

MAGRUDER - Fertilizer Check Sample No. - 200601 Grade 5-10-15

- Pass 1 Results for 78 Labs - - Pass 2 Results for 78 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 | 4.39 | 0.05 | 0.06 | 5 | 4.39 | 0.05 | 0.06 |
| Ammoniacal Nitrogen, Other | | 001.99 | 10 | 4.54 | 0.19 | 0.06 | 10 | 4.54 | 0.19 | 0.06 |
| Method Group 001.XX PCT | | | 15 | 4.49 | 0.17 | 0.06 | 15 | 4.49 | 0.17 | 0.06 |
| Nitrate Nitrogen, Jones Modified | 930.02 | 002.20 | 1 | 0.73 | 0.01 | 0.01 | 1 | 0.73 | 0.01 | 0.01 |
| Nitrate Nitrogen, Other | | 002.99 | 4 | 0.61 | 0.02 | 0.03 | 4 | 0.61 | 0.02 | 0.03 |
| Method Group 002.XX PCT | | | 5 | 0.63 | 0.05 | 0.02 | 5 | 0.63 | 0.05 | 0.02 |
| Nitrogen From Urea, Urease (as N) | 959.03 | 005.00 | 1 | 0.03 | 0.01 | 0.02 | 1 | 0.03 | 0.01 | 0.02 |
| Ammon & Nitrate N, Devarda | 892.01 | 009.10 | 7 | 5.21 | 0.14 | 0.09 | 7 | 5.21 | 0.14 | 0.09 |
| Ammon & Nitrate N, Other | | 009.99 | 1 | 5.45 | 0.04 | 0.05 | 1 | 5.45 | 0.04 | 0.05 |
| Method Group 009.XX PCT | | | 8 | 5.24 | 0.15 | 0.09 | 7 | 5.21 | 0.13 | 0.06 |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 6 | 5.23 | 0.09 | 0.01 | 5 | 5.23 | 0.10 | 0.00 |
| Total Nitrogen, Salicylic | 955.04D | 010.12 | 5 | 5.05 | 0.15 | 0.04 | 5 | 5.05 | 0.15 | 0.04 |
| Total Nitrogen, Raney | 970.03 | 010.16 | 3 | 5.11 | 0.14 | 0.06 | 3 | 5.11 | 0.14 | 0.06 |
| Total Nitrogen, Combustion | | 010.60 | 43 | 5.23 | 0.10 | 0.05 | 42 | 5.23 | 0.10 | 0.05 |
| Total Nitrogen, Other | | 010.99 | 5 | 5.39 | 0.16 | 0.06 | 5 | 5.39 | 0.16 | 0.06 |
| Method Group 010.XX PCT | | | 64 | 5.23 | 0.14 | 0.05 | 62 | 5.24 | 0.14 | 0.04 |
| Total Phosphate, Grav Quimociac | 962.02 | 020.10 | 5 | 10.41 | 0.10 | 0.07 | 5 | 10.41 | 0.10 | 0.07 |
| Total Phosphate, Spectrometric | 958.01 | 020.20 | 17 | 10.42 | 0.16 | 0.10 | 17 | 10.42 | 0.16 | 0.10 |
| Total Phosphate, Automated | 978.01 | 020.40 | 6 | 10.38 | 0.09 | 0.09 | 6 | 10.38 | 0.09 | 0.09 |
| Total Phosphate, ICP | | 020.50 | 9 | 10.44 | 0.32 | 0.07 | 9 | 10.44 | 0.32 | 0.07 |
| Total Phosphate, Other | | 020.99 | 2 | 10.49 | 0.18 | 0.05 | 2 | 10.49 | 0.18 | 0.05 |
| Method Group 020.XX PCT | | | 39 | 10.42 | 0.19 | 0.08 | 36 | 10.40 | 0.17 | 0.07 |
| Insoluble Phosphate, Grav Quimociac ... | 963.03C | 030.10 | 1 | 0.05 | 0.00 | 0.00 | 1 | 0.05 | 0.00 | 0.00 |
| Insoluble Phosphate, Spectrometric | 963.03C | 030.20 | 1 | 0.36 | 0.02 | 0.03 | 1 | 0.36 | 0.02 | 0.03 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 1 | 0.08 | 0.01 | 0.01 | 1 | 0.08 | 0.01 | 0.01 |
| Insoluble Phosphate, Other | | 030.99 | 1 | 0.11 | 0.01 | 0.01 | 1 | 0.11 | 0.01 | 0.01 |
| Method Group 030.XX PCT | | | 4 | 0.15 | 0.13 | 0.01 | 4 | 0.15 | 0.13 | 0.01 |
| InDir Available Phosphate, Grav Quim .. | 960.02 | 040.10 | 1 | 10.43 | 0.03 | 0.04 | 1 | 10.43 | 0.03 | 0.04 |
| InDir Available Phosphate, Spectrometri | 960.02 | 040.20 | 1 | 10.16 | 0.01 | 0.02 | 1 | 10.16 | 0.01 | 0.02 |
| InDir Available Phosphate, Automated .. | 960.02 | 040.40 | 2 | 10.34 | 0.09 | 0.07 | 2 | 10.34 | 0.09 | 0.07 |
| InDir Available Phosphate, ICP | | 040.50 | 1 | 10.03 | 0.06 | 0.08 | 1 | 10.03 | 0.06 | 0.08 |
| InDir Available Phosphate, Other | | 040.99 | 1 | 10.27 | 0.10 | 0.14 | 1 | 10.27 | 0.10 | 0.14 |
| Method Group 040.XX PCT | | | 6 | 10.26 | 0.15 | 0.07 | 6 | 10.26 | 0.15 | 0.07 |
| Dir Available Phosphate, Grav Quimociac | 960.03E | 041.10 | 15 | 10.33 | 0.09 | 0.07 | 15 | 10.33 | 0.09 | 0.07 |
| Dir Available Phosphate, Spectrometric | 960.03D | 041.20 | 4 | 10.39 | 0.30 | 0.13 | 4 | 10.39 | 0.30 | 0.13 |
| Dir Available Phosphate, Automated | 978.01 | 041.40 | 3 | 10.36 | 0.08 | 0.09 | 3 | 10.36 | 0.08 | 0.09 |
| Dir Available Phosphate, ICP | | 041.50 | 7 | 10.41 | 0.16 | 0.08 | 7 | 10.41 | 0.16 | 0.08 |
| Dir Available Phosphate, EDTA Extract . | 993.01 | 041.60 | 10 | 10.35 | 0.07 | 0.05 | 10 | 10.35 | 0.07 | 0.05 |
| Dir Available Phosphate, Other | | 041.99 | 2 | 10.46 | 0.24 | 0.11 | 2 | 10.46 | 0.24 | 0.11 |

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|---|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Method Group 041.XX PCT | | | 42 | 10.37 | 0.14 | 0.08 | 41 | 10.36 | 0.14 | 0.08 |
| Water Soluble Phosphate, Grav Quimociac | 962.03 | 048.10 | 1 | 7.97 | 0.00 | 0.00 | 1 | 7.97 | 0.00 | 0.00 |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 4 | 8.21 | 0.20 | 0.23 | 4 | 8.21 | 0.20 | 0.23 |
| Water Soluble Phosphate, Other | | 048.99 | 1 | 8.10 | 0.06 | 0.09 | 1 | 8.10 | 0.06 | 0.09 |
| Method Group 048.XX PCT | | | 6 | 8.15 | 0.18 | 0.17 | 6 | 8.15 | 0.18 | 0.17 |
| Soluble Potash, STPB Oxalate | 958.02 | 050.00 | 15 | 15.09 | 0.18 | 0.09 | 15 | 15.09 | 0.18 | 0.09 |
| Soluble Potash, STPB Citrate | 969.04 | 050.10 | 1 | 14.86 | 0.00 | 0.00 | 1 | 14.86 | 0.00 | 0.00 |
| Soluble Potash, AA (Oxalate) | | 050.30 | 9 | 15.19 | 0.51 | 0.16 | 9 | 15.19 | 0.51 | 0.16 |
| Soluble Potash, AA (Citrate) | | 050.31 | 1 | 14.62 | 0.03 | 0.04 | 1 | 14.62 | 0.03 | 0.04 |
| Soluble Potash, ICP (Oxalate) | | 050.50 | 6 | 15.11 | 0.54 | 0.17 | 6 | 15.11 | 0.54 | 0.17 |
| Soluble Potash, ICP (Citrate) | | 050.51 | 7 | 15.35 | 0.20 | 0.11 | 7 | 15.35 | 0.20 | 0.11 |
| Soluble Potash, Flame (Oxalate) | 983.02(a) | 050.60 | 7 | 15.10 | 0.18 | 0.12 | 6 | 15.08 | 0.16 | 0.06 |
| Soluble Potash, Flame (Citrate) | 983.02(b) | 050.61 | 8 | 15.08 | 0.25 | 0.07 | 8 | 15.08 | 0.25 | 0.07 |
| Soluble Potash, Other | | 050.99 | 17 | 15.13 | 0.36 | 0.10 | 16 | 15.08 | 0.32 | 0.08 |
| Method Group 050.XX PCT | | | 74 | 15.17 | 0.38 | 0.12 | 69 | 15.13 | 0.34 | 0.09 |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 6 | 0.65 | 0.11 | 0.06 | 6 | 0.65 | 0.11 | 0.06 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 1 | 0.37 | 0.01 | 0.01 | 1 | 0.37 | 0.01 | 0.01 |
| Free Water, Other | | 060.99 | 1 | 0.74 | 0.06 | 0.08 | 1 | 0.74 | 0.06 | 0.08 |
| Method Group 060.XX PCT | | | 8 | 0.62 | 0.14 | 0.06 | 8 | 0.62 | 0.14 | 0.06 |
| Acid Soluble Calcium, AA | 945.04 | 101.00 | 9 | 8.11 | 0.39 | 0.14 | 8 | 8.18 | 0.33 | 0.08 |
| Acid Soluble Calcium, ICP | | 101.30 | 20 | 8.29 | 0.38 | 0.09 | 20 | 8.29 | 0.38 | 0.09 |
| Acid Soluble Calcium, Titrimetric | 945.03 | 101.70 | 1 | 8.20 | 0.02 | 0.03 | 1 | 8.20 | 0.02 | 0.03 |
| Acid Soluble Calcium, Other | | 101.99 | 4 | 8.20 | 0.50 | 0.13 | 4 | 8.20 | 0.50 | 0.13 |
| Method Group 101.XX PCT | | | 34 | 8.23 | 0.40 | 0.10 | 32 | 8.27 | 0.37 | 0.08 |
| Acid Soluble Magnesium, AA | 984.01 | 121.00 | 14 | 1.18 | 0.06 | 0.04 | 14 | 1.18 | 0.06 | 0.04 |
| Acid Soluble Magnesium, ICP | | 121.30 | 24 | 1.18 | 0.07 | 0.02 | 21 | 1.19 | 0.07 | 0.01 |
| Acid Soluble Magnesium, Titrimetric | 964.01 | 121.70 | 1 | 1.18 | 0.06 | 0.08 | 1 | 1.18 | 0.06 | 0.08 |
| Acid Soluble Magnesium, Other | | 121.99 | 1 | 1.25 | 0.01 | 0.01 | 1 | 1.25 | 0.01 | 0.01 |
| Method Group 121.XX PCT | | | 40 | 1.18 | 0.07 | 0.03 | 37 | 1.19 | 0.06 | 0.02 |
| Water Soluble Magnesium, AA | | 131.00 | 2 | 1.01 | 0.13 | 0.00 | 2 | 1.01 | 0.13 | 0.00 |
| Water Soluble Magnesium, ICP | | 131.30 | 2 | 0.89 | 0.08 | 0.03 | 2 | 0.89 | 0.08 | 0.03 |
| Method Group 131.XX PCT | | | 4 | 0.95 | 0.12 | 0.01 | 3 | 0.99 | 0.10 | 0.00 |
| Sulfur, Gravimetric | 980.02a | 144.01 | 13 | 8.22 | 0.17 | 0.08 | 12 | 8.21 | 0.16 | 0.06 |
| Sulfur, Gravimetric | 980.02b | 144.02 | 2 | 7.83 | 0.21 | 0.09 | 2 | 7.83 | 0.21 | 0.09 |
| Sulfur, Spectrometric | | 144.70 | 1 | 7.66 | 0.31 | 0.44 | 1 | 7.66 | 0.31 | 0.44 |
| Sulfur, Other | | 144.99 | 18 | 8.04 | 0.28 | 0.17 | 17 | 8.03 | 0.25 | 0.11 |
| Method Group 144.XX PCT | | | 34 | 8.08 | 0.27 | 0.14 | 33 | 8.08 | 0.26 | 0.11 |
| Arsenic, Atomic Absorption | | 151.00 | 2 | 2.86 | 0.25 | 0.30 | 2 | 2.86 | 0.25 | 0.30 |
| Arsenic, ICP | | 151.30 | 4 | 3.24 | 1.39 | 0.28 | 4 | 3.24 | 1.39 | 0.28 |

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|--|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Arsenic, Other | | 151.99 | 1 | 3.90 | 0.14 | 0.20 | 1 | 3.90 | 0.14 | 0.20 |
| Method Group 151.XX PPM | | | 7 | 3.22 | 1.08 | 0.27 | 7 | 3.22 | 1.08 | 0.27 |
| Acid Soluble Boron, Spectrometric | 982.01 | 165.00 | 10 | 0.068 | 0.003 | 0.001 | 8 | 0.068 | 0.002 | 0.001 |
