

- Pass 1 Results for 78 Labs - - Pass 2 Results for 78 Labs -

| Method | AOAC Ref. | Method Code | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups |
|---|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Ammoniacal Nitrogen, MgO Distillation | 920.03 | 001.10 | 6 | 4.21 | 0.19 | 0.03 | 6 | 4.21 | 0.19 | 0.03 |
| Ammoniacal Nitrogen, Other | | 001.99 | 10 | 4.20 | 0.11 | 0.04 | 9 | 4.22 | 0.09 | 0.02 |
| Method Group 001.XX PCT | | | 16 | 4.20 | 0.14 | 0.04 | 15 | 4.22 | 0.14 | 0.03 |
| Nitrate Nitrogen, Jones Modified | 930.02 | 002.20 | 4 | 4.34 | 0.62 | 0.19 | 4 | 4.34 | 0.62 | 0.19 |
| Nitrate Nitrogen, Other | | 002.99 | 7 | 4.18 | 0.29 | 0.14 | 7 | 4.18 | 0.29 | 0.14 |
| Method Group 002.XX PCT | | | 11 | 4.24 | 0.43 | 0.15 | 11 | 4.24 | 0.43 | 0.15 |
| Ammon & Nitrate N, Devarda | 892.01 | 009.10 | 6 | 7.60 | 1.52 | 0.06 | 6 | 7.60 | 1.52 | 0.06 |
| Ammon & Nitrate N, Other | | 009.99 | 1 | 8.28 | 0.07 | 0.10 | 1 | 8.28 | 0.07 | 0.10 |
| Method Group 009.XX PCT | | | 7 | 7.70 | 1.42 | 0.06 | 7 | 7.70 | 1.42 | 0.06 |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 5 | 8.10 | 0.18 | 0.09 | 4 | 8.15 | 0.15 | 0.02 |
| Total Nitrogen, Salicylic | 955.04D | 010.12 | 5 | 8.21 | 0.36 | 0.10 | 6 | 8.08 | 0.46 | 0.12 |
| Total Nitrogen, Comprehensive | 970.02 | 010.17 | 1 | 7.97 | 0.01 | 0.02 | 1 | 7.97 | 0.01 | 0.02 |
| Total Nitrogen, Combustion | | 010.60 | 51 | 8.32 | 0.20 | 0.08 | 49 | 8.32 | 0.20 | 0.07 |
| Total Nitrogen, Other | | 010.99 | 2 | 8.27 | 0.05 | 0.05 | 2 | 8.27 | 0.05 | 0.05 |
| Method Group 010.XX PCT | | | 64 | 8.29 | 0.22 | 0.08 | 61 | 8.30 | 0.22 | 0.07 |
| Total Phosphate, Grav Quimociac | 962.02 | 020.10 | 8 | 7.93 | 0.22 | 0.11 | 7 | 7.96 | 0.19 | 0.06 |
| Total Phosphate, Spectrometric | 958.01 | 020.20 | 14 | 7.97 | 0.16 | 0.05 | 14 | 7.97 | 0.16 | 0.05 |
| Total Phosphate, Automated | 978.01 | 020.40 | 7 | 7.83 | 0.08 | 0.06 | 7 | 7.83 | 0.08 | 0.06 |
| Total Phosphate, ICP | | 020.50 | 12 | 7.97 | 0.24 | 0.08 | 11 | 7.97 | 0.25 | 0.06 |
| Total Phosphate, Other | | 020.99 | 1 | 8.60 | 0.00 | 0.00 | 1 | 8.60 | 0.00 | 0.00 |
| Method Group 020.XX PCT | | | 42 | 7.96 | 0.22 | 0.07 | 40 | 7.96 | 0.22 | 0.06 |
