

MAGRUDER - Fertilizer Check Sample No. - 200411 Grade 25-2-8

- Pass 1 Results for 82 Labs - - Pass 2 Results for 82 Labs -

| Method                                  | AOAC Ref. | Method Code | No. of Labs | Grand Avq. | Std. Dev. | Average Range of Dups | No. of Labs | Grand Avq. | Std. Dev. | Average Range of Dups |
|---|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Ammoniacal Nitrogen, MgO Distillation . | 920.03    | 001.10      | 5           | 4.73       | 0.46      | 0.11                  | 5           | 4.73       | 0.46      | 0.11                  |
| Ammoniacal Nitrogen, Other .....        |           | 001.99      | 7           | 4.65       | 0.55      | 0.17                  | 6           | 4.46       | 0.29      | 0.09                  |
| Method Group 001.XX PCT                 |           |             | 12          | 4.68       | 0.50      | 0.14                  | 11          | 4.59       | 0.39      | 0.10                  |
| Water Insoluble Nitrogen, Meth I .....  | 945.01    | 003.10      | 2           | 1.93       | 0.05      | 0.04                  | 2           | 1.93       | 0.05      | 0.04                  |
| Water Insoluble Nitrogen, Other .....   |           | 003.99      | 1           | 1.77       | 0.03      | 0.04                  | 1           | 1.77       | 0.03      | 0.04                  |
| Method Group 003.XX PCT                 |           |             | 3           | 1.88       | 0.09      | 0.04                  | 3           | 1.88       | 0.09      | 0.04                  |
| Nitrogen From Urea, Urease (as N) ..... | 959.03    | 005.00      | 1           | 22.48      | 0.25      | 0.36                  | 1           | 22.48      | 0.25      | 0.36                  |
| Nitrogen From Urea, Other .....         |           | 005.99      | 1           | 23.25      | 0.04      | 0.06                  | 1           | 23.25      | 0.04      | 0.06                  |
| Method Group 005.XX PCT                 |           |             | 2           | 22.87      | 0.47      | 0.21                  | 2           | 22.87      | 0.47      | 0.21                  |
| Percent Urea, Urease (as Urea) .....    | 959.03    | 007.00      | 1           | 21.35      | 0.21      | 0.30                  | 1           | 21.35      | 0.21      | 0.30                  |
| Percent Urea, Other .....               |           | 007.99      | 1           | 22.74      | 0.11      | 0.16                  | 1           | 22.74      | 0.11      | 0.16                  |
| Method Group 007.XX PCT                 |           |             | 2           | 22.05      | 0.81      | 0.23                  | 2           | 22.05      | 0.81      | 0.23                  |
| Ammon & Nitrate N, Devarda .....        | 892.01    | 009.10      | 1           | 29.98      | 0.05      | 0.07                  | 1           | 29.98      | 0.05      | 0.07                  |
| Ammon & Nitrate N, Other .....          |           | 009.99      | 1           | 32.60      | 0.25      | 0.35                  | 1           | 32.60      | 0.25      | 0.35                  |
| Method Group 009.XX PCT                 |           |             | 2           | 31.29      | 1.52      | 0.21                  | 2           | 31.29      | 1.52      | 0.21                  |
| Total Nitrogen, Reduced Iron .....      |           | 010.10      | 2           | 32.15      | 0.57      | 0.02                  | 2           | 32.15      | 0.57      | 0.02                  |
| Total Nitrogen, Modified Comprehensive  | 978.02    | 010.11      | 7           | 31.73      | 0.30      | 0.15                  | 6           | 31.76      | 0.29      | 0.09                  |
| Total Nitrogen, Salicylic .....         | 955.04D   | 010.12      | 4           | 31.52      | 0.32      | 0.08                  | 4           | 31.52      | 0.32      | 0.08                  |
| Total Nitrogen, Combustion .....        |           | 010.60      | 56          | 32.17      | 0.34      | 0.15                  | 54          | 32.18      | 0.33      | 0.14                  |
| Total Nitrogen, Other .....             |           | 010.99      | 3           | 31.29      | 0.33      | 0.11                  | 3           | 31.29      | 0.33      | 0.11                  |
| Method Group 010.XX PCT                 |           |             | 73          | 32.07      | 0.44      | 0.15                  | 68          | 32.06      | 0.42      | 0.12                  |
| Total Phosphate, Grav Quimociac .....   | 962.02    | 020.10      | 8           | 3.65       | 0.16      | 0.07                  | 7           | 3.64       | 0.16      | 0.04                  |
| Total Phosphate, Spectrometric .....    | 958.01    | 020.20      | 17          | 3.60       | 0.13      | 0.05                  | 17          | 3.60       | 0.13      | 0.05                  |
| Total Phosphate, Automated .....        | 978.01    | 020.40      | 7           | 3.65       | 0.17      | 0.05                  | 7           | 3.65       | 0.17      | 0.05                  |
| Total Phosphate, ICP .....              |           | 020.50      | 9           | 3.61       | 0.20      | 0.08                  | 8           | 3.65       | 0.15      | 0.05                  |
| Total Phosphate, Other .....            |           | 020.99      | 2           | 3.54       | 0.15      | 0.13                  | 2           | 3.54       | 0.15      | 0.13                  |
| Method Group 020.XX PCT                 |           |             | 43          | 3.62       | 0.16      | 0.07                  | 41          | 3.62       | 0.15      | 0.05                  |
| Insoluble Phosphate, Grav Quimociac ... | 963.03C   | 030.10      | 2           | 0.01       | 0.02      | 0.00                  | 2           | 0.01       | 0.02      | 0.00                  |
| Insoluble Phosphate, Spectrometric .... | 963.03C   | 030.20      | 1           | 0.16       | 0.01      | 0.01                  | 1           | 0.16       | 0.01      | 0.01                  |
| Insoluble Phosphate, Automated .....    | 978.01    | 030.40      | 2           | 0.13       | 0.09      | 0.02                  | 2           | 0.13       | 0.09      | 0.02                  |
| Insoluble Phosphate, Other .....        |           | 030.99      | 3           | 0.04       | 0.04      | 0.00                  | 3           | 0.04       | 0.04      | 0.00                  |
| Method Group 030.XX PCT                 |           |             | 8           | 0.07       | 0.07      | 0.01                  | 7           | 0.05       | 0.05      | 0.00                  |
| InDir Available Phosphate, Grav Quim .. | 960.02    | 040.10      | 2           | 3.59       | 0.04      | 0.04                  | 2           | 3.59       | 0.04      | 0.04                  |
| InDir Available Phosphate, Spectrometri | 960.02    | 040.20      | 2           | 3.45       | 0.08      | 0.11                  | 2           | 3.45       | 0.08      | 0.11                  |
| InDir Available Phosphate, Automated .. | 960.02    | 040.40      | 3           | 3.59       | 0.14      | 0.08                  | 3           | 3.59       | 0.14      | 0.08                  |
| InDir Available Phosphate, ICP .....    |           | 040.50      | 1           | 3.30       | 0.01      | 0.02                  | 1           | 3.30       | 0.01      | 0.02                  |
| InDir Available Phosphate, Other .....  |           | 040.99      | 2           | 3.54       | 0.12      | 0.12                  | 2           | 3.54       | 0.12      | 0.12                  |
| Method Group 040.XX PCT                 |           |             | 10          | 3.52       | 0.13      | 0.08                  | 10          | 3.52       | 0.13      | 0.08                  |
| Dir Available Phosphate, Grav Quimociac | 960.03E   | 041.10      | 19          | 3.56       | 0.06      | 0.04                  | 19          | 3.56       | 0.06      | 0.04                  |

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|---|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Dir Available Phosphate, Spectrometric  | 960.03D   | 041.20      | 3           | 3.58       | 0.04      | 0.03                  | 3           | 3.58       | 0.04      | 0.03                  |
| Dir Available Phosphate, Automated .... | 978.01    | 041.40      | 5           | 3.48       | 0.13      | 0.05                  | 5           | 3.48       | 0.13      | 0.05                  |
| Dir Available Phosphate, ICP .....      |           | 041.50      | 6           | 3.58       | 0.12      | 0.09                  | 6           | 3.58       | 0.12      | 0.09                  |
| Dir Available Phosphate, EDTA Extract . | 993.01    | 041.60      | 12          | 3.54       | 0.09      | 0.05                  | 12          | 3.54       | 0.09      | 0.05                  |
| Method Group 041.XX PCT                 |           |             | 45          | 3.55       | 0.09      | 0.05                  | 42          | 3.55       | 0.08      | 0.04                  |
| Water Soluble Phosphate, Spectrometric  | 970.01    | 048.20      | 2           | 3.16       | 0.03      | 0.01                  | 2           | 3.16       | 0.03      | 0.01                  |
| Soluble Potash, STPB Oxalate .....      | 958.02    | 050.00      | 19          | 7.12       | 0.16      | 0.11                  | 19          | 7.12       | 0.16      | 0.11                  |
| Soluble Potash, STPB Citrate .....      | 969.04    | 050.10      | 2           | 7.40       | 0.07      | 0.02                  | 2           | 7.40       | 0.07      | 0.02                  |
| Soluble Potash, AA (Oxalate) .....      |           | 050.30      | 10          | 6.99       | 0.21      | 0.11                  | 10          | 6.99       | 0.21      | 0.11                  |
| Soluble Potash, AA (Citrate) .....      |           | 050.31      | 1           | 7.36       | 0.03      | 0.04                  | 1           | 7.36       | 0.03      | 0.04                  |
| Soluble Potash, ICP (Oxalate) .....     |           | 050.50      | 7           | 7.09       | 0.13      | 0.09                  | 7           | 7.09       | 0.13      | 0.09                  |
| Soluble Potash, ICP (Citrate) .....     |           | 050.51      | 7           | 7.19       | 0.16      | 0.09                  | 7           | 7.19       | 0.16      | 0.09                  |
| Soluble Potash, Flame (Oxalate) .....   | 983.02(a) | 050.60      | 6           | 7.18       | 0.25      | 0.08                  | 6           | 7.18       | 0.25      | 0.08                  |
| Soluble Potash, Flame (Citrate) .....   | 983.02(b) | 050.61      | 7           | 7.12       | 0.17      | 0.07                  | 7           | 7.12       | 0.17      | 0.07                  |
| Soluble Potash, Other .....             |           | 050.99      | 14          | 7.14       | 0.18      | 0.08                  | 13          | 7.13       | 0.18      | 0.05                  |
| Method Group 050.XX PCT                 |           |             | 74          | 7.12       | 0.20      | 0.09                  | 71          | 7.13       | 0.19      | 0.08                  |
| Free Water, Vacuum Oven .....           | 965.08B   | 060.00      | 5           | 0.78       | 0.10      | 0.06                  | 5           | 0.78       | 0.10      | 0.06                  |
| Free Water, Other .....                 |           | 060.99      | 1           | 1.06       | 0.04      | 0.05                  | 1           | 1.06       | 0.04      | 0.05                  |
| Method Group 060.XX PCT                 |           |             | 6           | 0.83       | 0.14      | 0.06                  | 6           | 0.83       | 0.14      | 0.06                  |
| Acid Soluble Calcium, AA .....          | 945.04    | 101.00      | 2           | 0.27       | 0.07      | 0.01                  | 2           | 0.27       | 0.07      | 0.01                  |
| Acid Soluble Calcium, ICP .....         |           | 101.30      | 11          | 0.23       | 0.02      | 0.01                  | 10          | 0.22       | 0.02      | 0.01                  |
| Acid Soluble Calcium, Other .....       |           | 101.99      | 1           | 0.34       | 0.01      | 0.01                  | 1           | 0.34       | 0.01      | 0.01                  |
| Method Group 101.XX PCT                 |           |             | 14          | 0.24       | 0.04      | 0.01                  | 13          | 0.24       | 0.04      | 0.01                  |
| Acid Soluble Magnesium, AA .....        | 984.01    | 121.00      | 2           | 0.13       | 0.01      | 0.01                  | 2           | 0.13       | 0.01      | 0.01                  |
| Acid Soluble Magnesium, ICP .....       |           | 121.30      | 12          | 0.15       | 0.01      | 0.01                  | 11          | 0.15       | 0.01      | 0.01                  |
| Acid Soluble Magnesium, Other .....     |           | 121.99      | 1           | 0.27       | 0.00      | 0.00                  | 1           | 0.27       | 0.00      | 0.00                  |
| Method Group 121.XX PCT                 |           |             | 16          | 0.16       | 0.04      | 0.01                  | 15          | 0.16       | 0.04      | 0.01                  |
| Water Soluble Magnesium, AA .....       |           | 131.00      | 1           | 0.01       | 0.00      | 0.00                  | 1           | 0.01       | 0.00      | 0.00                  |
| Water Soluble Magnesium, Other .....    |           | 131.99      | 1           | 3.55       | 0.04      | 0.06                  | 1           | 3.55       | 0.04      | 0.06                  |
| Method Group 131.XX PCT                 |           |             | 2           | 1.78       | 2.05      | 0.03                  | 2           | 1.78       | 2.05      | 0.03                  |
| Sulfur, Gravimetric .....               | 980.02a   | 144.01      | 14          | 3.65       | 0.07      | 0.05                  | 13          | 3.65       | 0.06      | 0.04                  |
| Sulfur, Gravimetric .....               | 980.02b   | 144.02      | 2           | 3.75       | 0.03      | 0.05                  | 2           | 3.75       | 0.03      | 0.05                  |
| Sulfur, Spectrometric .....             |           | 144.70      | 1           | 3.60       | 0.01      | 0.01                  | 1           | 3.60       | 0.01      | 0.01                  |
| Sulfur, Other .....                     |           | 144.99      | 18          | 3.60       | 0.13      | 0.08                  | 17          | 3.60       | 0.13      | 0.06                  |
| Method Group 144.XX PCT                 |           |             | 35          | 3.63       | 0.11      | 0.06                  | 33          | 3.62       | 0.11      | 0.05                  |
| Arsenic, Atomic Absorption .....        |           | 151.00      | 1           | 1.09       | 0.08      | 0.12                  | 1           | 1.09       | 0.08      | 0.12                  |
| Arsenic, ICP .....                      |           | 151.30      | 4           | 1.01       | 0.87      | 0.10                  | 4           | 1.01       | 0.87      | 0.10                  |
| Arsenic, Other .....                    |           | 151.99      | 2           | 1.18       | 0.02      | 0.01                  | 2           | 1.18       | 0.02      | 0.01                  |
| Method Group 151.XX PPM                 |           |             | 7           | 1.07       | 0.64      | 0.07                  | 6           | 0.99       | 0.66      | 0.04                  |