| Acid Soluble Boron, Other | | 165.99 | 16 | 0.072 | 0.006 | 0.002 | 15 | 0.071 | 0.005 | 0.002 |
| Method Group 165.XX PCT | | | 26 | 0.070 | 0.005 | 0.002 | 24 | 0.070 | 0.005 | 0.001 |
| Water Soluble Boron, Spectrometric | 982.01 | 171.10 | 1 | 0.050 | 0.000 | 0.000 | 1 | 0.050 | 0.000 | 0.000 |
| Cadmium, Atomic Absorption | | 181.00 | 2 | 0.77 | 0.12 | 0.14 | 2 | 0.77 | 0.12 | 0.14 |
| Cadmium, ICP | | 181.30 | 8 | 0.88 | 0.45 | 0.13 | 7 | 0.82 | 0.43 | 0.08 |
| Cadmium, Other | | 181.99 | 1 | 0.85 | 0.07 | 0.10 | 1 | 0.85 | 0.07 | 0.10 |
| Method Group 181.XX PPM | | | 11 | 0.86 | 0.38 | 0.13 | 10 | 0.81 | 0.36 | 0.09 |
| Water Soluble Chlorine, Titrimetric | 928.02 | 190.00 | 11 | 10.20 | 0.17 | 0.06 | 11 | 10.20 | 0.17 | 0.06 |
| Water Soluble Chlorine, Other | | 190.99 | 6 | 10.30 | 0.39 | 0.21 | 6 | 10.30 | 0.39 | 0.21 |
| Method Group 190.XX PCT | | | 17 | 10.23 | 0.26 | 0.12 | 16 | 10.20 | 0.23 | 0.09 |
| Chromium, ICP | | 191.30 | 10 | 137.97 | 23.26 | 7.06 | 10 | 137.97 | 23.26 | 7.06 |
| Chromium, Other | | 191.99 | 1 | 183.50 | 19.09 | 27.00 | 1 | 183.50 | 19.09 | 27.00 |
| Method Group 191.XX PPM | | | 11 | 142.11 | 26.20 | 8.87 | 11 | 142.11 | 26.20 | 8.87 |
| Acid Soluble Cobalt, AA | | 202.00 | 1 | 108.50 | 4.95 | 7.00 | 1 | 108.50 | 4.95 | 7.00 |
| Acid Soluble Cobalt, ICP | 965.11 | 202.30 | 11 | 70.38 | 22.14 | 6.26 | 11 | 70.38 | 22.14 | 6.26 |
| Acid Soluble Cobalt, Other | | 202.99 | 2 | 104.15 | 8.20 | 5.70 | 2 | 104.15 | 8.20 | 5.70 |
| Method Group 202.XX PPM | | | 14 | 77.93 | 24.64 | 6.24 | 14 | 77.93 | 24.64 | 6.24 |
| Acid Soluble Copper, Atomic Absorption | 975.01 | 221.00 | 4 | 0.0031 | 0.0004 | 0.0005 | 4 | 0.0031 | 0.0004 | 0.0005 |
| Acid Soluble Copper, ICP | | 221.30 | 17 | 0.0028 | 0.0004 | 0.0002 | 17 | 0.0028 | 0.0004 | 0.0002 |
| Acid Soluble Copper, Other | | 221.99 | 1 | 0.0028 | 0.0002 | 0.0003 | 1 | 0.0028 | 0.0002 | 0.0003 |
| Method Group 221.XX PCT | | | 22 | 0.0029 | 0.0004 | 0.0003 | 20 | 0.0029 | 0.0003 | 0.0002 |
| Acid Soluble Iron, Atomic Absorption | 980.01 | 241.00 | 3 | 0.43 | 0.04 | 0.02 | 3 | 0.43 | 0.04 | 0.02 |
| Acid Soluble Iron, ICP | | 241.30 | 14 | 0.42 | 0.04 | 0.02 | 13 | 0.42 | 0.03 | 0.01 |
| Acid Soluble Iron, Other | | 241.99 | 1 | 0.43 | 0.02 | 0.03 | 1 | 0.43 | 0.02 | 0.03 |
| Method Group 241.XX PCT | | | 18 | 0.42 | 0.04 | 0.02 | 17 | 0.42 | 0.03 | 0.01 |
| Lead, Atomic Absorption | | 251.00 | 2 | 5.90 | 1.27 | 0.61 | 2 | 5.90 | 1.27 | 0.61 |
| Lead, ICP | | 251.30 | 8 | 4.92 | 1.29 | 0.59 | 7 | 4.62 | 1.00 | 0.39 |
| Lead, Other | | 251.99 | 1 | 3.26 | 0.06 | 0.08 | 1 | 3.26 | 0.06 | 0.08 |
| Method Group 251.XX PPM | | | 11 | 4.94 | 1.36 | 0.55 | 10 | 4.74 | 1.21 | 0.40 |
| Acid Soluble Manganese, AA | 972.02a | 261.00 | 9 | 0.315 | 0.018 | 0.019 | 8 | 0.316 | 0.014 | 0.013 |
| Acid Soluble Manganese, AA | 972.02b | 261.11 | 3 | 0.307 | 0.018 | 0.010 | 3 | 0.307 | 0.018 | 0.010 |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 22 | 0.304 | 0.027 | 0.012 | 21 | 0.302 | 0.025 | 0.010 |
| Acid Soluble Manganese, ICP | 972.02b | 261.31 | 2 | 0.310 | 0.008 | 0.010 | 2 | 0.310 | 0.008 | 0.010 |
| Acid Soluble Manganese, Other | | 261.99 | 3 | 0.313 | 0.025 | 0.035 | 3 | 0.313 | 0.025 | 0.035 |
| Method Group 261.XX PCT | | | 39 | 0.308 | 0.024 | 0.015 | 36 | 0.306 | 0.022 | 0.011 |
| Mercury, Other | | 281.99 | 2 | 0.18 | 0.19 | 0.00 | 2 | 0.18 | 0.19 | 0.00 |

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|---|------------------|--------------------|--------------------|-------------------|------------------|------------------------------|--------------------|-------------------|------------------|------------------------------|
| Molybdenum, Atomic Absorption | | 289.00 | 1 | 8.30 | 0.57 | 0.80 | 1 | 8.30 | 0.57 | 0.80 |
| Molybdenum, ICP | | 289.30 | 11 | 9.89 | 1.81 | 1.11 | 10 | 9.57 | 1.41 | 0.82 |
| Molybdenum, Other | | 289.99 | 1 | 12.55 | 0.35 | 0.50 | 1 | 12.55 | 0.35 | 0.50 |
| Method Group 289.XX PPM | | | 13 | 9.97 | 1.88 | 1.04 | 12 | 9.71 | 1.60 | 0.79 |
| Nickel, ICP | | 291.30 | 9 | 58.30 | 4.34 | 2.71 | 9 | 58.30 | 4.34 | 2.71 |
| Nickel, Other | | 291.99 | 1 | 59.65 | 6.86 | 9.70 | 1 | 59.65 | 6.86 | 9.70 |
| Method Group 291.XX PPM | | | 10 | 58.44 | 4.41 | 3.41 | 10 | 58.44 | 4.41 | 3.41 |
| Selenium, Atomic Absorption | | 301.00 | 1 | 0.23 | 0.01 | 0.02 | 1 | 0.23 | 0.01 | 0.02 |
| Selenium, ICP | | 301.30 | 1 | 1.28 | 0.25 | 0.35 | 1 | 1.28 | 0.25 | 0.35 |
| Method Group 301.XX PPM | | | 2 | 0.75 | 0.62 | 0.18 | 2 | 0.75 | 0.62 | 0.18 |
| Sodium, Other | | 311.99 | 8 | 0.49 | 0.05 | 0.01 | 8 | 0.49 | 0.05 | 0.01 |
| Acid Soluble Zinc, Atomic Absorption .. | 975.02 | 321.00 | 12 | 0.273 | 0.029 | 0.013 | 12 | 0.273 | 0.029 | 0.013 |
| Acid Soluble Zinc, ICP | | 321.30 | 23 | 0.257 | 0.026 | 0.016 | 22 | 0.256 | 0.024 | 0.014 |
| Acid Soluble Zinc, Other | | 321.99 | 4 | 0.294 | 0.034 | 0.020 | 4 | 0.294 | 0.034 | 0.020 |
| Method Group 321.XX PCT | | | 40 | 0.264 | 0.033 | 0.015 | 38 | 0.263 | 0.033 | 0.013 |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|--------|----------------------------|----------|-------|------------------------------|----------|-------|-----------------------|----------|-------|------------------------------|----------|-------|
| Meth: 001.10 PCT | | | Meth: 001.XX PCT | | | Meth: 009.10 PCT | | | Meth: 010.12 PCT | | | Meth: 010.60 PCT | | |
| <u>Ammoniacal Nitrogen</u> | | | <u>Ammoniacal Nitrogen</u> | | | <u>Ammon & Nitrate N</u> | | | <u>Total Nitrogen</u> | | | <u>Total Nitrogen</u> | | |
| <u>MgO Distillation</u> | | | <u>Devarda</u> | | | <u>Salicylic</u> | | | <u>Combustion</u> | | | | | |
| 415 | 4.43 | 1.58 | 394 | 4.39 | -.61 | 258 | 5.27 | .53 | 254 | 5.24 | 1.29 | 024 | 5.27 | .36 |
| 029 | 4.44 | .87 | 419 | 4.40 | -.61 | Avg | 5.21 | | 185 | 5.18 | .89 | 106 | 5.27 | .35 |
| Avg | 4.39 | | 309 | 4.38 | -.71 | 392 | 5.21 | -.13 | Avg | 5.05 | | 035 | 5.26 | .33 |
| 288 | 4.37 | -.59 | 288 | 4.37 | -.73 | 434 | 5.20 | -.15 | 211 | 4.98 | -.51 | 040 | 5.27 | .32 |
| 309 | 4.38 | -.59 | 324 | 4.36 | -.79 | 397 | 5.20 | -.22 | 416 | 4.99 | -.54 | 232 | 5.26 | .28 |
| 324 | 4.36 | -.74 | Meth: 002.20 PCT | | | 257 | 5.15 | -.59 | 434 | 4.87 | -1.22 | 095 | 5.26 | .28 |
| Meth: 001.99 PCT | | | <u>Jones Modified</u> | | | Meth: 009.99 PCT | | | Meth: 010.16 PCT | | | 131 | | |
| <u>Ammoniacal Nitrogen</u> | | | 029 | | | <u>Ammon & Nitrate N</u> | | | <u>Total Nitrogen</u> | | | Avg | | |
| <u>Other</u> | | | Meth: 002.99 PCT | | | <u>Other</u> | | | <u>Raney</u> | | | 296 | | |
| 376 | 5.03 | s 3.76 | Nitrate Nitrogen | | | 393 | | | 434 | | | 042 | | |
| 434 | 4.86 | 1.69 | <u>Other</u> | | | 5.45 | | | 5.28 | | | 5.23 | | |
| 393 | 4.85 | 1.66 | 360 | | | Meth: 009.XX PCT | | | Avg | | | 233 | | |
| 247 | 4.69 | .80 | Avg | | | <u>Ammon & Nitrate N</u> | | | 419 | | | 055 | | |
| 096 | 4.56 | .23 | 394 | | | 030 | | | 5.00 | | | 307 | | |
| Avg | 4.54 | | 288 | | | 393 | | | Meth: 010.60 PCT | | | 426 | | |
| 409 | 4.45 | -.54 | 393 | | | 258 | | | <u>Total Nitrogen</u> | | | 369 | | |
| 234 | 4.41 | -.71 | Meth: 002.XX PCT | | | Avg | | | <u>Combustion</u> | | | 009 | | |
| 372 | 4.40 | -.75 | Nitrate Nitrogen | | | 392 | | | 390 | | | 028 | | |
| 397 | 4.41 | -.75 | 029 | | | 434 | | | 361 | | | 324 | | |
| 419 | 4.40 | -.79 | Avg | | | 397 | | | 5.60 | | | 425 | | |
| 394 | 4.39 | -.82 | 360 | | | 257 | | | 007 | | | 102 | | |
| Meth: 001.XX PCT | | | 288 | | | 090 | | | 037 | | | 360 | | |
| <u>Ammoniacal Nitrogen</u> | | | 394 | | | Meth: 010.11 PCT | | | 262 | | | 423 | | |
| 376 | 5.03 | s 4.34 | 393 | | | <u>Total Nitrogen</u> | | | 022 | | | 023 | | |
| 434 | 4.86 | 2.15 | Meth: 005.00 PCT | | | <u>Modified Comprehensi</u> | | | 389 | | | 372 | | |
| 393 | 4.85 | 2.11 | Nitrogen From Urea | | | 405 | | | 5.37 | | | 043 | | |
| 247 | 4.69 | 1.16 | <u>Urease (as N)</u> | | | 322 | | | 162 | | | 325 | | |
| 096 | 4.56 | .45 | 288 | | | Avg | | | 073 | | | 114 | | |
| Avg | 4.49 | | 0.03 | | | 105 | | | 5.32 | | | 096 | | |
| 029 | 4.44 | -.32 | Meth: 009.10 PCT | | | 029 | | | 234 | | | 422 | | |