| Insoluble Phosphate, Grav Quimociac | 963.03C | 030.10 | 1 | 0.01 | 0.00 | 0.00 | 1 | 0.01 | 0.00 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 1 | 0.04 | 0.00 | 0.00 | 1 | 0.04 | 0.00 | 0.00 |
| Insoluble Phosphate, Other | | 030.99 | 1 | 0.08 | 0.01 | 0.01 | 1 | 0.08 | 0.01 | 0.01 |
| Method Group 030.XX PCT | | | 3 | 0.05 | 0.03 | 0.00 | 3 | 0.05 | 0.03 | 0.00 |
| InDir Available Phosphate, Grav Quim .. | 960.02 | 040.10 | 1 | 7.86 | 0.01 | 0.02 | 1 | 7.86 | 0.01 | 0.02 |
| InDir Available Phosphate, Automated .. | 960.02 | 040.40 | 1 | 7.86 | 0.04 | 0.05 | 1 | 7.86 | 0.04 | 0.05 |
| InDir Available Phosphate, ICP | | 040.50 | 1 | 7.60 | 0.02 | 0.03 | 1 | 7.60 | 0.02 | 0.03 |
| InDir Available Phosphate, Other | | 040.99 | 1 | 8.10 | 0.00 | 0.00 | 1 | 8.10 | 0.00 | 0.00 |
| Method Group 040.XX PCT | | | 4 | 7.85 | 0.19 | 0.03 | 4 | 7.85 | 0.19 | 0.03 |
| Dir Available Phosphate, Grav Quimociac | 960.03E | 041.10 | 11 | 7.81 | 0.09 | 0.06 | 11 | 7.81 | 0.09 | 0.06 |
| Dir Available Phosphate, Spectrometric | 960.03D | 041.20 | 2 | 7.97 | 0.27 | 0.30 | 2 | 7.97 | 0.27 | 0.30 |
| Dir Available Phosphate, Automated | 978.01 | 041.40 | 3 | 7.97 | 0.17 | 0.05 | 3 | 7.97 | 0.17 | 0.05 |
| Dir Available Phosphate, ICP | | 041.50 | 10 | 7.87 | 0.23 | 0.08 | 10 | 7.87 | 0.23 | 0.08 |
| Dir Available Phosphate, EDTA Extract | 993.01 | 041.60 | 9 | 7.85 | 0.12 | 0.08 | 9 | 7.85 | 0.12 | 0.08 |
| Dir Available Phosphate, Other | | 041.99 | 3 | 7.75 | 0.06 | 0.03 | 3 | 7.75 | 0.06 | 0.03 |
| Method Group 041.XX PCT | | | 38 | 7.85 | 0.17 | 0.08 | 37 | 7.85 | 0.17 | 0.07 |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 1 | 6.96 | 0.03 | 0.04 | 1 | 6.96 | 0.03 | 0.04 |
| Water Soluble Phosphate, ICP | | 048.50 | 1 | 6.27 | 0.05 | 0.07 | 1 | 6.27 | 0.05 | 0.07 |

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| Method | AOAC Ref. | Method Code | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups |
|-------------------------------------|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Water Soluble Phosphate, Other | | 048.99 | 1 | 6.13 | 0.00 | 0.00 | 1 | 6.13 | 0.00 | 0.00 |
| Method Group 048.XX PCT | | | 3 | 6.45 | 0.40 | 0.04 | 3 | 6.45 | 0.40 | 0.04 |
| Soluble Potash, STPB Oxalate | 958.02 | 050.00 | 11 | 24.27 | 0.30 | 0.12 | 10 | 24.33 | 0.24 | 0.08 |