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|--|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Acid Soluble Boron, Spectrometric      | 982.01    | 165.00      | 1           | 0.003      | 0.001     | 0.001                 | 1           | 0.003      | 0.001     | 0.001                 |
| Acid Soluble Boron, Other              |           | 165.99      | 4           | 0.002      | 0.001     | 0.000                 | 4           | 0.002      | 0.001     | 0.000                 |
| Method Group 165.XX PCT                |           |             | 5           | 0.002      | 0.001     | 0.000                 | 4           | 0.002      | 0.001     | 0.000                 |
| Cadmium, Atomic Absorption             |           | 181.00      | 3           | 1.12       | 0.85      | 0.09                  | 3           | 1.12       | 0.85      | 0.09                  |
| Cadmium, ICP                           |           | 181.30      | 9           | 1.19       | 0.80      | 0.13                  | 8           | 1.13       | 0.83      | 0.08                  |
| Cadmium, Other                         |           | 181.99      | 2           | 0.68       | 0.10      | 0.10                  | 2           | 0.68       | 0.10      | 0.10                  |
| Method Group 181.XX PPM                |           |             | 14          | 1.10       | 0.76      | 0.12                  | 13          | 1.06       | 0.76      | 0.09                  |
| Water Soluble Chlorine, Titrimetric    | 928.02    | 190.00      | 10          | 5.45       | 0.23      | 0.06                  | 9           | 5.47       | 0.22      | 0.04                  |
| Water Soluble Chlorine, Other          |           | 190.99      | 7           | 5.42       | 0.25      | 0.04                  | 6           | 5.40       | 0.26      | 0.02                  |
| Method Group 190.XX PCT                |           |             | 17          | 5.44       | 0.23      | 0.05                  | 15          | 5.44       | 0.24      | 0.03                  |
| Chromium, Atomic Absorption            |           | 191.00      | 1           | 92.00      | 5.66      | 8.00                  | 1           | 92.00      | 5.66      | 8.00                  |
| Chromium, ICP                          |           | 191.30      | 9           | 72.28      | 13.92     | 5.49                  | 9           | 72.28      | 13.92     | 5.49                  |
| Chromium, Other                        |           | 191.99      | 1           | 81.35      | 1.91      | 2.70                  | 1           | 81.35      | 1.91      | 2.70                  |
| Method Group 191.XX PPM                |           |             | 11          | 74.90      | 14.01     | 5.47                  | 11          | 74.90      | 14.01     | 5.47                  |
| Acid Soluble Cobalt, ICP               | 965.11    | 202.30      | 10          | 12.85      | 7.92      | 0.99                  | 10          | 12.85      | 7.92      | 0.99                  |
| Acid Soluble Cobalt, Other             |           | 202.99      | 2           | 17.28      | 4.91      | 1.04                  | 2           | 17.28      | 4.91      | 1.04                  |
| Method Group 202.XX PPM                |           |             | 12          | 13.58      | 7.61      | 1.00                  | 12          | 13.58      | 7.61      | 1.00                  |
| Acid Soluble Copper, Atomic Absorption | 975.01    | 221.00      | 3           | 0.0049     | 0.0004    | 0.0003                | 3           | 0.0049     | 0.0004    | 0.0003                |
| Acid Soluble Copper, ICP               |           | 221.30      | 17          | 0.0050     | 0.0005    | 0.0004                | 16          | 0.0050     | 0.0004    | 0.0004                |
| Acid Soluble Copper, Other             |           | 221.99      | 3           | 0.0053     | 0.0005    | 0.0006                | 3           | 0.0053     | 0.0005    | 0.0006                |
| Method Group 221.XX PCT                |           |             | 23          | 0.0050     | 0.0005    | 0.0004                | 22          | 0.0050     | 0.0004    | 0.0004                |
| Acid Soluble Iron, Atomic Absorption   | 980.01    | 241.00      | 11          | 2.46       | 0.25      | 0.03                  | 10          | 2.45       | 0.26      | 0.02                  |
| Acid Soluble Iron, ICP                 |           | 241.30      | 23          | 2.27       | 0.30      | 0.09                  | 21          | 2.29       | 0.30      | 0.06                  |
| Acid Soluble Iron, Other               |           | 241.99      | 4           | 1.82       | 0.37      | 0.15                  | 4           | 1.82       | 0.37      | 0.15                  |
| Method Group 241.XX PCT                |           |             | 39          | 2.25       | 0.36      | 0.07                  | 36          | 2.27       | 0.37      | 0.05                  |
| Lead, Atomic Absorption                |           | 251.00      | 2           | 6.88       | 0.73      | 0.69                  | 2           | 6.88       | 0.73      | 0.69                  |
| Lead, ICP                              |           | 251.30      | 10          | 10.98      | 1.27      | 0.60                  | 9           | 11.05      | 1.27      | 0.45                  |
| Lead, Other                            |           | 251.99      | 2           | 9.88       | 1.44      | 0.45                  | 2           | 9.88       | 1.44      | 0.45                  |
| Method Group 251.XX PPM                |           |             | 14          | 10.23      | 1.87      | 0.59                  | 13          | 10.23      | 1.93      | 0.49                  |
| Acid Soluble Manganese, AA             | 972.02a   | 261.00      | 2           | 0.021      | 0.007     | 0.003                 | 2           | 0.021      | 0.007     | 0.003                 |
| Acid Soluble Manganese, ICP            | 972.02a   | 261.30      | 12          | 0.028      | 0.002     | 0.001                 | 12          | 0.028      | 0.002     | 0.001                 |
| Acid Soluble Manganese, Other          |           | 261.99      | 2           | 0.028      | 0.002     | 0.002                 | 2           | 0.028      | 0.002     | 0.002                 |
| Method Group 261.XX PCT                |           |             | 17          | 0.027      | 0.005     | 0.002                 | 17          | 0.027      | 0.005     | 0.002                 |
| Mercury, Atomic Absorption             |           | 281.00      | 2           | 6.00       | 6.37      | 0.52                  | 2           | 6.00       | 6.37      | 0.52                  |
| Mercury, ICP                           |           | 281.30      | 1           | 25.25      | 0.78      | 1.10                  | 1           | 25.25      | 0.78      | 1.10                  |
| Method Group 281.XX PPM                |           |             | 3           | 12.41      | 11.11     | 0.71                  | 3           | 12.41      | 11.11     | 0.71                  |
| Molybdenum, Atomic Absorption          |           | 289.00      | 1           | 7.80       | 0.28      | 0.40                  | 1           | 7.80       | 0.28      | 0.40                  |
| Molybdenum, ICP                        |           | 289.30      | 10          | 10.30      | 1.23      | 0.51                  | 9           | 10.27      | 1.23      | 0.32                  |
| Molybdenum, Other                      |           | 289.99      | 1           | 12.25      | 0.35      | 0.50                  | 1           | 12.25      | 0.35      | 0.50                  |

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| Method Group 289.XX PPM                 |           |             | 13          | 9.86       | 1.98      | 0.54                  | 12          | 9.80       | 2.03      | 0.40                  |
| Nickel, Atomic Absorption .....         |           | 291.00      | 1           | 39.50      | 2.12      | 3.00                  | 1           | 39.50      | 2.12      | 3.00                  |
| Nickel, ICP .....                       |           | 291.30      | 10          | 37.36      | 6.91      | 2.20                  | 9           | 37.25      | 7.18      | 1.60                  |
| Nickel, Other .....                     |           | 291.99      | 2           | 33.58      | 4.06      | 1.75                  | 2           | 33.58      | 4.06      | 1.75                  |
| Method Group 291.XX PPM                 |           |             | 13          | 36.95      | 6.40      | 2.19                  | 12          | 36.82      | 6.56      | 1.74                  |
| Selenium, Atomic Absorption .....       |           | 301.00      | 1           | 0.02       | 0.01      | 0.02                  | 1           | 0.02       | 0.01      | 0.02                  |
| Selenium, ICP .....                     |           | 301.30      | 1           | 0.01       | 0.00      | 0.00                  | 1           | 0.01       | 0.00      | 0.00                  |
| Method Group 301.XX PPM                 |           |             | 2           | 0.02       | 0.01      | 0.01                  | 2           | 0.02       | 0.01      | 0.01                  |
| Sodium, Atomic Absorption .....         | 983.04    | 311.00      | 1           | 0.08       | 0.00      | 0.01                  | 1           | 0.08       | 0.00      | 0.01                  |
| Sodium, Flame Photometric .....         | 974.01    | 311.30      | 1           | 0.08       | 0.03      | 0.04                  | 1           | 0.08       | 0.03      | 0.04                  |
| Sodium, Other .....                     |           | 311.99      | 7           | 0.08       | 0.01      | 0.00                  | 6           | 0.08       | 0.01      | 0.00                  |
| Method Group 311.XX PCT                 |           |             | 9           | 0.08       | 0.01      | 0.01                  | 8           | 0.08       | 0.01      | 0.01                  |
| Acid Soluble Zinc, Atomic Absorption .. | 975.02    | 321.00      | 2           | 0.064      | 0.003     | 0.003                 | 2           | 0.064      | 0.003     | 0.003                 |
| Acid Soluble Zinc, ICP .....            |           | 321.30      | 16          | 0.061      | 0.004     | 0.003                 | 16          | 0.061      | 0.004     | 0.003                 |
| Acid Soluble Zinc, Other .....          |           | 321.99      | 1           | 0.057      | 0.000     | 0.000                 | 1           | 0.057      | 0.000     | 0.000                 |
| Method Group 321.XX PCT                 |           |             | 19          | 0.061      | 0.004     | 0.003                 | 19          | 0.061      | 0.004     | 0.003                 |
| Water Soluble Zinc, Atomic Absorption . |           | 325.00      | 1           | 0.001      | 0.000     | 0.000                 | 1           | 0.001      | 0.000     | 0.000                 |