| 409 | 4.45 | -.35 | Ammon & Nitrate N | | | 288 | | | 041 | | | Meth: 010.99 PCT | | |
| 234 | 4.41 | -.49 | <u>Devarda</u> | | | 309 | | | 5.31 | | | <u>Total Nitrogen</u> | | |
| 372 | 4.40 | -.54 | 030 | | | Meth: 010.12 PCT | | | 422 | | | <u>Other</u> | | |
| 397 | 4.41 | -.58 | 5.45 | | | <u>Total Nitrogen</u> | | | 177 | | | 354 | | |
| 415 | 4.43 | -.61 | 2.00 | | | <u>Modified Comprehensi</u> | | | 136 | | | 415 | | |
| * X=Excluded from lab performance | | | S/s=Screened Outlier | | | 405 | | | 5.26 | | | 420 | | |
| | | | | | | 322 | | | 5.29 | | | Avg | | |
| | | | | | | 105 | | | .52 | | | 5.39 | | |
| | | | | | | 029 | | | .52 | | | R | | |
| | | | | | | 288 | | | .50 | | | Range too large | | |
| | | | | | | 309 | | | .50 | | | A=Analysis beyond 3-s limits | | |
| | | | | | | Meth: 010.12 PCT | | | Avg | | | | | |
| | | | | | | Ammon & Nitrate N | | | 5.28 | | | | | |
| | | | | | | <u>Devarda</u> | | | .50 | | | | | |
| | | | | | | 030 | | | Avg | | | | | |
| | | | | | | 5.45 | | | 5.28 | | | | | |
| | | | | | | 2.00 | | | .50 | | | | | |
| | | | | | | S/s=Screened Outlier | | | Avg | | | | | |
| | | | | | | R=Duplicate Range too large | | | 5.39 | | | | | |
| | | | | | | 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: 010.99 PCT | | | Meth: 010.XX PCT | | | Meth: 020.10 PCT | | | Meth: 020.40 PCT | | | Meth: 020.XX PCT | | |
| <u>Total Nitrogen</u> | | | <u>Total Nitrogen</u> | | | <u>Total Phosphate</u> | | | <u>Total Phosphate</u> | | | <u>Total Phosphate</u> | | |
| Other | | | 254 5.24 .14 | | | Grav Quimociac | | | Automated | | | 361 10.56 .94 | | |
| 409 | 5.24 | -.95 | Avg | 5.24 | | 114 | 10.49 | .91 | 035 | 10.40 | 1.02 | 324 | 10.41 R | .88 |
| 377 | 5.19 | -1.24 | 131 | 5.24 | -.04 | 090 | 10.48 | .78 | 247 | 10.41 | .24 | 422 | 10.49 | .83 |
| | | | 406 | 5.23 | -.10 | 105 | 10.46 | .55 | Avg | 10.38 | | 030 | 10.51 | .83 |
| Meth: 010.XX PCT | | | 296 | 5.22 | -.16 | Avg | 10.41 | | 105 | 10.35 | -.51 | 363 | 10.52 | .71 |
| <u>Total Nitrogen</u> | | | 105 | 5.21 | -.20 | 405 | 10.32 | -.96 | 394 | 10.28 | -1.18 | 096 | 10.48 | .59 |
| 390 | 5.66 s | 2.91 | 042 | 5.23 | -.26 | 434 | 10.30 | -1.36 | | | | 114 | 10.49 | .56 |
| 361 | 5.60 | 2.52 | 029 | 5.20 | -.26 | Meth: 020.20 PCT | | | Meth: 020.50 PCT | | | 419 | 10.48 | .56 |
| 354 | 5.58 | 2.39 | 233 | 5.20 | -.30 | <u>Total Phosphate</u> | | | <u>Total Phosphate</u> | | | 035 | 10.40 | .53 |
| 007 | 5.55 | 2.19 | 055 | 5.22 | -.30 | ICP | | | ICP | | | 392 | 10.49 | .51 |
| 037 | 5.54 s | 2.18 | 377 | 5.19 | -.33 | Spectrometric | | | 389 10.98 1.69 | | | 090 | 10.48 | .49 |
| 420 | 5.48 | 1.68 | 307 | 5.23 | -.34 | 234 | 10.69 | 1.73 | 330 | 10.70 | .82 | 288 | 10.45 | .42 |
| 415 | 5.47 | 1.67 | 426 | 5.19 | -.37 | 425 | 10.58 | 1.39 | 390 | 10.67 | .76 | 416 | 10.47 | .39 |
| 262 | 5.43 | 1.34 | 369 | 5.20 | -.38 | 030 | 10.51 | .82 | 361 | 10.56 | .39 | 105 | 10.46 | .36 |
| 022 | 5.41 | 1.27 | 009 | 5.18 | -.39 | 363 | 10.52 | .65 | 422 | 10.49 | .39 | 257 | 10.46 | .36 |
| 405 | 5.39 | 1.02 | 288 | 5.18 | -.39 | 419 | 10.48 | .51 | Avg | 10.44 | | 200 | 10.46 | .36 |
| 389 | 5.38 | .97 | 185 | 5.18 | -.42 | 392 | 10.49 | .44 | 423 | 10.26 | -.57 | 262 | 10.40 | .29 |
| 025 | 5.37 | .93 | 028 | 5.19 | -.43 | 288 | 10.45 | .38 | 307 | 10.21 | -.71 | 247 | 10.41 | .05 |
| 162 | 5.28 | .57 | 324 | 5.17 | -.47 | 416 | 10.47 | .31 | 426 | 10.04 | -1.26 | Avg | 10.40 | |
| 073 | 5.32 | .54 | 425 | 5.21 | -.52 | 200 | 10.46 | .27 | 393 | 10.03 | -1.29 | 406 | 10.35 | -.29 |
| 234 | 5.32 | .54 | 102 | 5.20 | -.53 | 257 | 10.46 | .27 | 432 | 9.11 s | -4.22 | 105 | 10.35 | -.35 |
| 041 | 5.31 | .52 | 360 | 5.21 R | -.63 | Avg | 10.42 | | | | | 409 | 10.33 | -.42 |
| 422 | 5.30 | .51 | 423 | 5.14 | -.67 | 262 | 10.40 | -.33 | Meth: 020.99 PCT | | | 405 | 10.32 | -.47 |
| 177 | 5.31 | .48 | 023 | 5.11 | -.90 | 406 | 10.35 | -.42 | <u>Total Phosphate</u> | | | 024 | 10.40 X | -.55 |
| 322 | 5.30 | .43 | 309 | 5.10 | -.95 | 232 | 10.30 | -.75 | Other | | | 232 | 10.30 | -.60 |
| 136 | 5.26 | .38 | 372 | 5.09 | -1.02 | 324 | 10.41 | -.94 | 258 | 10.65 | .87 | 434 | 10.30 | -.71 |
| 330 | 5.25 | .36 | 043 | 5.12 R | -1.16 | 309 | 10.20 | -1.36 | Avg | 10.49 | | 394 | 10.28 | -.71 |
| 247 | 5.29 | .33 | 325 | 5.06 | -1.26 | 369 | 10.21 | -1.51 | 409 | 10.33 | -.86 | 423 | 10.26 | -.84 |
| 029 | 5.29 | .33 | 419 | 5.05 | -1.41 | 420 | 10.12 | -1.95 | | | | 307 | 10.21 | -1.10 |
| 393 | 5.28 | .32 | 114 | 5.03 | -1.43 | 372 | 9.66 s | -4.74 | Meth: 020.XX PCT | | | 309 | 10.20 | -1.16 |
| 434 | 5.28 | .30 | 200 | 5.00 | -1.64 | 376 | 9.60 s | -5.20 | <u>Total Phosphate</u> | | | 369 | 10.21 | -1.31 |
| 024 | 5.27 | .23 | 416 | 4.99 | -1.77 | | | | 389 | 10.98 A | 3.37 | 420 | 10.12 | -1.71 |
| 106 | 5.27 | .22 | 096 | 4.98 | -1.81 | Meth: 020.40 PCT | | | 042 | 10.81 s | 3.23 | 426 | 10.04 | -2.14 |
| 035 | 5.26 | .21 | 211 | 4.98 | -1.81 | <u>Total Phosphate</u> | | | 330 | 10.70 | 1.73 | 393 | 10.03 | -2.18 |
| 409 | 5.24 | .21 | 434 | 4.87 | -2.54 | Automated | | | 234 | 10.69 | 1.71 | 372 | 9.66 s | -4.31 |
| 040 | 5.27 | .20 | | | | 042 | 10.81 s | 6.29 | 390 | 10.67 | 1.62 | 376 | 9.60 s | -4.74 |
| 095 | 5.26 | .17 | | | | 096 | 10.48 | 1.26 | 258 | 10.65 | 1.45 | 432 | 9.11 s | -7.63 |
| 232 | 5.26 | .17 | | | | 024 | 10.40 X | 1.07 | 425 | 10.58 R | 1.37 | | | |
| * X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits | | | | | | | | | | | | | | |

Laboratory Averages & Accuracy Indexes

| <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> |
|-----------------------------|-----------------|--------------|-----------------------------|-----------------|--------------|-----------------------------|-----------------|--------------|-----------------------------|-----------------|--------------|-----------------------------|-----------------|--------------|
| Meth: 030.10 PCT | | | Meth: 040.40 PCT | | | Meth: 041.10 PCT | | | Meth: 041.50 PCT | | | Meth: 041.XX PCT | | |
| <u>Insoluble Phosphate</u> | | | <u>InDir Available Phos</u> | | | <u>Dir Available Phosph</u> | | | <u>Dir Available Phosph</u> | | | <u>Dir Available Phosph</u> | | |
| <u>Grav Quimociac</u> | | | <u>Automated</u> | | | <u>Grav Quimociac</u> | | | <u>ICP</u> | | | 434 | 10.47 | .79 |
| 090 | 0.05 | .00 | 096 | 10.41 | 1.00 | 211 | 10.33 | -.08 | 354 | 9.91 S | -3.14 | 360 | 10.45 | .77 |
| | | | Avg | 10.34 | | 177 | 10.31 | -.41 | 393 | 9.78 S | -3.95 | 024 | 10.46 X | .70 |
| Meth: 030.20 PCT | | | 394 | 10.28 | -.71 | 029 | 10.33 | -.41 | | | | 029 | 10.41 | .60 |
| <u>Insoluble Phosphate</u> | | | | | | 028 | 10.32 | -.60 | Meth: 041.60 PCT | | | 041 | 10.45 | .59 |
| <u>Spectrometric</u> | | | Meth: 040.50 PCT | | | 131 | 10.28 | -.71 | <u>Dir Available Phosph</u> | | | 288 | 10.43 | .46 |
| 363 | 0.36 | .71 | <u>InDir Available Phos</u> | | | 296 | 10.29 | -.83 | <u>EDTA Extract</u> | | | 361 | 10.42 | .35 |
| | | | <u>ICP</u> | | | 260 | 10.21 | -1.69 | 105 | 10.49 s | 6.93 | 105 | 10.40 | .28 |
| Meth: 030.40 PCT | | | 423 | 10.03 | -.71 | 185 | 10.21 | -1.84 | 024 | 10.46 X | 1.68 | 025 | 10.38 | .24 |
| <u>Insoluble Phosphate</u> | | | | | | | | | 288 | 10.43 | 1.18 | 177 | 10.38 | .08 |
| <u>Automated</u> | | | Meth: 040.99 PCT | | | Meth: 041.20 PCT | | | 043 | 10.36 | .66 | Avg | 10.36 | |
| 096 | 0.08 | -.71 | <u>InDir Available Phos</u> | | | <u>Dir Available Phosph</u> | | | 177 | 10.38 | .41 | 322 | 10.36 | -.01 |
| | | | <u>Other</u> | | | <u>Spectrometric</u> | | | Avg | 10.35 | | 009 | 10.36 | -.03 |
| Meth: 030.99 PCT | | | 409 | 10.27 | .71 | 055 | 10.68 | .99 | 073 | 10.34 | -.19 | 073 | 10.34 | -.21 |
| <u>Insoluble Phosphate</u> | | | | | | 397 | 10.47 | .52 | 296 | 10.32 | -.41 | 034 | 10.34 | -.27 |
| <u>Other</u> | | | Meth: 040.XX PCT | | | 415 | 10.45 | .41 | 034 | 10.34 | -.44 | 211 | 10.33 | -.28 |
| 409 | 0.11 | -.71 | <u>InDir Available Phos</u> | | | Avg | 10.39 | | 037 | 10.35 | -.79 | 040 | 10.33 | -.28 |
| | | | 090 | 10.43 | 1.13 | 419 | 9.96 | -1.45 | 106 | 10.26 | -1.28 | 296 | 10.32 | -.32 |
