm | .4163 % | 2.024 | 2.008 | 2.018 |  |  |
| Ba1 | 9.690 | ppm | 1.003 % | 9.583 | 9.772 | 9.714 |  |  |
| Ca3 | 50.25 | ppm | .5322 % | 49.95 | 50.32 | 50.47 |  |  |
| Cd1 | 1.001 | ppm | .5650 % | .9949 | 1.004 | 1.005 |  |  |
| Cr4 | .5110 | ppm | .6200 % | .5075 | .5138 | .5117 |  |  |
| Fe2 | 5.240 | ppm | .5739 % | 5.207 | 5.247 | 5.265 |  |  |
| Mg4 | 49.48 | ppm | .6523 % | 49.14 | 49.52 | 49.78 |  |  |
| Mn1 | .7644 | ppm | .9053 % | .7564 | .7684 | .7683 |  |  |
| 2   | 51.61 | ppm | 1.260 % | 50.91 | 52.19 | 51.72 |  |  |
| Pb1 | .9813 | ppm | 1.158 % | .9696 | .9820 | .9922 |  |  |
| Se4 | .9822 | ppm | 6.267 % | .9286 | .9686 | 1.049 |  |  |

0305

LAS PS3000  
15:49:27 28 Apr 1999

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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: CCB 28-1 Seq: 35 15:49:27 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0003 | L ppm | -506.9% | -.0010 | -.0015 | .0016  |  |  |
| Al3 | .0391  | L ppm | 53.01 % | .0152  | .0496  | .0526  |  |  |
| As2 | -.0068 | L ppm | -106.1% | .0009  | -.0079 | -.0133 |  |  |
| Ba1 | .0009  | L ppm | 41.90 % | .0007  | .0007  | .0014  |  |  |
| Ca3 | .0419  | L ppm | 12.43 % | .0379  | .0400  | .0478  |  |  |
| Cd1 | .0005  | L ppm | 60.14 % | .0006  | .0002  | .0008  |  |  |
| Cr4 | .0005  | L ppm | 373.9 % | -.0002 | -.0008 | .0024  |  |  |
| Fe2 | .0267  | L ppm | 2.762 % | .0274  | .0259  | .0269  |  |  |
| Mg4 | .0672  | L ppm | 2.452 % | .0688  | .0673  | .0655  |  |  |
| Mn1 | -.0007 | L ppm | -25.38% | -.0006 | -.0006 | -.0009 |  |  |
| Na2 | -.0150 | L ppm | -416.2% | -.0855 | .0325  | .0081  |  |  |
| Pb1 | -.0043 | L ppm | -175.5% | -.0087 | -.0085 | .0044  |  |  |
| Se4 | .0199  | L ppm | 125.1 % | .0485  | .0025  | .0088  |  |  |

\*\*\* Sample ID: PBTCLP0427 28-1 Seq: 36 15:52:50 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0039 | L ppm | -65.86% | -.0060 | -.0046 | -.0010 |  |  |
| Al3 | .1120  | ppm   | 9.310 % | .1008  | .1214  | .1137  |  |  |
| As2 | .0103  | L ppm | 239.1 % | -.0074 | -.0001 | .0384  |  |  |
| Ba1 | .2361  | ppm   | .5433 % | .2376  | .2357  | .2351  |  |  |
| Ca3 | .1007  | L ppm | 2.407 % | .1018  | .0980  | .1025  |  |  |
| Cd1 | .0011  | L ppm | 64.30 % | .0005  | .0010  | .0019  |  |  |
| Cr4 | -.0005 | L ppm | -148.1% | -.0011 | -.0008 | .0004  |  |  |
| Fe2 | .0895  | L ppm | 2.973 % | .0926  | .0880  | .0880  |  |  |
| Mg4 | .0602  | L ppm | 44.85 % | .0326  | .0614  | .0865  |  |  |
| Mn1 | -.0047 | L ppm | -4.307% | -.0049 | -.0046 | -.0045 |  |  |
| Na2 | 1343.  | H ppm | .6694 % | 1354.  | 1339.  | 1337.  |  |  |
| Pb1 | -.0252 | L ppm | -28.10% | -.0242 | -.0187 | -.0328 |  |  |
| Se4 | .0086  | L ppm | 477.7 % | .0324  | .0324  | -.0389 |  |  |

288635

\*\*\* Sample ID: LCSTCLP 28-1 Seq: 37 15:56:14 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | 5.161  | H ppm | .5369 % | 5.130  | 5.171  | 5.183  |  |  |
| Al3 | .1177  | ppm   | 22.71 % | .1090  | .0964  | .1477  |  |  |
| As2 | 5.338  | H ppm | .4163 % | 5.317  | 5.361  | 5.337  |  |  |
| Ba1 | 4.923  | ppm   | .3806 % | 4.904  | 4.924  | 4.941  |  |  |
| Ca3 | .1092  | L ppm | 1.403 % | .1108  | .1091  | .1077  |  |  |
| Cd1 | 1.086  | ppm   | .3827 % | 1.085  | 1.083  | 1.091  |  |  |
| Cr4 | 5.190  | ppm   | .3163 % | 5.173  | 5.191  | 5.206  |  |  |
| Fe2 | .0769  | L ppm | 2.664 % | .0779  | .0745  | .0782  |  |  |
| Mg4 | .0763  | L ppm | 10.36 % | .0798  | .0672  | .0818  |  |  |
| Mn1 | -.0049 | L ppm | -4.467% | -.0050 | -.0046 | -.0050 |  |  |
| Na2 | 1390.  | H ppm | .4730 % | 1383.  | 1390.  | 1396.  |  |  |
| Pb1 | 5.298  | ppm   | .5076 % | 5.273  | 5.293  | 5.327  |  |  |
| Se4 | 1.055  | ppm   | 4.540 % | 1.060  | 1.005  | 1.100  |  |  |

288636

0306

CAS PS3000  
15:59:37 28 Apr 1999

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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 283561 28-1 Seq: 39 15:59:37 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | -.0072 | L ppm | -10.54% | -.0069 | -.0067 | -.0081 |   |   |
| Al3                                                         | .1792  | ppm   | 5.598 % | .1676  | .1853  | .1846  |   |   |
| As2                                                         | -.7196 | L ppm | -8.833% | -.7906 | -.6680 | -.7002 |   |   |
| Ba1                                                         | .2454  | ppm   | .4140 % | .2457  | .2443  | .2463  |   |   |
| Ca3                                                         | 10.57  | ppm   | .6158 % | 10.52  | 10.54  | 10.64  |   |   |
| Cd1                                                         | .0004  | L ppm | 116.6 % | -.0002 | .0007  | .0008  |   |   |
| Cr4                                                         | .4627  | ppm   | .4971 % | .4637  | .4600  | .4643  |   |   |
| Fe2                                                         | 627.8  | H ppm | .6325 % | 625.1  | 625.9  | 632.3  |   |   |
| Mg4                                                         | 1.381  | ppm   | .6837 % | 1.384  | 1.370  | 1.388  |   |   |
| Mn1                                                         | 4.617  | ppm   | .6138 % | 4.602  | 4.600  | 4.650  |   |   |
| Na2                                                         | 1389.  | H ppm | .6160 % | 1390.  | 1380.  | 1397.  |   |   |
| Pb1                                                         | .3728  | ppm   | 1.451 % | .3698  | .3696  | .3791  |   |   |
| Se4                                                         | .0243  | L ppm | 206.2 % | .0549  | .0515  | -.0335 |   |   |
| *** Sample ID: 283562 28-1 Seq: 40 16:03:00 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | -.0034 | L ppm | -120.2% | .0011  | -.0043 | -.0070 |   |   |
| Al3                                                         | 1.584  | ppm   | 1.848 % | 1.589  | 1.611  | 1.553  |   |   |
| As2                                                         | -.0041 | L ppm | -64.68% | -.0040 | -.0069 | -.0015 |   |   |
| Ba1                                                         | .3751  | ppm   | .6337 % | .3774  | .3753  | .3727  |   |   |
| Ca3                                                         | 67.22  | ppm   | .5121 % | 67.61  | 66.95  | 67.10  |   |   |
| Cd1                                                         | .2085  | ppm   | 1.260 % | .2112  | .2059  | .2085  |   |   |
| Cr4                                                         | .0022  | L ppm | 25.12 % | .0024  | .0016  | .0027  |   |   |
| Fe2                                                         | 1.889  | ppm   | .9298 % | 1.908  | 1.887  | 1.873  |   |   |
| Mg4                                                         | 4.810  | ppm   | .5511 % | 4.818  | 4.780  | 4.831  |   |   |
| Mn1                                                         | .4867  | ppm   | .2034 % | .4879  | .4860  | .4864  |   |   |
| Na2                                                         | 1290.  | H ppm | .5166 % | 1297.  | 1291.  | 1283.  |   |   |
| Pb1                                                         | 14.48  | ppm   | .4817 % | 14.56  | 14.42  | 14.48  |   |   |
| Se4                                                         | .0137  | L ppm | 54.04 % | .0196  | .0054  | .0163  |   |   |
| *** Sample ID: 283563 28-1 Seq: 41 16:06:24 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | -.0065 | L ppm | -17.92% | -.0054 | -.0063 | -.0077 |   |   |
| Al3                                                         | .2651  | ppm   | 4.395 % | .2548  | .2777  | .2627  |   |   |
| As2                                                         | -.1765 | L ppm | -12.76% | -.1877 | -.1913 | -.1506 |   |   |
| Ba1                                                         | .2232  | ppm   | .8630 % | .2217  | .2225  | .2254  |   |   |
| Ca3                                                         | 10.63  | ppm   | .1104 % | 10.61  | 10.63  | 10.64  |   |   |
| Cd1                                                         | .0200  | ppm   | 1.996 % | .0204  | .0196  | .0200  |   |   |
| Cr4                                                         | .0919  | ppm   | 1.970 % | .0908  | .0939  | .0908  |   |   |
| Fe2                                                         | 172.6  | ppm   | .5388 % | 171.9  | 172.2  | 173.7  |   |   |
| Mg4                                                         | .6208  | ppm   | 3.362 % | .6380  | .5975  | .6268  |   |   |
| Mn1                                                         | 1.626  | ppm   | .4538 % | 1.620  | 1.625  | 1.634  |   |   |
| Na2                                                         | 1354.  | H ppm | .9978 % | 1346.  | 1346.  | 1369.  |   |   |
| Pb1                                                         | 3.057  | ppm   | .2966 % | 3.067  | 3.056  | 3.049  |   |   |
| Se4                                                         | .0194  | L ppm | 201.2 % | -.0233 | .0534  | .0283  |   |   |

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CAS P53000  
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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: 283564 28-1 Seq: 43 16:09:48 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | -.0037 | L ppm | -54.01% | -.0039 | -.0057 | -.0016 |   |   |
| Al3                                                         | 1.096  | ppm   | .8147 % | 1.098  | 1.103  | 1.086  |   |   |
| As2                                                         | .0028  | L ppm | 721.8 % | .0102  | .0187  | -.0204 |   |   |
| Ba1                                                         | .3175  | ppm   | 2.062 % | .3224  | .3200  | .3101  |   |   |
| Ca3                                                         | 189.0  | ppm   | 1.506 % | 190.7  | 190.6  | 185.7  |   |   |
| Cd1                                                         | .8108  | ppm   | 1.340 % | .8155  | .8186  | .7984  |   |   |
| Cr4                                                         | -.0001 | L ppm | -1378.% | -.0006 | -.0013 | .0015  |   |   |
| Fe2                                                         | .2776  | ppm   | 3.692 % | .2857  | .2810  | .2661  |   |   |
| Mg4                                                         | 6.072  | ppm   | 1.102 % | 6.112  | 6.108  | 5.994  |   |   |
| Mn1                                                         | .4522  | ppm   | 1.498 % | .4570  | .4552  | .4444  |   |   |
| Na2                                                         | 1356.  | H ppm | 2.102 % | 1377.  | 1367.  | 1323.  |   |   |
| Pb1                                                         | 20.29  | ppm   | 1.104 % | 20.42  | 20.42  | 20.03  |   |   |
| Se4                                                         | .0757  | L ppm | 67.60 % | .0735  | .1279  | .0256  |   |   |
| *** Sample ID: 283565 28-1 Seq: 44 16:13:12 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | -.0048 | L ppm | -14.14% | -.0051 | -.0041 | -.0054 |   |   |
| Al3                                                         | 3.542  | ppm   | 1.668 % | 3.578  | 3.474  | 3.575  |   |   |
| As2                                                         | -.0868 | L ppm | -22.01% | -.0720 | -.1084 | -.0801 |   |   |
| Ba1                                                         | .3158  | ppm   | 1.232 % | .3188  | .3114  | .3172  |   |   |
| Ca3                                                         | 77.19  | ppm   | .7733 % | 77.78  | 76.59  | 77.21  |   |   |
| Cd1                                                         | .1170  | ppm   | .9906 % | .1179  | .1157  | .1175  |   |   |
| Cr4                                                         | .1411  | ppm   | .3228 % | .1416  | .1408  | .1408  |   |   |
| Fe2                                                         | 109.0  | ppm   | .9719 % | 109.9  | 107.8  | 109.2  |   |   |
| Mg4                                                         | 4.714  | ppm   | 1.338 % | 4.773  | 4.647  | 4.721  |   |   |
| Mn1                                                         | 1.605  | ppm   | .9089 % | 1.617  | 1.589  | 1.609  |   |   |
| Na2                                                         | 1375.  | H ppm | 1.199 % | 1387.  | 1356.  | 1380.  |   |   |
| Pb1                                                         | 41.02  | ppm   | .6362 % | 41.30  | 40.79  | 40.97  |   |   |
| Se4                                                         | .0296  | L ppm | 61.33 % | .0407  | .0395  | .0087  |   |   |
| *** Sample ID: 283566 28-1 Seq: 45 16:16:36 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | .0012  | L ppm | 125.1 % | -.0005 | .0018  | .0022  |   |   |
| Al3                                                         | .7496  | ppm   | 1.356 % | .7443  | .7433  | .7614  |   |   |
| As2                                                         | -.0113 | L ppm | -115.6% | -.0092 | -.0254 | .0006  |   |   |
| Ba1                                                         | .2421  | ppm   | 1.357 % | .2390  | .2455  | .2417  |   |   |
| Ca3                                                         | 18.09  | ppm   | .8400 % | 17.92  | 18.21  | 18.13  |   |   |
| Cd1                                                         | .0166  | ppm   | 2.131 % | .0170  | .0163  | .0165  |   |   |
| Cr4                                                         | .0209  | ppm   | 6.226 % | .0206  | .0198  | .0224  |   |   |
| Fe2                                                         | 10.77  | ppm   | 1.076 % | 10.64  | 10.87  | 10.79  |   |   |
| Mg4                                                         | .8599  | ppm   | 1.096 % | .8704  | .8521  | .8572  |   |   |
| Mn1                                                         | .1548  | ppm   | .8875 % | .1534  | .1561  | .1550  |   |   |
| Na2                                                         | 1297.  | H ppm | 1.228 % | 1281.  | 1313.  | 1298.  |   |   |
| Pb1                                                         | 3.381  | ppm   | .5130 % | 3.362  | 3.385  | 3.395  |   |   |
| Se4                                                         | -.0257 | L ppm | -83.99% | -.0037 | -.0469 | -.0265 |   |   |