Laboratory Averages & Accuracy Indexes

| Lab  | Average* | Index | Lab   | Average* | Index | Lab   | Average* | Index | Lab   | Average* | Index | Lab   | Average* | Index |
|--|----------|-------|---|----------|-------|---|----------|-------|---|----------|-------|---|----------|-------|
| Meth: 001.10 PCT<br>Ammoniacal Nitrogen<br><u>MgO Distillation</u> |          |       | Meth: 003.10 PCT<br>Water Insoluble Nitr<br><u>Meth I</u>           |          |       | Meth: 007.99 PCT<br>Percent Urea<br><u>Other</u>                  |          |       | Meth: 010.11 PCT<br>Total Nitrogen<br><u>Modified Comprehensi</u> |          |       | Meth: 010.60 PCT<br>Total Nitrogen<br><u>Combustion</u> |          |       |
| 220  | 5.41     | 1.46  | 220   | 1.96     | .83   | 029   | 22.74    | -.71  | Avg   | 31.76    |       | 411   | 32.33    | .44   |
| 415  | 4.95     | .49   | Avg   | 1.93     |       |   |          |       | 090   | 31.59    | -.63  | 024   | 32.22    | .44   |
| 029  | 4.78     | .21   | 029   | 1.90     | -.90  | Meth: 007.XX PCT<br><u>Percent Urea</u>                           |          |       | 415   | 31.52    | -.85  | 009   | 32.32    | .42   |
| Avg  | 4.73     |       | Meth: 003.99 PCT<br>Water Insoluble Nitr<br><u>Other</u>            |          |       | 029   | 22.74    | .86   | 029   | 31.54 R  | -1.19 | 037   | 32.19    | .27   |
| 288  | 4.32     | -.89  | 394   | 1.77     | .71   | Avg   | 22.05    |       | 322   | 31.39    | -1.29 | 360   | 32.25    | .26   |
| 324  | 4.22     | -1.14 | Meth: 003.XX PCT<br><u>Water Insoluble Nitr</u>                     |          |       | 247   | 21.35    | -.87  | Meth: 010.12 PCT<br>Total Nitrogen<br><u>Salicylic</u>            |          |       | 027   | 32.20    | .09   |
| Meth: 001.99 PCT<br>Ammoniacal Nitrogen<br><u>Other</u>            |          |       | 220   | 1.96     | .97   | Meth: 009.10 PCT<br>Ammon & Nitrate N<br><u>Devarda</u>           |          |       | 137   | 37.61 S  | 18.97 | 142   | 32.20    | .09   |
| 368  | 32.86 s  | 99.43 | 029   | 1.90     | .36   | 030   | 29.98    | .71   | 351   | 31.83    | .95   | 262   | 32.20    | .06   |
| 193  | 5.74 R   | 4.60  | Avg   | 1.88     |       | Meth: 009.99 PCT<br>Ammon & Nitrate N<br><u>Other</u>             |          |       | 254   | 31.68    | .48   | Avg   | 32.18    |       |
| 397  | 4.78     | 1.10  | 394   | 1.77     | -1.19 | 409   | 32.60    | .71   | 185   | 31.55    | .13   | 231   | 32.16    | -.08  |
| 247  | 4.75     | 1.04  | Meth: 005.00 PCT<br>Nitrogen From Urea<br><u>Urease (as N)</u>      |          |       | Meth: 009.XX PCT<br>Ammon & Nitrate N<br><u>Other</u>             |          |       | Avg   | 31.52    |       | 028   | 32.18    | -.11  |
| 409  | 4.58     | .56   | 288   | 22.48    | .71   | 409   | 32.60    | .87   | 102   | 31.05    | -1.53 | 325   | 32.14    | -.14  |
| Avg  | 4.46     |       | Meth: 005.99 PCT<br>Nitrogen From Urea<br><u>Other</u>              |          |       | 420   | 4.27     | -.69  | Meth: 010.60 PCT<br>Total Nitrogen<br><u>Combustion</u>           |          |       | 131   | 32.12    | -.19  |
| 096  | 4.38     | -.33  | 394   | 23.25    | .71   | 394   | 4.03     | -1.52 | 425   | 32.18    | -.40  | 369   | 32.11    | -.21  |
| 420  | 4.27     | -.69  | Meth: 005.XX PCT<br>Nitrogen From Urea<br><u>Nitrogen From Urea</u> |          |       | 409   | 32.60    | .87   | 049   | 32.07    | -.33  | 043   | 32.11    | -.29  |
| 394  | 4.03     | -1.52 | 394   | 23.25    | .82   | 030   | 29.98    | -.86  | 136   | 32.07    | -.37  | 049   | 32.07    | -.33  |
| Meth: 001.XX PCT<br>Ammoniacal Nitrogen                            |          |       | 288   | 22.48    | -.91  | Meth: 010.10 PCT<br>Total Nitrogen<br><u>Reduced Iron</u>         |          |       | 425   | 32.18    | -.40  | 049   | 32.07    | -.37  |
| 368  | 32.86 s  | 72.41 | Meth: 007.00 PCT<br>Percent Urea<br><u>Urease (as Urea)</u>         |          |       | 157   | 33.23 s  | 3.20  | 423   | 32.03    | -.53  | 049   | 32.07    | -.37  |
| 193  | 5.74 R   | 3.06  | 247   | 21.35    | -.71  | 409   | 32.60    | .87   | 232   | 32.00    | -.54  | 425   | 32.18    | -.40  |
| 220  | 5.41     | 2.10  | Meth: 007.XX PCT<br>Nitrogen From Urea<br><u>Other</u>              |          |       | 420   | 4.27     | -.81  | 095   | 32.92    | 2.22  | 423   | 32.03    | -.53  |
| 415  | 4.95     | .94   | 394   | 23.25    | .71   | 324   | 4.22     | -.97  | 422   | 32.81    | 1.89  | 232   | 32.00    | -.54  |
| 029  | 4.78     | .53   | Meth: 005.XX PCT<br>Nitrogen From Urea<br><u>Nitrogen From Urea</u> |          |       | 030   | 29.98    | -.86  | 422   | 32.81    | 1.89  | 106   | 32.04    | -.55  |
| 397  | 4.78     | .49   | 394   | 23.25    | .82   | Meth: 010.11 PCT<br>Total Nitrogen<br><u>Modified Comprehensi</u> |          |       | 393   | 32.68    | 1.48  | 040   | 32.00    | -.56  |
| 247  | 4.75     | .47   | Avg   | 22.87    |       | 405   | 32.65    | .87   | 096   | 32.67    | 1.46  | 406   | 31.99    | -.57  |
| Avg  | 4.59     |       | 288   | 22.48    | -.91  | Avg   | 32.15    |       | 361   | 32.67    | 1.45  | 035   | 32.01    | -.61  |
| 409  | 4.58     | -.28  | Meth: 007.00 PCT<br>Percent Urea<br><u>Urease (as Urea)</u>         |          |       | 072   | 31.66    | -.87  | 114   | 32.63    | 1.36  | 389   | 31.95    | -.70  |
| 096  | 4.38     | -.55  | 247   | 21.35    | -.71  | Meth: 010.11 PCT<br>Total Nitrogen<br><u>Modified Comprehensi</u> |          |       | 292   | 32.60    | 1.25  | 234   | 31.94    | -.73  |
| 288  | 4.32     | -.67  | Meth: 007.00 PCT<br>Percent Urea<br><u>Urease (as Urea)</u>         |          |       | 405   | 32.65    | .87   | 034   | 32.55    | 1.18  | 007   | 32.14    | -.76  |
| 420  | 4.27     | -.81  | 247   | 21.35    | -.71  | Avg   | 32.15    |       | 330   | 32.50    | 1.00  | 055   | 31.94    | -.78  |
| 324  | 4.22     | -.97  | Meth: 007.00 PCT<br>Percent Urea<br><u>Urease (as Urea)</u>         |          |       | 072   | 31.66    | -.87  | 022   | 32.51    | .97   | 073   | 32.06    | -.79  |
| 394  | 4.03     | -1.43 | 247   | 21.35    | -.71  | Meth: 010.11 PCT<br>Total Nitrogen<br><u>Modified Comprehensi</u> |          |       | 247   | 32.29 R  | .96   | 177   | 32.05    | -.81  |
| * X=Excluded from lab performance                                  |          |       | S/s=Screened Outlier  |          |       | R=Duplicate Range too large                                       |          |       | A=Analysis beyond 3-s limits                                      |          |       |   |          |       |

Laboratory Averages & Accuracy Indexes

| Lab                               | Average* | Index | Lab                   | Average* | Index | Lab                         | Average* | Index | Lab                          | Average* | Index | Lab                    | Average* | Index |
|-----------------------------------|----------|-------|-----------------------|----------|-------|-----------------------------|----------|-------|------------------------------|----------|-------|------------------------|----------|-------|
| Meth: 010.60 PCT                  |          |       | Meth: 010.XX PCT      |          |       | Meth: 010.XX PCT            |          |       | Meth: 020.20 PCT             |          |       | Meth: 020.50 PCT       |          |       |
| <u>Total Nitrogen</u>             |          |       | <u>Total Nitrogen</u> |          |       | <u>Total Nitrogen</u>       |          |       | <u>Total Phosphate</u>       |          |       | <u>Total Phosphate</u> |          |       |
| <u>Combustion</u>                 |          |       |                       |          |       |                             |          |       | <u>Spectrometric</u>         |          |       | <u>ICP</u>             |          |       |
| 394                               | 31.60    | -1.75 | 024                   | 32.22    | .50   | 072                         | 31.79 R  | -.98  | 231                          | 3.65     | .38   | 393                    | 3.29 R   | -2.73 |
| 307                               | 31.53    | -2.05 | 360                   | 32.25    | .46   | 397                         | 31.66    | -.98  | 425                          | 3.64     | .37   | Meth: 020.99 PCT       |          |       |
| 102                               | 31.26    | -2.76 | 425                   | 32.18    | .42   | 057                         | 31.62    | -1.08 | Avg 3.60                     |          |       | <u>Total Phosphate</u> |          |       |
|                                   |          |       | 025                   | 32.24    | .42   | 394                         | 31.60    | -1.13 | 418                          | 3.59 X   | -.10  | Other                  |          |       |
|                                   |          |       | 037                   | 32.19    | .37   | 090                         | 31.59    | -1.15 | 420                          | 3.59     | -.19  | 409 3.65 .96           |          |       |
| Meth: 010.99 PCT                  |          |       | 262                   | 32.20    | .32   | 185                         | 31.55    | -1.25 | 177                          | 3.56     | -.33  | Avg 3.54               |          |       |
| <u>Total Nitrogen</u>             |          |       | 142                   | 32.20    | .32   | 415                         | 31.52    | -1.31 | 363                          | 3.54     | -.50  | 368 3.43 -.76          |          |       |
| <u>Other</u>                      |          |       | 027                   | 32.20    | .32   | 307                         | 31.53    | -1.38 | 257                          | 3.52     | -.69  | Meth: 020.XX PCT       |          |       |
| 397                               | 31.66    | 1.13  | 028                   | 32.18    | .28   | 029                         | 31.54 R  | -1.40 | 376                          | 3.46     | -1.12 | <u>Total Phosphate</u> |          |       |
| Avg                               | 31.29    |       | 231                   | 32.16    | .23   | 322                         | 31.39    | -1.61 | 369                          | 3.40     | -1.67 | 411 3.96 2.30          |          |       |
| 420                               | 31.26    | -.39  | 043                   | 32.11    | .18   | 102                         | 31.26    | -1.94 | 397                          | 3.35     | -1.93 | 096 3.94 2.16          |          |       |
| 211                               | 30.95    | -1.03 | 325                   | 32.14    | .17   | 420                         | 31.26    | -1.96 | 324                          | 3.06 s   | -4.37 | 234 3.84 1.48          |          |       |
|                                   |          |       | 136                   | 32.07    | .14   | 102                         | 31.05    | -2.46 | Meth: 020.40 PCT             |          |       | 095 3.76 R 1.44        |          |       |
| Meth: 010.XX PCT                  |          |       | 131                   | 32.12    | .14   | 211                         | 30.95    | -2.67 | <u>Total Phosphate</u>       |          |       | 330 3.79 1.16          |          |       |
| <u>Total Nitrogen</u>             |          |       | 369                   | 32.11    | .11   | Meth: 020.10 PCT            |          |       | <u>Automated</u>             |          |       | 292 3.78 1.12          |          |       |
| 137                               | 37.61 s  | 13.29 | 049                   | 32.07    | .03   | <u>Total Phosphate</u>      |          |       | 096 3.94 1.65                |          |       | 142 3.78 .70           |          |       |
| 157                               | 33.23 A  | 2.84  | Avg                   | 32.06    |       | <u>Grav Quimociac</u>       |          |       | 142 3.78 .70                 |          |       | 105 3.77 .69           |          |       |
| 095                               | 32.92    | 2.05  | 220                   | 32.05    | -.15  | 411 3.96 2.07               |          |       | Avg 3.65                     |          |       | 389 3.77 .97           |          |       |
| 422                               | 32.81    | 1.79  | 232                   | 32.00    | -.16  | 095 3.76 R 1.30             |          |       | 394 3.59 -.41                |          |       | 361 3.76 .90           |          |       |
| 393                               | 32.68    | 1.46  | 406                   | 31.99    | -.18  | Avg 3.64                    |          |       | 247 3.55 -.68                |          |       | 307 3.71 .85           |          |       |
| 096                               | 32.67    | 1.44  | 040                   | 32.00    | -.19  | 114 3.63 -.08               |          |       | 193 3.50 -.98                |          |       | 409 3.65 .67           |          |       |
| 361                               | 32.67    | 1.44  | 288                   | 32.05    | -.19  | 090 3.62 -.12               |          |       | 035 3.47 -1.10               |          |       | 232 3.72 .66           |          |       |
| 405                               | 32.65    | 1.39  | 423                   | 32.03    | -.22  | 157 3.61 -.17               |          |       | Meth: 020.50 PCT             |          |       | 422 3.72 .66           |          |       |
| 114                               | 32.63    | 1.36  | 105                   | 31.99    | -.23  | 405 3.58 -.38               |          |       | <u>Total Phosphate</u>       |          |       | 220 3.64 .52           |          |       |
| 292                               | 32.60    | 1.27  | 106                   | 32.04    | -.28  | 105 3.64 -.42               |          |       | <u>ICP</u>                   |          |       | 288 3.66 .49           |          |       |
| 034                               | 32.55    | 1.21  | 035                   | 32.01    | -.29  | 300 3.43 -1.36              |          |       | 330 3.79 .95                 |          |       | 105 3.64 .45           |          |       |
| 330                               | 32.50    | 1.07  | 389                   | 31.95    | -.30  | Meth: 020.20 PCT            |          |       | 389 3.77 .77                 |          |       | 392 3.68 .37           |          |       |
| 022                               | 32.51    | 1.06  | 234                   | 31.94    | -.32  | <u>Total Phosphate</u>      |          |       | 307 3.71 .72                 |          |       | 406 3.67 .30           |          |       |
| 376                               | 32.45    | .99   | 055                   | 31.94    | -.39  | <u>Spectrometric</u>        |          |       | 361 3.76 .70                 |          |       | 425 3.64 .25           |          |       |
| 233                               | 32.47    | .98   | 426                   | 31.90    | -.41  | 234 3.84 1.84               |          |       | 422 3.72 .47                 |          |       | 114 3.63 .04           |          |       |
| 377                               | 32.45    | .93   | 162                   | 31.87    | -.50  | 292 3.78 1.42               |          |       | Avg 3.65                     |          |       | Avg 3.62               |          |       |
| 247                               | 32.29 R  | .90   | 073                   | 32.06    | -.56  | 232 3.72 .91                |          |       | 426 3.62 -.24                |          |       | 426 3.62 -.07          |          |       |
| 296                               | 32.38    | .77   | 177                   | 32.05    | -.57  | 288 3.66 .64                |          |       | 157 3.47 -1.18               |          |       | 090 3.62 -.07          |          |       |
| 324                               | 32.32    | .66   | 351                   | 31.83    | -.57  | 220 3.64 .63                |          |       | 423 3.38 -1.83               |          |       | 157 3.61 -.10          |          |       |
| 007                               | 32.14 R  | .63   | 041                   | 31.81    | -.61  | 392 3.68 .57                |          |       | Meth: 020.50 PCT             |          |       |                        |          |       |
| 411                               | 32.33    | .62   | 029                   | 31.87    | -.72  | 406 3.67 .49                |          |       | <u>Total Phosphate</u>       |          |       |                        |          |       |
| 023                               | 32.30 X  | .62   | 254                   | 31.68    | -.92  | Meth: 020.20 PCT            |          |       | <u>ICP</u>                   |          |       |                        |          |       |
| 009                               | 32.32    | .61   | 072                   | 31.66    | -.97  | <u>Total Phosphate</u>      |          |       | 330 3.79 .95                 |          |       |                        |          |       |
| * X=Excluded from lab performance |          |       | S/s=Screened Outlier  |          |       | R=Duplicate Range too large |          |       | A=Analysis beyond 3-s limits |          |       |                        |          |       |