| Meth: 030.XX PCT | | | 096 | 10.41 | 1.05 | | | | 136 | 10.26 | -1.42 | 043 | 10.36 | -.32 |
| <u>Insoluble Phosphate</u> | | | 409 | 10.27 | .47 | Meth: 041.40 PCT | | | | | | 029 | 10.33 | -.37 |
| 363 | 0.36 | 1.60 | 394 | 10.28 | .09 | <u>Dir Available Phosph</u> | | | Meth: 041.99 PCT | | | 037 | 10.35 | -.41 |
| Avg | 0.15 | | Avg | 10.26 | | <u>Automated</u> | | | <u>Dir Available Phosph</u> | | | 177 | 10.31 | -.45 |
| 409 | 0.11 | -.32 | 363 | 10.16 | -.68 | 029 | 10.41 | 1.15 | <u>Other</u> | | | 028 | 10.32 | -.47 |
| 096 | 0.08 | -.55 | | | | 025 | 10.38 | .48 | 377 | 10.66 | .91 | 055 | 10.33 | -.49 |
| 090 | 0.05 | -.74 | | | | Avg | 10.36 | | Avg | 10.46 | | 043 | 10.31 | -.52 |
| | | | Meth: 041.10 PCT | | | 131 | 10.29 | -.97 | 105 | 10.27 | -.82 | 131 | 10.29 | -.57 |
| Meth: 040.10 PCT | | | <u>Dir Available Phosph</u> | | | | | | | | | 131 | 10.28 | -.65 |
| <u>InDir Available Phos</u> | | | <u>Grav Quimociac</u> | | | Meth: 041.50 PCT | | | Meth: 041.XX PCT | | | 296 | 10.29 | -.68 |
| <u>Grav Quim</u> | | | 254 | 10.66 s | 5.22 | <u>Dir Available Phosph</u> | | | <u>Dir Available Phosph</u> | | | 105 | 10.27 | -.71 |
| 090 | 10.43 | .71 | 102 | 10.61 s | 3.41 | <u>ICP</u> | | | 105 | 10.49 s | 3.34 | 106 | 10.26 | -.75 |
| | | | 434 | 10.47 | 1.71 | 007 | 10.61 | 1.32 | 254 | 10.66 s | 2.95 | 136 | 10.26 | -.81 |
| Meth: 040.20 PCT | | | 041 | 10.45 | 1.38 | 023 | 10.61 | 1.27 | 055 | 10.68 | 2.21 | 325 | 10.25 | -.88 |
| <u>InDir Available Phos</u> | | | 105 | 10.40 | .85 | 360 | 10.45 | .52 | 377 | 10.66 | 2.18 | 009 | 10.22 | -1.02 |
| <u>Spectrometri</u> | | | 055 | 10.33 | .70 | 361 | 10.42 | .06 | 102 | 10.61 | 1.81 | 260 | 10.21 | -1.22 |
| 363 | 10.16 | .71 | 322 | 10.36 | .40 | Avg | 10.41 | | 007 | 10.61 | 1.76 | 185 | 10.21 | -1.30 |
| | | | 009 | 10.36 | .35 | 043 | 10.31 | -.69 | 023 | 10.61 | 1.72 | | | |
| | | | 040 | 10.33 | .23 | 325 | 10.25 | -1.03 | 397 | 10.47 R | 1.18 | 354 | 9.91 s | -3.26 |
| | | | Avg | 10.33 | | 009 | 10.22 | -1.16 | 415 | 10.45 | .94 | 393 | 9.78 s | -4.18 |
| | | | | | | | | | | | | | | |

* 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: 048.10 PCT | | | Meth: 050.00 PCT | | | Meth: 050.50 PCT | | | Meth: 050.61 PCT | | | Meth: 050.XX PCT | | |
| <u>Water Soluble Phosph</u> | | | <u>Soluble Potash</u> | | | <u>Soluble Potash</u> | | | <u>Soluble Potash</u> | | | <u>Soluble Potash</u> | | |
| <u>Grav Quimociac</u> | | | <u>STPB Oxalate</u> | | | <u>ICP (Oxalate)</u> | | | <u>Flame (Citrate)</u> | | | | | |
| 434 | 7.97 | .00 | 043 | 15.09 | -.09 | 324 | 17.46 S | 4.39 | 034 | 15.99 s | 3.70 | 324 | 17.46 s | 6.79 |
| | | | 114 | 15.05 | -.31 | 307 | 15.77 | 1.24 | 024 | 15.38 | 1.21 | 102 | 16.22 A | 3.20 |
| | | | 416 | 15.07 | -.33 | 422 | 15.63 | 1.02 | 025 | 15.32 | .95 | 034 | 15.99 | 2.52 |
| Meth: 048.20 PCT | | | 209 | | | 106 | | | 041 | | | 415 | | |
| <u>Water Soluble Phosph</u> | | | 028 | | | 106 | | | 041 | | | 432 | | |
| <u>Spectrometric</u> | | | 211 | | | Avg | | | 035 | | | 369 | | |
| 096 | 8.27 | 1.29 | 211 | 15.00 | -.52 | 420 | 15.02 | -.19 | 105 | 15.12 | .16 | 307 | 15.77 | 1.89 |
| 363 | 8.38 | .86 | 090 | 15.03 | -.73 | 354 | 14.55 | -1.06 | Avg | 15.08 | | 393 | 15.67 | 1.62 |
| Avg | 8.21 | | 296 | 14.81 | -1.56 | 426 | 14.42 | -1.28 | 029 | 14.98 | -.44 | 260 | 15.68 | 1.61 |
| 420 | 8.09 | -.73 | 022 | 14.75 | -1.85 | Meth: 050.51 PCT | | | 037 | 14.92 | -.67 | 422 | 15.63 | 1.54 |
| 372 | 8.09 | -.76 | Meth: 050.10 PCT | | | <u>Soluble Potash</u> | | | 030 | 14.60 | -1.98 | 234 | 15.59 | 1.33 |
| | | | <u>Soluble Potash</u> | | | <u>ICP (Citrate)</u> | | | Meth: 050.99 PCT | | | 330 | 15.53 | 1.17 |
| | | | <u>STPB Citrate</u> | | | 393 | 15.67 | 1.70 | <u>Soluble Potash</u> | | | 007 | 15.52 | 1.13 |
| | | | 322 | 14.86 | .71 | 007 | 15.52 | .82 | <u>Other</u> | | | 040 | 15.41 R | 1.10 |
| | | | | | | 389 | 15.40 | .55 | 432 | 15.85 R | 2.55 | 262 | 15.50 | 1.08 |
| | | | | | | Avg | 15.35 | | 260 | 15.68 | 1.88 | 257 | 15.47 | 1.03 |
| | | | | | | 009 | 15.31 | -.26 | 330 | 15.53 | 1.41 | 023 | 15.41 | .85 |
| | | | | | | 043 | 15.27 | -.41 | 377 | 15.38 | .94 | 389 | 15.40 | .85 |
| | | | | | | 423 | 15.22 | -.79 | 232 | 15.37 | .91 | 377 | 15.38 | .74 |
| | | | | | | 361 | 15.09 | -1.32 | 177 | 15.25 | .54 | 024 | 15.38 | .74 |
| | | | | | | Meth: 050.60 PCT | | | 131 | 15.20 | .36 | 055 | 15.23 R | .71 |
| | | | | | | <u>Soluble Potash</u> | | | 325 | 15.17 | .27 | 392 | 15.31 | .56 |
| | | | | | | <u>Flame (Oxalate)</u> | | | 360 | 15.17 | .27 | 025 | 15.32 | .55 |
| | | | | | | 415 | 15.95 s | 5.56 | Avg | 15.08 | | 073 | 15.29 | .53 |
| | | | | | | 055 | 15.23 R | 1.65 | 105 | 15.02 | -.20 | 009 | 15.31 | .52 |
| | | | | | | 406 | 15.30 | 1.38 | 390 | 15.07 | -.29 | 406 | 15.30 | .51 |
| | | | | | | 105 | 15.24 | 1.02 | 376 | 14.90 | -.57 | 106 | 15.27 | .45 |
| | | | | | | Avg | 15.08 | | 042 | 14.79 | -.94 | 043 | 15.27 | .42 |
| | | | | | | 131 | 15.07 | -.18 | 394 | 14.78 | -.97 | 177 | 15.25 | .38 |
| | | | | | | 434 | 14.73 | -1.15 | 434 | 14.73 | -1.15 | 423 | 15.22 | .38 |
| | | | | | | 288 | 15.04 | -.28 | 419 | 14.71 | -1.20 | 105 | 15.24 | .35 |
| | | | | | | 200 | 14.99 | -.56 | 258 | 14.59 | -1.63 | 041 | 15.16 | .34 |
| | | | | | | 309 | 14.85 | -1.46 | 247 | 13.15 s | -6.09 | 095 | 15.24 | .33 |
| | | | | | | Meth: 050.31 PCT | | | | | | 055 | 15.20 | .30 |
| | | | | | | <u>Soluble Potash</u> | | | | | | 035 | 15.20 | .26 |
| | | | | | | <u>AA (Citrate)</u> | | | | | | 131 | 15.20 | .20 |
| | | | | | | 254 | 14.62 | -.71 | | | | 325 | 15.17 | .13 |
| | | | | | | Avg | | | | | | | | |

* 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: 050.XX PCT | | | Meth: 050.XX PCT | | | Meth: 101.00 PCT | | | Meth: 101.30 PCT | | | Meth: 101.XX PCT | | |
| <u>Soluble Potash</u> | | | | | | <u>Acid Soluble Calcium</u> | | | <u>Acid Soluble Calcium</u> | | | <u>Acid Soluble Calcium</u> | | |
| 360 | 15.17 | .12 | 247 | 13.15 s | -5.74 | AA | | | ICP | | | 296 | 8.32 | .22 |
| 009 | 15.17 | .11 | | | | 177 | 8.50 | .95 | 372 | 6.05 s | -5.89 | 419 | 8.30 | .21 |
| Avg | 15.13 | | Meth: 060.00 PCT | | | 043 | 8.47 | .89 | Meth: 101.70 PCT | | | Avg | 8.27 | |
| 105 | 15.12 | -.03 | Free Water | | | 028 | 8.34 | .50 | Acid Soluble Calcium | | | 307 | 8.23 | -.12 |
| 372 | 15.11 | -.10 | <u>Vacuum Oven</u> | | | 296 | 8.32 | .45 | Titrimetric | | | 389 | 8.20 | -.18 |
| 361 | 15.09 | -.12 | 105 | 0.79 | 1.56 | 040 | 8.19 | .15 | | | | 022 | 8.20 X | -.20 |
| 043 | 15.09 | -.13 | 096 | 0.75 | .96 | Avg | 8.18 | | 415 | 8.20 | .71 | 415 | 8.20 | -.20 |
| 131 | 15.07 | -.19 | Avg | 0.65 | | 029 | 8.14 | -.13 | Avg | 8.20 | | 247 | 8.22 | -.23 |
| 029 | 15.07 | -.24 | 416 | 0.63 | -.17 | 055 | 8.07 | -.35 | 200 | 5.15 S-125.55 | | 040 | 8.19 | -.25 |
| 416 | 15.07 | -.24 | 363 | 0.62 | -.28 | 397 | 7.51 R | -2.24 | 042 | 5.05 S-129.88 | | 029 | 8.14 | -.34 |
| 114 | 15.05 | -.26 | 247 | 0.59 | -.55 | 262 | 7.43 | -2.28 | Meth: 101.99 PCT | | | 360 | 8.12 | -.43 |
| 288 | 15.04 | -.26 | 007 | 0.51 | -1.32 | Meth: 101.30 PCT | | | Acid Soluble Calcium | | | 055 | 8.07 | -.54 |
| 390 | 15.07 | -.31 | Meth: 060.10 PCT | | | Acid Soluble Calcium | | | <u>Other</u> | | | 234 | 7.98 | -.79 |
| 028 | 15.04 | -.31 | Free Water | | | <u>ICP</u> | | | 409 | 12.65 S | 8.90 | 106 | 7.97 | -.82 |
| 105 | 15.02 | -.31 | <u>Vacuum Desiccate</u> | | | 422 | 10.17 s | 4.94 | 434 | 8.93 | 1.46 | 433 | 7.96 | -.85 |
| 420 | 15.02 | -.34 | 419 | 0.37 | .71 | 035 | 9.09 | 2.12 | Avg | 8.20 | | 288 | 7.92 | -.96 |
| 211 | 15.00 | -.38 | Meth: 060.99 PCT | | | 393 | 9.05 | 2.00 | 022 | 8.20 X | -.04 | 102 | 7.92 | -.96 |
| 200 | 14.99 | -.40 | Free Water | | | 354 | 8.69 | 1.05 | 234 | 7.98 | -.45 | 131 | 7.87 | -1.10 |
| 029 | 14.98 | -.44 | <u>Other</u> | | | 390 | 8.50 | .66 | 376 | 7.70 | -1.08 | 376 | 7.70 R | -1.63 |
| 090 | 15.03 | -.45 | 409 | 0.74 | .71 | 420 | 8.50 | .59 | Meth: 101.XX PCT | | | 232 | 7.58 | -1.88 |
| 136 | 14.96 | -.51 | Meth: 060.XX PCT | | | 423 | 8.51 | .58 | Acid Soluble Calcium | | | 397 | 7.51 R | -2.22 |
| 037 | 14.92 | -.60 | Free Water | | | 009 | 8.40 | .31 | 409 | 12.65 s | 11.92 | 262 | 7.43 | -2.28 |