| Soluble Potash, STPB Citrate | 969.04 | 050.10 | 1 | 24.58 | 0.04 | 0.06 | 1 | 24.58 | 0.04 | 0.06 |
| Soluble Potash, AA (Oxalate) | | 050.30 | 7 | 24.20 | 0.81 | 0.17 | 7 | 24.20 | 0.81 | 0.17 |
| Soluble Potash, AA (Citrate) | | 050.31 | 1 | 24.70 | 0.27 | 0.38 | 1 | 24.70 | 0.27 | 0.38 |
| Soluble Potash, ICP (Oxalate) | | 050.50 | 8 | 23.94 | 0.54 | 0.28 | 8 | 23.94 | 0.54 | 0.28 |
| Soluble Potash, ICP (Citrate) | | 050.51 | 10 | 24.37 | 0.68 | 0.29 | 9 | 24.34 | 0.69 | 0.19 |
| Soluble Potash, Flame (Oxalate) | 983.02(a) | 050.60 | 5 | 24.84 | 0.95 | 0.16 | 5 | 24.84 | 0.95 | 0.16 |
| Soluble Potash, Flame (Citrate) | 983.02(b) | 050.61 | 9 | 24.45 | 0.57 | 0.33 | 8 | 24.43 | 0.45 | 0.10 |
| Soluble Potash, Other | | 050.99 | 18 | 24.19 | 0.87 | 0.26 | 17 | 24.23 | 0.86 | 0.19 |
| Method Group 050.XX PCT | | | 70 | 24.29 | 0.71 | 0.23 | 67 | 24.29 | 0.70 | 0.17 |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 4 | 0.55 | 0.11 | 0.03 | 4 | 0.55 | 0.11 | 0.03 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 1 | 0.18 | 0.01 | 0.02 | 1 | 0.18 | 0.01 | 0.02 |
| Free Water, Other | | 060.99 | 2 | 2.11 | 0.97 | 0.06 | 2 | 2.11 | 0.97 | 0.06 |
| Method Group 060.XX PCT | | | 7 | 0.94 | 0.91 | 0.04 | 7 | 0.94 | 0.91 | 0.04 |
| Acid Soluble Calcium, AA | 945.04 | 101.00 | 11 | 1.15 | 0.09 | 0.03 | 11 | 1.15 | 0.09 | 0.03 |
| Acid Soluble Calcium, ICP | | 101.30 | 27 | 1.18 | 0.09 | 0.03 | 25 | 1.17 | 0.09 | 0.02 |
| Acid Soluble Calcium, Titrimetric | 945.03 | 101.70 | 1 | 1.29 | 0.03 | 0.04 | 1 | 1.29 | 0.03 | 0.04 |
| Method Group 101.XX PCT | | | 39 | 1.17 | 0.09 | 0.03 | 37 | 1.18 | 0.09 | 0.02 |
| Acid Soluble Magnesium, AA | 984.01 | 121.00 | 13 | 2.52 | 0.15 | 0.07 | 13 | 2.52 | 0.15 | 0.07 |
| Acid Soluble Magnesium, ICP | | 121.30 | 32 | 2.51 | 0.16 | 0.08 | 30 | 2.52 | 0.14 | 0.06 |
| Acid Soluble Magnesium, Titrimetric | 964.01 | 121.70 | 1 | 2.67 | 0.04 | 0.06 | 1 | 2.67 | 0.04 | 0.06 |
| Acid Soluble Magnesium, Other | | 121.99 | 2 | 2.60 | 0.05 | 0.07 | 2 | 2.60 | 0.05 | 0.07 |
| Method Group 121.XX PCT | | | 48 | 2.52 | 0.15 | 0.08 | 46 | 2.53 | 0.14 | 0.06 |
| Water Soluble Magnesium, AA | | 131.00 | 2 | 2.09 | 0.06 | 0.05 | 2 | 2.09 | 0.06 | 0.05 |
| Water Soluble Magnesium, ICP | | 131.30 | 1 | 2.48 | 0.01 | 0.02 | 1 | 2.48 | 0.01 | 0.02 |