Laboratory Averages & Accuracy Indexes

| Lab                               | Average* | Index | Lab                        | Average* | Index | Lab                         | Average* | Index | Lab                          | Average* | Index | Lab                         | Average* | Index |
|-----------------------------------|----------|-------|----------------------------|----------|-------|-----------------------------|----------|-------|------------------------------|----------|-------|-----------------------------|----------|-------|
| Meth: 020.XX PCT                  |          |       | Meth: 030.99 PCT           |          |       | Meth: 040.40 PCT            |          |       | Meth: 041.10 PCT             |          |       | Meth: 041.50 PCT            |          |       |
| <u>Total Phosphate</u>            |          |       | Insoluble Phosphate        |          |       | InDir Available Phos        |          |       | Dir Available Phosph         |          |       | Dir Available Phosph        |          |       |
| 418                               | 3.59 X   | -.23  | <u>Other</u>               |          |       | <u>Automated</u>            |          |       | <u>Grav Quimociac</u>        |          |       | <u>ICP</u>                  |          |       |
| 420                               | 3.59     | -.27  | 423                        | 0.08     | 1.23  | 394                         | 3.59     | -1.26 | 185                          | 3.63     | 1.19  | 023                         | 3.73 S   | 1.80  |
| 394                               | 3.59     | -.31  | Avg                        | 0.04     |       | 193                         | 3.45     | -1.12 | 040                          | 3.62     | .94   | 043                         | 3.74     | 1.47  |
| 405                               | 3.58     | -.33  | 409                        | 0.03     | -.31  | Meth: 040.50 PCT            |          |       | 029                          | 3.62     | .93   | 361                         | 3.65     | .57   |
| 177                               | 3.56     | -.43  | 376                        | 0.00     | -.95  | InDir Available Phos        |          |       | 136                          | 3.60     | .69   | 007                         | 3.59     | .20   |
| 363                               | 3.54     | -.57  | Meth: 030.XX PCT           |          |       | <u>ICP</u>                  |          |       | 049                          | 3.59     | .67   | Avg                         | 3.58     |       |
| 247                               | 3.55     | -.62  | <u>Insoluble Phosphate</u> |          |       | 423                         | 3.30     | .71   | 296                          | 3.60     | .58   | 360                         | 3.55     | -.27  |
| 257                               | 3.52     | -.74  | 096                        | 0.21 R   | 2.97  | Meth: 040.99 PCT            |          |       | 022                          | 3.57     | .50   | 325                         | 3.52     | -.45  |
| 193                               | 3.50     | -.95  | 220                        | 0.16     | 2.02  | InDir Available Phos        |          |       | 211                          | 3.58     | .22   | 393                         | 3.42     | -1.64 |
| 157                               | 3.47     | -1.03 | 423                        | 0.08     | .63   | <u>Other</u>                |          |       | Avg                          | 3.56     |       | Meth: 041.60 PCT            |          |       |
| 035                               | 3.47     | -1.08 | 193                        | 0.05     | .04   | 409                         |          |       | 102                          | 3.54     | -.39  | Dir Available Phosph        |          |       |
| 376                               | 3.46     | -1.12 | Avg                        | 0.05     |       | 409                         |          |       | 055                          | 3.56     | -.41  | <u>EDTA Extract</u>         |          |       |
| 300                               | 3.43     | -1.36 | 405                        | 0.03     | -.44  | Avg                         |          |       | 028                          | 3.53     | -.54  | 105                         | 3.64     | 1.22  |
| 368                               | 3.43     | -1.38 | 409                        | 0.03     | -.44  | 376                         |          |       | 137                          | 3.51     | -.85  | 397                         | 3.64     | 1.10  |
| 369                               | 3.40     | -1.60 | 090                        | 0.00     | -.91  | Meth: 040.XX PCT            |          |       | 131                          | 3.51     | -.89  | 023                         | 3.61 X   | .76   |
| 423                               | 3.38     | -1.70 | 376                        | 0.00     | -.91  | InDir Available Phos        |          |       | 072                          | 3.55     | -.92  | 073                         | 3.57     | .67   |
| 397                               | 3.35     | -1.84 | Meth: 040.10 PCT           |          |       | 096                         |          |       | 260                          | 3.50     | -1.10 | 028                         | 3.57     | .64   |
| 393                               | 3.29 R   | -2.66 | InDir Available Phos       |          |       | 409                         |          |       | 322                          | 3.48     | -1.25 | 296                         | 3.60     | .62   |
| 324                               | 3.06 s   | -3.98 | <u>Grav Quim</u>           |          |       | 090                         |          |       | 041                          | 3.44     | -2.04 | 043                         | 3.57     | .32   |
| Meth: 030.10 PCT                  |          |       | 090                        |          |       | 394                         |          |       | Meth: 041.20 PCT             |          |       | 288                         |          |       |
| Insoluble Phosphate               |          |       | Avg                        |          |       | 405                         |          |       | Dir Available Phosph         |          |       | Avg                         |          |       |
| <u>Grav Quimociac</u>             |          |       | 405                        |          |       | Avg                         |          |       | <u>Spectrometric</u>         |          |       | 106                         |          |       |
| 405                               | 0.03     | .90   | Meth: 040.20 PCT           |          |       | 376                         |          |       | 030                          |          |       | 037                         |          |       |
| Avg                               | 0.01     |       | InDir Available Phos       |          |       | 220                         |          |       | 055                          |          |       | 095                         |          |       |
| 090                               | 0.00     | -.83  | <u>Spectrometri</u>        |          |       | 193                         |          |       | Avg                          |          |       | 377                         |          |       |
| Meth: 030.20 PCT                  |          |       | 220                        |          |       | 363                         |          |       | 415                          |          |       | 351                         |          |       |
| Insoluble Phosphate               |          |       | 423                        |          |       | 423                         |          |       | Meth: 041.40 PCT             |          |       | 262                         |          |       |
| <u>Spectrometric</u>              |          |       | Avg                        |          |       | 193                         |          |       | Dir Available Phosph         |          |       | Meth: 041.XX PCT            |          |       |
| 220                               | 0.16     | .71   | 363                        |          |       | Meth: 041.10 PCT            |          |       | <u>Automated</u>             |          |       | <u>Dir Available Phosph</u> |          |       |
| Meth: 030.40 PCT                  |          |       | 193                        |          |       | Dir Available Phosph        |          |       | 029                          |          |       | 254                         |          |       |
| Insoluble Phosphate               |          |       | Meth: 040.40 PCT           |          |       | <u>Grav Quimociac</u>       |          |       | 025                          |          |       | 023                         |          |       |
| <u>Automated</u>                  |          |       | InDir Available Phos       |          |       | 254                         |          |       | Avg                          |          |       | 057                         |          |       |
| 096                               | 0.21     | .87   | <u>Automated</u>           |          |       | 057                         |          |       | 3.48                         |          |       | 043                         |          |       |
| Avg                               | 0.13     |       | 096                        |          |       | 009                         |          |       | 3.43                         |          |       | 043                         |          |       |
| 193                               | 0.05     | -.86  | Avg                        |          |       | 105                         |          |       | -.47                         |          |       | 009                         |          |       |
| * X=Excluded from lab performance |          |       | S/s=Screened Outlier       |          |       | R=Duplicate Range too large |          |       | -1.19                        |          |       | 029                         |          |       |
|                                   |          |       |                            |          |       |                             |          |       | A=Analysis beyond 3-s limits |          |       | 105                         |          |       |

Laboratory Averages & Accuracy Indexes

| Lab                         | Average* | Index | Lab                               | Average* | Index | Lab                   | Average* | Index | Lab                         | Average* | Index                 | Lab                          | Average* | Index                 |        |       |      |      |
|-----------------------------|----------|-------|-----------------------------------|----------|-------|-----------------------|----------|-------|-----------------------------|----------|-----------------------|------------------------------|----------|-----------------------|--------|-------|------|------|
| Meth: 041.XX PCT            |          |       | Meth: 041.XX PCT                  |          |       | Meth: 050.10 PCT      |          |       | Meth: 050.51 PCT            |          |                       | Meth: 050.99 PCT             |          |                       |        |       |      |      |
| <u>Dir Available Phosph</u> |          |       | <u>Dir Available Phosph</u>       |          |       | <u>Soluble Potash</u> |          |       | <u>Soluble Potash</u>       |          |                       | <u>Soluble Potash</u>        |          |                       |        |       |      |      |
| 361                         | 3.65     | 1.21  | 131                               | 3.41     | -2.01 | <u>STPB Citrate</u>   |          |       | <u>ICP (Citrate)</u>        |          |                       | <u>Other</u>                 |          |                       |        |       |      |      |
| 397                         | 3.64     | 1.14  | 393                               | 3.42 R   | -2.48 | 322                   | 7.46     | .85   | 023                         | 7.50 X   | 1.89                  | 330                          | 7.19 R   | 1.25                  |        |       |      |      |
| 105                         | 3.64     | 1.09  | 377                               | 3.35     | -2.79 | Avg                   | 7.40     |       | 007                         | 7.27     | .52                   | 325                          | 7.31     | .99                   |        |       |      |      |
| 185                         | 3.63     | 1.08  | 072                               | 3.35 A   | -2.91 | 030                   | 7.35     | -.88  | 043                         | 7.25     | .41                   | 177                          | 7.30     | .92                   |        |       |      |      |
| 030                         | 3.62     | .91   | 351                               | 3.38 s   | -3.02 | Meth: 050.30 PCT      |          |       | Avg                         |          |                       | 072                          | 7.29     | .92                   |        |       |      |      |
| 029                         | 3.62     | .87   | 262                               | 3.09 s   | -6.16 | <u>Soluble Potash</u> |          |       | 361                         |          |                       | 7.14                         | -.31     | 394                   | 7.21   | .42   |      |      |
| 040                         | 3.62     | .87   | Meth: 048.20 PCT                  |          |       | <u>AA (Oxalate)</u>   |          |       | 389                         |          |                       | 7.05                         | -.89     | 027                   | 7.19   | .34   |      |      |
| 023                         | 3.61 X   | .75   | Water Soluble Phosph              |          |       | 142                   | 7.21     | 1.03  | 377                         |          |                       | 7.05                         | -.89     | Avg                   |        | 7.13  |      |      |
| 073                         | 3.57     | .74   | <u>Spectrometric</u>              |          |       | 095                   | 7.17     | .83   | 393                         |          |                       | 7.07                         | -.90     | 232                   | 7.13   | -.06  |      |      |
| 028                         | 3.57     | .70   | 420                               | 3.19     | .85   | 040                   | 7.12     | .72   | 423                         |          |                       | 6.33 s                       | -5.30    | 260                   | 7.09   | -.37  |      |      |
| 136                         | 3.60     | .66   | Avg                               | 3.16     |       | 136                   | 7.10     | .61   | Meth: 050.60 PCT            |          |                       | 105                          | 7.06     | -.54                  |        |       |      |      |
| 049                         | 3.59     | .62   | 363                               | 3.13     | -.89  | 369                   | 7.05     | .59   | <u>Soluble Potash</u>       |          |                       | 376                          | 6.95     | -1.04                 |        |       |      |      |
| 296                         | 3.60     | .58   | Meth: 050.00 PCT                  |          |       | 185                   | 7.05     | .37   | <u>Flame (Oxalate)</u>      |          |                       | 360                          | 6.95     | -1.09                 |        |       |      |      |
| 296                         | 3.60     | .58   | <u>Soluble Potash</u>             |          |       | 234                   | 7.03     | .24   | 406                         |          |                       | 7.63                         | 1.75     | 426                   | 6.87   | -1.52 |      |      |
| 055                         | 3.59     | .54   | <u>STPB Oxalate</u>               |          |       | Avg                   | 6.99     |       | 105                         |          |                       | 7.24                         | .23      | 368                   | 6.44 S | -3.97 |      |      |
| 007                         | 3.59     | .54   | 055                               | 7.33     | 1.45  | 137                   | 6.93     | -.32  | 131                         |          |                       | 7.23                         | .20      | 425                   | 6.34 s | -4.51 |      |      |
| 022                         | 3.57     | .45   | 090                               | 7.34     | 1.37  | 351                   | 6.69     | -1.42 | Avg                         |          |                       | 7.18                         |          | Meth: 050.XX PCT      |        |       |      |      |
| 025                         | 3.58     | .34   | 043                               | 7.29     | 1.15  | 397                   | 6.56     | -2.05 | 288                         |          |                       | 7.13                         | -.31     | <u>Soluble Potash</u> |        |       |      |      |
| 055                         | 3.56     | .33   | 114                               | 7.28     | 1.09  | 262                   | 5.88 s   | -5.24 | 055                         |          |                       | 7.02                         | -.67     | 406                   | 7.63   | 2.69  |      |      |
| 211                         | 3.58     | .28   | 102                               | 7.29     | 1.07  | Meth: 050.31 PCT      |          |       | 415                         |          |                       | 6.85                         | -1.34    | 023                   | 7.50 X | 2.00  |      |      |
| 043                         | 3.57     | .21   | 009                               | 7.17     | .37   | <u>AA (Citrate)</u>   |          |       | Meth: 050.61 PCT            |          |                       | 322                          | 7.46     | 1.80                  |        |       |      |      |
| 288                         | 3.56     | .07   | 231                               | 7.15     | .28   | 254                   |          |       | 7.36                        | .71      | <u>Soluble Potash</u> |                              |          | 300                   | 7.46   | 1.77  |      |      |
| Avg                         | 3.55     |       | 392                               | 7.12     | .13   | Meth: 050.50 PCT      |          |       | <u>Flame (Citrate)</u>      |          |                       | 254                          | 7.36     | 1.26                  |        |       |      |      |
| 360                         | 3.55     | -.23  | 220                               | 7.12     | .06   | <u>Soluble Potash</u> |          |       | 041                         |          |                       | 7.35                         | 1.36     | 330                   | 7.19 R | 1.20  |      |      |
| 102                         | 3.54     | -.26  | Avg                               | 7.12     |       | <u>ICP (Oxalate)</u>  |          |       | 025                         |          |                       | 7.28                         | .95      | 041                   | 7.35   | 1.20  |      |      |
| 415                         | 3.53     | -.31  | 072                               | 7.09     | -.22  | 307                   |          |       | 7.24                        | 1.58     | 105                   |                              |          | 7.19                  | .63    | 055   | 7.33 | 1.20 |
| 028                         | 3.53     | -.35  | 211                               | 7.08     | -.27  | 418                   |          |       | 7.14 X                      | .39      | 028                   |                              |          | 7.14                  | .09    | 030   | 7.35 | 1.18 |
| 325                         | 3.52     | -.47  | 022                               | 7.12     | -.28  | Avg                   |          |       | 7.09                        |          | Avg                   |                              |          | 7.12                  |        | 090   | 7.34 | 1.13 |
| 137                         | 3.51     | -.60  | 057                               | 7.09     | -.53  | 292                   |          |       | 7.06                        | -.21     | 035                   |                              |          | 7.07                  | -.51   | 325   | 7.31 | .97  |
| 131                         | 3.51     | -.65  | 296                               | 7.06     | -.62  | 106                   |          |       | 7.05                        | -.32     | 029                   |                              |          | 6.93                  | -1.15  | 043   | 7.29 | .94  |
| 072                         | 3.55     | -.74  | 257                               | 6.98     | -.84  | 420                   |          |       | 7.07                        | -.56     | 037                   |                              |          | 6.90                  | -1.32  | 307   | 7.24 | .94  |
| 260                         | 3.50     | -.82  | 095                               | 7.04     | -.95  | 422                   |          |       | 6.88                        | -1.70    | Meth: 050.99 PCT      |                              |          | 177                   | 7.30   | .91   |      |      |
| 322                         | 3.48     | -.93  | 049                               | 6.98     | -1.24 | 157                   |          |       | 6.30 s                      | -6.18    | <u>Soluble Potash</u> |                              |          | 072                   | 7.29   | .91   |      |      |
| 106                         | 3.48     | -.99  | 029                               | 6.94     | -1.47 | 300                   |          |       | 7.46                        | 1.83     | 114                   |                              |          | 7.28                  | .89    |       |      |      |
| 037                         | 3.48     | -1.05 | 411                               | 6.79     | -2.10 | Other                 |          |       |                             |          | 102                   |                              |          | 7.29                  | .86    |       |      |      |
| 095                         | 3.47     | -1.23 | 193                               | 6.65 s   | -3.00 | 025                   |          |       | 7.28                        | .83      | 025                   |                              |          | 7.28                  | .83    |       |      |      |
| 041                         | 3.44     | -1.60 | * X=Excluded from lab performance |          |       | S/s=Screened Outlier  |          |       | R=Duplicate Range too large |          |                       | A=Analysis beyond 3-s limits |          |                       |        |       |      |      |
| 027                         | 3.43     | -1.74 |                                   |          |       |                       |          |       |                             |          |                       |                              |          |                       |        |       |      |      |