| 376 | 14.90 | -.66 | 105 | 0.79 | 1.35 | 324 | 8.39 | .27 | 422 | 10.17 s | 5.19 | 432 | 7.78 s | -3.50 |
| 322 | 14.86 | -.79 | 096 | 0.75 | .90 | 023 | 8.36 | .21 | 035 | 9.09 | 2.26 | 372 | 6.05 s | -6.05 |
| 309 | 14.85 | -.82 | 409 | 0.74 | .87 | 419 | 8.30 | .19 | 393 | 9.05 | 2.14 | 200 | 5.15 s | -8.48 |
| 296 | 14.81 | -.94 | 416 | 0.63 | .11 | Avg | 8.29 | | 434 | 8.93 | 1.81 | 042 | 5.05 s | -8.77 |
| 042 | 14.79 | -.99 | Avg | 0.62 | | 389 | 8.20 | -.23 | 354 | 8.69 | 1.15 | Meth: 121.00 PCT | | |
| 394 | 14.78 | -1.02 | 363 | 0.62 | -.06 | 247 | 8.22 | -.26 | 390 | 8.50 | .74 | Acid Soluble Magnesi | | |
| 022 | 14.75 | -1.09 | 247 | 0.59 | -.27 | 360 | 8.12 | -.47 | 420 | 8.50 | .67 | <u>AA</u> | | |
| 434 | 14.73 | -1.19 | 007 | 0.51 | -.86 | 106 | 7.97 | -.85 | 423 | 8.51 | .67 | 029 | 1.27 | 1.58 |
| 419 | 14.71 | -1.23 | 419 | 0.37 | -1.81 | 433 | 7.96 | -.88 | 177 | 8.50 | .62 | 028 | 1.25 | 1.28 |
| 254 | 14.62 | -1.47 | | | | 102 | 7.92 | -.98 | 043 | 8.47 | .57 | 095 | 1.24 | 1.09 |
| 030 | 14.60 | -1.54 | | | | 288 | 7.92 | -.98 | 009 | 8.40 | .38 | 040 | 1.23 | .89 |
| 258 | 14.59 | -1.63 | | | | 131 | 7.87 | -1.12 | 324 | 8.39 | .34 | 392 | 1.20 | .41 |
| 354 | 14.55 | -1.71 | | | | 232 | 7.58 | -1.87 | 023 | 8.36 | .28 | 177 | 1.20 | .38 |
| 425 | 14.47 | -1.94 | | | | 432 | 7.78 s | -3.40 | 028 | 8.34 | .24 | Avg | 1.18 | |
| 426 | 14.42 | -2.05 | | | | | | | A=Analysis beyond 3-s limits | | | 257 | 1.18 | -.09 |
| 185 | 14.30 | -2.42 | | | | | | | | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----------------------------------|----------|-------|-----------------------------|----------|--------|-----------------------------|----------|-------|-----------------------------|----------|-------|------------------------------|----------|-------|
| Meth: 121.00 PCT | | | Meth: 121.30 PCT | | | Meth: 121.XX PCT | | | Meth: 131.30 PCT | | | Meth: 144.70 PCT | | |
| Acid Soluble Magnesi | | | Acid Soluble Magnesi | | | <u>Acid Soluble Magnesi</u> | | | Water Soluble Magnes | | | Sulfur | | |
| <u>AA</u> | | | <u>ICP</u> | | | 040 | | | <u>ICP</u> | | | <u>Spectrometric</u> | | |
| 434 | 1.14 | - .72 | 393 | 1.00 | -2.91 | 131 | 1.22 | .59 | 300 | 0.96 | .84 | 393 | 7.66 | .71 |
| 262 | 1.13 | - .80 | Meth: 121.70 PCT | | | 035 | 1.21 | .29 | Avg | 0.89 | | Meth: 144.99 PCT | | |
| 296 | 1.13 | - .87 | Acid Soluble Magnesi | | | 392 | 1.20 | .27 | 432 | 0.81 | - .89 | Sulfur | | |
| 055 | 1.13 | - .95 | <u>Titrimetric</u> | | | 389 | 1.20 | .20 | Meth: 131.XX PCT | | | <u>Other</u> | | |
| 309 | 1.15 | - .97 | 415 | 1.78 S | 10.66 | 177 | 1.20 | .18 | <u>Water Soluble Magnes</u> | | | 307 | 8.10 R | 2.26 |
| 043 | 1.15 | - .97 | 042 | 1.18 | .71 | 247 | 1.20 | .14 | 029 | 1.12 | 1.25 | 376 | 8.55 | 2.13 |
| 425 | 1.10 | -1.53 | Avg | 1.18 | | Avg | 1.19 | | Avg | 0.99 | | 360 | 8.52 | 1.94 |
| Meth: 121.30 PCT | | | Meth: 121.99 PCT | | | 257 | 1.18 | - .21 | 300 | 0.96 | - .36 | 023 | 8.15 | .65 |
| Acid Soluble Magnesi | | | Acid Soluble Magnesi | | | 300 | 1.17 | - .27 | 300 | 0.96 | - .89 | 390 | 8.08 | .55 |
| <u>ICP</u> | | | <u>Other</u> | | | 360 | 1.16 | - .43 | 309 | 0.90 | - .89 | 389 | 8.15 | .51 |
| 330 | 2.04 s | 13.01 | 409 | 2.08 S | 117.43 | 009 | 1.16 | - .46 | 432 | 0.81 R | -1.74 | 372 | 8.10 | .48 |
| 422 | 1.83 s | 9.82 | 022 | 1.35 S | 20.12 | 288 | 1.16 | - .52 | Meth: 144.01 PCT | | | 423 | 8.09 | .22 |
| 432 | 1.28 R | 1.55 | Avg | 1.25 | | 042 | 1.18 | - .64 | Sulfur | | | 177 | 8.08 | .19 |
| 423 | 1.28 | 1.35 | 234 | 1.25 | - .71 | 434 | 1.14 | - .81 | <u>Gravimetric</u> | | | 361 | 8.04 | .18 |
| 023 | 1.27 | 1.21 | Meth: 121.XX PCT | | | 372 | 1.13 | - .90 | 043 | 8.39 R | 1.42 | 330 | 8.06 | .16 |
| 419 | 1.25 | .97 | Acid Soluble Magnesi | | | 262 | 1.13 | - .90 | 055 | 8.43 | 1.35 | Avg | 8.03 | |
| 433 | 1.25 | .97 | 409 | 2.08 s | 13.98 | 296 | 1.13 | - .96 | 324 | 8.41 | 1.33 | 354 | 8.01 | - .17 |
| 307 | 1.23 | .72 | 330 | 2.04 s | 13.45 | 309 | 1.15 R | - .98 | 095 | 8.35 | .89 | 419 | 7.95 | - .33 |
| 390 | 1.23 | .70 | 422 | 1.83 s | 10.15 | 043 | 1.15 R | - .98 | 029 | 8.32 | .88 | 009 | 7.87 | - .66 |
| 420 | 1.23 | .68 | 415 | 1.78 s | 9.38 | 324 | 1.13 | - .98 | 288 | 8.28 | .44 | 247 | 7.78 | -1.00 |
| 354 | 1.23 | .67 | 022 | 1.35 s | 2.99 | 102 | 1.14 | -1.01 | 105 | 8.26 | .40 | 422 | 7.75 | -1.10 |
| 131 | 1.22 | .59 | 432 | 1.28 | 1.59 | 055 | 1.13 | -1.02 | Avg | 8.21 | | 035 | 7.74 | -1.21 |
| 035 | 1.21 | .29 | 423 | 1.28 | 1.38 | 106 | 1.12 | -1.06 | 102 | 8.17 | - .25 | 232 | 7.63 | -1.61 |
| 389 | 1.20 | .21 | 029 | 1.27 | 1.28 | 232 | 1.12 | -1.14 | 296 | 8.18 | - .46 | Meth: 144.XX PCT | | |
| 247 | 1.20 | .15 | 023 | 1.27 | 1.23 | 425 | 1.10 | -1.55 | 262 | 8.11 | - .66 | <u>Sulfur</u> | | |
| Avg | 1.19 | | 028 | 1.25 | 1.00 | 426 | 1.08 R | -1.86 | 040 | 8.10 | - .69 | 307 | 8.10 R | 2.22 |
| 300 | 1.17 | - .25 | 419 | 1.25 | .99 | 393 | 1.00 | -3.03 | 028 | 8.00 | -1.34 | 376 | 8.55 | 1.91 |
| 360 | 1.16 | - .40 | 433 | 1.25 | .98 | Meth: 131.00 PCT | | | 397 | 7.94 | -1.73 | 360 | 8.52 | 1.72 |
| 009 | 1.16 | - .43 | 234 | 1.25 | .91 | Water Soluble Magnes | | | 200 | 7.09 s | -7.01 | 055 | 8.43 | 1.34 |
| 288 | 1.16 | - .48 | 095 | 1.24 | .85 | <u>AA</u> | | | Meth: 144.02 PCT | | | 324 | 8.41 | 1.31 |
| 372 | 1.13 | - .86 | 307 | 1.23 | .73 | 029 | 1.12 | .87 | Sulfur | | | 043 | 8.39 | 1.31 |
| 324 | 1.13 | - .94 | 390 | 1.23 | .71 | Avg | 1.01 | | <u>Gravimetric</u> | | | 095 | 8.35 | 1.05 |
| 102 | 1.14 R | - .97 | 420 | 1.23 | .69 | 309 | 0.90 | - .87 | 029 | 8.00 | .89 | 029 | 8.32 | .98 |
| 106 | 1.12 | -1.01 | 354 | 1.23 | .67 | Meth: 131.00 PCT | | | Avg | 7.82 | | 288 | 8.28 | .77 |
| 232 | 1.12 | -1.08 | S/s=Screened Outlier | | | Water Soluble Magnes | | | 434 | 7.65 | - .84 | 105 | 8.26 | .69 |
| 426 | 1.08 R | -1.79 | R=Duplicate Range too large | | | <u>AA</u> | | | Meth: 144.02 PCT | | | A=Analysis beyond 3-s limits | | |
| * X=Excluded from lab performance | | | | | | | | | Sulfur | | | | | |
| | | | | | | | | | 028 | | | 307 | | |
| | | | | | | | | | 8.00 | | | 8.10 R | | |
| | | | | | | | | | -1.34 | | | 2.22 | | |
| | | | | | | | | | 397 | | | 376 | | |
| | | | | | | | | | 7.94 | | | 8.55 | | |
| | | | | | | | | | -1.73 | | | 1.91 | | |
| | | | | | | | | | 200 | | | 360 | | |
| | | | | | | | | | 7.09 s | | | 8.52 | | |
| | | | | | | | | | -7.01 | | | 1.72 | | |
| | | | | | | | | | Meth: 144.02 PCT | | | 055 | | |
| | | | | | | | | | Sulfur | | | 8.43 | | |
| | | | | | | | | | 029 | | | 324 | | |
| | | | | | | | | | 8.00 | | | 8.41 | | |
| | | | | | | | | | .89 | | | 043 | | |
| | | | | | | | | | Avg | | | 8.39 | | |
| | | | | | | | | | 7.82 | | | 8.35 | | |
| | | | | | | | | | 434 | | | 029 | | |
| | | | | | | | | | 7.65 | | | 8.32 | | |
| | | | | | | | | | - .84 | | | .98 | | |
| | | | | | | | | | Meth: 144.02 PCT | | | 288 | | |
| | | | | | | | | | Sulfur | | | 8.28 | | |
| | | | | | | | | | 029 | | | .77 | | |
| | | | | | | | | | 8.00 | | | .69 | | |
| | | | | | | | | | .89 | | | | | |
| | | | | | | | | | Avg | | | | | |
| | | | | | | | | | 7.82 | | | | | |
| | | | | | | | | | 434 | | | | | |
| | | | | | | | | | 7.65 | | | | | |
| | | | | | | | | | - .84 | | | | | |
| | | | | | | | | | Meth: 144.02 PCT | | | | | |
| | | | | | | | | | Sulfur | | | | | |
| | | | | | | | | | 029 | | | | | |
| | | | | | | | | | 8.00 | | | | | |
| | | | | | | | | | .89 | | | | | |
| | | | | | | | | | Avg | | | | | |
| | | | | | | | | | 7.82 | | | | | |
| | | | | | | | | | 434 | | | | | |
| | | | | | | | | | 7.65 | | | | | |
| | | | | | | | | | - .84 | | | | | |
| | | | | | | | | | Meth: 144.02 PCT | | | | | |
| | | | | | | | | | Sulfur | | | | | |
| | | | | | | | | | 029 | | | | | |
| | | | | | | | | | 8.00 | | | | | |
| | | | | | | | | | .89 | | | | | |
| | | | | | | | | | Avg | | | | | |
| | | | | | | | | | 7.82 | | | | | |
| | | | | | | | | | 434 | | | | | |
| | | | | | | | | | 7.65 | | | | | |