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CAS PS3000  
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| Line                                                                       | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|----------------------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| -----                                                                      |        |       |         |        |        |        |   |   |
| *** Sample ID: 283567      28-1      Seq: 47      16:19:59 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                                        | .0006  | L ppm | 205.0 % | -.0002 | .0020  | -.0000 |   |   |
| Al3                                                                        | .2601  | ppm   | 5.575 % | .2543  | .2766  | .2494  |   |   |
| As2                                                                        | .0839  | L ppm | 22.22 % | .1051  | .0705  | .0760  |   |   |
| Ba1                                                                        | .7062  | ppm   | .3456 % | .7073  | .7079  | .7034  |   |   |
| Ca3                                                                        | 3.819  | ppm   | .2999 % | 3.816  | 3.832  | 3.810  |   |   |
| Cd1                                                                        | .0124  | ppm   | 5.762 % | .0123  | .0131  | .0117  |   |   |
| Cr4                                                                        | -.0015 | L ppm | -74.83% | -.0026 | -.0014 | -.0004 |   |   |
| Fe2                                                                        | .3683  | ppm   | .6486 % | .3696  | .3698  | .3655  |   |   |
| Mg4                                                                        | .5900  | ppm   | 2.448 % | .5735  | .5965  | .6001  |   |   |
| Mn1                                                                        | .0416  | ppm   | 1.636 % | .0418  | .0421  | .0408  |   |   |
| Na2                                                                        | 1325.  | H ppm | .3881 % | 1326.  | 1329.  | 1319.  |   |   |
| Pb1                                                                        | .0357  | L ppm | 37.83 % | .0337  | .0501  | .0233  |   |   |
| Se4                                                                        | .1014  | L ppm | 97.90 % | .1721  | .1443  | -.0121 |   |   |
| *** Sample ID: 283568      28-1      Seq: 48      16:23:21 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                                        | -.0035 | L ppm | -75.07% | -.0046 | -.0005 | -.0053 |   |   |
| Al3                                                                        | 1.405  | ppm   | .1137 % | 1.407  | 1.403  | 1.405  |   |   |
| As2                                                                        | -.0185 | L ppm | -61.92% | -.0264 | -.0239 | -.0054 |   |   |
| Ba1                                                                        | .2887  | ppm   | 1.075 % | .2874  | .2864  | .2922  |   |   |
| Ca3                                                                        | 159.5  | ppm   | .4912 % | 159.2  | 159.0  | 160.4  |   |   |
| Cd1                                                                        | .3334  | ppm   | .4024 % | .3321  | .3348  | .3332  |   |   |
| Cr4                                                                        | .0026  | L ppm | 52.20 % | .0023  | .0041  | .0015  |   |   |
| Fe2                                                                        | .8079  | ppm   | .6600 % | .8028  | .8076  | .8134  |   |   |
| Mg4                                                                        | 6.816  | ppm   | .6697 % | 6.764  | 6.834  | 6.850  |   |   |
| Mn1                                                                        | .4733  | ppm   | .7242 % | .4717  | .4710  | .4772  |   |   |
| Na2                                                                        | 1310.  | H ppm | 1.317 % | 1304.  | 1297.  | 1329.  |   |   |
| Pb1                                                                        | 19.75  | ppm   | .3243 % | 19.70  | 19.72  | 19.82  |   |   |
| Se4                                                                        | -.0302 | L ppm | -102.9% | -.0571 | .0038  | -.0373 |   |   |
| *** Sample ID: CCV      28-1      Seq: 49      16:26:43 28 Apr 1999 ICP    |        |       |         |        |        |        |   |   |
| Ag1                                                                        | .5034  | ppm   | 3.710 % | .5017  | .4857  | .5229  |   |   |
| Al3                                                                        | 10.06  | ppm   | 3.411 % | 10.16  | 9.682  | 10.35  |   |   |
| As2                                                                        | 1.951  | ppm   | 5.084 % | 2.014  | 1.837  | 2.003  |   |   |
| Ba1                                                                        | 9.415  | ppm   | 3.931 % | 9.539  | 8.998  | 9.707  |   |   |
| Ca3                                                                        | 50.43  | ppm   | 2.399 % | 50.83  | 49.07  | 51.38  |   |   |
| Cd1                                                                        | 1.035  | ppm   | 1.799 % | 1.041  | 1.014  | 1.051  |   |   |
| Cr4                                                                        | .5057  | ppm   | 1.570 % | .5077  | .4969  | .5124  |   |   |
| Fe2                                                                        | 5.182  | ppm   | 2.705 % | 5.242  | 5.022  | 5.283  |   |   |
| Mg4                                                                        | 50.33  | ppm   | 2.440 % | 50.64  | 48.98  | 51.38  |   |   |
| Mn1                                                                        | .7575  | ppm   | 2.748 % | .7632  | .7345  | .7749  |   |   |
| ?                                                                          | 49.72  | ppm   | 3.959 % | 50.45  | 47.50  | 51.23  |   |   |
| Pb1                                                                        | 1.015  | ppm   | 3.604 % | 1.031  | .9735  | 1.041  |   |   |
| Se4                                                                        | .9468  | ppm   | 3.954 % | .9676  | .9036  | .9693  |   |   |

0609

CAS P53000  
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| Line                  | Conc.  | Units | SD/RSD  | 1       | 2                        | 3      | 4 | 5 |
|-----------------------|--------|-------|---------|---------|--------------------------|--------|---|---|
| <hr/>                 |        |       |         |         |                          |        |   |   |
| *** Sample ID: CCB    |        |       | 28-1    | Seq: 51 | 16:30:05 28 Apr 1999 ICP |        |   |   |
| Ag1                   | -.0018 | L ppm | -34.38% | -.0014  | -.0025                   | -.0015 |   |   |
| Al3                   | -.0051 | L ppm | -41.02% | -.0052  | -.0030                   | -.0072 |   |   |
| As2                   | -.0015 | L ppm | -2334.% | .0184   | -.0409                   | .0181  |   |   |
| Ba1                   | .0024  | L ppm | 15.87 % | .0021   | .0023                    | .0028  |   |   |
| Ca3                   | .0253  | L ppm | 21.16 % | .0218   | .0226                    | .0314  |   |   |
| Cd1                   | .0002  | L ppm | 487.6 % | .0007   | -.0009                   | .0008  |   |   |
| Cr4                   | -.0001 | L ppm | -383.1% | .0003   | -.0001                   | -.0005 |   |   |
| Fe2                   | .0034  | L ppm | 39.60 % | .0042   | .0018                    | .0041  |   |   |
| Mg4                   | .0313  | L ppm | 38.51 % | .0277   | .0448                    | .0215  |   |   |
| Mn1                   | -.0007 | L ppm | -81.35% | -.0001  | -.0011                   | -.0008 |   |   |
| Na2                   | .2692  | L ppm | 25.38 % | .2050   | .2615                    | .3410  |   |   |
| Pb1                   | -.0003 | L ppm | -1372.% | .0038   | -.0035                   | -.0011 |   |   |
| Se4                   | -.0258 | L ppm | -161.4% | -.0318  | -.0641                   | .0185  |   |   |
| <hr/>                 |        |       |         |         |                          |        |   |   |
| *** Sample ID: 283569 |        |       | 28-1    | Seq: 52 | 16:33:27 28 Apr 1999 ICP |        |   |   |
| A-1                   | -.0038 | L ppm | -76.37% | -.0024  | -.0071                   | -.0018 |   |   |
| 3                     | 1.039  | ppm   | .8525 % | 1.043   | 1.028                    | 1.044  |   |   |
| As2                   | -.0387 | L ppm | -56.35% | -.0524  | -.0136                   | -.0503 |   |   |
| Ba1                   | .2128  | ppm   | .4901 % | .2119   | .2125                    | .2140  |   |   |
| Ca3                   | 335.3  | ppm   | .3887 % | 333.8   | 335.7                    | 336.3  |   |   |
| Cd1                   | .3201  | ppm   | .5337 % | .3181   | .3209                    | .3212  |   |   |
| Cr4                   | .0015  | L ppm | 94.26 % | .0031   | .0002                    | .0014  |   |   |
| Fe2                   | .2426  | ppm   | 1.551 % | .2453   | .2383                    | .2442  |   |   |
| Mg4                   | 9.996  | ppm   | .6694 % | 9.920   | 10.02                    | 10.05  |   |   |
| Mn1                   | .5595  | ppm   | .4928 % | .5563   | .5610                    | .5611  |   |   |
| Na2                   | 1432.  | H ppm | .3727 % | 1426.   | 1434.                    | 1437.  |   |   |
| Pb1                   | 18.06  | ppm   | .1796 % | 18.02   | 18.09                    | 18.06  |   |   |
| Se4                   | .0025  | L ppm | 2687. % | -.0323  | -.0393                   | .0790  |   |   |
| <hr/>                 |        |       |         |         |                          |        |   |   |
| *** Sample ID: 283570 |        |       | 28-1    | Seq: 53 | 16:36:50 28 Apr 1999 ICP |        |   |   |
| Ag1                   | -.0035 | L ppm | -26.20% | -.0032  | -.0046                   | -.0028 |   |   |
| Al3                   | .7707  | ppm   | 1.894 % | .7774   | .7807                    | .7540  |   |   |
| As2                   | .0084  | L ppm | 158.7 % | .0228   | -.0037                   | .0063  |   |   |
| Ba1                   | .2742  | ppm   | 1.817 % | .2796   | .2735                    | .2697  |   |   |
| Ca3                   | 177.5  | ppm   | 1.319 % | 179.7   | 177.8                    | 175.0  |   |   |
| Cd1                   | .2995  | ppm   | 1.381 % | .3038   | .2990                    | .2955  |   |   |
| Cr4                   | .0000  | L ppm | 5248. % | .0012   | -.0015                   | .0003  |   |   |
| Fe2                   | .4909  | ppm   | 1.383 % | .4976   | .4910                    | .4840  |   |   |
| Mg4                   | 7.652  | ppm   | .7072 % | 7.701   | 7.659                    | 7.594  |   |   |
| Mn1                   | .5093  | ppm   | 1.571 % | .5169   | .5100                    | .5010  |   |   |
| Na2                   | 1323.  | H ppm | 1.844 % | 1350.   | 1319.                    | 1301.  |   |   |
| Pb1                   | 17.67  | ppm   | 1.224 % | 17.87   | 17.69                    | 17.44  |   |   |
| Se4                   | .0183  | L ppm | 172.4 % | .0049   | -.0043                   | .0544  |   |   |

0310

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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: 283571      28-1      Seq: 55      16:40:14 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0023 | L ppm | -56.32% | -.0035 | -.0009 | -.0024 |  |  |
| Al3 | 1.496  | ppm   | 1.447 % | 1.471  | 1.509  | 1.509  |  |  |
| As2 | -.0104 | L ppm | -76.58% | -.0016 | -.0172 | -.0125 |  |  |
| Ba1 | .2268  | ppm   | 1.692 % | .2224  | .2286  | .2295  |  |  |
| Ca3 | 157.8  | ppm   | 1.249 % | 155.6  | 158.5  | 159.3  |  |  |
| Cd1 | .3867  | ppm   | 1.171 % | .3816  | .3882  | .3903  |  |  |
| Cr4 | .0023  | L ppm | 12.42 % | .0022  | .0026  | .0021  |  |  |
| Fe2 | .7747  | ppm   | 1.712 % | .7594  | .7820  | .7827  |  |  |
| Mg4 | 6.515  | ppm   | 1.478 % | 6.410  | 6.536  | 6.599  |  |  |
| Mn1 | .5207  | ppm   | 1.407 % | .5125  | .5228  | .5267  |  |  |
| Na2 | 1325.  | H ppm | 1.900 % | 1297.  | 1335.  | 1344.  |  |  |
| Pb1 | 19.48  | ppm   | 1.069 % | 19.25  | 19.54  | 19.65  |  |  |
| Se4 | .0001  | L ppm | 21340 % | .0332  | -.0264 | -.0064 |  |  |

\*\*\* Sample ID: 283572      28-1      Seq: 56      16:43:37 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0051 | L ppm | -49.54% | -.0023 | -.0072 | -.0060 |  |  |
| Al3 | .1335  | ppm   | 9.883 % | .1216  | .1311  | .1477  |  |  |
| As2 | -.6242 | L ppm | -2.154% | -.6237 | -.6379 | -.6110 |  |  |
| Ba1 | .2732  | ppm   | 1.528 % | .2749  | .2763  | .2684  |  |  |
| Ca3 | 44.22  | ppm   | .7685 % | 44.38  | 44.45  | 43.83  |  |  |
| Cd1 | .0022  | L ppm | 88.73 % | .0028  | .0038  | .0000  |  |  |
| Cr4 | .0983  | ppm   | 1.497 % | .0980  | .1000  | .0971  |  |  |
| Fe2 | 647.9  | H ppm | .9580 % | 650.3  | 652.5  | 640.8  |  |  |
| Mg4 | 2.516  | ppm   | 2.040 % | 2.535  | 2.555  | 2.458  |  |  |
| Mn1 | 6.107  | ppm   | 1.141 % | 6.130  | 6.162  | 6.028  |  |  |
| Na2 | 1329.  | H ppm | 1.549 % | 1337.  | 1344.  | 1306.  |  |  |
| Pb1 | .1587  | ppm   | 10.89 % | .1784  | .1460  | .1518  |  |  |
| Se4 | .0670  | L ppm | 66.55 % | .0655  | .1123  | .0232  |  |  |

\*\*\* Sample ID: 283572D      28-1      Seq: 57      16:47:01 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0064 | L ppm | -16.39% | -.0052 | -.0071 | -.0070 |  |  |
| Al3 | .1221  | ppm   | 7.888 % | .1124  | .1316  | .1223  |  |  |
| As2 | -.5687 | L ppm | -8.358% | -.5238 | -.5638 | -.6185 |  |  |
| Ba1 | .2707  | ppm   | .5822 % | .2695  | .2725  | .2700  |  |  |
| Ca3 | 43.50  | ppm   | .5099 % | 43.28  | 43.73  | 43.49  |  |  |
| Cd1 | .0025  | L ppm | 17.80 % | .0029  | .0021  | .0026  |  |  |
| Cr4 | .0979  | ppm   | 1.197 % | .0967  | .0980  | .0990  |  |  |
| Fe2 | 640.2  | H ppm | .6098 % | 636.8  | 644.5  | 639.2  |  |  |
| Mg4 | 2.528  | ppm   | .9670 % | 2.503  | 2.552  | 2.529  |  |  |
| Mn1 | 6.022  | ppm   | .6596 % | 5.989  | 6.066  | 6.010  |  |  |
| Na2 | 1314.  | H ppm | .5840 % | 1307.  | 1322.  | 1314.  |  |  |
| Pb1 | .1416  | ppm   | 6.361 % | .1516  | .1393  | .1340  |  |  |
| Se4 | .0218  | L ppm | 235.9 % | -.0325 | .0697  | .0282  |  |  |