Laboratory Averages & Accuracy Indexes

| Lab                   | Average* | Index | Lab                   | Average* | Index | Lab                         | Average* | Index | Lab   | Average* | Index | Lab                         | Average* | Index |
|-----------------------|----------|-------|-----------------------|----------|-------|-----------------------------|----------|-------|---|----------|-------|-----------------------------|----------|-------|
| Meth: 050.XX PCT      |          |       | Meth: 050.XX PCT      |          |       | Meth: 060.99 PCT            |          |       | Meth: 101.99 PCT  |          |       | Meth: 121.30 PCT            |          |       |
| <u>Soluble Potash</u> |          |       | <u>Soluble Potash</u> |          |       | <u>Free Water</u>           |          |       | <u>Acid Soluble Calcium</u>   |          |       | <u>Acid Soluble Magnesi</u> |          |       |
| 007                   | 7.27     | .77   | 055                   | 7.02     | -.64  | Other                       |          |       | Other   |          |       | ICP                         |          |       |
| 043                   | 7.25     | .67   | 369                   | 7.05     | -.73  | 409                         | 1.06     | -.71  | 409   | 0.34     | .71   | 131                         | 0.15     | .59   |
| 105                   | 7.24     | .61   | 257                   | 6.98     | -.77  | Meth: 060.XX PCT            |          |       | Meth: 101.XX PCT  |          |       | 057                         | 0.15     | .48   |
| 105                   | 7.19     | .56   | 095                   | 7.04     | -.84  | <u>Free Water</u>           |          |       | <u>Acid Soluble Calcium</u>   |          |       | 232                         | 0.15     | .18   |
| 131                   | 7.23     | .55   | 376                   | 6.95     | -.96  | 409                         | 1.06     | 1.61  | 422   | 0.73 s   | 11.27 | Avg                         | 0.15     |       |
| 142                   | 7.21     | .46   | 360                   | 6.95     | -1.01 | 193                         | 0.94     | .81   | 409   | 0.34     | 2.21  | 288                         | 0.15     | -.54  |
| 394                   | 7.21     | .43   | 247                   | 6.94     | -1.01 | Avg                         |          |       | 193   | 0.33     | 2.11  | 423                         | 0.15     | -.54  |
| 027                   | 7.19     | .36   | 029                   | 6.93     | -1.09 | 363                         | 0.80     | -.30  | 035   | 0.25 R   | .47   | 247                         | 0.15     | -.54  |
| 324                   | 7.18     | .29   | 049                   | 6.98     | -1.10 | 096                         | 0.79     | -.33  | 232   | 0.25     | .33   | 009                         | 0.14     | -.66  |
| 009                   | 7.17     | .28   | 137                   | 6.93     | -1.10 | 105                         | 0.72     | -.90  | Avg   | 0.24     |       | 420                         | 0.12     | -2.40 |
| 095                   | 7.17     | .25   | 037                   | 6.90     | -1.24 | 007                         | 0.68     | -1.11 | 065   | 0.24     | -.10  | Meth: 121.99 PCT            |          |       |
| 231                   | 7.15     | .20   | 029                   | 6.94 R   | -1.29 | Meth: 101.00 PCT            |          |       | 009   | 0.23     | -.13  | Acid Soluble Magnesi        |          |       |
| 361                   | 7.14     | .13   | 422                   | 6.88     | -1.39 | <u>Acid Soluble Calcium</u> |          |       | 307   | 0.23     | -.18  | <u>Other</u>                |          |       |
| 232                   | 7.13     | .06   | 426                   | 6.87     | -1.41 | <u>AA</u>                   |          |       | 057   | 0.23     | -.30  | 409                         | 0.27     | .00   |
| 028                   | 7.14     | .05   | 415                   | 6.85     | -1.55 | 193                         | 0.33     | .87   | 102   | 0.23     | -.31  | Meth: 121.XX PCT            |          |       |
| 418                   | 7.14 X   | .05   | 411                   | 6.79     | -1.85 | Avg                         |          |       | 288   | 0.22     | -.57  | <u>Acid Soluble Magnesi</u> |          |       |
| Avg                   | 7.13     |       | 351                   | 6.69     | -2.37 | 105                         | 0.21     | -.86  | 247   | 0.21     | -.67  | 422                         | 0.37 s   | 4.78  |
| 220                   | 7.12     | -.07  | 193                   | 6.65     | -2.61 | Meth: 101.30 PCT            |          |       | 105   | 0.21     | -.78  | 409                         | 0.27     | 2.52  |
| 392                   | 7.12     | -.11  | 397                   | 6.56 A   | -3.08 | <u>Acid Soluble Calcium</u> |          |       | 423   | 0.21     | -.79  | 330                         | 0.26     | 2.30  |
| 072                   | 7.09     | -.23  | 368                   | 6.44 s   | -3.75 | <u>ICP</u>                  |          |       | 420   | 0.20     | -.90  | 231                         | 0.18 R   | .64   |
| 022                   | 7.12     | -.25  | 425                   | 6.34 s   | -4.26 | 422                         | 0.73 s   | 31.13 | Meth: 121.00 PCT  |          |       | Avg                         | 0.16     |       |
| 211                   | 7.08     | -.28  | 423                   | 6.33 s   | -4.39 | 035                         | 0.25 R   | 1.93  | <u>Acid Soluble Magnesi</u>   |          |       | 102                         | 0.16     | -.04  |
| 288                   | 7.13     | -.30  | 157                   | 6.30 s   | -4.51 | 232                         | 0.25     | 1.77  | <u>AA</u>   |          |       | 035                         | 0.16     | -.05  |
| 260                   | 7.09     | -.33  | 262                   | 5.88 s   | -6.77 | 065                         | 0.24     | .74   | 193   | 0.13     | .43   | 065                         | 0.16     | -.13  |
| 292                   | 7.06     | -.37  | Meth: 060.00 PCT      |          |       | 307                         | 0.23     | .73   | Avg   | 0.13     |       | 131                         | 0.15     | -.15  |
| 040                   | 7.12     | -.43  | <u>Free Water</u>     |          |       | 009                         | 0.23     | .60   | 105   | 0.12     | -1.15 | 057                         | 0.15     | -.25  |
| 136                   | 7.10     | -.44  | <u>Vacuum Oven</u>    |          |       | 057                         | 0.23     | .39   | Meth: 121.30 PCT  |          |       | 232                         | 0.15     | -.26  |
| 106                   | 7.05     | -.44  | 193                   | 0.94     | 1.55  | 102                         | 0.23     | .24   | <u>Acid Soluble Magnesi</u>   |          |       | 247                         | 0.15     | -.39  |
| 057                   | 7.09     | -.48  | 363                   | 0.80     | .40   | Avg                         |          |       | <u>ICP</u>  |          |       | 423                         | 0.15     | -.39  |
| 105                   | 7.06     | -.49  | 096                   | 0.79     | .15   | 288                         | 0.22     | -.62  | 422   | 0.37 s   | 20.17 | 288                         | 0.15     | -.39  |
| 420                   | 7.07     | -.49  | Avg                   | 0.78     |       | 247                         | 0.21     | -.85  | 330   | 0.26 s   | 10.30 | 009                         | 0.14     | -.46  |
| 035                   | 7.07     | -.49  | 105                   | 0.72     | -.86  | 423                         | 0.21     | -1.20 | 231   | 0.18 R   | 3.45  | 193                         | 0.13     | -.65  |
| 185                   | 7.05     | -.50  | 007                   | 0.68     | -1.09 | 420                         | 0.20     | -1.47 | 102   | 0.16     | 1.07  | 420                         | 0.12     | -.90  |
| 377                   | 7.05     | -.50  |                       |          |       |                             |          |       | 035   | 0.16     | 1.06  | 105                         | 0.12     | -.91  |
| 389                   | 7.05     | -.50  |                       |          |       |                             |          |       | 065   | 0.16     | .75   |                             |          |       |
| 234                   | 7.03     | -.55  |                       |          |       |                             |          |       | * X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits |          |       |                             |          |       |
| 296                   | 7.06     | -.56  |                       |          |       |                             |          |       |   |          |       |                             |          |       |
| 393                   | 7.07     | -.57  |                       |          |       |                             |          |       |   |          |       |                             |          |       |

Laboratory Averages & Accuracy Indexes

| Lab                  | Average* | Index | Lab                  | Average* | Index | Lab              | Average* | Index | Lab                      | Average* | Index | Lab                       | Average* | Index |
|----------------------|----------|-------|----------------------|----------|-------|------------------|----------|-------|--------------------------|----------|-------|---------------------------|----------|-------|
| Meth: 131.00 PCT     |          |       | Meth: 144.02 PCT     |          |       | Meth: 144.XX PCT |          |       | Meth: 151.00 PPM         |          |       | Meth: 165.99 PCT          |          |       |
| Water Soluble Magnes |          |       | Sulfur               |          |       | <u>Sulfur</u>    |          |       | Arsenic                  |          |       | Acid Soluble Boron        |          |       |
| <u>AA</u>            |          |       | <u>Gravimetric</u>   |          |       | 029 3.81 1.76    |          |       | <u>Atomic Absorption</u> |          |       | <u>Other</u>              |          |       |
| 193 0.01 .71         |          |       | Avg 3.75             |          |       | 368 3.63 R 1.66  |          |       | 040 1.09 .71             |          |       | 422 0.003 1.09            |          |       |
|                      |          |       | 292 3.75 -.79        |          |       | 029 3.76 1.31    |          |       | Meth: 151.30 PPM         |          |       | 423 0.003 .74             |          |       |
| Meth: 131.99 PCT     |          |       | Meth: 144.70 PCT     |          |       | 292 3.75 1.16    |          |       | Arsenic                  |          |       | Avg 0.002                 |          |       |
| Water Soluble Magnes |          |       | Sulfur               |          |       | 220 3.74 1.10    |          |       | <u>ICP</u>               |          |       | 232 0.001 -.72            |          |       |
| <u>Other</u>         |          |       | <u>Spectrometric</u> |          |       | 095 3.69 .98     |          |       | 247 2.00 1.14            |          |       | 409 0.000 -1.11           |          |       |
| 009 3.55 .71         |          |       | 393 3.60 .71         |          |       | 043 3.71 .93     |          |       | 376 1.59 .68             |          |       |                           |          |       |
|                      |          |       |                      |          |       | 361 3.72 .85     |          |       | Avg 1.01                 |          |       | Meth: 165.XX PCT          |          |       |
| Meth: 131.XX PCT     |          |       | Meth: 144.99 PCT     |          |       | 330 3.69 .77     |          |       | 043 0.45 -.65            |          |       | <u>Acid Soluble Boron</u> |          |       |
| Water Soluble Magnes |          |       | Sulfur               |          |       | 136 3.69 .59     |          |       | 368 0.01 -1.15           |          |       | 422 0.003 1.09            |          |       |
| 009 3.55 .87         |          |       | <u>Other</u>         |          |       | 022 3.68 .53     |          |       | Meth: 151.99 PPM         |          |       | 105 0.003 R .80           |          |       |
| Avg 1.78             |          |       | 037 3.78 1.67        |          |       | 157 3.67 .46     |          |       | Arsenic                  |          |       | 423 0.003 .74             |          |       |
| 193 0.01 -.87        |          |       | 368 3.63 R 1.35      |          |       | 177 3.65 .38     |          |       | <u>Other</u>             |          |       | Avg 0.002                 |          |       |
|                      |          |       | 220 3.74 1.10        |          |       | 296 3.65 .37     |          |       | 409 1.20 .85             |          |       | 232 0.001 -.72            |          |       |
| Meth: 144.01 PCT     |          |       | 361 3.72 .90         |          |       | 106 3.65 .37     |          |       | Avg 1.18                 |          |       | 409 0.000 -1.11           |          |       |
| Sulfur               |          |       | 330 3.69 .79         |          |       | 288 3.66 .34     |          |       | 136 1.17 -.88            |          |       |                           |          |       |
| <u>Gravimetric</u>   |          |       | 136 3.69 .68         |          |       | 055 3.66 .34     |          |       | Meth: 181.00 PPM         |          |       | Cadmium                   |          |       |
| 137 6.93 s 51.78     |          |       | 022 3.68 .63         |          |       | 324 3.65 .30     |          |       | <u>Atomic Absorption</u> |          |       |                           |          |       |
| 029 3.81 2.53        |          |       | 023 3.62 X .46       |          |       | 389 3.63 .24     |          |       | 193 2.20 1.28            |          |       | Avg 1.12                  |          |       |
| 095 3.69 R 1.45      |          |       | 177 3.65 .45         |          |       | 231 3.64 .29     |          |       | Meth: 151.XX PPM         |          |       | 040 0.69 -.51             |          |       |
| 043 3.71 1.22        |          |       | 231 3.64 .29         |          |       | 028 3.62 -.11    |          |       | <u>Arsenic</u>           |          |       | 397 0.46 -.77             |          |       |
| 157 3.67 .37         |          |       | 389 3.63 .28         |          |       | 397 3.61 -.17    |          |       | 247 2.00 1.55            |          |       |                           |          |       |
| 055 3.66 .21         |          |       | 422 3.61 .18         |          |       | 422 3.61 -.24    |          |       | 376 1.59 R .94           |          |       |                           |          |       |
| 288 3.66 .21         |          |       | Avg 3.60             |          |       | 393 3.60 -.29    |          |       | 409 1.20 .33             |          |       |                           |          |       |
|                      |          |       | 376 3.58 -.33        |          |       | 193 3.60 -.37    |          |       | 136 1.17 .27             |          |       | Meth: 181.30 PPM          |          |       |
| Avg 3.65             |          |       | 131 3.55 -.37        |          |       | 040 3.59 -.38    |          |       | 040 1.09 .18             |          |       | Cadmium                   |          |       |
| 324 3.65 -.41        |          |       | 360 3.46 -1.09       |          |       | 102 3.59 -.39    |          |       | Avg 0.99                 |          |       | <u>ICP</u>                |          |       |
| 106 3.65 -.47        |          |       | 423 3.42 -1.43       |          |       | 023 3.62 X -.56  |          |       | 043 0.45 -.82            |          |       | 393 4.78 S 4.49           |          |       |
| 296 3.65 -.47        |          |       | 096 3.39 -1.62       |          |       | 376 3.58 -.57    |          |       | 368 0.01 -1.49           |          |       | 368 3.24 s 3.86           |          |       |
| 028 3.62 -.52        |          |       | 232 3.36 -1.87       |          |       | 131 3.55 -.72    |          |       | Meth: 165.00 PCT         |          |       | 324 3.15 2.45             |          |       |
| 397 3.61 -.62        |          |       | 035 3.37 S -2.12     |          |       | 360 3.46 -1.61   |          |       | Acid Soluble Boron       |          |       | 065 1.68 R .73            |          |       |
| 193 3.60 -.97        |          |       | 409 3.26 S -2.68     |          |       | 423 3.42 -2.03   |          |       | <u>Spectrometric</u>     |          |       | 376 1.22 .11              |          |       |
| 102 3.59 -1.03       |          |       |                      |          |       | 096 3.39 -2.27   |          |       | 105 0.003 .71            |          |       | Avg 1.13                  |          |       |
| 040 3.59 -1.05       |          |       |                      |          |       | 232 3.36 -2.58   |          |       |                          |          |       | 106 1.10 -.04             |          |       |
|                      |          |       |                      |          |       | 035 3.37 s -2.85 |          |       |                          |          |       | 009 1.00 -.16             |          |       |
| Meth: 144.02 PCT     |          |       | Meth: 144.XX PCT     |          |       | 409 3.26 s -3.58 |          |       |                          |          |       | 247 0.75 -.46             |          |       |
| Sulfur               |          |       | <u>Sulfur</u>        |          |       |                  |          |       |                          |          |       | 102 0.73 -.49             |          |       |
| <u>Gravimetric</u>   |          |       | 137 6.93 s 31.23     |          |       |                  |          |       |                          |          |       | 232 0.65 -.58             |          |       |
| 029 3.76 .94         |          |       | 037 3.78 R 1.86      |          |       |                  |          |       |                          |          |       |                           |          |       |