| | | | | | | | | | - .84 | | | | | |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|---|----------|-------|---------------------------|----------|-------|---------------------------|----------|-------|-----------------------------|----------|-------|--------------------|----------|-------|
| Meth: 144.XX PCT | | | Meth: 151.30 PPM | | | Meth: 165.99 PCT | | | Meth: 165.XX PCT | | | Meth: 181.30 PPM | | |
| <u>Sulfur</u> | | | <u>Arsenic</u> | | | <u>Acid Soluble Boron</u> | | | <u>Acid Soluble Boron</u> | | | <u>Cadmium</u> | | |
| 023 | 8.15 | .52 | <u>ICP</u> | | | <u>Other</u> | | | 288 | 0.070 | -.14 | <u>ICP</u> | | |
| 296 | 8.18 | .44 | 247 | 3.60 | .27 | 432 | 0.155 s | 16.30 | 423 | 0.070 | -.16 | 232 | 0.70 | -.36 |
| 372 | 8.10 | .40 | Avg | 3.24 | | 354 | 0.095 s | 4.46 | 257 | 0.070 | -.17 | 390 | 0.52 | -.71 |
| 102 | 8.17 | .34 | 102 | 3.04 | -.29 | 106 | 0.078 R | 1.68 | 055 | 0.069 | -.36 | 247 | 0.15 | -1.56 |
| 389 | 8.15 | .32 | 106 | 1.35 | -1.35 | 360 | 0.080 | 1.64 | 029 | 0.068 | -.45 | | | |
| 262 | 8.11 | .10 | | | | 434 | 0.079 | 1.45 | 307 | 0.069 | -.47 | Meth: 181.99 PPM | | |
| 040 | 8.10 | .08 | Meth: 151.99 PPM | | | 258 | 0.078 | 1.17 | 009 | 0.067 | -.63 | <u>Cadmium</u> | | |
| 423 | 8.09 | .06 | <u>Arsenic</u> | | | 433 | 0.076 | .80 | 040 | 0.066 | -.86 | <u>Other</u> | | |
| Avg | 8.08 | | <u>Other</u> | | | 043 | 0.075 | .61 | 028 | 0.066 | -.86 | 409 | 0.85 | -.71 |
| 177 | 8.08 | -.04 | 409 | 3.90 | .71 | 324 | 0.073 | .36 | 393 | 0.066 | -.86 | | | |
| 330 | 8.06 | -.15 | | | | Avg | 0.071 | | 426 | 0.066 | -.96 | Meth: 181.XX PPM | | |
| 361 | 8.04 | -.26 | Meth: 151.XX PPM | | | 422 | 0.071 | -.17 | 409 | 0.065 R | -1.23 | <u>Cadmium</u> | | |
| 354 | 8.01 | -.34 | <u>Arsenic</u> | | | | | | 037 | 0.063 | -1.68 | 393 | 3.40 s | 7.25 |
| 028 | 8.00 | -.35 | 376 | 4.95 | 1.59 | 288 | 0.070 | -.33 | 232 | 0.062 | -1.79 | 419 | 1.53 | 2.00 |
| 029 | 8.00 | -.43 | 409 | 3.90 | .63 | 423 | 0.070 | -.33 | 200 | 0.050 s | -4.21 | 324 | 1.35 R | 1.67 |
| 390 | 8.08 | -.51 | 247 | 3.60 | .36 | 307 | 0.069 | -.56 | | | | 376 | 1.15 | .96 |
| 419 | 7.95 | -.52 | Avg | 3.22 | | 009 | 0.067 | -.77 | Meth: 171.10 PCT | | | 102 | 0.88 | .24 |
| 397 | 7.94 | -.60 | 102 | 3.04 | -.37 | 426 | 0.066 | -1.05 | <u>Water Soluble Boron</u> | | | 409 | 0.85 | .18 |
| 009 | 7.87 | -.85 | 040 | 2.81 | -.38 | 409 | 0.065 | -1.27 | <u>Spectrometric</u> | | | 040 | 0.84 | .12 |
| 247 | 7.78 | -1.19 | 136 | 2.90 | -.41 | 232 | 0.062 | -1.80 | 296 | 0.050 | .00 | Avg | 0.81 | |
| 422 | 7.75 | -1.29 | 106 | 1.35 | -1.73 | | | | | | | 009 | 0.79 | -.12 |
| 035 | 7.74 | -1.39 | | | | Meth: 165.XX PCT | | | Meth: 181.00 PPM | | | 136 | 0.70 | -.41 |
| 434 | 7.65 | -1.70 | Meth: 165.00 PCT | | | <u>Acid Soluble Boron</u> | | | <u>Cadmium</u> | | | 232 | 0.70 | -.41 |
| 232 | 7.63 | -1.79 | <u>Acid Soluble Boron</u> | | | 432 | 0.155 s | 18.50 | <u>Atomic Absorption</u> | | | 390 | 0.52 | -.83 |
| 393 | 7.66 | -1.86 | <u>Spectrometric</u> | | | 354 | 0.095 s | 5.24 | 040 | 0.84 | .65 | 247 | 0.15 | -1.85 |
| 200 | 7.09 s | -3.89 | 023 | 0.072 R | 1.88 | 360 | 0.080 | 2.07 | Avg | 0.77 | | | | |
| | | | 392 | 0.072 | 1.78 | 106 | 0.078 R | 2.07 | 136 | 0.70 | -1.04 | Meth: 190.00 PCT | | |
| | | | 296 | 0.070 | .80 | 434 | 0.079 | 1.85 | <u>Water Soluble Chlori</u> | | | <u>Titrimetric</u> | | |
| | | | 257 | 0.070 | .62 | 258 | 0.078 | 1.54 | Meth: 181.30 PPM | | | 372 | 10.42 | 1.32 |
| | | | 055 | 0.069 | .26 | 433 | 0.076 | 1.12 | <u>Cadmium</u> | | | 105 | 10.39 | 1.15 |
| | | | Avg | 0.068 | | 043 | 0.075 | .92 | <u>ICP</u> | | | 422 | 10.36 | 1.01 |
| | | | 029 | 0.068 | -.11 | 324 | 0.073 | .63 | 393 | 3.40 s | 6.05 | 296 | 10.28 | .73 |
| | | | 040 | 0.066 | -1.03 | 023 | 0.072 | .60 | 419 | 1.53 | 1.66 | 262 | 10.31 | .64 |
| | | | 393 | 0.066 | -1.03 | 392 | 0.072 | .44 | 324 | 1.35 R | 1.38 | 102 | 10.21 | .06 |
| | | | 028 | 0.066 | -1.03 | 300 | 0.071 | .32 | 376 | 1.15 | .79 | Avg | 10.20 | |
| | | | 037 | 0.063 R | -2.88 | 422 | 0.071 | .13 | 102 | 0.88 | .19 | 040 | 10.13 | -.44 |
| | | | 200 | 0.050 s | -8.39 | Avg | 0.070 | | Avg | 0.82 | | 055 | 10.07 | -.76 |
| 376 | 4.95 | 1.23 | | | | 296 | 0.070 | -.03 | 009 | 0.79 | -.11 | | | |
| * 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: 190.00 PCT | | | Meth: 191.30 PPM | | | Meth: 202.00 PPM | | | Meth: 202.XX PPM | | | Meth: 221.30 PCT | | |
| <u>Water Soluble Chlori</u> | | | <u>Chromium</u> | | | <u>Acid Soluble Cobalt</u> | | | <u>Acid Soluble Cobalt</u> | | | <u>Acid Soluble Copper</u> | | |
| <u>Titrimetric</u> | | | <u>ICP</u> | | | <u>AA</u> | | | 040 64.70 | - .57 | | <u>ICP</u> | | |
| 029 10.10 | - .83 | | 390 255.50 s | 6.48 | | 434 108.50 | .71 | | 232 62.50 | - .63 | | 423 0.0017 | -2.54 | |
| 043 9.99 | -1.24 | | 393 188.30 | 2.18 | | | | | 102 49.53 | -1.16 | | | | |
| 028 9.93 | -1.57 | | 009 165.05 | 1.25 | | Meth: 202.30 PPM | | | 106 46.00 | -1.32 | | Meth: 221.99 PCT | | |
| | | | 376 145.00 | .31 | | <u>Acid Soluble Cobalt</u> | | | 324 43.85 | -1.38 | | <u>Acid Soluble Copper</u> | | |
| Meth: 190.99 PCT | | | Avg 137.97 | | | <u>ICP</u> | | | | | | <u>Other</u> | | |
| <u>Water Soluble Chlori</u> | | | 419 136.00 | - .08 | | 390 109.30 | 1.76 | | Meth: 221.00 PCT | | | 409 0.0044 S | 8.70 | |
| <u>Other</u> | | | 247 136.00 | - .10 | | 009 108.25 | 1.71 | | <u>Acid Soluble Copper</u> | | | 022 0.0028 X | .71 | |
| 389 11.60 S | 3.37 | | 035 135.00 | - .21 | | 393 78.85 | .52 | | <u>Atomic Absorption</u> | | | Avg 0.0028 | | |
| 288 10.75 | 1.34 | | 106 124.00 | - .61 | | 035 78.65 | .51 | | 043 0.0047 S | 4.31 | | | | |
| 423 10.64 | .89 | | 232 120.00 | - .78 | | Avg 70.38 | | | 029 0.0033 | 1.24 | | Meth: 221.XX PCT | | |
| Avg 10.30 | | | 102 118.45 | - .89 | | 423 67.51 | - .15 | | 095 0.0034 | 1.07 | | <u>Acid Soluble Copper</u> | | |
| 009 10.29 | - .03 | | 324 111.90 | -1.12 | | 419 65.05 | - .24 | | Avg 0.0031 | | | 043 0.0047 s | 5.36 | |
| 360 10.25 | - .34 | | | | | 040 64.70 | - .34 | | 028 0.0031 | - .46 | | 409 0.0044 s | 4.98 | |
| 397 10.18 | - .39 | | Meth: 191.99 PPM | | | 232 62.50 | - .36 | | 434 0.0029 | - .78 | | 354 0.0045 s | 4.86 | |
| 023 9.69 | -1.63 | | <u>Chromium</u> | | | 102 49.53 | - .95 | | | | | 422 0.0045 s | 4.86 | |
| | | | <u>Other</u> | | | 106 46.00 | -1.13 | | Meth: 221.30 PCT | | | 433 0.0036 | 2.02 | |
| Meth: 190.XX PCT | | | 409 183.50 | .71 | | 324 43.85 | -1.20 | | <u>Acid Soluble Copper</u> | | | 095 0.0034 | 1.65 | |
| <u>Water Soluble Chlori</u> | | | | | | | | | <u>ICP</u> | | | 029 0.0033 R | 1.63 | |
| 389 11.60 s | 6.13 | | Meth: 191.XX PPM | | | Meth: 202.99 PPM | | | 354 0.0045 s | 3.99 | | 330 0.0032 | 1.19 | |
| 288 10.75 R | 2.64 | | <u>Chromium</u> | | | <u>Acid Soluble Cobalt</u> | | | 422 0.0045 s | 3.99 | | 040 0.0031 | .82 | |
| 423 10.64 | 1.93 | | 390 255.50 s | 5.63 | | <u>Other</u> | | | 433 0.0036 | 1.78 | | 389 0.0032 | .80 | |
| 372 10.42 | .96 | | 393 188.30 | 1.78 | | 389 110.00 | .71 | | 330 0.0032 | 1.08 | | 102 0.0032 | .79 | |
| 105 10.39 | .83 | | 409 183.50 | 1.66 | | Avg 104.15 | | | 389 0.0032 | .83 | | 393 0.0031 | .64 | |
| 422 10.36 | .73 | | 009 165.05 | .97 | | 409 98.30 | -1.00 | | 102 0.0032 | .80 | | 028 0.0031 | .57 | |
| 360 10.25 | .57 | | 376 145.00 | .12 | | | | | 040 0.0031 | .75 | | 419 0.0030 | .21 | |
| 296 10.28 | .52 | | Avg 142.11 | | | Meth: 202.XX PPM | | | 393 0.0031 | .70 | | 307 0.0030 | .16 | |
| 262 10.31 | .46 | | 419 136.00 | - .23 | | <u>Acid Soluble Cobalt</u> | | | 390 0.0029 | .46 | | Avg 0.0029 | | |
| 009 10.29 | .38 | | 247 136.00 | - .24 | | 389 110.00 | 1.30 | | 419 0.0030 | .37 | | 434 0.0029 | - .27 | |
| 102 10.21 | .03 | | 035 135.00 | - .31 | | 390 109.30 | 1.27 | | 307 0.0030 | .28 | | 009 0.0028 | - .46 | |
| Avg 10.20 | | | 106 124.00 | - .70 | | 434 108.50 | 1.25 | | Avg 0.0028 | | | 390 0.0029 | - .60 | |
| 040 10.13 | - .33 | | 232 120.00 | - .85 | | 009 108.25 | 1.23 | | 009 0.0028 | - .22 | | 232 0.0027 | - .67 | |
| 397 10.18 | - .41 | | 102 118.45 | - .94 | | 409 98.30 | .86 | | 232 0.0027 | - .32 | | 022 0.0028 X | - .68 | |
| 055 10.07 | - .57 | | 324 111.90 | -1.15 | | 393 78.85 | .32 | | 035 0.0027 | - .34 | | 035 0.0027 | - .69 | |