288633

0311

CAS PS3000  
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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: 283572S 28-1 Seq: 59 16:50:25 28 Apr 1999 ICP

|     |       |       |         |       |       |       |  |  |
|-----|-------|-------|---------|-------|-------|-------|--|--|
| Ag1 | 4.918 | ppm   | 1.131 % | 4.862 | 4.918 | 4.973 |  |  |
| Al3 | .1357 | ppm   | 5.672 % | .1444 | .1332 | .1296 |  |  |
| As2 | 4.268 | ppm   | 1.398 % | 4.256 | 4.215 | 4.333 |  |  |
| Ba1 | 4.694 | ppm   | 1.524 % | 4.632 | 4.678 | 4.772 |  |  |
| Ca3 | 43.61 | ppm   | .9614 % | 43.26 | 43.50 | 44.07 |  |  |
| Cd1 | 1.025 | ppm   | .6855 % | 1.018 | 1.024 | 1.032 |  |  |
| Cr4 | 4.977 | ppm   | .8988 % | 4.936 | 4.970 | 5.024 |  |  |
| Fe2 | 642.9 | H ppm | .8966 % | 637.8 | 641.8 | 649.1 |  |  |
| Mg4 | 2.522 | ppm   | .1430 % | 2.518 | 2.524 | 2.523 |  |  |
| Mn1 | 6.021 | ppm   | 1.121 % | 5.963 | 6.006 | 6.095 |  |  |
| Na2 | 1302. | H ppm | 1.513 % | 1284. | 1297. | 1323. |  |  |
| Pb1 | 5.176 | ppm   | .9690 % | 5.146 | 5.148 | 5.234 |  |  |
| Se4 | .9752 | ppm   | 5.199 % | .9420 | .9502 | 1.034 |  |  |

288634

\*\*\* Sample ID: 283572A 28-1 Seq: 60 16:53:49 28 Apr 1999 ICP

|     |       |       |         |       |       |       |  |  |
|-----|-------|-------|---------|-------|-------|-------|--|--|
| Ag1 | 4.847 | ppm   | .9434 % | 4.899 | 4.817 | 4.824 |  |  |
| Al3 | .1387 | ppm   | .9620 % | .1373 | .1389 | .1399 |  |  |
| As2 | 4.218 | ppm   | 2.190 % | 4.302 | 4.119 | 4.232 |  |  |
| Ba1 | 4.769 | ppm   | 1.177 % | 4.833 | 4.736 | 4.736 |  |  |
| Ca3 | 43.90 | ppm   | .7274 % | 44.25 | 43.64 | 43.80 |  |  |
| Cd1 | 1.010 | ppm   | .7459 % | 1.018 | 1.003 | 1.010 |  |  |
| Cr4 | 4.924 | ppm   | .8113 % | 4.968 | 4.892 | 4.910 |  |  |
| Fe2 | 645.8 | H ppm | .8534 % | 652.1 | 641.9 | 643.4 |  |  |
| Mg4 | 2.527 | ppm   | 2.042 % | 2.535 | 2.471 | 2.574 |  |  |
| Mn1 | 6.070 | ppm   | .9160 % | 6.132 | 6.026 | 6.050 |  |  |
| Na2 | 1315. | H ppm | 1.088 % | 1332. | 1307. | 1307. |  |  |
| Pb1 | 5.105 | ppm   | .6200 % | 5.142 | 5.091 | 5.083 |  |  |
| Se4 | .9987 | ppm   | 1.131 % | .9979 | .9879 | 1.010 |  |  |

\*\*\* Sample ID: 283572L 28-1 Seq: 61 16:57:13 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0003 | L ppm | -42.37% | -.0003 | -.0004 | -.0002 |  |  |
| Al3 | .0412  | L ppm | 20.62 % | .0315  | .0472  | .0449  |  |  |
| As2 | -.1604 | L ppm | -9.833% | -.1439 | -.1754 | -.1618 |  |  |
| Ba1 | .0605  | ppm   | .4734 % | .0603  | .0608  | .0604  |  |  |
| Ca3 | 9.623  | ppm   | .5132 % | 9.593  | 9.680  | 9.596  |  |  |
| Cd1 | .0011  | L ppm | 31.73 % | .0009  | .0010  | .0016  |  |  |
| Cr4 | .0228  | ppm   | 3.211 % | .0227  | .0235  | .0221  |  |  |
| Fe2 | 146.2  | ppm   | .5342 % | 145.6  | 147.1  | 145.9  |  |  |
| Mg4 | .5654  | ppm   | 2.544 % | .5816  | .5607  | .5540  |  |  |
| Mn1 | 1.341  | ppm   | .4415 % | 1.338  | 1.348  | 1.338  |  |  |
| Na2 | 283.7  | ppm   | .5112 % | 282.6  | 285.3  | 283.0  |  |  |
| Pb1 | .0395  | L ppm | 17.11 % | .0471  | .0343  | .0370  |  |  |
| Se4 | .0239  | L ppm | 218.6 % | -.0227 | .0140  | .0804  |  |  |

0312

CAS P53000  
17:00:37 28 Apr 1999

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| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|------|-------|-------|--------|---|---|---|---|---|
|------|-------|-------|--------|---|---|---|---|---|

\*\*\* Sample ID: ~~282929~~ *28-1* Seq: 63 17:00:37 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| Ag1 | -.0040 | L ppm | -72.12% | -.0053 | -.0062 | -.0007 |  |  |
| Al3 | .5674  | ppm   | .9076 % | .5617  | .5715  | .5691  |  |  |
| As2 | -.0622 | L ppm | -44.35% | -.0940 | -.0450 | -.0476 |  |  |
| Ba1 | .4232  | ppm   | .7588 % | .4262  | .4198  | .4236  |  |  |
| Ca3 | 597.7  | ppm   | .5771 % | 600.4  | 593.8  | 598.9  |  |  |
| Cd1 | .0115  | ppm   | 4.692 % | .0109  | .0117  | .0118  |  |  |
| Cr4 | .0318  | ppm   | 1.802 % | .0324  | .0315  | .0314  |  |  |
| Fe2 | 3.161  | ppm   | .7536 % | 3.188  | 3.149  | 3.145  |  |  |
| Mg4 | 17.28  | ppm   | .5425 % | 17.36  | 17.18  | 17.30  |  |  |
| Mn1 | 2.349  | ppm   | .7089 % | 2.358  | 2.330  | 2.360  |  |  |
| Na2 | 1370.  | H ppm | 1.000 % | 1383.  | 1355.  | 1371.  |  |  |
| Pb1 | .3725  | ppm   | 4.543 % | .3910  | .3578  | .3687  |  |  |
| Se4 | .0237  | L ppm | 51.94 % | .0371  | .0209  | .0130  |  |  |

\*\*\* Sample ID: MB 4/21 28-1 Seq: 64 17:04:01 28 Apr 1999 ICP

|     |        |       |         |        |        |        |  |  |
|-----|--------|-------|---------|--------|--------|--------|--|--|
| 1   | -.0014 | L ppm | -76.69% | -.0002 | -.0022 | -.0019 |  |  |
| 3   | .1152  | ppm   | 13.69 % | .1326  | .1019  | .1111  |  |  |
| As2 | .0226  | L ppm | 66.13 % | .0058  | .0276  | .0343  |  |  |
| Ba1 | .1395  | ppm   | 1.943 % | .1388  | .1425  | .1372  |  |  |
| Ca3 | .1661  | L ppm | 2.107 % | .1681  | .1681  | .1621  |  |  |
| Cd1 | .0021  | L ppm | 19.67 % | .0025  | .0021  | .0017  |  |  |
| Cr4 | .0008  | L ppm | 107.5 % | .0008  | -.0001 | .0016  |  |  |
| Fe2 | .1068  | ppm   | 1.466 % | .1051  | .1071  | .1082  |  |  |
| Mg4 | .0638  | L ppm | 16.94 % | .0762  | .0582  | .0569  |  |  |
| Mn1 | -.0054 | L ppm | -8.870% | -.0048 | -.0056 | -.0056 |  |  |
| Na2 | 1315.  | H ppm | 2.049 % | 1307.  | 1345.  | 1293.  |  |  |
| Pb1 | -.0208 | L ppm | -54.38% | -.0161 | -.0336 | -.0126 |  |  |
| Se4 | .0313  | L ppm | 123.0 % | .0576  | -.0129 | .0492  |  |  |

\*\*\* Sample ID: CCV 28-1 Seq: 65 17:07:25 28 Apr 1999 ICP

|     |       |     |         |       |       |       |  |  |
|-----|-------|-----|---------|-------|-------|-------|--|--|
| Ag1 | .4947 | ppm | .9887 % | .4994 | .4949 | .4896 |  |  |
| Al3 | 9.873 | ppm | 1.799 % | 10.08 | 9.758 | 9.783 |  |  |
| As2 | 1.991 | ppm | 2.082 % | 2.004 | 1.944 | 2.024 |  |  |
| Ba1 | 9.210 | ppm | 2.198 % | 9.444 | 9.095 | 9.092 |  |  |
| Ca3 | 50.88 | ppm | 1.091 % | 51.52 | 50.53 | 50.59 |  |  |
| Cd1 | 1.054 | ppm | .7219 % | 1.062 | 1.049 | 1.050 |  |  |
| Cr4 | .5103 | ppm | 1.193 % | .5169 | .5089 | .5050 |  |  |
| Fe2 | 5.155 | ppm | 1.322 % | 5.233 | 5.112 | 5.119 |  |  |
| Mg4 | 51.28 | ppm | .9884 % | 51.86 | 50.90 | 51.09 |  |  |
| Mn1 | .7610 | ppm | 1.572 % | .7748 | .7537 | .7545 |  |  |
| 2   | 49.16 | ppm | 2.420 % | 50.53 | 48.41 | 48.54 |  |  |
| Pb1 | 1.033 | ppm | 1.492 % | 1.016 | 1.043 | 1.042 |  |  |
| Se4 | .9794 | ppm | 2.297 % | .9617 | 1.005 | .9718 |  |  |

0313

CAS P53000  
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| Line                 | Conc.  | Units | SD/RSD  | 1       | 2                        | 3      | 4 | 5 |
|----------------------|--------|-------|---------|---------|--------------------------|--------|---|---|
| <hr/>                |        |       |         |         |                          |        |   |   |
| *** Sample ID: CCB   |        |       | 28-1    | Seq: 67 | 17:10:49 28 Apr 1999 ICP |        |   |   |
| Ag1                  | .0001  | L ppm | 767.6 % | .0008   | -.0003                   | -.0003 |   |   |
| Al3                  | .0030  | L ppm | 267.6 % | .0067   | -.0062                   | .0086  |   |   |
| As2                  | .0315  | L ppm | 22.34 % | .0371   | .0236                    | .0339  |   |   |
| Ba1                  | .0014  | L ppm | 27.36 % | .0010   | .0018                    | .0015  |   |   |
| Ca3                  | .0253  | L ppm | 19.97 % | .0198   | .0261                    | .0298  |   |   |
| Cd1                  | .0005  | L ppm | 71.16 % | .0005   | .0001                    | .0009  |   |   |
| Cr4                  | .0006  | L ppm | 136.5 % | .0015   | .0005                    | -.0002 |   |   |
| Fe2                  | .0161  | L ppm | 12.60 % | .0138   | .0166                    | .0178  |   |   |
| Mg4                  | .0115  | L ppm | 171.8 % | .0006   | -.0005                   | .0344  |   |   |
| Mn1                  | -.0005 | L ppm | -67.52% | -.0001  | -.0008                   | -.0007 |   |   |
| Na2                  | .2880  | L ppm | 4.643 % | .3007   | .2893                    | .2741  |   |   |
| Pb1                  | -.0023 | L ppm | -650.7% | .0122   | -.0177                   | -.0014 |   |   |
| Se4                  | .0249  | L ppm | 37.11 % | .0307   | .0297                    | .0142  |   |   |
| <hr/>                |        |       |         |         |                          |        |   |   |
| *** Sample ID: CRIF  |        |       | 28-1    | Seq: 68 | 17:14:13 28 Apr 1999 ICP |        |   |   |
| Ag1                  | .0201  | ppm   | 16.66 % | .0219   | .0162                    | .0221  |   |   |
| Al3                  | -.0032 | L ppm | -326.4% | -.0147  | .0062                    | -.0013 |   |   |
| As2                  | .0086  | L ppm | 233.4 % | .0286   | .0088                    | -.0116 |   |   |
| Ba1                  | .0001  | L ppm | 255.2 % | -.0002  | .0003                    | .0002  |   |   |
| Ca3                  | .0313  | L ppm | 2.741 % | .0303   | .0318                    | .0318  |   |   |
| Cd1                  | .0119  | ppm   | 7.463 % | .0109   | .0127                    | .0121  |   |   |
| Cr4                  | .0218  | ppm   | 4.049 % | .0228   | .0214                    | .0212  |   |   |
| Fe2                  | .0048  | L ppm | 79.70 % | .0006   | .0058                    | .0081  |   |   |
| Mg4                  | .0159  | L ppm | 20.89 % | .0195   | .0131                    | .0151  |   |   |
| Mn1                  | .0319  | ppm   | 2.275 % | .0326   | .0321                    | .0311  |   |   |
| Na2                  | .1934  | L ppm | 28.52 % | .2310   | .1301                    | .2190  |   |   |
| Pb1                  | .1209  | ppm   | 6.040 % | .1214   | .1133                    | .1279  |   |   |
| Se4                  | .0332  | L ppm | 82.39 % | .0026   | .0418                    | .0553  |   |   |
| <hr/>                |        |       |         |         |                          |        |   |   |
| *** Sample ID: ICSAF |        |       | 28-1    | Seq: 69 | 17:17:37 28 Apr 1999 ICP |        |   |   |
| Ag1                  | -.0055 | L ppm | -39.68% | -.0031  | -.0059                   | -.0075 |   |   |
| Al3                  | 506.5  | H ppm | .7870 % | 504.8   | 503.6                    | 511.0  |   |   |
| As2                  | -.2085 | L ppm | -12.46% | -.2161  | -.2299                   | -.1796 |   |   |
| Ba1                  | -.0005 | L ppm | -8.415% | -.0005  | -.0006                   | -.0005 |   |   |
| Ca3                  | 508.8  | ppm   | .3522 % | 509.6   | 506.7                    | 510.0  |   |   |
| Cd1                  | .0004  | L ppm | 199.3 % | .0001   | .0013                    | -.0002 |   |   |
| Cr4                  | -.0025 | L ppm | -26.92% | -.0030  | -.0017                   | -.0027 |   |   |
| Fe2                  | 185.2  | ppm   | .4517 % | 185.2   | 184.4                    | 186.1  |   |   |
| Mg4                  | 550.9  | H ppm | .3482 % | 551.9   | 548.7                    | 552.1  |   |   |
| Mn1                  | .0074  | L ppm | 7.799 % | .0076   | .0068                    | .0079  |   |   |
| Na2                  | .3471  | L ppm | 18.38 % | .4195   | .2989                    | .3231  |   |   |
| Pb1                  | -.0685 | L ppm | -19.58% | -.0754  | -.0771                   | -.0530 |   |   |
| Se4                  | .0296  | L ppm | 104.6 % | -.0055  | .0531                    | .0413  |   |   |