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

| Lab                               | Average* | Index | Lab                  | Average*                 | Index | Lab                         | Average*        | Index | Lab                          | Average*       | Index | Lab                 | Average*       | Index |                            |  |  |
|-----------------------------------|----------|-------|----------------------|--------------------------|-------|-----------------------------|-----------------|-------|------------------------------|----------------|-------|---------------------|----------------|-------|----------------------------|--|--|
| Meth: 181.30 PPM                  |          |       | Meth: 190.00 PCT     |                          |       | Meth: 190.XX PCT            |                 |       | Meth: 191.XX PPM             |                |       | Meth: 202.XX PPM    |                |       |                            |  |  |
| Cadmium                           |          |       | Water Soluble Chlori |                          |       | Water Soluble Chlori        |                 |       | Chromium                     |                |       | Acid Soluble Cobalt |                |       |                            |  |  |
| <u>ICP</u>                        |          |       | <u>Titrimetric</u>   |                          |       | 055 5.24 R - .94            |                 |       | 102 79.93 .37                |                |       | 220 30.50 s 3.11    |                |       |                            |  |  |
| 096                               | 0.45     | -.82  | 043                  | 5.45                     | -.24  | 027                         | 5.22            | -.96  | 324                          | 79.60          | .35   | 096                 | 27.00          | 1.76  |                            |  |  |
| Meth: 181.99 PPM                  |          |       | 102 5.37 -.47        |                          |       | 028 5.20 -1.02              |                 |       | Avg 74.90                    |                |       | 057 22.95 1.23      |                |       |                            |  |  |
| Cadmium                           |          |       | 057 5.36 -.52        |                          |       | 360 5.13 -1.32              |                 |       | 232 63.80 -.79               |                |       | 409 21.50 1.04      |                |       |                            |  |  |
| <u>Other</u>                      |          |       | 040 5.31 -.80        |                          |       | Meth: 191.00 PPM            |                 |       | 368 64.11 -.81               |                |       | 009 20.25 .88       |                |       |                            |  |  |
| 409                               | 0.75     | .87   | 055 5.24 R -1.11     | Chromium                 |       |                             | 035 57.90 -1.26 |       |                              | Avg 13.58      |       |                     | 368 13.06 -.10 |       |                            |  |  |
| Avg                               | 0.68     |       | 028 5.20 -1.21       | <u>Atomic Absorption</u> |       |                             | 065 49.20 -1.87 |       |                              | 035 12.90 -.20 |       |                     | 324 11.25 -.32 |       |                            |  |  |
| 136                               | 0.60     | -.87  | Meth: 190.99 PCT     |                          |       | 220 92.00 .71               |                 |       | Meth: 202.00 PPM             |                |       | 102 11.51 -.32      |                |       | 040 9.00 -.61              |  |  |
| Meth: 181.XX PPM                  |          |       | Water Soluble Chlori |                          |       | Meth: 191.30 PPM            |                 |       | Acid Soluble Cobalt          |                |       | 232 6.75 -.90       |                |       | 389 4.00 -1.26             |  |  |
| Cadmium                           |          |       | <u>Other</u>         |                          |       | Chromium                    |                 |       | <u>AA</u>                    |                |       | 106 2.85 -1.41      |                |       | Meth: 221.00 PCT           |  |  |
| 393                               | 4.78 s   | 4.96  | 368                  | 5.90                     | 1.94  | <u>ICP</u>                  |                 |       | 220 30.50 S .00              |                |       | Acid Soluble Copper |                |       | <u>Atomic Absorption</u>   |  |  |
| 368                               | 3.24 s   | 4.25  | 288                  | 5.59 R                   | .79   | 393                         | 140.98 s        | 4.95  | Meth: 202.30 PPM             |                |       | 040 0.0053 1.05     |                |       | Avg 0.0049                 |  |  |
| 324                               | 3.15     | 2.75  | 009                  | 5.45                     | .21   | 009                         | 88.45           | 1.16  | Acid Soluble Cobalt          |                |       | 397 0.0047 -.72     |                |       | 105 0.0048 -.93            |  |  |
| 193                               | 2.20     | 1.50  | Avg                  | 5.40                     |       | 247                         | 87.25           | 1.08  | <u>ICP</u>                   |                |       | 193 0.0026 S -6.64  |                |       | 029 0.0000 S -14.03        |  |  |
| 065                               | 1.68 R   | .87   | 394                  | 5.37                     | -.13  | 376                         | 80.27           | .75   | 096 27.00 1.79               |                |       | Meth: 221.30 PCT    |                |       | Acid Soluble Copper        |  |  |
| 376                               | 1.22     | .21   | 095                  | 5.32                     | -.30  | 102                         | 79.93           | .56   | 057 22.95 1.28               |                |       | Acid Soluble Copper |                |       | <u>ICP</u>                 |  |  |
| 106                               | 1.10     | .06   | 027                  | 5.22                     | -.71  | 324                         | 79.60           | .54   | 009 20.25 .94                |                |       | 420 0.0113 s 14.78  |                |       | 393 0.0091 s 9.30          |  |  |
| Avg                               | 1.06     |       | 360                  | 5.13                     | -1.04 | Avg                         | 72.28           |       | 035 12.90 .18                |                |       | 422 0.0055 1.60     |                |       | 057 0.0054 1.41            |  |  |
| 009                               | 1.00     | -.07  | Meth: 190.XX PCT     |                          |       | 232 63.80 -.61              |                 |       | Avg 12.85                    |                |       | 102 0.0055 1.21     |                |       | 324 0.0052 .60             |  |  |
| 409                               | 0.75     | -.41  | Water Soluble Chlori |                          |       | 368 64.11 -.63              |                 |       | 324 11.25 -.21               |                |       | 292 0.0052 .57      |                |       | 423 0.0052 .55             |  |  |
| 247                               | 0.75     | -.41  | 137 6.73 s 5.46      |                          |       | 035 57.90 -1.08             |                 |       | 102 11.51 -.23               |                |       | 096 0.0052 .44      |                |       | Avg 0.0050                 |  |  |
| 102                               | 0.73     | -.43  | 422 5.96 2.20        |                          |       | 065 49.20 -1.69             |                 |       | 040 9.00 -.49                |                |       | A                   |                |       | Analysis beyond 3-s limits |  |  |
| 040                               | 0.69     | -.49  | 368 5.90 1.93        |                          |       | Meth: 191.99 PPM            |                 |       | 232 6.75 -.77                |                |       |                     |                |       |                            |  |  |
| 232                               | 0.65     | -.54  | 220 5.68 1.01        |                          |       | Chromium                    |                 |       | 389 4.00 -1.12               |                |       |                     |                |       |                            |  |  |
| 136                               | 0.60     | -.60  | 288 5.59 R .70       |                          |       | <u>Other</u>                |                 |       | 106 2.85 -1.26               |                |       |                     |                |       |                            |  |  |
| 397                               | 0.46     | -.78  | 296 5.53 .35         |                          |       | 409 81.35 .71               |                 |       | Meth: 202.99 PPM             |                |       |                     |                |       |                            |  |  |
| 096                               | 0.45     | -.80  | 043 5.45 .21         |                          |       | Meth: 191.XX PPM            |                 |       | Acid Soluble Cobalt          |                |       |                     |                |       |                            |  |  |
| Meth: 190.00 PCT                  |          |       | 009 5.45 .05         |                          |       | Chromium                    |                 |       | Other                        |                |       |                     |                |       |                            |  |  |
| Water Soluble Chlori              |          |       | Avg 5.44             |                          |       | 409 81.35 .47               |                 |       | 409 21.50 .87                |                |       |                     |                |       |                            |  |  |
| <u>Titrimetric</u>                |          |       | 029 5.40 -.18        |                          |       | 393 140.98 s 4.74           |                 |       | Avg 17.28                    |                |       |                     |                |       |                            |  |  |
| 137                               | 6.73 s   | 5.65  | 394 5.37 -.32        |                          |       | 220 92.00 1.25              |                 |       | 368 13.06 -.87               |                |       |                     |                |       |                            |  |  |
| 422                               | 5.96     | 2.19  | 102 5.37 -.32        |                          |       | 009 88.45 .97               |                 |       |                              |                |       |                     |                |       |                            |  |  |
| 220                               | 5.68     | .93   | 057 5.36 -.37        |                          |       | 247 87.25 .89               |                 |       |                              |                |       |                     |                |       |                            |  |  |
| 296                               | 5.53     | .24   | 095 5.32 -.51        |                          |       | 376 80.27 .62               |                 |       |                              |                |       |                     |                |       |                            |  |  |
| Avg                               | 5.47     |       | 040 5.31 -.64        |                          |       | 409 81.35 .47               |                 |       |                              |                |       |                     |                |       |                            |  |  |
| * X=Excluded from lab performance |          |       | S/s=Screened Outlier |                          |       | R=Duplicate Range too large |                 |       | A=Analysis beyond 3-s limits |                |       |                     |                |       |                            |  |  |