| 029 10.10 | - .62 | | | | | 035 78.65 | .32 | | 288 0.0027 | - .55 | | 288 0.0027 | - .93 | |
| 043 9.99 | - .93 | | | | | Avg 77.93 | | | 106 0.0026 | - .59 | | 106 0.0026 | -1.01 | |
| 028 9.93 | -1.17 | | | | | 423 67.51 | - .43 | | 324 0.0025 | - .77 | | 324 0.0025 | -1.23 | |
| 023 9.69 | -2.34 | | | | | 419 65.05 | - .52 | | 300 0.0024 | -1.17 | | 300 0.0024 | -1.76 | |
| * 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.XX PCT | | | Meth: 241.XX PCT | | | Meth: 251.30 PPM | | | Meth: 261.00 PCT | | | Meth: 261.30 PCT | | |
| <u>Acid Soluble Copper</u> | | | <u>Acid Soluble Iron</u> | | | Lead | | | Acid Soluble Manganese | | | Acid Soluble Manganese | | |
| 423 | 0.0017 A | -3.53 | 423 | 4.09 s | 107.70 | <u>ICP</u> | | | <u>AA</u> | | | <u>ICP</u> | | |
| | | | 409 | 0.67 s | 7.27 | Avg | 4.62 | | 043 | 0.305 | -1.32 | 232 | 0.253 | -2.00 |
| Meth: 241.00 PCT | | | 390 | 0.50 R | 2.89 | 043 | 3.95 | -.68 | 055 | 0.300 R | -2.63 | Meth: 261.31 PCT | | |
| Acid Soluble Iron | | | 029 | 0.47 | 1.66 | 247 | 3.60 | -1.02 | Meth: 261.11 PCT | | | Acid Soluble Manganese | | |
| <u>Atomic Absorption</u> | | | 330 | 0.47 | 1.45 | 106 | 3.80 | -1.15 | Acid Soluble Manganese | | | <u>ICP</u> | | |
| 029 | 0.47 | 1.12 | 422 | 0.47 | 1.44 | Meth: 251.99 PPM | | | <u>AA</u> | | | 324 | 0.315 | .87 |
| 262 | 0.43 | .25 | 106 | 0.44 | .71 | Lead | | | 029 | 0.322 | .85 | Avg | 0.310 | |
| Avg | 0.43 | | 009 | 0.44 | .55 | <u>Other</u> | | | 040 | 0.314 | .51 | 419 | 0.305 | -.87 |
| 040 | 0.39 | -1.08 | 262 | 0.43 | .46 | 409 | 3.26 | .71 | Avg | 0.307 | | Meth: 261.99 PCT | | |
| Meth: 241.30 PCT | | | 022 | 0.43 X | .45 | Meth: 251.XX PPM | | | 434 | 0.285 | -1.23 | Acid Soluble Manganese | | |
| Acid Soluble Iron | | | 360 | 0.43 | .24 | Lead | | | Meth: 261.30 PCT | | | <u>Other</u> | | |
| <u>ICP</u> | | | 131 | 0.42 | .14 | 393 | 16.33 s | 9.85 | Acid Soluble Manganese | | | 022 | 0.331 X | 1.24 |
| 423 | 4.09 s | 108.73 | Avg | 0.42 | | 324 | 7.00 R | 2.05 | <u>ICP</u> | | | Avg | 0.312 | |
| 409 | 0.67 s | 7.42 | 288 | 0.41 | -.21 | 136 | 6.95 | 1.84 | 432 | 0.590 s | 11.83 | 409 | 0.302 | -.55 |
| 390 | 0.50 R | 2.99 | 433 | 0.41 | -.32 | 419 | 6.38 | 1.35 | 330 | 0.350 R | 2.30 | 042 | 0.304 | -.82 |
| 330 | 0.47 | 1.55 | 035 | 0.40 | -.42 | 009 | 5.30 | .46 | 423 | 0.340 | 1.54 | Meth: 261.XX PCT | | |
| 422 | 0.47 | 1.54 | 102 | 0.40 | -.54 | 040 | 4.85 | .31 | 393 | 0.329 | 1.08 | <u>Acid Soluble Manganese</u> | | |
| 106 | 0.44 | .80 | 247 | 0.40 | -.81 | 307 | 0.37 | -1.57 | 422 | 0.328 | 1.07 | 432 | 0.590 s | 13.27 |
| 009 | 0.44 | .64 | 040 | 0.39 | -.98 | 232 | 0.35 | -1.90 | 354 | 0.323 | .98 | 330 | 0.350 R | 2.45 |
| 360 | 0.43 | .33 | 307 | 0.37 | -1.57 | Meth: 251.00 PPM | | | 376 | 0.320 | .84 | 022 | 0.331 R | 1.64 |
| 131 | 0.42 | .23 | 232 | 0.35 | -1.90 | Lead | | | 102 | 0.320 | .76 | 392 | 0.340 | 1.62 |
| Avg | 0.42 | | Meth: 251.00 PPM | | | <u>Atomic Absorption</u> | | | 390 | 0.318 | .69 | 423 | 0.340 | 1.55 |
| 288 | 0.41 | -.13 | Lead | | | 136 | 6.95 | .85 | 360 | 0.316 | .62 | 393 | 0.329 | 1.04 |
| 433 | 0.41 | -.23 | <u>Atomic Absorption</u> | | | Avg | 5.90 | | 131 | 0.308 | .27 | 422 | 0.328 | 1.03 |
| 035 | 0.40 | -.33 | 136 | 6.95 | .85 | 040 | 4.85 | -.88 | 023 | 0.306 | .17 | 354 | 0.323 | .96 |
| 102 | 0.40 | -.45 | Avg | 5.90 | | Meth: 261.00 PCT | | | 433 | 0.305 | .13 | 177 | 0.324 | .85 |
| 247 | 0.40 | -.74 | 040 | 4.85 | -.88 | Acid Soluble Manganese | | | Avg | 0.302 | | 376 | 0.320 | .80 |
| 307 | 0.37 | -1.50 | Meth: 251.30 PPM | | | <u>AA</u> | | | 106 | 0.295 | -.34 | 029 | 0.322 | .76 |
| 232 | 0.35 | -1.82 | Lead | | | 392 | 0.340 | 1.77 | 288 | 0.294 | -.39 | 257 | 0.321 | .69 |
| Meth: 241.99 PCT | | | <u>ICP</u> | | | 177 | 0.324 | .60 | 247 | 0.291 | -.48 | 102 | 0.320 | .67 |
| Acid Soluble Iron | | | 393 | 16.33 s | 12.02 | 028 | 0.317 | .53 | 035 | 0.300 | -.51 | 390 | 0.318 | .61 |
| <u>Other</u> | | | 324 | 7.00 R | 2.58 | 257 | 0.321 | .38 | 389 | 0.275 | -1.10 | 028 | 0.317 | .60 |
| 022 | 0.43 X | .71 | 419 | 6.38 | 1.76 | Avg | 0.316 | | 300 | 0.270 | -1.28 | 009 | 0.318 | .59 |
| | | | 009 | 5.30 | .68 | 262 | 0.315 | -.36 | 307 | 0.266 | -1.44 | 360 | 0.316 | .53 |
| | | | 376 | 4.65 | .35 | 425 | 0.310 | -.45 | 426 | 0.263 | -1.57 | 262 | 0.315 | .48 |
| | | | 102 | 4.67 | .06 | 296 | 0.300 | -1.22 | 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: 261.XX PCT | | | Meth: 289.30 PPM | | | Meth: 291.30 PPM | | | Meth: 301.00 PPM | | | Meth: 321.00 PCT | | | | | | | | | | |
| <u>Acid Soluble Manganese</u> | | | <u>Molybdenum</u> | | | <u>Nickel</u> | | | <u>Selenium</u> | | | <u>Acid Soluble Zinc</u> | | | | | | | | | | |
| 324 | 0.315 | .48 | <u>ICP</u> | | | <u>ICP</u> | | | <u>Atomic Absorption</u> | | | <u>Atomic Absorption</u> | | | | | | | | | | |
| 040 | 0.314 | .46 | 393 | 89.42 s | 57.71 | 390 | 124.80 s | 20.22 | 040 | 0.23 | .71 | 296 | 0.266 | -.33 | | | | | | | | |
| 425 | 0.310 | .19 | 009 | 13.11 R | 2.89 | 247 | 80.00 s | 5.05 | Meth: 301.30 PPM | | | 040 | 0.258 | -.55 | | | | | | | | |
| 131 | 0.308 | .15 | 419 | 11.25 | 1.19 | 009 | 64.45 | 1.45 | <u>Selenium</u> | | | 095 | 0.256 | -.63 | | | | | | | | |
| Avg | 0.306 | | 106 | 10.50 | .75 | 419 | 62.20 | .90 | <u>ICP</u> | | | 043 | 0.254 | -.67 | | | | | | | | |
| 023 | 0.306 | -.07 | 433 | 10.49 | .65 | 376 | 61.75 | .80 | 409 | 1.28 | .71 | 434 | 0.250 | -.88 | | | | | | | | |
| 433 | 0.305 | -.09 | 232 | 10.10 | .38 | 106 | 60.00 | .60 | Meth: 301.XX PPM | | | 055 | 0.233 | -1.56 | | | | | | | | |
| 419 | 0.305 | -.23 | 102 | 9.83 | .38 | Avg | 58.30 | | <u>Selenium</u> | | | 425 | 0.173 s | -3.46 | | | | | | | | |
| 296 | 0.300 | -.39 | 389 | 10.00 | .31 | 232 | 55.60 | -.64 | 409 | 1.28 | .89 | Meth: 321.30 PCT | | | | | | | | | | |
| 409 | 0.302 | -.45 | Avg | 9.57 | | 102 | 57.42 | -.67 | Avg | 0.75 | | <u>Acid Soluble Zinc</u> | | | | | | | | | | |
| 106 | 0.295 | -.55 | 324 | 8.70 | -.63 | 040 | 55.35 | -.69 | 040 | 0.23 | -.84 | <u>ICP</u> | | | | | | | | | | |
| 288 | 0.294 | -.61 | 288 | 9.00 | -.82 | 035 | 56.55 | -.71 | Meth: 311.99 PCT | | | 432 | 0.460 s | 8.57 | | | | | | | | |
| 035 | 0.300 | -.64 | 423 | 9.34 | -.87 | 324 | 51.40 | -1.66 | <u>Sodium</u> | | | 023 | 0.315 | 2.49 | | | | | | | | |
| 043 | 0.305 | -.69 | 247 | 6.50 | -2.21 | Meth: 291.99 PPM | | | <u>Other</u> | | | 330 | 0.295 R | 2.20 | | | | | | | | |
| 247 | 0.291 | -.72 | Meth: 289.99 PPM | | | <u>Nickel</u> | | | <u>Other</u> | | | 102 | 0.302 | 1.96 | | | | | | | | |
| 042 | 0.304 | -.88 | <u>Molybdenum</u> | | | 409 | | | 59.65 | .71 | 409 | | | 0.87 s | 6.96 | | | | | | | |
| 434 | 0.285 | -.99 | <u>Other</u> | | | 409 | | | 12.55 | .71 | 422 | | | 0.62 | 2.40 | | | | | | | |
| 389 | 0.275 | -1.44 | Meth: 289.XX PPM | | | Meth: 291.XX PPM | | | <u>Nickel</u> | | | 423 | | | 0.50 | .16 | | | | | | |
| 055 | 0.300 R | -1.57 | <u>Molybdenum</u> | | | 390 | | | 124.80 s | 19.84 | 307 | | | 0.48 | -.18 | | | | | | | |
| 300 | 0.270 | -1.65 | 393 | 89.42 s | 50.83 | 247 | 80.00 s | 4.93 | 009 | | | 0.47 | -.32 | 360 | 0.267 | .51 | | | | | | |
| 307 | 0.266 | -1.84 | 009 | 13.11 R | 2.47 | 009 | 64.45 | 1.40 | 288 | | | 0.47 | -.38 | 106 | 0.260 | .46 | | | | | | |
| 426 | 0.263 | -1.98 | 409 | 12.55 | 1.78 | 409 | 59.65 | 1.13 | 102 | | | 0.48 | -.45 | 324 | 0.265 | .44 | | | | | | |
| 232 | 0.253 | -2.47 | 419 | 11.25 | .96 | 419 | 62.20 | .85 | 035 | | | 0.46 | -.61 | Avg | 0.256 | | | | | | | |
| Meth: 281.99 PPM | | | 106 | 10.50 | .58 | 376 | 61.75 | .75 | 232 | | | 0.44 | -.93 | 422 | 0.255 | -.06 | | | | | | |
| <u>Mercury</u> | | | 433 | 10.49 | .49 | 106 | 60.00 | .57 | 035 | | | 0.46 | -.61 | 307 | 0.255 | -.08 | | | | | | |
| <u>Other</u> | | | 102 | 9.83 | .30 | Avg | 58.44 | | 232 | | | 0.44 | -.93 | 376 | 0.255 | -.21 | | | | | | |
| 409 | 0.35 | .87 | 232 | 10.10 | .25 | 232 | 55.60 | -.66 | Meth: 321.00 PCT | | | 389 | 0.255 | -.21 | | | | | | | | |
| Avg | 0.18 | | 389 | 10.00 | .18 | 102 | 57.42 | -.67 | <u>Acid Soluble Zinc</u> | | | 423 | 0.249 | -.31 | | | | | | | | |