| Water Soluble Magnesium, Other | | 131.99 | 1 | 2.35 | 0.03 | 0.04 | 1 | 2.35 | 0.03 | 0.04 |
| Method Group 131.XX PCT | | | 4 | 2.25 | 0.19 | 0.04 | 4 | 2.25 | 0.19 | 0.04 |
| Sulfur, Gravimetric | 980.02a | 144.01 | 13 | 9.74 | 0.27 | 0.09 | 12 | 9.75 | 0.28 | 0.06 |
| Sulfur, Gravimetric | 980.02b | 144.02 | 1 | 9.75 | 0.08 | 0.11 | 1 | 9.75 | 0.08 | 0.11 |
| Sulfur, Other | | 144.99 | 24 | 9.44 | 0.44 | 0.20 | 22 | 9.41 | 0.41 | 0.12 |
| Method Group 144.XX PCT | | | 38 | 9.55 | 0.41 | 0.16 | 35 | 9.56 | 0.38 | 0.09 |
| Arsenic, ICP | | 151.30 | 6 | 3.24 | 3.19 | 0.22 | 5 | 3.22 | 3.52 | 0.07 |
| Arsenic, Other | | 151.99 | 1 | 1.84 | 0.02 | 0.03 | 1 | 1.84 | 0.02 | 0.03 |
| Method Group 151.XX PPM | | | 7 | 3.04 | 2.98 | 0.19 | 6 | 2.99 | 3.23 | 0.06 |
| Acid Soluble Boron, Spectrometric | 982.01 | 165.00 | 6 | 0.046 | 0.005 | 0.002 | 6 | 0.046 | 0.005 | 0.002 |
| Acid Soluble Boron, Other | | 165.99 | 21 | 0.046 | 0.005 | 0.002 | 20 | 0.046 | 0.005 | 0.001 |
| Method Group 165.XX PCT | | | 27 | 0.046 | 0.005 | 0.002 | 26 | 0.046 | 0.005 | 0.001 |

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|--|-----------|-------------|-------------|------------|-----------|-----------------------|-------------|------------|-----------|-----------------------|
| Water Soluble Boron, Other | | 171.99 | 1 | 0.045 | 0.001 | 0.001 | 1 | 0.045 | 0.001 | 0.001 |
| Cadmium, ICP | | 181.30 | 12 | 1.69 | 0.35 | 0.13 | 10 | 1.70 | 0.36 | 0.04 |
| Cadmium, Other | | 181.99 | 1 | 1.61 | 0.07 | 0.10 | 1 | 1.61 | 0.07 | 0.10 |
| Method Group 181.XX PPM | | | 13 | 1.68 | 0.34 | 0.13 | 11 | 1.69 | 0.35 | 0.05 |
| Water Soluble Chlorine, Titrimetric | 928.02 | 190.00 | 6 | 3.80 | 0.11 | 0.02 | 6 | 3.80 | 0.11 | 0.02 |
| Water Soluble Chlorine, Other | | 190.99 | 5 | 3.53 | 0.82 | 0.09 | 5 | 3.53 | 0.82 | 0.09 |
| Method Group 190.XX PCT | | | 12 | 3.75 | 0.60 | 0.11 | 11 | 3.68 | 0.56 | 0.05 |
| Chromium, ICP | | 191.30 | 13 | 90.51 | 10.21 | 3.57 | 12 | 91.64 | 9.52 | 2.54 |
| Method Group 191.XX PPM | | | 13 | 90.51 | 10.21 | 3.57 | 12 | 91.64 | 9.52 | 2.54 |
| Acid Soluble Cobalt, ICP | 965.11 | 202.30 | 16 | 29.45 | 12.55 | 2.39 | 15 | 30.48 | 12.22 | 1.90 |
| Acid Soluble Cobalt, Other | | 202.99 | 1 | 11.26 | 1.23 | 1.74 | 1 | 11.26 | 1.23 | 1.74 |