Laboratory Averages & Accuracy Indexes

| Lab                        | Average* | Index | Lab                        | Average* | Index  | Lab                               | Average* | Index | Lab                      | Average* | Index | Lab                          | Average* | Index |
|----------------------------|----------|-------|----------------------------|----------|--------|-----------------------------------|----------|-------|--------------------------|----------|-------|------------------------------|----------|-------|
| Meth: 221.30 PCT           |          |       | Meth: 221.XX PCT           |          |        | Meth: 241.30 PCT                  |          |       | Meth: 241.XX PCT         |          |       | Meth: 251.00 PPM             |          |       |
| <u>Acid Soluble Copper</u> |          |       | <u>Acid Soluble Copper</u> |          |        | <u>Acid Soluble Iron</u>          |          |       | <u>Acid Soluble Iron</u> |          |       | <u>Lead</u>                  |          |       |
| ICP                        |          |       | 232                        | 0.0049   | -.26   | ICP                               |          |       | 330                      | 2.62     | .96   | <u>Atomic Absorption</u>     |          |       |
| 330                        | 0.0050   | -.01  | 035                        | 0.0049   | -.26   | 095                               | 2.56     | .92   | 029                      | 2.62     | .94   | 193                          | 43.50 S  | 50.09 |
| 009                        | 0.0050   | -.14  | 065                        | 0.0049   | -.55   | 360                               | 2.50     | .70   | 055                      | 2.60     | .90   | 040                          | 7.42     | .86   |
| 232                        | 0.0049   | -.18  | 106                        | 0.0048   | -.71   | 324                               | 2.44     | .52   | 114                      | 2.57     | .81   | Avg                          | 6.88     |       |
| 035                        | 0.0049   | -.19  | 397                        | 0.0047   | -.81   | 009                               | 2.41     | .42   | 409                      | 2.56     | .79   | 220                          | 6.35     | -.87  |
| 065                        | 0.0049   | -.49  | 389                        | 0.0048   | -.87   | 131                               | 2.34     | .18   | 095                      | 2.56     | .79   | Meth: 251.30 PPM             |          |       |
| 106                        | 0.0048   | -.65  | 105                        | 0.0048   | -.87   | Avg                               | 2.29     |       | 360                      | 2.50     | .62   | <u>Lead</u>                  |          |       |
| 389                        | 0.0048   | -.82  | 037                        | 0.0045   | -1.67  | 426                               | 2.22     | -.22  | 095                      | 2.48     | .56   | <u>ICP</u>                   |          |       |
| 037                        | 0.0045   | -1.62 | 307                        | 0.0050 R | -1.71  |                                   |          |       | 043                      | 2.47     | .55   | 043                          | 24.50 s  | 10.57 |
| 307                        | 0.0050 R | -1.71 | 288                        | 0.0041   | -2.12  | 096                               | 2.21     | -.31  | 105                      | 2.46     | .55   | 368                          | 12.28    | 1.17  |
| 288                        | 0.0041   | -2.06 | 193                        | 0.0026 s | -5.51  | 231                               | 2.21     | -.40  | 324                      | 2.44     | .48   | 247                          | 12.40    | 1.06  |
|                            |          |       | 029                        | 0.0000 s | -11.38 | 423                               | 2.17     | -.44  | 009                      | 2.41     | .40   | 324                          | 12.30    | 1.06  |
|                            |          |       |                            |          |        | 307                               | 2.16     | -.52  | 131                      | 2.34     | .20   | 065                          | 11.80    | .59   |
| Meth: 221.99 PCT           |          |       | Meth: 241.00 PCT           |          |        | 420                               |          |       | 296                      |          |       | 009                          |          |       |
| <u>Acid Soluble Copper</u> |          |       | <u>Acid Soluble Iron</u>   |          |        | 035                               |          |       | Avg                      |          |       | Avg                          |          |       |
| <u>Other</u>               |          |       | <u>Atomic Absorption</u>   |          |        | 389                               |          |       | 177                      |          |       | Avg                          |          |       |
| 368                        | 0.0056   | 1.43  | 137                        | 3.01     | 2.13   | 288                               | 1.99 R   | -1.21 | 426                      | 2.22     | -.12  | 102                          | 10.30    | -.59  |
| 220                        | 0.0054   | .23   | 029                        | 2.62     | .62    | 232                               | 1.90     | -1.31 | 422                      | 2.22     | -.15  | 376                          | 10.13    | -.73  |
| Avg                        | 0.0053   |       | 055                        | 2.60     | .56    | 102                               | 1.89     | -1.35 | 096                      | 2.21     | -1.20 | 106                          | 10.00    | -.83  |
| 409                        | 0.0051   | -.63  | 114                        | 2.57     | .43    | 023                               | 1.59 X   | -2.34 | 040                      | 2.19     | -.22  | 035                          | 10.31 R  | -.98  |
|                            |          |       | 105                        | 2.46 R   | .19    | 247                               | 0.99 S   | -4.37 | 234                      | 2.17     | -.26  | 232                          | 8.90     | -1.71 |
|                            |          |       | 095                        | 2.48     | .08    | 292                               | 0.78 s   | -5.08 | 231                      | 2.21     | -.28  | Meth: 251.99 PPM             |          |       |
|                            |          |       | 043                        | 2.47     | .07    |                                   |          |       | 423                      | 2.17     | -.30  | <u>Lead</u>                  |          |       |
|                            |          |       | Avg                        | 2.45     |        | Meth: 241.99 PCT                  |          |       | 307                      | 2.16     | -.37  | <u>Other</u>                 |          |       |
|                            |          |       | 296                        | 2.29     | -.63   | <u>Acid Soluble Iron</u>          |          |       | 262                      | 2.09     | -.47  | 409                          |          |       |
|                            |          |       | 177                        | 2.24     | -.82   | <u>Other</u>                      |          |       | 220                      | 2.13 R   | -.53  | Avg                          |          |       |
|                            |          |       | 040                        | 2.19     | -1.03  | 234                               |          |       | 420                      | 2.04     | -.63  | 136                          |          |       |
|                            |          |       | 262                        | 2.09     | -1.40  | 220                               |          |       | 035                      | 2.09 R   | -.64  | 8.65                         |          |       |
|                            |          |       | 397                        | 1.39 s   | -4.07  | Avg                               |          |       | 389                      | 2.00     | -.72  | -.87                         |          |       |
|                            |          |       |                            |          |        | 368                               |          |       | 288                      | 1.99 R   | -.92  | Meth: 251.XX PPM             |          |       |
|                            |          |       |                            |          |        | Meth: 241.30 PCT                  |          |       | 232                      | 1.90     | -1.00 | <u>Lead</u>                  |          |       |
|                            |          |       |                            |          |        | <u>Acid Soluble Iron</u>          |          |       | 102                      | 1.89     | -1.03 | 193                          |          |       |
|                            |          |       |                            |          |        | ICP                               |          |       | 023                      | 1.59 X   | -1.82 | 43.50 s                      |          |       |
|                            |          |       |                            |          |        | 157                               |          |       | 368                      | 1.56     | -1.91 | 24.50 s                      |          |       |
|                            |          |       |                            |          |        | 106                               |          |       | 065                      | 1.41     | -2.33 | 12.28                        |          |       |
|                            |          |       |                            |          |        | 057                               |          |       | 397                      | 1.39     | -2.35 | 12.40                        |          |       |
|                            |          |       |                            |          |        | 330                               |          |       | 247                      | 0.99 s   | -3.45 | 12.30                        |          |       |
|                            |          |       |                            |          |        | 009                               |          |       | 292                      | 0.78 s   | -4.02 | 11.80                        |          |       |
|                            |          |       |                            |          |        | 409                               |          |       |                          |          |       | 11.35                        |          |       |
|                            |          |       |                            |          |        | * X=Excluded from lab performance |          |       |                          |          |       | .58                          |          |       |
|                            |          |       |                            |          |        | S/s=Screened Outlier              |          |       |                          |          |       | A=Analysis beyond 3-s limits |          |       |
|                            |          |       |                            |          |        | R=Duplicate Range too large       |          |       |                          |          |       |                              |          |       |

Laboratory Averages & Accuracy Indexes

| Lab                  | Average* | Index  | Lab                         | Average* | Index | Lab                      | Average* | Index | Lab                      | Average* | Index | Lab                          | Average* | Index |
|----------------------|----------|--------|-----------------------------|----------|-------|--------------------------|----------|-------|--------------------------|----------|-------|------------------------------|----------|-------|
| Meth: 251.XX PPM     |          |        | Meth: 261.99 PCT            |          |       | Meth: 281.30 PPM         |          |       | Meth: 289.XX PPM         |          |       | Meth: 291.99 PPM             |          |       |
| <u>Lead</u>          |          |        | Acid Soluble Mangane        |          |       | Mercury                  |          |       | <u>Molybdenum</u>        |          |       | Nickel                       |          |       |
| 035                  | 10.31 R  | .52    | <u>Other</u>                |          |       | <u>ICP</u>               |          |       | 096                      | 20.00 s  | 5.03  | <u>Other</u>                 |          |       |
| 409                  | 11.10    | .46    | 409                         | 0.029    | .55   | 040                      | 25.25    | .71   | 220                      | 14.50 s  | 2.89  | 409                          | 36.95    | .84   |
| 102                  | 10.30    | .05    | Avg 0.028                   |          |       | Meth: 281.XX PPM         |          |       | 409                      | 12.25    | 1.21  | Avg 33.58                    |          |       |
| Avg                  | 10.23    |        | 288                         | 0.027    | -1.09 | <u>Mercury</u>           |          |       | 368                      | 12.06    | 1.11  | 035                          | 30.20    | -.89  |
| 376                  | 10.13    | -.06   | Meth: 261.XX PCT            |          |       | 040                      | 25.25    | 1.16  | 247                      | 11.50    | .84   | Meth: 291.XX PPM             |          |       |
| 106                  | 10.00    | -.12   | <u>Acid Soluble Mangane</u> |          |       | Avg 12.41                |          |       | 057                      | 11.20    | .69   | <u>Nickel</u>                |          |       |
| 232                  | 8.90     | -.71   | 420                         | 0.217 s  | 38.14 | 363                      | 11.50    | -.09  | 035                      | 10.56 R  | .68   | 096                          | 50.00    | 2.01  |
| 136                  | 8.65     | -.83   | 009                         | 0.031    | .84   | 193                      | 0.49     | -1.07 | 324                      | 10.95    | .57   | 102                          | 42.53    | .88   |
| 040                  | 7.42     | -1.47  | 057                         | 0.030    | .77   | Meth: 289.00 PPM         |          |       | Avg                      | 9.80     |       | 376                          | 38.43 R  | .63   |
| 220                  | 6.35     | -2.02  | 330                         | 0.030    | .69   | <u>Molybdenum</u>        |          |       | 232                      | 9.60     | -.11  | 247                          | 40.60    | .58   |
| Meth: 261.00 PCT     |          |        | 307                         | 0.030    | .66   | <u>Atomic Absorption</u> |          |       | 009                      | 9.50     | -.21  | 220                          | 39.50    | .47   |
| Acid Soluble Mangane |          |        | 102                         | 0.029    | .64   | 220                      | 14.50 S  | 26.73 | 389                      | 9.00     | -.39  | 324                          | 39.30    | .46   |
| <u>AA</u>            |          |        | 131                         | 0.030    | .59   | 040                      | 7.80     | .71   | 065                      | 8.35     | -.75  | 009                          | 37.35    | .13   |
| 105                  | 0.027    | .88    | 105                         | 0.027    | .46   | Avg 7.80                 |          |       | 040                      | 7.80     | -.99  | 409                          | 36.95    | .07   |
| Avg                  | 0.021    |        | 409                         | 0.029    | .45   | Meth: 289.30 PPM         |          |       | 106                      | 5.10     | -2.33 | Avg 36.82                    |          |       |
| 193                  | 0.015    | -.85   | 423                         | 0.029    | .40   | <u>Molybdenum</u>        |          |       | Meth: 291.00 PPM         |          |       | 389                          | 35.00    | -.28  |
| Meth: 261.30 PCT     |          |        | 288                         | 0.027    | .37   | <u>ICP</u>               |          |       | Nickel                   |          |       | 368                          | 33.89    | -.49  |
| Acid Soluble Mangane |          |        | 422                         | 0.028    | .35   | 096                      | 20.00 s  | 7.90  | <u>Atomic Absorption</u> |          |       | 232                          | 33.05    | -.58  |
| <u>ICP</u>           |          |        | 231                         | 0.028    | .35   | 368                      | 12.06    | 1.45  | 220                      | 39.50    | .71   | 035                          | 30.20    | -1.03 |
| 420                  | 0.217 s  | 89.75  | 232                         | 0.027    | .07   | 247                      | 11.50    | 1.00  | Meth: 291.30 PPM         |          |       | 065                          | 23.50    | -2.04 |
| 009                  | 0.031    | 1.19   | Avg                         | 0.027    |       | 035                      | 10.56 R  | .95   | Nickel                   |          |       | 106                          | 14.00 s  | -3.48 |
| 057                  | 0.030    | .97    | 035                         | 0.026    | -.28  | 035                      | 10.56 R  | .95   | <u>ICP</u>               |          |       | Meth: 301.00 PPM             |          |       |
| 307                  | 0.030    | .89    | 193                         | 0.015    | -2.33 | 057                      | 11.20    | .76   | 096                      | 50.00    | 1.78  | Selenium                     |          |       |
| 102                  | 0.029    | .87    | 292                         | 0.014    | -2.63 | 324                      | 10.95    | .55   | 102                      | 42.53    | .75   | <u>Atomic Absorption</u>     |          |       |
| 330                  | 0.030    | .77    | 247                         | 0.004 s  | -4.48 | 102                      | 10.28    | .35   | 376                      | 38.43 R  | .55   | 040 0.02 -.71                |          |       |
| 131                  | 0.030    | .55    | Meth: 281.00 PPM            |          |       | Avg                      | 10.27    |       | 247                      | 40.60    | .47   | Meth: 301.30 PPM             |          |       |
| 423                  | 0.029    | .25    | Mercury                     |          |       | 232                      | 9.60     | -.55  | 324                      | 39.30    | .37   | Selenium                     |          |       |
| Avg                  | 0.028    |        | <u>Atomic Absorption</u>    |          |       | 009                      | 9.50     | -.67  | 009                      | 37.35    | .09   | <u>ICP</u>                   |          |       |
| 231                  | 0.028    | -.51   | 363                         | 11.50    | .87   | 389                      | 9.00     | -1.03 | Avg                      | 37.25    |       | 368 0.01 .00                 |          |       |
| 232                  | 0.027    | -.71   | Avg                         | 6.00     |       | 065                      | 8.35     | -1.60 | 389                      | 35.00    | -.31  | Meth: 301.XX PPM             |          |       |
| 422                  | 0.028    | -.83   | 193                         | 0.49     | -.86  | 106                      | 5.10 s   | -4.22 | 368                      | 33.89    | -.50  | Selenium                     |          |       |
| 035                  | 0.026    | -1.42  | Meth: 289.99 PPM            |          |       | Meth: 289.99 PPM         |          |       | 232                      | 33.05    | -.58  | 040 0.02 1.12                |          |       |
| 065                  | 0.025    | -1.78  | <u>Molybdenum</u>           |          |       | <u>Molybdenum</u>        |          |       | 065                      | 23.50    | -1.93 | Avg 0.02                     |          |       |
| 292                  | 0.014 s  | -7.10  | <u>Other</u>                |          |       | <u>Other</u>             |          |       | 106                      | 14.00 S  | -3.24 | 368 0.01 -.50                |          |       |
| 247                  | 0.004 s  | -11.51 | 409                         | 12.25    | .71   | 409 12.25 .71            |          |       | Meth: 289.99 PPM         |          |       | A=Analysis beyond 3-s limits |          |       |