| 296 | 0.01 | -.87 | Avg | 9.71 | | 040 | 55.35 | -.71 | <u>Atomic Absorption</u> | | | 131 | 0.247 | -.49 | | | | | | | | |
| Meth: 289.00 PPM | | | 324 | 8.70 | -.65 | 035 | 56.55 | -.72 | 029 | 0.338 | 2.23 | 393 | | | 0.240 | -.66 | | | | | | |
| <u>Molybdenum</u> | | | 288 | 9.00 | -.77 | 324 | 51.40 | -1.66 | 257 | | | 0.305 | 1.18 | 288 | | | 0.251 | -.70 | | | | |
| <u>Atomic Absorption</u> | | | 423 | 9.34 | -.79 | Meth: 291.99 PPM | | | 262 | | | 0.290 | .57 | 426 | | | 0.236 | -.83 | | | | |
| 040 | 8.30 | -.71 | 040 | 8.30 | -.92 | <u>Nickel</u> | | | 177 | | | 0.286 | .43 | 419 | | | 0.235 | -.90 | | | | |
| | | | 247 | 6.50 | -2.04 | 409 | | | 59.65 | 1.13 | 028 | | | 0.279 | .20 | 354 | | | 0.252 | -.96 | | |
| | | | | | | Meth: 291.99 PPM | | | Avg | | | 0.273 | | 300 | | | 0.230 | -1.08 | | | | |
| | | | | | | Meth: 291.99 PCT | | | 392 | | | 0.268 | -.30 | 232 | | | 0.230 | -1.09 | | | | |
| | | | | | | <u>Sodium</u> | | | A=Analysis beyond 3-s limits | | | 035 | | | 0.222 | -1.51 | 433 | | | 0.027 s | -9.60 | |
| | | | | | | 409 | | | 59.65 | .71 | | | | | | | | | | | | |

Laboratory Averages & Accuracy Indexes

| <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> | <u>Lab</u> | <u>Average*</u> | <u>Index</u> |
|--------------------------|-----------------|--------------|--------------------------|-----------------|--------------|------------|-----------------|--------------|------------|-----------------|--------------|------------|-----------------|--------------|
| Meth: 321.99 PCT | | | Meth: 321.XX PCT | | | | | | | | | | | |
| <u>Acid Soluble Zinc</u> | | | <u>Acid Soluble Zinc</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | | | | |
| 409 | 0.330 | 1.06 | 423 | 0.249 | -.44 | 434 | 0.250 | -.50 | 131 | 0.247 | -.54 | 288 | 0.251 | -.61 |
| 022 | 0.314 X | .65 | 434 | 0.250 | -.50 | 131 | 0.247 | -.54 | 288 | 0.251 | -.61 | 393 | 0.240 | -.70 |
| Avg | 0.294 | | 288 | 0.251 | -.61 | 393 | 0.240 | -.70 | 354 | 0.252 | -.78 | 426 | 0.236 | -.83 |
| 258 | 0.265 | -.88 | 393 | 0.240 | -.70 | 354 | 0.252 | -.78 | 426 | 0.236 | -.83 | 419 | 0.235 | -.87 |
| 042 | 0.268 | -1.08 | 426 | 0.236 | -.83 | 419 | 0.235 | -.87 | 300 | 0.230 | -1.01 | 232 | 0.230 | -1.01 |
| Meth: 321.XX PCT | | | | | | | | | | | | | | |
| <u>Acid Soluble Zinc</u> | | | | | | | | | | | | | | |
| 432 | 0.460 s | 6.07 | 300 | 0.230 | -1.01 | 232 | 0.230 | -1.01 | 055 | 0.233 | -1.11 | 035 | 0.222 | -1.32 |
| 029 | 0.338 | 2.32 | 232 | 0.230 | -1.01 | 055 | 0.233 | -1.11 | 035 | 0.222 | -1.32 | 425 | 0.173 | -2.76 |
| 409 | 0.330 | 2.06 | 055 | 0.233 | -1.11 | 035 | 0.222 | -1.32 | 425 | 0.173 | -2.76 | 433 | 0.027 s | -7.26 |
| 023 | 0.315 | 1.61 | 035 | 0.222 | -1.32 | 425 | 0.173 | -2.76 | 433 | 0.027 s | -7.26 | | | |
| 022 | 0.314 X | 1.59 | 425 | 0.173 | -2.76 | 433 | 0.027 s | -7.26 | | | | | | |
| 330 | 0.295 R | 1.46 | 433 | 0.027 s | -7.26 | | | | | | | | | |
| 257 | 0.305 | 1.36 | | | | | | | | | | | | |
| 102 | 0.302 | 1.22 | | | | | | | | | | | | |
| 262 | 0.290 | .83 | | | | | | | | | | | | |
| 042 | 0.268 R | .80 | | | | | | | | | | | | |
| 177 | 0.286 | .70 | | | | | | | | | | | | |
| 247 | 0.282 | .67 | | | | | | | | | | | | |
| 028 | 0.279 | .49 | | | | | | | | | | | | |
| 009 | 0.264 | .48 | | | | | | | | | | | | |
| 390 | 0.264 | .45 | | | | | | | | | | | | |
| 392 | 0.268 | .27 | | | | | | | | | | | | |
| 296 | 0.266 | .21 | | | | | | | | | | | | |
| 360 | 0.267 | .20 | | | | | | | | | | | | |
| 258 | 0.265 | .17 | | | | | | | | | | | | |
| 324 | 0.265 | .17 | | | | | | | | | | | | |
| Avg | 0.263 | | | | | | | | | | | | | |
| 040 | 0.258 | -.18 | | | | | | | | | | | | |
| 422 | 0.255 | -.26 | | | | | | | | | | | | |
| 307 | 0.255 | -.26 | | | | | | | | | | | | |
| 043 | 0.254 | -.28 | | | | | | | | | | | | |
| 095 | 0.256 | -.28 | | | | | | | | | | | | |
| 376 | 0.255 | -.29 | | | | | | | | | | | | |
| 389 | 0.255 | -.29 | | | | | | | | | | | | |
| 106 | 0.260 | -.32 | | | | | | | | | | | | |

* 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 | 0.68 | 0.73 | 060.00 | 6 | 0.00 | 0.96 | 0.38 |
| 001.99 | 11 | 0.23 | 1.23 | 0.85 | 060.XX | 8 | 0.00 | 0.99 | 0.28 |
| 001.XX | 16 | 0.19 | 1.23 | 0.78 | 101.00 | 9 | - 0.23 | 1.17 | 0.34 |
| 002.99 | 4 | 0.00 | 0.71 | 0.70 | 101.30 | 23 | - 0.10 | 1.90 | 0.67 |
| 002.XX | 5 | 0.00 | 1.02 | 0.26 | 101.70 | 3 | - 85.14 | 73.77 | 0.72 |
| 009.10 | 7 | 0.00 | 0.91 | 0.46 | 101.99 | 5 | 1.78 | 4.08 | 0.21 |
| 009.XX | 8 | 0.23 | 1.14 | 0.49 | 101.XX | 40 | - 0.28 | 3.16 | 0.56 |
| 010.11 | 6 | - 0.04 | 0.95 | 0.04 | 121.00 | 14 | 0.00 | 0.91 | 0.45 |
| 010.12 | 5 | 0.00 | 1.04 | 0.16 | 121.30 | 26 | 0.84 | 3.30 | 0.30 |
| 010.16 | 3 | 0.00 | 1.04 | 0.33 | 121.70 | 2 | 5.33 | 7.54 | 0.54 |
| 010.60 | 47 | 0.28 | 1.37 | 0.41 | 121.99 | 3 | 44.21 | 63.82 | 7.85 |
| 010.99 | 5 | 0.00 | 1.03 | 0.23 | 121.XX | 45 | 1.04 | 3.57 | 0.41 |
| 010.XX | 64 | 0.08 | 1.03 | 0.32 | 131.00 | 2 | 0.00 | 1.22 | 0.00 |
| 020.10 | 5 | 0.00 | 0.96 | 0.40 | 131.30 | 2 | 0.00 | 1.19 | 0.22 |
| 020.20 | 19 | - 0.52 | 1.78 | 0.45 | 131.XX | 4 | - 0.43 | 1.26 | 0.12 |
| 020.40 | 7 | 0.67 | 1.90 | 1.70 | 144.01 | 14 | - 0.42 | 2.12 | 0.35 |
| 020.50 | 10 | - 0.42 | 1.63 | 0.24 | 144.02 | 2 | 0.00 | 1.17 | 0.24 |
| 020.99 | 2 | 0.00 | 1.21 | 0.15 | 144.99 | 18 | 0.02 | 0.95 | 0.59 |
| 020.XX | 42 | - 0.23 | 1.88 | 0.52 | 144.XX | 34 | - 0.12 | 1.15 | 0.48 |
| 030.XX | 4 | 0.00 | 1.08 | 0.06 | 151.00 | 2 | 0.00 | 0.25 | 0.85 |
| 040.40 | 2 | 0.00 | 1.00 | 0.50 | 151.30 | 4 | 0.00 | 1.07 | 0.14 |
| 040.XX | 6 | 0.00 | 1.00 | 0.29 | 151.XX | 7 | 0.00 | 1.02 | 0.17 |
| 041.10 | 17 | 0.42 | 1.43 | 1.02 | 165.00 | 11 | - 0.867 | 2.802 | 0.519 |
| 041.20 | 4 | 0.00 | 1.03 | 0.29 | 165.99 | 18 | 1.184 | 3.862 | 1.158 |
| 041.40 | 3 | 0.00 | 0.79 | 0.65 | 165.XX | 29 | 0.668 | 3.648 | 1.034 |
| 041.50 | 9 | - 0.77 | 1.77 | 0.42 | 181.00 | 2 | 0.00 | 0.82 | 0.64 |
| 041.60 | 11 | 0.19 | 1.07 | 2.04 | 181.30 | 9 | 0.81 | 2.20 | 0.23 |
| 041.99 | 2 | 0.00 | 1.15 | 0.29 | 181.XX | 12 | 0.73 | 2.29 | 0.26 |
| 041.XX | 37 | - 0.08 | 1.30 | 0.67 | 190.00 | 11 | 0.00 | 0.98 | 0.27 |
| 048.20 | 4 | 0.00 | 0.71 | 0.71 | 190.99 | 7 | 0.48 | 1.56 | 0.32 |
| 048.XX | 6 | 0.00 | 0.80 | 0.62 | 190.XX | 18 | 0.47 | 1.77 | 0.37 |
| 050.00 | 16 | 0.38 | 1.80 | 0.34 | 191.30 | 11 | 0.46 | 1.80 | 1.24 |
| 050.30 | 9 | 0.00 | 1.01 | 0.20 | 191.XX | 12 | 0.36 | 1.57 | 1.06 |
| 050.50 | 7 | 0.63 | 1.90 | 0.19 | 202.30 | 11 | 0.00 | 1.01 | 0.19 |
| 050.51 | 7 | 0.00 | 0.96 | 0.37 | 202.99 | 2 | 0.00 | 1.01 | 0.49 |
| 050.60 | 8 | 0.79 | 2.08 | 0.68 | 202.XX | 14 | 0.00 | 1.00 | 0.17 |
| 050.61 | 9 | 0.41 | 1.55 | 0.22 | 221.00 | 5 | 0.8357 | 1.9492 | 0.8264 |
| 050.99 | 18 | - 0.20 | 1.83 | 0.25 | 221.30 | 19 | 0.4020 | 1.5071 | 0.4790 |
| 050.XX | 69 | 0.14 | 1.55 | 0.25 | 221.99 | 2 | 3.8773 | 5.4833 | 2.8279 |

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.XX | 26 | 0.6256 | 2.0745 | 0.8221 | | | | | |
| 241.00 | 3 | 0.00 | 1.07 | 0.27 | | | | | |
| 241.30 | 16 | 7.42 | 27.10 | 0.46 | | | | | |
| 241.XX | 20 | 5.87 | 24.04 | 0.43 | | | | | |
| 251.00 | 2 | 0.00 | 1.18 | 0.24 | | | | | |
| 251.30 | 9 | 1.57 | 3.98 | 1.01 | | | | | |
| 251.XX | 12 | 0.96 | 2.91 | 0.73 | | | | | |
| 261.00 | 9 | - 0.131 | 0.903 | 0.927 | | | | | |
| 261.11 | 3 | 0.000 | 1.065 | 0.277 | | | | | |
| 261.30 | 23 | 0.592 | 2.618 | 0.544 | | | | | |
| 261.31 | 2 | 0.000 | 0.866 | 0.612 | | | | | |
| 261.99 | 3 | 0.000 | 0.644 | 0.746 | | | | | |
| 261.XX | 40 | 0.399 | 2.275 | 0.606 | | | | | |
| 281.99 | 2 | 0.00 | 1.22 | 0.00 | | | | | |
| 281.XX | 2 | 0.00 | 1.22 | 0.00 | | | | | |
| 289.30 | 12 | 4.93 | 16.34 | 3.18 | | | | | |
| 289.XX | 14 | 3.72 | 13.34 | 2.60 | | | | | |
| 291.30 | 11 | 1.85 | 4.79 | 4.00 | | | | | |
| 291.XX | 12 | 1.66 | 4.51 | 3.77 | | | | | |
| 301.XX | 2 | 0.00 | 1.19 | 0.20 | | | | | |
| 311.99 | 9 | 0.77 | 2.50 | 0.22 | | | | | |
| 311.XX | 9 | 0.77 | 2.50 | 0.22 | | | | | |
| 321.00 | 13 | - 0.266 | 1.339 | 0.279 | | | | | |
| 321.30 | 25 | 0.024 | 2.786 | 0.473 | | | | | |
| 321.99 | 4 | 0.000 | 0.967 | 0.416 | | | | | |
| 321.XX | 41 | 0.009 | 1.768 | 0.330 | | | | | |