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| Line                                                        | Conc.  | Units | SD/RSD  | 1      | 2      | 3      | 4 | 5 |
|-------------------------------------------------------------|--------|-------|---------|--------|--------|--------|---|---|
| *** Sample ID: ICSABF 28-1 Seq: 71 17:21:01 28 Apr 1999 ICP |        |       |         |        |        |        |   |   |
| Ag1                                                         | .9823  | ppm   | 2.187 % | .9600  | .9838  | 1.003  |   |   |
| Al3                                                         | 503.4  | H ppm | 2.191 % | 491.7  | 504.9  | 513.6  |   |   |
| As2                                                         | -.3170 | L ppm | -20.87% | -.3851 | -.3131 | -.2529 |   |   |
| Ba1                                                         | .4490  | ppm   | 2.358 % | .4376  | .4509  | .4585  |   |   |
| Ca3                                                         | 506.9  | ppm   | 1.241 % | 500.1  | 507.9  | 512.6  |   |   |
| Cd1                                                         | 1.006  | ppm   | 1.013 % | .9952  | 1.006  | 1.016  |   |   |
| Cr4                                                         | .4748  | ppm   | 1.604 % | .4665  | .4764  | .4815  |   |   |
| Fe2                                                         | 185.3  | ppm   | 1.418 % | 182.7  | 185.3  | 188.0  |   |   |
| Mg4                                                         | 547.2  | H ppm | 1.200 % | 540.5  | 547.3  | 553.7  |   |   |
| Mn1                                                         | .4902  | ppm   | 1.659 % | .4821  | .4902  | .4983  |   |   |
| Na2                                                         | .3084  | L ppm | 4.123 % | .2939  | .3139  | .3175  |   |   |
| Pb1                                                         | .9459  | ppm   | 2.335 % | .9249  | .9439  | .9689  |   |   |
| Se4                                                         | -.0432 | L ppm | -160.4% | -.0639 | -.0999 | .0341  |   |   |
| *** Sample ID: CCV 28-1 Seq: 72 17:24:25 28 Apr 1999 ICP    |        |       |         |        |        |        |   |   |
| C 1                                                         | .5068  | ppm   | .7946 % | .5090  | .5092  | .5021  |   |   |
| 3                                                           | 10.02  | ppm   | .3229 % | 9.984  | 10.03  | 10.05  |   |   |
| As2                                                         | 1.983  | ppm   | 1.078 % | 1.965  | 1.978  | 2.006  |   |   |
| Ba1                                                         | 9.360  | ppm   | .1722 % | 9.341  | 9.369  | 9.370  |   |   |
| Ca3                                                         | 51.20  | ppm   | .1625 % | 51.12  | 51.28  | 51.19  |   |   |
| Cd1                                                         | 1.055  | ppm   | .2303 % | 1.052  | 1.055  | 1.057  |   |   |
| Cr4                                                         | .5135  | ppm   | .1266 % | .5128  | .5141  | .5137  |   |   |
| Fe2                                                         | 5.248  | ppm   | .1362 % | 5.242  | 5.248  | 5.256  |   |   |
| Mg4                                                         | 51.57  | ppm   | .2461 % | 51.42  | 51.65  | 51.62  |   |   |
| Mn1                                                         | .7673  | ppm   | .6204 % | .7629  | .7665  | .7723  |   |   |
| Na2                                                         | 49.65  | ppm   | .5967 % | 49.31  | 49.86  | 49.77  |   |   |
| Pb1                                                         | 1.052  | ppm   | .9378 % | 1.044  | 1.050  | 1.063  |   |   |
| Se4                                                         | .9816  | ppm   | .6144 % | .9872  | .9752  | .9824  |   |   |
| *** Sample ID: CCB 28-1 Seq: 73 17:27:49 28 Apr 1999 ICP    |        |       |         |        |        |        |   |   |
| Ag1                                                         | .0003  | L ppm | 594.6 % | .0010  | -.0018 | .0017  |   |   |
| Al3                                                         | .0581  | L ppm | 7.437 % | .0590  | .0619  | .0534  |   |   |
| As2                                                         | .0109  | L ppm | 155.6 % | .0073  | -.0040 | .0293  |   |   |
| Ba1                                                         | .0010  | L ppm | 12.38 % | .0010  | .0010  | .0008  |   |   |
| Ca3                                                         | .0639  | L ppm | 5.900 % | .0629  | .0608  | .0681  |   |   |
| Cd1                                                         | -.0004 | L ppm | -201.6% | -.0009 | .0005  | -.0006 |   |   |
| Cr4                                                         | -.0003 | L ppm | -694.1% | -.0018 | -.0007 | .0017  |   |   |
| Fe2                                                         | .0474  | L ppm | 1.294 % | .0480  | .0474  | .0468  |   |   |
| Mg4                                                         | .0919  | L ppm | 5.475 % | .0903  | .0879  | .0976  |   |   |
| Mn1                                                         | -.0010 | L ppm | -33.29% | -.0013 | -.0010 | -.0006 |   |   |
| ?                                                           | .0875  | L ppm | 29.74 % | .0977  | .1068  | .0579  |   |   |
| Pb1                                                         | -.0027 | L ppm | -180.1% | -.0081 | -.0012 | .0012  |   |   |
| Se4                                                         | .0449  | L ppm | 98.06 % | .0955  | .0246  | .0148  |   |   |

0315

# Metals Cover Page

Analyst: D Bond / MN

Date: 4/16/99

Instrument: FIMS

File Name: APR-16P

Reviewed By: DCD

Data Entered By: DCB

Manager Approval: 

| Starlims Run # | Analytes Used | Comments/<br>Problems |
|----------------|---------------|-----------------------|
| <u>37142</u> ✓ | <u>Hg.3</u>   |                       |
| <u>37143</u> ✓ | <u>Hg.4</u>   |                       |
|                |               |                       |
|                |               |                       |

**Submission #'s needing PKG 5 or ASP Report**  
(Place check mark in space provided when copy of raw data is made.)

| Sub #        | Run<br>Copy | Stds |
|--------------|-------------|------|
| NYSDEC 4-024 |             | ✓    |
| Leader 4-049 |             | ✓    |
| ENSR 4-055   |             | ✓    |

| Sub #        | Run<br>Copy | Stds |
|--------------|-------------|------|
| NYSDEC 4-108 |             | ✓    |
|              |             |      |
|              |             |      |

| Sub # | Run<br>Copy | Stds |
|-------|-------------|------|
|       |             |      |
|       |             |      |
|       |             |      |

0316

Method Name: Hg\_10ppb  
 Method Description: Method 245.1A FIMS  
 Element: Hg

Date: 04/16/1999  
 Technique: FI-MHS  
 Calibration Type:  
 Hg, Zero Intercept: Linear  
 Wavelength: 253.7 nm  
 Sample Info Name: ROUTINE.SIF

Results Data Set Name: APR-16P

Element: Hg Seq. No.: 24 AS Loc.: 1 Date: 04/16/1999  
 Sample ID: Calib Blank

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0001            | 0.0002       | 0.0001         | 10:25:42 | No             |
| 2      |                    |                  | 0.0000            | -0.0003      | 0.0000         | 10:26:12 | No             |
| Mean:  |                    |                  | 0.0000            |              |                |          |                |
| SD :   |                    |                  | 0.0000            |              |                |          |                |
| %RSD:  |                    |                  | 108.9135          |              |                |          |                |

Auto-zero performed.

Element: Hg Seq. No.: 25 AS Loc.: 2 Date: 04/16/1999  
 Sample ID: 0.5ppb std

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0026            | 0.0190       | 0.0026         | 10:27:30 | No             |
| 2      |                    |                  | 0.0026            | 0.0193       | 0.0026         | 10:28:00 | No             |
| Mean:  |                    |                  | 0.0026            |              |                |          |                |
| SD :   |                    |                  | 0.0000            |              |                |          |                |
| %RSD:  |                    |                  | 0.2706            |              |                |          |                |

[Hg] Standard number 1 applied. [0.5000]  
 Correlation Coefficient: 1.00000 Slope: 0.00519

Element: Hg Seq. No.: 26 AS Loc.: 3 Date: 04/16/1999  
 Sample ID: 1ppb std

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0052            | 0.0389       | 0.0053         | 10:29:19 | No             |
| 2      |                    |                  | 0.0053            | 0.0385       | 0.0053         | 10:29:49 | No             |
| Mean:  |                    |                  | 0.0053            |              |                |          |                |
| SD :   |                    |                  | 0.0000            |              |                |          |                |
| %RSD:  |                    |                  | 0.9297            |              |                |          |                |

[Hg] Standard number 2 applied. [1.000]  
 Correlation Coefficient: 0.99987 Slope: 0.00524

Element: Hg Seq. No.: 27 AS Loc.: 4 Date: 04/16/1999  
 Sample ID: 2ppb std

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0104            | 0.0771       | 0.0105         | 10:31:09 | No             |
| 2      |                    |                  | 0.0106            | 0.0767       | 0.0106         | 10:31:39 | No             |
| Mean:  |                    |                  | 0.0105            |              |                |          |                |
| SD :   |                    |                  | 0.0001            |              |                |          |                |
| %RSD:  |                    |                  | 1.0267            |              |                |          |                |

[Hg] Standard number 3 applied. [2.000]

0317

Correlation Coefficient: 0.99998

Slope: 0.00525

=====

Element: Hg Seq. No.: 28 AS Loc.: 5 Date: 04/16/1999  
 Sample ID: 5ppb std

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0265            | 0.1935       | 0.0266         | 10:33:00 | No             |
| 2      |                    |                  | 0.0263            | 0.1924       | 0.0263         | 10:33:30 | No             |
| Mean:  |                    |                  | 0.0264            |              |                |          |                |
| SD :   |                    |                  | 0.0002            |              |                |          |                |
| %RSD:  |                    |                  | 0.7121            |              |                |          |                |

[Hg] Standard number 4 applied. [5.000]  
 Correlation Coefficient: 0.99999 Slope: 0.00527

=====

Element: Hg Seq. No.: 29 AS Loc.: 6 Date: 04/16/1999  
 Sample ID: 10ppb std

-----

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      |                    |                  | 0.0520            | 0.3853       | 0.0521         | 10:34:52 | No             |
| 2      |                    |                  | 0.0523            | 0.3844       | 0.0524         | 10:35:23 | No             |
| Mean:  |                    |                  | 0.0522            |              |                |          |                |
| SD :   |                    |                  | 0.0002            |              |                |          |                |
| %RSD:  |                    |                  | 0.4321            |              |                |          |                |

[Hg] Standard number 5 applied. [10.00]  
 Correlation Coefficient: 0.99998 Slope: 0.00523

-----

## Calibration data for Hg

| Standard ID | Mean Signal<br>(Pk Height) | Entered<br>Concentration<br>(µg/L) | Calculated<br>Concentration<br>(µg/L) | Standard<br>Deviation | %RSD |
|-------------|----------------------------|------------------------------------|---------------------------------------|-----------------------|------|
| Calib Blank | 0.0000                     | ----                               | ----                                  | ----                  | ---- |
| 0.5ppb std  | 0.0026                     | 0.5000                             | 0.4959                                | 0.00001               | 0.3  |
| 1ppb std    | 0.0053                     | 1.0000                             | 1.005                                 | 0.00005               | 0.9  |
| 2ppb std    | 0.0105                     | 2.0000                             | 2.009                                 | 0.00011               | 1.0  |
| 5ppb std    | 0.0264                     | 5.0000                             | 5.046                                 | 0.00019               | 0.7  |
| 10ppb std   | 0.0522                     | 10.0000                            | 9.975                                 | 0.00022               | 0.4  |

Correlation Coefficient: 0.99998 Slope: 0.00523

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=====

Element: Hg Seq. No.: 30 AS Loc.: 7 Date: 04/16/1999  
 Sample ID: ICV

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 2.990              | 2.990            | 0.0156            | 0.1170       | 0.0157         | 10:36:46 | No             |
| 2      | 3.058              | 3.058            | 0.0160            | 0.1173       | 0.0160         | 10:37:15 | No             |
| Mean:  | 3.024              | 3.024            | 0.0158            |              |                |          |                |
| SD :   | 0.04828            | 0.04828          | 0.0003            |              |                |          |                |
| %RSD:  | 1.6                | 1.6              | 1.5969            |              |                |          |                |

QC value within specified limits.

=====

Element: Hg Seq. No.: 31 AS Loc.: 1 Date: 04/16/1999  
 Sample ID: ICB

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0046            | -0.0046          | 0.0000            | -0.0003      | 0.0000         | 10:38:36 | No             |
| 2      | -0.0028            | -0.0028          | 0.0000            | 0.0000       | 0.0000         | 10:39:06 | No             |

=====

Mean: -0.0037 -0.0037 0.0000  
 SD : 0.00130 0.00130 0.0000  
 %RSD: 35.2 35.2 35.2198  
 QC value within specified limits.