Laboratory Averages & Accuracy Indexes

| Lab                      | Average* | Index | Lab                      | Average* | Index | Lab                      | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|--------------------------|----------|-------|--------------------------|----------|-------|--------------------------|----------|-------|-----|----------|-------|-----|----------|-------|
| Meth: 311.00 PCT         |          |       | Meth: 321.00 PCT         |          |       | Meth: 321.XX PCT         |          |       |     |          |       |     |          |       |
| Sodium                   |          |       | Acid Soluble Zinc        |          |       | <u>Acid Soluble Zinc</u> |          |       |     |          |       |     |          |       |
| <u>Atomic Absorption</u> |          |       | <u>Atomic Absorption</u> |          |       | 422 0.062 .69            |          |       |     |          |       |     |          |       |
| 193                      | 0.08     | .71   | 193                      | 0.066    | .67   | 105                      | 0.062    | .67   |     |          |       |     |          |       |
|                          |          |       | Avg 0.064                |          |       | 065 0.063 .62            |          |       |     |          |       |     |          |       |
| Meth: 311.30 PCT         |          |       | 105 0.062 -1.02          |          |       | Avg 0.061                |          |       |     |          |       |     |          |       |
| Sodium                   |          |       |                          |          |       | 231 0.060 -.18           |          |       |     |          |       |     |          |       |
| <u>Flame Photometric</u> |          |       | Meth: 321.30 PCT         |          |       | 247 0.060 -.18           |          |       |     |          |       |     |          |       |
| 105                      | 0.08     | .71   | Acid Soluble Zinc        |          |       | 292 0.060 -.18           |          |       |     |          |       |     |          |       |
|                          |          |       | <u>ICP</u>               |          |       | 288 0.060 -.27           |          |       |     |          |       |     |          |       |
| Meth: 311.99 PCT         |          |       | 330 0.070 2.51           |          |       | 057 0.060 -.39           |          |       |     |          |       |     |          |       |
| Sodium                   |          |       | 131 0.066 1.47           |          |       | 420 0.061 -.40           |          |       |     |          |       |     |          |       |
| <u>Other</u>             |          |       | 422 0.062 .71            |          |       | 423 0.060 -.50           |          |       |     |          |       |     |          |       |
| 422                      | 0.19 s   | 18.45 | 065 0.063 .65            |          |       | 102 0.061 -.60           |          |       |     |          |       |     |          |       |
| 288                      | 0.09     | 1.66  | 102 0.061 .61            |          |       | 009 0.058 -.76           |          |       |     |          |       |     |          |       |
| 035                      | 0.08     | .59   | Avg 0.061                |          |       | 035 0.057 -1.07          |          |       |     |          |       |     |          |       |
| 102                      | 0.08     | .25   | 231 0.060 -.14           |          |       | 409 0.057 -1.10          |          |       |     |          |       |     |          |       |
| Avg                      | 0.08     |       | 247 0.060 -.14           |          |       | 307 0.059 -1.16          |          |       |     |          |       |     |          |       |
| 232                      | 0.08     | -.19  | 292 0.060 -.14           |          |       | 232 0.055 -1.46          |          |       |     |          |       |     |          |       |
| 009                      | 0.08     | -.50  | 288 0.060 -.25           |          |       | 220 0.035 s -9.64        |          |       |     |          |       |     |          |       |
| 423                      | 0.07     | -1.43 | 057 0.060 -.37           |          |       |                          |          |       |     |          |       |     |          |       |
| 409                      | 0.08 R   | -1.67 | 420 0.061 -.40           |          |       | Meth: 325.00 PCT         |          |       |     |          |       |     |          |       |
|                          |          |       | 423 0.060 -.49           |          |       | Water Soluble Zinc       |          |       |     |          |       |     |          |       |
| Meth: 311.XX PCT         |          |       | 009 0.058 -.73           |          |       | <u>Atomic Absorption</u> |          |       |     |          |       |     |          |       |
| Sodium                   |          |       | 035 0.057 -1.05          |          |       | 193 0.001 -.71           |          |       |     |          |       |     |          |       |
| 422                      | 0.19 s   | 17.17 | 307 0.059 -1.16          |          |       |                          |          |       |     |          |       |     |          |       |
| 105                      | 0.08 R   | 3.10  | 232 0.055 -1.45          |          |       |                          |          |       |     |          |       |     |          |       |
| 288                      | 0.09     | 1.57  |                          |          |       |                          |          |       |     |          |       |     |          |       |
| 409                      | 0.08     | 1.55  | Meth: 321.99 PCT         |          |       |                          |          |       |     |          |       |     |          |       |
| 035                      | 0.08     | .55   | Acid Soluble Zinc        |          |       |                          |          |       |     |          |       |     |          |       |
| 102                      | 0.08     | .27   | <u>Other</u>             |          |       |                          |          |       |     |          |       |     |          |       |
| Avg                      | 0.08     |       | 409 0.057 .71            |          |       |                          |          |       |     |          |       |     |          |       |
| 232                      | 0.08     | -.15  | Avg 0.057                |          |       |                          |          |       |     |          |       |     |          |       |
| 009                      | 0.08     | -.44  | 220 0.035 S-119.69       |          |       |                          |          |       |     |          |       |     |          |       |
| 193                      | 0.08     | -.58  |                          |          |       |                          |          |       |     |          |       |     |          |       |
| 423                      | 0.07     | -1.30 | Meth: 321.XX PCT         |          |       |                          |          |       |     |          |       |     |          |       |
|                          |          |       | <u>Acid Soluble Zinc</u> |          |       |                          |          |       |     |          |       |     |          |       |
|                          |          |       | 330 0.070 2.45           |          |       |                          |          |       |     |          |       |     |          |       |
|                          |          |       | 131 0.066 1.43           |          |       |                          |          |       |     |          |       |     |          |       |
|                          |          |       | 193 0.066 1.27           |          |       |                          |          |       |     |          |       |     |          |       |

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

## Method Evaluation - Z Values Based on 1 Reports

| Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs | Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 001.10      | 5              | 0.00             | 1.05              | 0.13                | 050.30      | 11             | - 0.48           | 1.83              | 0.28                |
| 001.99      | 8              | 12.99            | 34.97             | 0.43                | 050.50      | 8              | - 0.77           | 2.32              | 0.52                |
| 001.XX      | 13             | 5.80             | 20.05             | 0.27                | 050.51      | 8              | - 0.65           | 2.07              | 0.40                |
| 003.10      | 2              | 0.00             | 1.00              | 0.49                | 050.60      | 6              | 0.00             | 1.03              | 0.19                |
| 003.XX      | 3              | 0.00             | 1.08              | 0.24                | 050.61      | 7              | 0.00             | 1.00              | 0.28                |
| 005.XX      | 2              | 0.00             | 1.16              | 0.28                | 050.99      | 16             | - 0.51           | 1.71              | 0.37                |
| 007.XX      | 2              | 0.00             | 1.21              | 0.15                | 050.XX      | 72             | - 0.39           | 1.58              | 0.36                |
| 009.XX      | 2              | 0.00             | 1.22              | 0.08                | 060.00      | 5              | 0.00             | 0.99              | 0.34                |
| 010.10      | 2              | 0.00             | 1.22              | 0.03                | 060.XX      | 6              | 0.00             | 1.02              | 0.24                |
| 010.11      | 7              | - 0.11           | 0.99              | 0.38                | 101.00      | 2              | 0.00             | 1.22              | 0.10                |
| 010.12      | 5              | 3.79             | 8.53              | 0.16                | 101.30      | 12             | 2.73             | 9.00              | 0.39                |
| 010.60      | 57             | 0.04             | 1.04              | 0.34                | 101.XX      | 15             | 0.77             | 3.05              | 0.15                |
| 010.99      | 3              | 0.00             | 1.08              | 0.23                | 121.00      | 2              | 0.00             | 0.61              | 0.75                |
| 010.XX      | 71             | 0.26             | 1.85              | 0.25                | 121.30      | 14             | 2.38             | 5.89              | 0.61                |
| 020.10      | 8              | 0.09             | 0.99              | 0.41                | 121.XX      | 17             | 0.31             | 1.49              | 0.15                |
| 020.20      | 18             | - 0.23           | 1.37              | 0.37                | 131.XX      | 2              | 0.00             | 1.22              | 0.01                |
| 020.40      | 7              | 0.00             | 1.02              | 0.19                | 144.01      | 15             | 3.49             | 13.39             | 0.50                |
| 020.50      | 9              | - 0.27           | 1.23              | 0.49                | 144.02      | 2              | 0.00             | 0.32              | 0.84                |
| 020.99      | 2              | 0.00             | 1.03              | 0.47                | 144.99      | 20             | - 0.20           | 1.12              | 0.53                |
| 020.XX      | 42             | - 0.12           | 1.18              | 0.41                | 144.XX      | 37             | 0.68             | 5.28              | 0.52                |
| 030.10      | 2              | 0.00             | 1.18              | 0.24                | 151.30      | 4              | 0.00             | 1.08              | 0.09                |
| 030.40      | 2              | 0.00             | 1.21              | 0.12                | 151.99      | 2              | 0.00             | 1.20              | 0.17                |
| 030.99      | 3              | 0.00             | 1.11              | 0.08                | 151.XX      | 7              | 0.13             | 1.02              | 0.10                |
| 030.XX      | 8              | 0.37             | 1.42              | 0.12                | 165.99      | 4              | 0.000            | 1.080             | 0.011               |
| 040.10      | 2              | 0.00             | 1.06              | 0.44                | 165.XX      | 5              | 0.136            | 0.983             | 0.186               |
| 040.20      | 3              | - 2.03           | 3.54              | 0.65                | 181.00      | 3              | 0.00             | 1.11              | 0.07                |
| 040.40      | 3              | 0.00             | 1.06              | 0.29                | 181.30      | 11             | 0.69             | 1.69              | 0.92                |
| 040.99      | 2              | 0.00             | 0.91              | 0.58                | 181.99      | 2              | 0.00             | 1.02              | 0.48                |
| 040.XX      | 10             | - 0.18           | 1.21              | 0.67                | 181.XX      | 16             | 0.53             | 1.64              | 0.83                |
| 041.10      | 21             | 0.40             | 1.65              | 0.63                | 190.00      | 11             | 0.42             | 1.98              | 0.20                |
| 041.20      | 3              | 0.00             | 1.02              | 0.37                | 190.99      | 7              | 0.10             | 0.99              | 0.14                |
| 041.40      | 5              | 0.00             | 1.02              | 0.26                | 190.XX      | 18             | 0.29             | 1.60              | 0.17                |
| 041.50      | 7              | 0.18             | 0.94              | 0.68                | 191.30      | 10             | 0.49             | 1.82              | 0.27                |
| 041.60      | 14             | - 0.49           | 1.65              | 0.57                | 191.XX      | 12             | 0.39             | 1.66              | 0.26                |
| 041.XX      | 41             | - 0.10           | 1.68              | 0.73                | 202.30      | 10             | 0.00             | 1.02              | 0.09                |
| 048.20      | 2              | 0.00             | 1.18              | 0.24                | 202.99      | 2              | 0.00             | 1.22              | 0.11                |
| 048.XX      | 2              | 0.00             | 1.18              | 0.24                | 202.XX      | 13             | 0.17             | 1.15              | 0.61                |
| 050.00      | 20             | - 0.15           | 1.10              | 0.46                | 221.00      | 5              | - 4.132          | 6.2670            | 0.4071              |
| 050.10      | 2              | 0.00             | 1.20              | 0.16                | 221.30      | 19             | 1.2284           | 3.8710            | 1.1455              |

## Method Evaluation - Z Values Based on 1 Reports

| Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs | Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 221.99      | 3              | 0.0000           | 0.5465            | 0.7964              |             |                |                  |                   |                     |
| 221.XX      | 27             | 0.2214           | 4.1660            | 1.0054              |             |                |                  |                   |                     |
| 241.00      | 12             | - 0.34           | 1.50              | 0.07                |             |                |                  |                   |                     |
| 241.30      | 25             | - 0.45           | 1.60              | 0.21                |             |                |                  |                   |                     |
| 241.99      | 4              | 0.00             | 1.04              | 0.25                |             |                |                  |                   |                     |
| 241.XX      | 40             | - 0.24           | 1.25              | 0.16                |             |                |                  |                   |                     |
| 251.00      | 3              | 16.69            | 28.92             | 0.55                |             |                |                  |                   |                     |
| 251.30      | 11             | 0.91             | 3.33              | 0.36                |             |                |                  |                   |                     |
| 251.99      | 2              | 0.00             | 1.20              | 0.16                |             |                |                  |                   |                     |
| 251.XX      | 16             | 1.54             | 4.67              | 0.22                |             |                |                  |                   |                     |
| 261.00      | 2              | 0.000            | 1.182             | 0.227               |             |                |                  |                   |                     |
| 261.30      | 15             | 4.742            | 23.764            | 0.588               |             |                |                  |                   |                     |
| 261.99      | 2              | 0.000            | 0.777             | 0.669               |             |                |                  |                   |                     |
| 261.XX      | 19             | 1.771            | 8.915             | 0.260               |             |                |                  |                   |                     |
| 281.00      | 2              | 0.00             | 1.22              | 0.06                |             |                |                  |                   |                     |
| 281.XX      | 3              | 0.00             | 1.12              | 0.04                |             |                |                  |                   |                     |
| 289.00      | 2              | 11.84            | 16.75             | 8.76                |             |                |                  |                   |                     |
| 289.30      | 12             | 0.33             | 2.81              | 0.34                |             |                |                  |                   |                     |
| 289.XX      | 15             | 0.51             | 1.65              | 0.48                |             |                |                  |                   |                     |
| 291.30      | 11             | - 0.28           | 1.34              | 0.20                |             |                |                  |                   |                     |
| 291.99      | 2              | 0.00             | 1.18              | 0.24                |             |                |                  |                   |                     |
| 291.XX      | 14             | - 0.23           | 1.32              | 0.21                |             |                |                  |                   |                     |
| 301.XX      | 2              | 0.00             | 0.71              | 0.71                |             |                |                  |                   |                     |
| 311.99      | 8              | 2.30             | 6.58              | 0.64                |             |                |                  |                   |                     |
| 311.XX      | 10             | 1.72             | 5.47              | 1.13                |             |                |                  |                   |                     |
| 321.00      | 2              | 0.000            | 0.911             | 0.579               |             |                |                  |                   |                     |
| 321.30      | 16             | 0.000            | 0.900             | 0.458               |             |                |                  |                   |                     |
| 321.99      | 2              | - 38.53          | 54.500            | 64.752              |             |                |                  |                   |                     |
| 321.XX      | 20             | - 0.341          | 1.764             | 1.580               |             |                |                  |                   |                     |