=====  
 Element: Hg Seq. No.: 32 AS Loc.: 8 Date: 04/16/1999  
 Sample ID: CRII

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.3969             | 0.3969            | 0.0021             | 0.0158       | 0.0021         | 10:40:27 | No             |
| 2      | 0.4086             | 0.4086            | 0.0021             | 0.0161       | 0.0022         | 10:40:57 | No             |
| Mean:  | 0.4028             | 0.4028            | 0.0021             |              |                |          |                |
| SD :   | 0.00828            | 0.00828           | 0.0000             |              |                |          |                |
| %RSD:  | 2.1                | 2.1               | 2.0550             |              |                |          |                |

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 33 AS Loc.: 7 Date: 04/16/1999  
 Sample ID: CCV

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 2.962              | 2.962             | 0.0155             | 0.1176       | 0.0155         | 10:42:20 | No             |
| 2      | 3.071              | 3.071             | 0.0161             | 0.1178       | 0.0161         | 10:42:50 | No             |
| Mean:  | 3.016              | 3.016             | 0.0158             |              |                |          |                |
| SD :   | 0.07749            | 0.07749           | 0.0004             |              |                |          |                |
| %RSD:  | 2.6                | 2.6               | 2.5689             |              |                |          |                |

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 34 AS Loc.: 1 Date: 04/16/1999  
 Sample ID: CCB

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0023            | -0.0023           | 0.0000             | -0.0004      | 0.0000         | 10:44:10 | No             |
| 2      | 0.0008             | 0.0008            | 0.0000             | 0.0001       | 0.0000         | 10:44:39 | No             |
| Mean:  | -0.0008            | -0.0008           | 0.0000             |              |                |          |                |
| SD :   | 0.00223            | 0.00223           | 0.0000             |              |                |          |                |
| %RSD:  | 296.0              | 296.0             | 296.0141           |              |                |          |                |

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 35 AS Loc.: 9 Date: 04/16/1999  
 Sample ID: PBW 4/15 285446

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | -0.0030            | -0.0030           | 0.0000             | -0.0003      | 0.0000         | 10:45:56 | No             |
| 2      | -0.0005            | -0.0005           | 0.0000             | -0.0002      | 0.0000         | 10:46:26 | No             |
| Mean:  | -0.0017            | -0.0017           | 0.0000             |              |                |          |                |
| SD :   | 0.00178            | 0.00178           | 0.0000             |              |                |          |                |
| %RSD:  | 102.6              | 102.6             | 102.6062           |              |                |          |                |

=====  
 Element: Hg Seq. No.: 36 AS Loc.: 10 Date: 04/16/1999  
 Sample ID: LCSW 285447

| Repl # | SampleConc<br>µg/L | StdndConc<br>µg/L | BlndCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|-------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.9888             | 0.9888            | 0.0052             | 0.0389       | 0.0052         | 10:47:43 | No             |
| 2      | 0.9765             | 0.9765            | 0.0051             | 0.0386       | 0.0051         | 10:48:13 | No             |
| Mean:  | 0.9827             | 0.9827            | 0.0051             |              |                |          |                |

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SD : 0.00872 0.00872 0.0000  
 %RSD: 0.9 0.9 0.8879

=====  
 Element: Hg Seq. No.: 37 AS Loc.: 11 Date: 04/16/1999  
 Sample ID: 282270

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0028            | -0.0028          | 0.0000            | -0.0001      | 0.0000         | 10:49:32 | No             |
| 2      | 0.0034             | 0.0034           | 0.0000            | 0.0003       | 0.0000         | 10:50:02 | No             |
| Mean:  | 0.0003             | 0.0003           | 0.0000            |              |                |          |                |
| SD :   | 0.00442            | 0.00442          | 0.0000            |              |                |          |                |
| %RSD:  | 1576               | 1576             | 1575.7984         |              |                |          |                |

=====  
 Element: Hg Seq. No.: 38 AS Loc.: 12 Date: 04/16/1999  
 Sample ID: 282271

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0028            | -0.0028          | 0.0000            | -0.0004      | 0.0000         | 10:51:21 | No             |
| 2      | 0.0012             | 0.0012           | 0.0000            | 0.0000       | 0.0000         | 10:51:51 | No             |
| Mean:  | -0.0008            | -0.0008          | 0.0000            |              |                |          |                |
| SD :   | 0.00282            | 0.00282          | 0.0000            |              |                |          |                |
| %RSD:  | 342.3              | 342.3            | 342.3145          |              |                |          |                |

=====  
 Element: Hg Seq. No.: 39 AS Loc.: 13 Date: 04/16/1999  
 Sample ID: 278494

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0011             | 0.0011           | 0.0000            | 0.0001       | 0.0000         | 10:53:12 | No             |
| 2      | -0.0017            | -0.0017          | 0.0000            | -0.0001      | 0.0000         | 10:53:42 | No             |
| Mean:  | -0.0003            | -0.0003          | 0.0000            |              |                |          |                |
| SD :   | 0.00195            | 0.00195          | 0.0000            |              |                |          |                |
| %RSD:  | 670.7              | 670.7            | 670.7098          |              |                |          |                |

=====  
 Element: Hg Seq. No.: 40 AS Loc.: 14 Date: 04/16/1999  
 Sample ID: 282722

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0065             | 0.0065           | 0.0000            | 0.0001       | 0.0001         | 10:55:03 | No             |
| 2      | 0.0031             | 0.0031           | 0.0000            | 0.0001       | 0.0000         | 10:55:33 | No             |
| Mean:  | 0.0048             | 0.0048           | 0.0000            |              |                |          |                |
| SD :   | 0.00239            | 0.00239          | 0.0000            |              |                |          |                |
| %RSD:  | 50.0               | 50.0             | 50.0335           |              |                |          |                |

=====  
 Element: Hg Seq. No.: 41 AS Loc.: 15 Date: 04/16/1999  
 Sample ID: 282722D 285442

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0075             | 0.0075           | 0.0000            | 0.0003       | 0.0001         | 10:56:55 | No             |
| 2      | 0.0044             | 0.0044           | 0.0000            | 0.0002       | 0.0001         | 10:57:25 | No             |
| Mean:  | 0.0060             | 0.0060           | 0.0000            |              |                |          |                |
| SD :   | 0.00224            | 0.00224          | 0.0000            |              |                |          |                |
| %RSD:  | 37.6               | 37.6             | 37.6372           |              |                |          |                |

=====  
 Element: Hg Seq. No.: 42 AS Loc.: 16 Date: 04/16/1999

Sample ID: 282722S 285443

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.9787             | 0.9787           | 0.0051            | 0.0389       | 0.0052         | 10:58:48 | No             |
| 2      | 0.9842             | 0.9842           | 0.0051            | 0.0390       | 0.0052         | 10:59:18 | No             |
| Mean:  | 0.9815             | 0.9815           | 0.0051            |              |                |          |                |
| SD :   | 0.00391            | 0.00391          | 0.0000            |              |                |          |                |
| %RSD:  | 0.4                | 0.4              | 0.3980            |              |                |          |                |

Element: Hg Seq. No.: 43 AS Loc.: 17 Date: 04/16/1999  
Sample ID: 282723

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0030             | 0.0030           | 0.0000            | 0.0000       | 0.0000         | 11:00:38 | No             |
| 2      | 0.0037             | 0.0037           | 0.0000            | 0.0000       | 0.0000         | 11:01:08 | No             |
| Mean:  | 0.0033             | 0.0033           | 0.0000            |              |                |          |                |
| SD :   | 0.00052            | 0.00052          | 0.0000            |              |                |          |                |
| %RSD:  | 15.7               | 15.7             | 15.6986           |              |                |          |                |

Element: Hg Seq. No.: 44 AS Loc.: 18 Date: 04/16/1999  
Sample ID: 282724

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0003             | 0.0003           | 0.0000            | -0.0002      | 0.0000         | 11:02:24 | No             |
| 2      | -0.0038            | -0.0038          | 0.0000            | -0.0004      | 0.0000         | 11:02:53 | No             |
| Mean:  | -0.0017            | -0.0017          | 0.0000            |              |                |          |                |
| SD :   | 0.00287            | 0.00287          | 0.0000            |              |                |          |                |
| %RSD:  | 165.7              | 165.7            | 165.6904          |              |                |          |                |

Element: Hg Seq. No.: 45 AS Loc.: 7 Date: 04/16/1999  
Sample ID: CCV

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 2.977              | 2.977            | 0.0156            | 0.1184       | 0.0156         | 11:04:12 | No             |
| 2      | 2.991              | 2.991            | 0.0156            | 0.1179       | 0.0157         | 11:04:42 | No             |
| Mean:  | 2.984              | 2.984            | 0.0156            |              |                |          |                |
| SD :   | 0.01026            | 0.01026          | 0.0001            |              |                |          |                |
| %RSD:  | 0.3                | 0.3              | 0.3438            |              |                |          |                |

QC value within specified limits.

Element: Hg Seq. No.: 46 AS Loc.: 1 Date: 04/16/1999  
Sample ID: CCB

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0088            | -0.0088          | 0.0000            | -0.0007      | 0.0000         | 11:06:02 | No             |
| 2      | 0.0005             | 0.0005           | 0.0000            | 0.0001       | 0.0000         | 11:06:32 | No             |
| Mean:  | -0.0042            | -0.0042          | 0.0000            |              |                |          |                |
| SD :   | 0.00658            | 0.00658          | 0.0000            |              |                |          |                |
| %RSD:  | 156.7              | 156.7            | 156.6854          |              |                |          |                |

QC value within specified limits.

Element: Hg Seq. No.: 47 AS Loc.: 19 Date: 04/16/1999  
Sample ID: 282783

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|------|----------------|
| 1      |                    |                  |                   |              |                |      |                |

| #     | µg/L    | µg/L    | Signal   | Area   | Height |          | Stored |
|-------|---------|---------|----------|--------|--------|----------|--------|
| 1     | 0.0084  | 0.0084  | 0.0000   | 0.0006 | 0.0001 | 11:07:49 | No     |
| 2     | 0.0009  | 0.0009  | 0.0000   | 0.0002 | 0.0000 | 11:08:19 | No     |
| Mean: | 0.0046  | 0.0046  | 0.0000   |        |        |          |        |
| SD :  | 0.00528 | 0.00528 | 0.0000   |        |        |          |        |
| %RSD: | 113.8   | 113.8   | 113.7591 |        |        |          |        |

=====  
 Element: Hg Seq. No.: 48 AS Loc.: 20 Date: 04/16/1999  
 Sample ID: 283328

| Repl # | SampleConc µg/L | StdndConc µg/L | BlndCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|----------------|-----------------|-----------|-------------|----------|-------------|
| 1      | 0.2971          | 0.2971         | 0.0016          | 0.0124    | 0.0016      | 11:09:37 | No          |
| 2      | 0.2976          | 0.2976         | 0.0016          | 0.0121    | 0.0016      | 11:10:07 | No          |
| Mean:  | 0.2974          | 0.2974         | 0.0016          |           |             |          |             |
| SD :   | 0.00032         | 0.00032        | 0.0000          |           |             |          |             |
| %RSD:  | 0.1             | 0.1            | 0.1071          |           |             |          |             |

=====  
 Element: Hg Seq. No.: 49 AS Loc.: 21 Date: 04/16/1999  
 Sample ID: 283329

| Repl # | SampleConc µg/L | StdndConc µg/L | BlndCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|----------------|-----------------|-----------|-------------|----------|-------------|
| 1      | -0.0015         | -0.0015        | 0.0000          | -0.0001   | 0.0000      | 11:11:25 | No          |
| 2      | 0.0022          | 0.0022         | 0.0000          | 0.0001    | 0.0000      | 11:11:55 | No          |
| Mean:  | 0.0004          | 0.0004         | 0.0000          |           |             |          |             |
| SD :   | 0.00263         | 0.00263        | 0.0000          |           |             |          |             |
| %RSD:  | 706.6           | 706.6          | 706.5527        |           |             |          |             |

=====  
 Element: Hg Seq. No.: 50 AS Loc.: 22 Date: 04/16/1999  
 Sample ID: 283330

| Repl # | SampleConc µg/L | StdndConc µg/L | BlndCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|----------------|-----------------|-----------|-------------|----------|-------------|
| 1      | 0.1131          | 0.1131         | 0.0006          | 0.0046    | 0.0006      | 11:13:13 | No          |
| 2      | 0.1091          | 0.1091         | 0.0006          | 0.0045    | 0.0006      | 11:13:43 | No          |
| Mean:  | 0.1111          | 0.1111         | 0.0006          |           |             |          |             |
| SD :   | 0.00282         | 0.00282        | 0.0000          |           |             |          |             |
| %RSD:  | 2.5             | 2.5            | 2.5345          |           |             |          |             |

=====  
 Element: Hg Seq. No.: 51 AS Loc.: 23 Date: 04/16/1999  
 Sample ID: 283331

| Repl # | SampleConc µg/L | StdndConc µg/L | BlndCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|----------------|-----------------|-----------|-------------|----------|-------------|
| 1      | 0.0019          | 0.0019         | 0.0000          | 0.0002    | 0.0000      | 11:15:02 | No          |
| 2      | 0.0008          | 0.0008         | 0.0000          | 0.0001    | 0.0000      | 11:15:32 | No          |
| Mean:  | 0.0013          | 0.0013         | 0.0000          |           |             |          |             |
| SD :   | 0.00081         | 0.00081        | 0.0000          |           |             |          |             |
| %RSD:  | 60.4            | 60.4           | 60.3562         |           |             |          |             |

=====  
 Element: Hg Seq. No.: 52 AS Loc.: 24 Date: 04/16/1999  
 Sample ID: 283332

| Repl # | SampleConc µg/L | StdndConc µg/L | BlndCorr Signal | Peak Area | Peak Height | Time     | Peak Stored |
|--------|-----------------|----------------|-----------------|-----------|-------------|----------|-------------|
| 1      | 0.0126          | 0.0126         | 0.0001          | 0.0006    | 0.0001      | 11:16:51 | No          |
| 2      | 0.0162          | 0.0162         | 0.0001          | 0.0007    | 0.0001      | 11:17:21 | No          |
| Mean:  | 0.0144          | 0.0144         | 0.0001          |           |             |          |             |
| SD :   | 0.00253         | 0.00253        | 0.0000          |           |             |          |             |

0322

%RSD: 17.5 17.5 17.5223

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Element: Hg Seq. No.: 53 AS Loc.: 25 Date: 04/16/1999  
 Sample ID: 283333

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0468             | 0.0468           | 0.0002             | 0.0017       | 0.0003         | 11:18:41 | No             |
| 2      | 0.0719             | 0.0719           | 0.0004             | 0.0031       | 0.0004         | 11:19:11 | No             |
| Mean:  | 0.0594             | 0.0594           | 0.0003             |              |                |          |                |
| SD :   | 0.01775            | 0.01775          | 0.0001             |              |                |          |                |
| %RSD:  | 29.9               | 29.9             | 29.9016            |              |                |          |                |

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Element: Hg Seq. No.: 54 AS Loc.: 26 Date: 04/16/1999  
 Sample ID: 283334

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0116             | 0.0116           | 0.0001             | 0.0006       | 0.0001         | 11:20:31 | No             |
| 2      | 0.0129             | 0.0129           | 0.0001             | 0.0006       | 0.0001         | 11:21:01 | No             |
| Mean:  | 0.0123             | 0.0123           | 0.0001             |              |                |          |                |
| SD :   | 0.00088            | 0.00088          | 0.0000             |              |                |          |                |
| %RSD:  | 7.2                | 7.2              | 7.1597             |              |                |          |                |

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Element: Hg Seq. No.: 55 AS Loc.: 27 Date: 04/16/1999  
 Sample ID: 283438

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0034             | 0.0034           | 0.0000             | 0.0003       | 0.0000         | 11:22:21 | No             |
| 2      | -0.0017            | -0.0017          | 0.0000             | -0.0002      | 0.0000         | 11:22:51 | No             |
| Mean:  | 0.0009             | 0.0009           | 0.0000             |              |                |          |                |
| SD :   | 0.00363            | 0.00363          | 0.0000             |              |                |          |                |
| %RSD:  | 424.4              | 424.4            | 424.4369           |              |                |          |                |

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Element: Hg Seq. No.: 56 AS Loc.: 28 Date: 04/16/1999  
 Sample ID: 283439

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0243             | 0.0243           | 0.0001             | 0.0011       | 0.0002         | 11:24:12 | No             |
| 2      | 0.0232             | 0.0232           | 0.0001             | 0.0012       | 0.0002         | 11:24:42 | No             |
| Mean:  | 0.0237             | 0.0237           | 0.0001             |              |                |          |                |
| SD :   | 0.00073            | 0.00073          | 0.0000             |              |                |          |                |
| %RSD:  | 3.1                | 3.1              | 3.0778             |              |                |          |                |

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Element: Hg Seq. No.: 57 AS Loc.: 7 Date: 04/16/1999  
 Sample ID: CCV

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlnkCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 3.428              | 3.428            | 0.0179             | 0.1363       | 0.0180         | 11:26:04 | No             |
| 2      | 3.403              | 3.403            | 0.0178             | 0.1353       | 0.0178         | 11:26:34 | No             |
| Mean:  | 3.416              | 3.416            | 0.0179             |              |                |          |                |
| SD :   | 0.01775            | 0.01775          | 0.0001             |              |                |          |                |
| %RSD:  | 0.5                | 0.5              | 0.5196             |              |                |          |                |

QC value within specified limits.

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Element: Hg Seq. No.: 58 AS Loc.: 1 Date: 04/16/1999 323

Sample ID: CCB

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0015            | -0.0015          | 0.0000            | 0.0000       | 0.0000         | 11:27:54 | No             |
| 2      | 0.0151             | 0.0151           | 0.0001            | 0.0013       | 0.0001         | 11:28:24 | No             |
| Mean:  | 0.0068             | 0.0068           | 0.0000            |              |                |          |                |
| SD :   | 0.01176            | 0.01176          | 0.0001            |              |                |          |                |
| %RSD:  | 173.8              | 173.8            | 173.8255          |              |                |          |                |

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 59 AS Loc.: 29 Date: 04/16/1999  
 Sample ID: 283440

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.1177             | 0.1177           | 0.0006            | 0.0049       | 0.0006         | 11:29:43 | No             |
| 2      | 0.1195             | 0.1195           | 0.0006            | 0.0049       | 0.0007         | 11:30:13 | No             |
| Mean:  | 0.1186             | 0.1186           | 0.0006            |              |                |          |                |
| SD :   | 0.00129            | 0.00129          | 0.0000            |              |                |          |                |
| %RSD:  | 1.1                | 1.1              | 1.0893            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 60 AS Loc.: 30 Date: 04/16/1999  
 Sample ID: 283441

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 7.510              | 7.510            | 0.0393            | 0.3214       | 0.0393         | 11:31:35 | No             |
| 2      | 7.518              | 7.518            | 0.0393            | 0.3176       | 0.0394         | 11:32:05 | No             |
| Mean:  | 7.514              | 7.514            | 0.0393            |              |                |          |                |
| SD :   | 0.00569            | 0.00569          | 0.0000            |              |                |          |                |
| %RSD:  |                    |                  |                   |              |                |          |                |

=====  
 Element: Hg Seq. No.: 61 AS Loc.: 31 Date: 04/16/1999  
 Sample ID: 283441D 285444

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 7.623              | 7.623            | 0.0399            | 0.3220       | 0.0399         | 11:33:28 | No             |
| 2      | 7.481              | 7.481            | 0.0391            | 0.3212       | 0.0392         | 11:33:58 | No             |
| Mean:  | 7.552              | 7.552            | 0.0395            |              |                |          |                |
| SD :   | 0.1004             | 0.1004           | 0.0005            |              |                |          |                |
| %RSD:  | 1.3                | 1.3              | 1.3297            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 62 AS Loc.: 32 Date: 04/16/1999  
 Sample ID: 283441S 285445

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 7.754              | 7.754            | 0.0406            | 0.3286       | 0.0406         | 11:35:17 | No             |
| 2      | 7.648              | 7.648            | 0.0400            | 0.3253       | 0.0400         | 11:35:47 | No             |
| Mean:  | 7.701              | 7.701            | 0.0403            |              |                |          |                |
| SD :   | 0.07431            | 0.07431          | 0.0004            |              |                |          |                |
| %RSD:  | 1.0                | 1.0              | 0.9649            |              |                |          |                |

=====  
 Element: Hg Seq. No.: 63 AS Loc.: 33 Date: 04/16/1999  
 Sample ID: 283442

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time   | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|--------|----------------|
|        |                    |                  |                   |              |                | 0:02:4 |                |

|       |         |         |        |        |        |          |    |
|-------|---------|---------|--------|--------|--------|----------|----|
| 1     | 4.504   | 4.504   | 0.0236 | 0.1850 | 0.0236 | 11:37:03 | No |
| 2     | 4.481   | 4.481   | 0.0234 | 0.1848 | 0.0235 | 11:37:33 | No |
| Mean: | 4.493   | 4.493   | 0.0235 |        |        |          |    |
| SD :  | 0.01642 | 0.01642 | 0.0001 |        |        |          |    |
| %RSD: | 0.4     | 0.4     | 0.3654 |        |        |          |    |

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Element: Hg Seq. No.: 64 AS Loc.: 34 Date: 04/16/1999  
Sample ID: 283443

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0072             | 0.0072           | 0.0000            | 0.0003       | 0.0001         | 11:38:48 | No             |
| 2      | -0.0004            | -0.0004          | 0.0000            | -0.0002      | 0.0000         | 11:39:18 | No             |
| Mean:  | 0.0034             | 0.0034           | 0.0000            |              |                |          |                |
| SD :   | 0.00540            | 0.00540          | 0.0000            |              |                |          |                |
| %RSD:  | 159.6              | 159.6            | 159.6231          |              |                |          |                |

=====

Element: Hg Seq. No.: 65 AS Loc.: 35 Date: 04/16/1999  
Sample ID: PBTCLP 4/15 285450

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0017            | -0.0017          | 0.0000            | 0.0000       | 0.0000         | 11:40:35 | No             |
| 2      | -0.0028            | -0.0028          | 0.0000            | -0.0004      | 0.0000         | 11:41:05 | No             |
| Mean:  | -0.0022            | -0.0022          | 0.0000            |              |                |          |                |
| SD :   | 0.00083            | 0.00083          | 0.0000            |              |                |          |                |
| %RSD:  | 37.0               | 37.0             | 37.0178           |              |                |          |                |

=====

Element: Hg Seq. No.: 66 AS Loc.: 36 Date: 04/16/1999  
Sample ID: LCSTCLP 285451

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 1.104              | 1.104            | 0.0058            | 0.0437       | 0.0058         | 11:42:22 | No             |
| 2      | 1.096              | 1.096            | 0.0057            | 0.0432       | 0.0058         | 11:42:52 | No             |
| Mean:  | 1.100              | 1.100            | 0.0058            |              |                |          |                |
| SD :   | 0.00520            | 0.00520          | 0.0000            |              |                |          |                |
| %RSD:  | 0.5                | 0.5              | 0.4726            |              |                |          |                |

=====

Element: Hg Seq. No.: 67 AS Loc.: 37 Date: 04/16/1999  
Sample ID: 282391

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0007            | -0.0007          | 0.0000            | 0.0000       | 0.0000         | 11:44:09 | No             |
| 2      | -0.0045            | -0.0045          | 0.0000            | -0.0003      | 0.0000         | 11:44:40 | No             |
| Mean:  | -0.0026            | -0.0026          | 0.0000            |              |                |          |                |
| SD :   | 0.00271            | 0.00271          | 0.0000            |              |                |          |                |
| %RSD:  | 104.0              | 104.0            | 104.0425          |              |                |          |                |

=====

Element: Hg Seq. No.: 68 AS Loc.: 38 Date: 04/16/1999  
Sample ID: 283561

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0079             | 0.0079           | 0.0000            | 0.0007       | 0.0001         | 11:45:57 | No             |
| 2      | 0.0182             | 0.0182           | 0.0001            | 0.0016       | 0.0001         | 11:46:27 | No             |
| Mean:  | 0.0131             | 0.0131           | 0.0001            |              |                |          |                |
| SD :   | 0.00730            | 0.00730          | 0.0000            |              |                |          |                |
| %RSD:  | 55.9               | 55.9             | 55.9048           |              |                |          |                |

0325

=====  
Element: Hg Seq. No.: 69 AS Loc.: 7 Date: 04/16/1999  
Sample ID: CCV  
=====

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlncCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 3.338              | 3.338            | 0.0175             | 0.1352       | 0.0175         | 11:47:47 | No             |
| 2      | 3.385              | 3.385            | 0.0177             | 0.1346       | 0.0177         | 11:48:18 | No             |
| Mean:  | 3.361              | 3.361            | 0.0176             |              |                |          |                |
| SD :   | 0.03309            | 0.03309          | 0.0002             |              |                |          |                |
| %RSD:  | 1.0                | 1.0              | 0.9846             |              |                |          |                |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 70 AS Loc.: 1 Date: 04/16/1999  
Sample ID: CCB  
=====

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlncCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0110             | 0.0110           | 0.0001             | 0.0008       | 0.0001         | 11:49:38 | No             |
| 2      | -0.0043            | -0.0043          | 0.0000             | -0.0002      | 0.0000         | 11:50:08 | No             |
| Mean:  | 0.0034             | 0.0034           | 0.0000             |              |                |          |                |
| SD :   | 0.01081            | 0.01081          | 0.0001             |              |                |          |                |
| %RSD:  | 320.7              | 320.7            | 320.6715           |              |                |          |                |

QC value within specified limits.

=====  
Element: Hg Seq. No.: 71 AS Loc.: 39 Date: 04/16/1999  
Sample ID: 283562  
=====

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlncCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0026             | 0.0026           | 0.0000             | 0.0003       | 0.0000         | 11:51:25 | No             |
| 2      | 0.0032             | 0.0032           | 0.0000             | 0.0002       | 0.0000         | 11:51:55 | No             |
| Mean:  | 0.0029             | 0.0029           | 0.0000             |              |                |          |                |
| SD :   | 0.00043            | 0.00043          | 0.0000             |              |                |          |                |
| %RSD:  | 14.7               | 14.7             | 14.7316            |              |                |          |                |

=====  
Element: Hg Seq. No.: 72 AS Loc.: 40 Date: 04/16/1999  
Sample ID: 283563  
=====

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlncCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0023             | 0.0023           | 0.0000             | 0.0001       | 0.0000         | 11:53:14 | No             |
| 2      | 0.0002             | 0.0002           | 0.0000             | 0.0000       | 0.0000         | 11:53:44 | No             |
| Mean:  | 0.0013             | 0.0013           | 0.0000             |              |                |          |                |
| SD :   | 0.00147            | 0.00147          | 0.0000             |              |                |          |                |
| %RSD:  | 116.8              | 116.8            | 116.7909           |              |                |          |                |

=====  
Element: Hg Seq. No.: 73 AS Loc.: 41 Date: 04/16/1999  
Sample ID: 283564  
=====

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | BlncCorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|--------------------|--------------|----------------|----------|----------------|
| 1      | 0.0234             | 0.0234           | 0.0001             | 0.0017       | 0.0002         | 11:55:04 | No             |
| 2      | -0.0012            | -0.0012          | 0.0000             | -0.0001      | 0.0000         | 11:55:34 | No             |
| Mean:  | 0.0111             | 0.0111           | 0.0001             |              |                |          |                |
| SD :   | 0.01736            | 0.01736          | 0.0001             |              |                |          |                |
| %RSD:  | 156.7              | 156.7            | 156.6956           |              |                |          |                |

=====  
Element: Hg Seq. No.: 74 AS Loc.: 42 Date: 04/16/1999  
Sample ID: 283565  
=====

| Repl | SampleConc | StndConc | BlncCorr | Peak | Peak   | Time | Peak   |
|------|------------|----------|----------|------|--------|------|--------|
| #    | µg/L       | µg/L     | Signal   | Area | Height |      | Stored |

| #     | µg/L    | µg/L    | Signal   | Area    | Height |          | Stored |
|-------|---------|---------|----------|---------|--------|----------|--------|
| 1     | -0.0037 | -0.0037 | 0.0000   | -0.0003 | 0.0000 | 11:56:54 | No     |
| 2     | 0.0021  | 0.0021  | 0.0000   | 0.0002  | 0.0000 | 11:57:24 | No     |
| Mean: | -0.0008 | -0.0008 | 0.0000   |         |        |          |        |
| SD :  | 0.00411 | 0.00411 | 0.0000   |         |        |          |        |
| %RSD: | 502.1   | 502.1   | 502.0568 |         |        |          |        |

=====  
 Element: Hg Seq. No.: 75 AS Loc.: 43 Date: 04/16/1999  
 Sample ID: 283566

| Repl  | SampleConc | StndConc | BlkCorr  | Peak    | Peak   | Time     | Peak   |
|-------|------------|----------|----------|---------|--------|----------|--------|
| #     | µg/L       | µg/L     | Signal   | Area    | Height |          | Stored |
| 1     | 0.0008     | 0.0008   | 0.0000   | -0.0001 | 0.0000 | 11:58:44 | No     |
| 2     | -0.0030    | -0.0030  | 0.0000   | -0.0001 | 0.0000 | 11:59:14 | No     |
| Mean: | -0.0011    | -0.0011  | 0.0000   |         |        |          |        |
| SD :  | 0.00270    | 0.00270  | 0.0000   |         |        |          |        |
| %RSD: | 244.5      | 244.5    | 244.4780 |         |        |          |        |

=====  
 Element: Hg Seq. No.: 76 AS Loc.: 44 Date: 04/16/1999  
 Sample ID: 283567

| Repl  | SampleConc | StndConc | BlkCorr | Peak    | Peak   | Time     | Peak   |
|-------|------------|----------|---------|---------|--------|----------|--------|
| #     | µg/L       | µg/L     | Signal  | Area    | Height |          | Stored |
| 1     | -0.0040    | -0.0040  | 0.0000  | -0.0003 | 0.0000 | 12:00:35 | No     |
| 2     | -0.0013    | -0.0013  | 0.0000  | -0.0002 | 0.0000 | 12:01:05 | No     |
| Mean: | -0.0027    | -0.0027  | 0.0000  |         |        |          |        |
| SD :  | 0.00194    | 0.00194  | 0.0000  |         |        |          |        |
| %RSD: | 72.7       | 72.7     | 72.6658 |         |        |          |        |

=====  
 Element: Hg Seq. No.: 77 AS Loc.: 45 Date: 04/16/1999  
 Sample ID: 283568

| Repl  | SampleConc | StndConc | BlkCorr | Peak    | Peak   | Time     | Peak   |
|-------|------------|----------|---------|---------|--------|----------|--------|
| #     | µg/L       | µg/L     | Signal  | Area    | Height |          | Stored |
| 1     | -0.0017    | -0.0017  | 0.0000  | 0.0000  | 0.0000 | 12:02:26 | No     |
| 2     | -0.0071    | -0.0071  | 0.0000  | -0.0007 | 0.0000 | 12:02:56 | No     |
| Mean: | -0.0044    | -0.0044  | 0.0000  |         |        |          |        |
| SD :  | 0.00385    | 0.00385  | 0.0000  |         |        |          |        |
| %RSD: | 86.9       | 86.9     | 86.8865 |         |        |          |        |

=====  
 Element: Hg Seq. No.: 78 AS Loc.: 46 Date: 04/16/1999  
 Sample ID: 283569

| Repl  | SampleConc | StndConc | BlkCorr  | Peak   | Peak   | Time     | Peak   |
|-------|------------|----------|----------|--------|--------|----------|--------|
| #     | µg/L       | µg/L     | Signal   | Area   | Height |          | Stored |
| 1     | 0.0045     | 0.0045   | 0.0000   | 0.0002 | 0.0001 | 12:04:18 | No     |
| 2     | 0.0005     | 0.0005   | 0.0000   | 0.0002 | 0.0000 | 12:04:48 | No     |
| Mean: | 0.0025     | 0.0025   | 0.0000   |        |        |          |        |
| SD :  | 0.00281    | 0.00281  | 0.0000   |        |        |          |        |
| %RSD: | 113.4      | 113.4    | 113.4165 |        |        |          |        |

=====  
 Element: Hg Seq. No.: 79 AS Loc.: 47 Date: 04/16/1999  
 Sample ID: 283570

| Repl  | SampleConc | StndConc | BlkCorr | Peak    | Peak   | Time     | Peak   |
|-------|------------|----------|---------|---------|--------|----------|--------|
| #     | µg/L       | µg/L     | Signal  | Area    | Height |          | Stored |
| 1     | -0.0001    | -0.0001  | 0.0000  | 0.0000  | 0.0000 | 12:06:10 | No     |
| 2     | -0.0026    | -0.0026  | 0.0000  | -0.0001 | 0.0000 | 12:06:40 | No     |
| Mean: | -0.0013    | -0.0013  | 0.0000  |         |        |          |        |
| SD :  | 0.00181    | 0.00181  | 0.0000  |         |        |          |        |

0327

%RSD: 135.3 135.3 135.3190

=====

Element: Hg Seq. No.: 80 AS Loc.: 48 Date: 04/16/1999

Sample ID: 283571

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0005             | 0.0005           | 0.0000            | 0.0001       | 0.0000         | 12:07:59 | No             |
| 2      | 0.0116             | 0.0116           | 0.0001            | 0.0006       | 0.0001         | 12:08:29 | No             |
| Mean:  | 0.0061             | 0.0061           | 0.0000            |              |                |          |                |
| SD :   | 0.00784            | 0.00784          | 0.0000            |              |                |          |                |
| %RSD:  | 129.1              | 129.1            | 129.1053          |              |                |          |                |

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Element: Hg Seq. No.: 81 AS Loc.: 7 Date: 04/16/1999

Sample ID: CCV

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 2.983              | 2.983            | 0.0156            | 0.1202       | 0.0156         | 12:09:48 | No             |
| 2      | 3.008              | 3.008            | 0.0157            | 0.1198       | 0.0158         | 12:10:18 | No             |
| Mean:  | 2.996              | 2.996            | 0.0157            |              |                |          |                |
| SD :   | 0.01734            | 0.01734          | 0.0001            |              |                |          |                |
| %RSD:  | 0.6                | 0.6              | 0.5789            |              |                |          |                |

QC value within specified limits.

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Element: Hg Seq. No.: 82 AS Loc.: 1 Date: 04/16/1999

Sample ID: CCB

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0018             | 0.0018           | 0.0000            | 0.0000       | 0.0000         | 12:11:38 | No             |
| 2      | -0.0024            | -0.0024          | 0.0000            | -0.0003      | 0.0000         | 12:12:08 | No             |
| Mean:  | -0.0003            | -0.0003          | 0.0000            |              |                |          |                |
| SD :   | 0.00298            | 0.00298          | 0.0000            |              |                |          |                |
| %RSD:  | 1090               | 1090             | 1089.9015         |              |                |          |                |

QC value within specified limits.

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Element: Hg Seq. No.: 83 AS Loc.: 49 Date: 04/16/1999

Sample ID: 283572

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0023            | -0.0023          | 0.0000            | -0.0001      | 0.0000         | 12:13:23 | No             |
| 2      | 0.0044             | 0.0044           | 0.0000            | 0.0003       | 0.0001         | 12:13:54 | No             |
| Mean:  | 0.0011             | 0.0011           | 0.0000            |              |                |          |                |
| SD :   | 0.00470            | 0.00470          | 0.0000            |              |                |          |                |
| %RSD:  | 439.8              | 439.8            | 439.7622          |              |                |          |                |

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Element: Hg Seq. No.: 84 AS Loc.: 50 Date: 04/16/1999

Sample ID: 283572D 285448

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| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0050            | -0.0050          | 0.0000            | -0.0004      | 0.0000         | 12:15:09 | No             |
| 2      | 0.0087             | 0.0087           | 0.0000            | 0.0004       | 0.0001         | 12:15:39 | No             |
| Mean:  | 0.0018             | 0.0018           | 0.0000            |              |                |          |                |
| SD :   | 0.00963            | 0.00963          | 0.0001            |              |                |          |                |
| %RSD:  | 521.9              | 521.9            | 521.8844          |              |                |          |                |

=====

Element: Hg Seq. No.: 85 AS Loc.: 51 Date: 04/16/1999  
 Sample ID: 283572S 285449

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 1.068              | 1.068            | 0.0056            | 0.0428       | 0.0056         | 12:16:55 | No             |
| 2      | 1.060              | 1.060            | 0.0055            | 0.0430       | 0.0056         | 12:17:25 | No             |
| Mean:  | 1.064              | 1.064            | 0.0056            |              |                |          |                |
| SD :   | 0.00582            | 0.00582          | 0.0000            |              |                |          |                |
| %RSD:  | 0.5                | 0.5              | 0.5468            |              |                |          |                |

Element: Hg Seq. No.: 86 AS Loc.: 52 Date: 04/16/1999  
 Sample ID: M BLK 4/13

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | 0.0045             | 0.0045           | 0.0000            | 0.0002       | 0.0001         | 12:18:42 | No             |
| 2      | -0.0091            | -0.0091          | 0.0000            | -0.0012      | 0.0000         | 12:19:12 | No             |
| Mean:  | -0.0023            | -0.0023          | 0.0000            |              |                |          |                |
| SD :   | 0.00957            | 0.00957          | 0.0001            |              |                |          |                |
| %RSD:  | 417.3              | 417.3            | 417.2814          |              |                |          |                |

Element: Hg Seq. No.: 87 AS Loc.: 53 Date: 04/16/1999  
 Sample ID: -

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0046            | -0.0046          | 0.0000            | -0.0002      | 0.0000         | 12:20:28 | No             |
| 2      | -0.0016            | -0.0016          | 0.0000            | -0.0001      | 0.0000         | 12:20:58 | No             |
| Mean:  | -0.0031            | -0.0031          | 0.0000            |              |                |          |                |
| SD :   | 0.00211            | 0.00211          | 0.0000            |              |                |          |                |
| %RSD:  | 68.0               | 68.0             | 67.9827           |              |                |          |                |

Element: Hg Seq. No.: 88 AS Loc.: 54 Date: 04/16/1999  
 Sample ID: -

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0039            | -0.0039          | 0.0000            | -0.0004      | 0.0000         | 12:22:16 | No             |
| 2      | 0.0051             | 0.0051           | 0.0000            | 0.0004       | 0.0001         | 12:22:46 | No             |
| Mean:  | 0.0006             | 0.0006           | 0.0000            |              |                |          |                |
| SD :   | 0.00633            | 0.00633          | 0.0000            |              |                |          |                |
| %RSD:  | 1066               | 1066             | 1065.6411         |              |                |          |                |

Element: Hg Seq. No.: 89 AS Loc.: 55 Date: 04/16/1999  
 Sample ID: -

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time     | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|----------|----------------|
| 1      | -0.0019            | -0.0019          | 0.0000            | -0.0001      | 0.0000         | 12:24:05 | No             |
| 2      | -0.0052            | -0.0052          | 0.0000            | -0.0003      | 0.0000         | 12:24:35 | No             |
| Mean:  | -0.0035            | -0.0035          | 0.0000            |              |                |          |                |
| SD :   | 0.00233            | 0.00233          | 0.0000            |              |                |          |                |
| %RSD:  | 65.6               | 65.6             | 65.6098           |              |                |          |                |

Element: Hg Seq. No.: 90 AS Loc.: 7 Date: 04/16/1999  
 Sample ID: CCV

| Repl # | SampleConc<br>µg/L | StndConc<br>µg/L | Blncorr<br>Signal | Peak<br>Area | Peak<br>Height | Time | Peak<br>Stored |
|--------|--------------------|------------------|-------------------|--------------|----------------|------|----------------|
|--------|--------------------|------------------|-------------------|--------------|----------------|------|----------------|

|       |         |         |        |        |        |          |    |
|-------|---------|---------|--------|--------|--------|----------|----|
| 1     | 2.996   | 2.996   | 0.0157 | 0.1197 | 0.0157 | 12:25:56 | No |
| 2     | 2.993   | 2.993   | 0.0157 | 0.1194 | 0.0157 | 12:26:26 | No |
| Mean: | 2.994   | 2.994   | 0.0157 |        |        |          |    |
| SD :  | 0.00202 | 0.00202 | 0.0000 |        |        |          |    |
| %RSD: |         |         |        |        |        |          |    |

QC value within specified limits.

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Element: Hg      Seq. No.: 91      AS Loc.: 1      Date: 04/16/1999

Sample ID: CCB

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| Repl  | SampleConc | StndConc | Blncorr  | Peak    | Peak   | Time     | Peak   |
|-------|------------|----------|----------|---------|--------|----------|--------|
| #     | µg/L       | µg/L     | Signal   | Area    | Height |          | Stored |
| 1     | -0.0003    | -0.0003  | 0.0000   | 0.0000  | 0.0000 | 12:27:46 | No     |
| 2     | -0.0025    | -0.0025  | 0.0000   | -0.0001 | 0.0000 | 12:28:16 | No     |
| Mean: | -0.0014    | -0.0014  | 0.0000   |         |        |          |        |
| SD :  | 0.00155    | 0.00155  | 0.0000   |         |        |          |        |
| %RSD: | 110.1      | 110.1    | 110.1068 |         |        |          |        |

QC value within specified limits.

## CAS - ROCHESTER ICP waters digest log

method: SW846 3010, EPA 600 (4.1.3) 13005, EPA 600 (4.1.4) ICLP waters

DATE: 4/27/99

TECH: PCD

CLP spike witness: mm

Approved by: \_\_\_\_\_

| client/order #           | pH | init. vol (mls) | init. color/clarity | final vol (mls) | final color/clarity | metals requested     | comments                  |
|--------------------------|----|-----------------|---------------------|-----------------|---------------------|----------------------|---------------------------|
| 1 PBTCLP                 | 12 | 100             | colorless/clear     | 100             | colorless/clear     | Ag As Se Cd Cr Pb Se | 0.05ml Ba<br>1.0ml TCLP-1 |
| 2 LCSTCLP                |    |                 |                     |                 |                     |                      | Red g.                    |
| 3 N45 DEC (4-108) 283561 |    |                 |                     |                 | yellow/clear        |                      |                           |
| 4 562                    |    |                 |                     |                 | colorless/clear     |                      |                           |
| 5 563                    |    |                 |                     |                 | yellow/clear        |                      |                           |
| 6 564                    |    |                 |                     |                 | colorless/clear     |                      |                           |
| 7 565                    |    |                 |                     |                 | yellow/clear        |                      |                           |
| 8 566                    |    |                 |                     |                 |                     |                      |                           |
| 9 567                    |    |                 |                     |                 | colorless/clear     |                      |                           |
| 10 568                   |    |                 |                     |                 |                     |                      |                           |
| 11 569                   |    |                 |                     |                 |                     |                      |                           |
| 12 570                   |    |                 |                     |                 |                     |                      |                           |
| 13 571                   |    |                 |                     |                 |                     |                      |                           |
| 14 572                   |    |                 | yellow/clear        |                 | yellow/clear        |                      |                           |
| 15 572 DUP               |    |                 |                     |                 |                     |                      |                           |
| 16 572 SPK               |    |                 |                     |                 |                     |                      | 0.05ml Ba<br>1.0ml TCLP-1 |
| 17 (4-664) 282929        |    |                 | colorless/clear     |                 | colorless/clear     |                      |                           |
| 18 Method Blank 4/21     |    |                 |                     |                 |                     |                      |                           |
| 19                       |    |                 |                     |                 |                     |                      |                           |
| 20                       |    |                 |                     |                 | 4/27/99             |                      |                           |
| 21                       |    |                 |                     |                 | 218                 |                      |                           |
| 22                       |    |                 |                     |                 |                     |                      |                           |
| 23                       |    |                 |                     |                 |                     |                      |                           |
| 24                       |    |                 |                     |                 |                     |                      |                           |

spikes used: Spike 1 (date: —) Spike 2 (date: —) Spike 3 (date: —) Spike 4 (date: —) Spike 6 (date: —)

HNO3 lot # N04025

HCL lot # M50036

TCLP-1 Env Std N-MED 58090

Ba Accu 196125059

00035

## Columbia Analytical Services

Analysis For: Hg  
 Bath Temp: 95°  
 Time In: 11:00 AM  
 Time Out: 1:25 AM

EPA Method: 7470/7471/245.1/245.5  
 TCLP

Analyst: mon/DCB  
 Prep Date: 4/15/99  
 Run Date: 4/15/99 4/16/99  
DCB

|    | Client / Submission #     | Sample Number | Initial Wgt/Volume (g/ml) | Final Volume (ml) |    | Client / Submission # | Sample Number | Initial Wgt/Volume (g/ml) | Final Volume (ml) |
|----|---------------------------|---------------|---------------------------|-------------------|----|-----------------------|---------------|---------------------------|-------------------|
| 1  |                           | STD 0         |                           | 100               | 31 | DAY (4-030)           | 282391        | 10                        | 100               |
| 2  |                           | ICB/CCB       |                           |                   | 32 | NYSDEC (4-108)        | 283561        |                           |                   |
| 3  |                           | PBSW          | 100                       |                   | 33 |                       | 283562        |                           |                   |
| 4  |                           | LCSW          |                           |                   | 34 |                       | 283563        |                           |                   |
| 5  | <del>██████</del> (4-024) | 282270        |                           |                   | 35 |                       | 283564        |                           |                   |
| 6  |                           | 282271        |                           |                   | 36 |                       | 283565        |                           |                   |
| 7  | <del>██████</del> (3-154) | 278494        |                           |                   | 37 |                       | 283566        |                           |                   |
| 8  | <del>██████</del> (4-049) | 282722        |                           |                   | 38 |                       | 283567        |                           |                   |
| 9  |                           | 7220UP        |                           |                   | 39 |                       | 283568        |                           |                   |
| 10 |                           | 7220PK        |                           |                   | 40 |                       | 283569        |                           |                   |
| 11 |                           | 282723        |                           |                   | 41 |                       | 283570        |                           |                   |
| 12 |                           | 282724        |                           |                   | 42 |                       | 283571        |                           |                   |
| 13 | <del>██████</del> (4-055) | 282783        |                           |                   | 43 |                       | 283572        |                           |                   |
| 14 | <del>██████</del> (4-090) | 283328        |                           |                   | 44 |                       | 5720UP        |                           |                   |
| 15 |                           | 283329        |                           |                   | 45 |                       | 5725PK        |                           |                   |
| 16 |                           | 283330        |                           |                   | 46 |                       | 17B 4/13      |                           |                   |
| 17 |                           | 283331        |                           |                   | 47 |                       |               |                           |                   |
| 18 |                           | 283332        |                           |                   | 48 |                       |               |                           |                   |
| 19 |                           | 283333        |                           |                   | 49 |                       |               |                           |                   |
| 20 |                           | 283334        |                           |                   | 50 |                       |               |                           |                   |
| 21 |                           | 283438        |                           |                   | 51 |                       |               |                           |                   |
| 22 |                           | 283439        |                           |                   | 52 |                       |               |                           |                   |
| 23 |                           | 283440        |                           |                   |    |                       | Std 0.5*      | 0.50ml of 0.1ppm          | 100               |
| 24 |                           | 283441        |                           |                   |    |                       | Std 1.0*      | 1.00ml of 0.1ppm          | 100               |
| 25 |                           | 4410UP        |                           |                   |    |                       | Std 2.0*      | 2.00ml of 0.1ppm          | 100               |
| 26 |                           | 4415PK        |                           |                   |    |                       | Std 5.0*      | 5.00ml of 0.1ppm          | 100               |
| 27 |                           | 283442        |                           |                   |    |                       | Std 10.0*     | 10.0ml of 0.1ppm          | 100               |
| 28 |                           | 283443        | ✓                         |                   |    |                       | ICV/CCV**     | 3.00ml of 0.1ppm          | 100               |
| 29 |                           | PBTCLP        | 10                        |                   |    |                       | LCSW/MS*      | 1.00ml of 0.1ppm          | 100               |
| 30 |                           | LCSTCLP       | ✓                         |                   |    |                       | CRDL*         | 0.40ml of 0.1ppm          | 100               |

## Lot # of Reagents Used:

HNO3: N04025H2SO4: 38274HCL: M50036K2S2O8: J03776KMnO4: 37302825SnCl2: 38132830NaCl: 38023819NH2OH-HCL: M12H06LCSS ERA Lot#: —\*Source Standard: (Vendor/Lot #) EM A8035081\*\*ICV Standard: (Vendor/Lot #) CPI 8EK067\*(10ppm stock prepped on: 4/12/99)\*\*(10ppm stock prepped on: 4/12/99)\*(0.1ppm working std prepped on: 4/15/99)\*\*(0.1ppm working std prepped on: 4/15/99)Comments/Problems: APR-16P

03020037

# LEEMAN CALIBRATION STANDARD

| ELEM   | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL<br>(MLS) | FINAL<br>CONC<br>(PPM) | MATRIX              | PREP BY/<br>DATE |
|--------|-----------------|----------------|---------------|-----------------------|------------------------|---------------------|------------------|
| MULTI  | AB08050806      | MULTI          | 2.00          | 100                   | MULTI                  | 5%HCL               | *GMM 4/28/99     |
| CA     |                 | 5010           |               |                       | 100                    | 2%HNO3              | GMM 4/28/99      |
| MG     |                 | 4983           |               |                       |                        |                     | *GMM 4/28/99     |
| K      |                 | 4981           |               |                       |                        |                     |                  |
| NA     |                 | 5002           |               |                       |                        |                     |                  |
| MULTI  | EM/105-7150     | MULTI          | 1.00          | 100                   | MULTI                  | 15% HCL<br>*6% HNO3 |                  |
| AG     |                 | 100            |               |                       | 1.00                   |                     |                  |
| CR     |                 | 100            |               |                       | 1.00                   |                     |                  |
| MN     |                 | 150            |               |                       | 1.50                   |                     |                  |
| NI     |                 | 400            |               |                       | 4.00                   |                     |                  |
| ZN     |                 | 200            |               |                       | 2.00                   |                     |                  |
| MULTI  | EPI/8DK012E     | MULTI          | 1.00          | 100                   | MULTI                  |                     |                  |
| AL     |                 | 2000           |               |                       | 20.0                   |                     |                  |
| BA     |                 | 2000           |               |                       | 20.0                   |                     |                  |
| BE     |                 | 50             |               |                       | 0.500                  |                     |                  |
| CO     |                 | 50.0           |               |                       | 5.00                   |                     |                  |
| CU     |                 | 250            |               |                       | 2.50                   |                     |                  |
| FE     |                 | 1000           |               |                       | 10.0                   |                     |                  |
| V      |                 | 500            |               |                       | 5.00                   |                     |                  |
| MULTI  | EM/085-751C     | MULTI          | 4.00          | 100                   | MULTI                  |                     |                  |
| AS     |                 | 101            |               |                       | 4.00                   |                     |                  |
| CD     |                 | 50             |               |                       | 2.00                   |                     |                  |
| PB     |                 | 50             |               |                       | 2.00                   |                     |                  |
| SE     |                 | 50             |               |                       | 2.00                   |                     |                  |
| TL     |                 | 100            |               |                       | 4.00                   |                     |                  |
| INDIV. |                 |                |               |                       |                        |                     |                  |
| SB     | BAKE/M38426     | 1000           | 1.00          | 100                   | 10.0                   |                     |                  |
|        |                 |                |               |                       |                        |                     |                  |

0333

000007

LEEMAN ICV/CCV

| ELEM   | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL<br>(MLS) | FINAL<br>CONC<br>(PPM) | MATRIX   | PREP BY/<br>DATE |
|--------|-----------------|----------------|---------------|-----------------------|------------------------|----------|------------------|
| MULTI  | KPI/9CM186      | MULTI          | 1.00          | 100                   | MULTI                  | 5%HCL    | *GMM 4/27/99     |
| CA     |                 | 5000           |               |                       | 50.0                   | 2%HNO3   | GMM 4/27/99      |
| MG     |                 | ↓              |               |                       | ↓                      |          | *GMM 4/27/99     |
| K      |                 |                |               |                       |                        |          |                  |
| NA     |                 | ↓              |               |                       | ↓                      | 15% HCL  |                  |
| MULTI  |                 | MULTI          | 0.500         | 100                   | MULTI                  | *6% HNO3 |                  |
| AG     |                 |                |               |                       |                        |          |                  |
| CR     |                 |                |               |                       |                        |          |                  |
| MN     |                 |                |               |                       |                        |          |                  |
| NI     |                 |                |               |                       |                        |          |                  |
| ZN     |                 |                |               |                       |                        |          |                  |
| MULTI  |                 | MULTI          | 0.500         | 100                   | MULTI                  |          |                  |
| AL     |                 |                |               |                       |                        |          |                  |
| BA     |                 |                |               |                       |                        |          |                  |
| BE     |                 |                |               |                       |                        |          |                  |
| CO     |                 |                |               |                       |                        |          |                  |
| CU     |                 |                |               |                       |                        |          |                  |
| FE     |                 |                |               |                       |                        |          |                  |
| V      |                 |                |               |                       |                        |          |                  |
| MULTI  |                 | MULTI          | 2.00          | 100                   | MULTI                  |          |                  |
| AS     |                 |                |               |                       |                        |          |                  |
| CD     |                 |                |               |                       |                        |          |                  |
| PB     |                 |                |               |                       |                        |          |                  |
| SE     |                 |                |               |                       |                        |          |                  |
| TL     |                 |                |               |                       |                        |          |                  |
| INDIV. |                 |                |               |                       |                        |          |                  |
| SB     |                 | 1000           | 0.500         |                       | 5.00                   |          |                  |
|        |                 |                |               |                       |                        |          |                  |

0304

000031

# LEEMAN CRI

| ELEM  | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL<br>(MLS) | FINAL<br>CONC<br>(PPM) | MATRIX          | PREP BY/<br>DATE |
|-------|-----------------|----------------|---------------|-----------------------|------------------------|-----------------|------------------|
| MULTI | CPI/            | MULTI          | 0.200         | 200                   | MULTI                  | 5%HCL<br>2%HNO3 | mm 2/2/99        |
| AG    | 729626          | 20             |               |                       | 0.0200                 |                 | mm 3/2/99        |
| AS    |                 | 20             |               |                       | ↓                      |                 | mm 3/30/99       |
| BE    |                 | 10             |               |                       | 0.0100                 |                 |                  |
| CD    |                 | 10             |               |                       | ↓                      |                 |                  |
| CR    |                 | 20             |               |                       | 0.0200                 |                 |                  |
| CO    |                 | 100            |               |                       | 0.100                  |                 |                  |
| CU    |                 | 50             |               |                       | 0.0500                 |                 |                  |
| MN    |                 | 30             |               |                       | 0.0300                 |                 |                  |
| NI    |                 | 80             |               |                       | 0.0800                 |                 |                  |
| PB    |                 | 6              |               |                       | SEE BELOW              |                 |                  |
| SB    |                 | 120            |               |                       | 0.120                  |                 |                  |
| SE    |                 | 10             |               |                       | 0.0100                 |                 |                  |
| TL    |                 | 20             |               |                       | 0.0200                 |                 |                  |
| V     |                 | 100            |               |                       | 0.100                  |                 |                  |
| ZN    |                 | 40             |               |                       | 0.0400                 |                 |                  |
|       |                 |                |               |                       |                        |                 |                  |
| PB    | CPI/<br>691021  | 1000           | 0.0200        |                       | 0.106                  |                 |                  |
|       |                 |                |               |                       |                        |                 |                  |
|       |                 |                |               |                       |                        |                 |                  |
|       |                 |                |               |                       |                        |                 |                  |
|       |                 |                |               |                       |                        |                 |                  |

AG came in separate bottle with same lot number

000051

0005

# ICSA/ICSAB

| ICSA  |                 |                |               |                       |                        |                 |                                                    |
|-------|-----------------|----------------|---------------|-----------------------|------------------------|-----------------|----------------------------------------------------|
| ELEM  | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL<br>(MLS) | FINAL<br>CONC<br>(PPM) | MATRIX          | PREP BY/<br>DATE                                   |
| MULTI | CPI/9CM122      | MULTI          | 50            | 500                   | MULTI                  | 5%HCL<br>2%HNO3 | DM 3/2/99<br>DM 3/24/99<br>DM 4/2/99<br>MM 4/19/99 |
| AL    |                 | 5000           |               |                       | 500                    |                 |                                                    |
| CA    |                 | 5000           |               |                       | 500                    |                 |                                                    |
| FE    |                 | 2000           |               |                       | 200                    |                 |                                                    |
| MG    |                 | 5000           |               |                       | 500                    |                 |                                                    |
|       |                 |                |               |                       |                        |                 |                                                    |
|       |                 |                |               |                       |                        |                 |                                                    |
|       |                 |                |               |                       |                        |                 |                                                    |
| ICSAB |                 |                |               |                       |                        |                 |                                                    |
| MULTI | CPI/9CM122      | MULTI          | 50            | 500                   | MULTI                  |                 | MM 3/30/99                                         |
| AL    |                 | 5000           |               |                       | 500                    |                 | DM 4/13/99                                         |
| CA    |                 | 5000           |               |                       | 500                    |                 | DM 4/15/99                                         |
| FE    |                 | 2000           |               |                       | 200                    |                 | MM 4/26/99                                         |
| MG    |                 | 5000           |               |                       | 500                    |                 |                                                    |
|       |                 |                |               |                       |                        |                 |                                                    |
|       |                 |                |               |                       |                        |                 |                                                    |
|       |                 |                |               |                       |                        |                 |                                                    |
| MULTI | CPI/8HB112      | MULTI          | 5.00          |                       | MULTI                  |                 |                                                    |
| AG    |                 | 100            |               |                       | 1.00                   |                 |                                                    |
| BA    |                 | 50             |               |                       | 0.500                  |                 |                                                    |
| BE    |                 | 50             |               |                       | ↓                      |                 |                                                    |
| CD    |                 | 100            |               |                       | 1.00                   |                 |                                                    |
| CO    |                 | 50             |               |                       | 0.500                  |                 |                                                    |
| CR    |                 | 50             |               |                       | ↓                      |                 |                                                    |
| CU    |                 | 50             |               |                       | ↓                      |                 |                                                    |
| MN    |                 | 50             |               |                       | ↓                      |                 |                                                    |
| NI    |                 | 100            |               |                       | 1.00                   |                 |                                                    |
| PB    |                 | 100            |               |                       | ↓                      |                 |                                                    |
| V     |                 | 50             |               |                       | 0.500                  |                 |                                                    |
| ZN    |                 | 100            |               |                       | 1.00                   |                 |                                                    |

prepped to  
1000mls  
instead of  
500mls →

0306 000108

# MERCURY STANDARDS

## CAL STK A

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX | PREP BY/<br>DATE |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| HG   | EM A8035081     | 1000           | 1.00          | 100                 | 10.0                 | 5%HNO3 | DLB 4/12/99      |

## CAL STK B

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|
| HG   | CAL STK A       | 10.0           | 1.00          | 100                 | 0.100                | 5%HNO3 |

## CALIBRATION STDS USING ABOVE CAL STK B

| STD<br>(PPB) | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPB) | MATRIX | PREP BY/<br>DATE |
|--------------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| 0.500        | CAL STK B       | 0.100          | 0.50          | 100                 | 0.500                | 5%HNO3 | DLB 4/12/99      |
| 1.00         |                 |                | 1.00          |                     | 1.00                 |        | GMN 4/14/99      |
| 2.00         |                 |                | 2.00          |                     | 2.00                 |        | GMN 4/15/99      |
| 5.00         |                 |                | 5.00          |                     | 5.00                 |        |                  |
| 10.0         |                 |                | 10.0          |                     | 10.0                 |        |                  |
| CRA          |                 |                | 0.400         |                     | 0.400                |        |                  |
| CSW          |                 |                | 1.00          |                     | 1.00                 |        |                  |

## CCV STOCK A

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX | PREP BY/<br>DATE |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| HG   | CP1 8EX067      | 1000           | 1.00          | 100                 | 10.0                 | 5%HNO3 | DLB 4/12/99      |

## CCV STOCK B

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPM) | MATRIX |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|
| HG   | CCV STK A       | 10.0           | 1.00          | 100                 | 0.100                | 5%HNO3 |

## CCV STANDARD

| ELEM | VENDOR/<br>LOT# | CONC.<br>(PPM) | VOL.<br>(MLS) | FINAL<br>VOL. (MLS) | FINAL<br>CONC. (PPB) | MATRIX | PREP BY/<br>DATE |
|------|-----------------|----------------|---------------|---------------------|----------------------|--------|------------------|
| HG   | CCV STK B       | 0.100          | 3.00          | 100                 | 3.00                 | 5%HNO3 | DLB 4/12/99      |
|      |                 |                |               |                     |                      |        | GMN 4/14/99      |
|      |                 |                |               |                     |                      |        | GMN 4/15/99      |
|      |                 |                |               |                     |                      |        |                  |
|      |                 |                |               |                     |                      |        |                  |

\*\*\* (CAL STK A/CCV STK A CAN BE USED FOR ONE WEEK. CAL STK B/CCV STK B AND CORRESPONDING STDS MADE WITH THESE STKS MUST BE PREPARED DAILY)

***ASBESTOS DATA***

179 Lake Avenue Rochester, New York 716-647-2530 FAX 716-647-3311

**Job Number:** 95295  
**Page Number:** 1 of 1

ELAP ID No.: 10958

**Laboratory Results Approved By:**

0309