| Method Group 202.XX PPM | | | 17 | 28.38 | 12.92 | 2.35 | 16 | 29.28 | 12.73 | 1.89 |
| Acid Soluble Copper, Atomic Absorption | 975.01 | 221.00 | 2 | 0.0012 | 0.0002 | 0.0001 | 2 | 0.0012 | 0.0002 | 0.0001 |
| Acid Soluble Copper, ICP | | 221.30 | 18 | 0.0012 | 0.0006 | 0.0001 | 16 | 0.0011 | 0.0005 | 0.0001 |
| Acid Soluble Copper, Other | | 221.99 | 1 | 0.0009 | 0.0000 | 0.0000 | 1 | 0.0009 | 0.0000 | 0.0000 |
| Method Group 221.XX PCT | | | 21 | 0.0012 | 0.0006 | 0.0001 | 19 | 0.0011 | 0.0004 | 0.0001 |
| Acid Soluble Iron, Atomic Absorption | 980.01 | 241.00 | 11 | 0.26 | 0.02 | 0.01 | 11 | 0.26 | 0.02 | 0.01 |
| Acid Soluble Iron, ICP | | 241.30 | 33 | 0.26 | 0.02 | 0.01 | 31 | 0.26 | 0.02 | 0.01 |
| Acid Soluble Iron, Other | | 241.99 | 1 | 0.33 | 0.00 | 0.00 | 1 | 0.33 | 0.00 | 0.00 |
| Method Group 241.XX PCT | | | 45 | 0.26 | 0.02 | 0.01 | 42 | 0.26 | 0.02 | 0.01 |
| Lead, ICP | | 251.30 | 9 | 2.12 | 0.59 | 0.13 | 9 | 2.12 | 0.59 | 0.13 |
| Lead, Other | | 251.99 | 1 | 1.47 | 0.02 | 0.03 | 1 | 1.47 | 0.02 | 0.03 |
| Method Group 251.XX PPM | | | 10 | 2.06 | 0.59 | 0.12 | 10 | 2.06 | 0.59 | 0.12 |
| Acid Soluble Manganese, AA | 972.02a | 261.00 | 9 | 0.266 | 0.018 | 0.010 | 9 | 0.266 | 0.018 | 0.010 |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 31 | 0.263 | 0.017 | 0.012 | 29 | 0.263 | 0.017 | 0.009 |
| Acid Soluble Manganese, Other | 972.02b | 261.31 | 1 | 0.281 | 0.001 | 0.002 | 1 | 0.281 | 0.001 | 0.002 |
| Acid Soluble Manganese, Other | | 261.99 | 3 | 0.259 | 0.041 | 0.011 | 3 | 0.259 | 0.041 | 0.011 |
| Method Group 261.XX PCT | | | 45 | 0.263 | 0.021 | 0.012 | 42 | 0.264 | 0.019 | 0.009 |
| Mercury, Atomic Absorption | | 281.00 | 1 | 0.01 | 0.00 | 0.00 | 1 | 0.01 | 0.00 | 0.00 |
| Mercury, ICP | | 281.30 | 2 | 4.47 | 5.16 | 0.07 | 2 | 4.47 | 5.16 | 0.07 |
| Method Group 281.XX PPM | | | 3 | 2.98 | 4.61 | 0.05 | 3 | 2.98 | 4.61 | 0.05 |
| Molybdenum, ICP | | 289.30 | 13 | 7.21 | 0.69 | 0.38 | 12 | 7.16 | 0.66 | 0.30 |
| Method Group 289.XX PPM | | | 13 | 7.21 | 0.69 | 0.38 | 12 | 7.16 | 0.66 | 0.30 |
| Nickel, ICP | | 291.30 | 15 | 37.33 | 4.69 | 1.81 | 14 | 37.85 | 4.27 | 1.36 |
| Method Group 291.XX PPM | | | 15 | 37.33 | 4.69 | 1.81 | 14 | 37.85 | 4.27 | 1.36 |
| Selenium, ICP | | 301.30 | 3 | 3.88 | 4.12 | 0.53 | 3 | 3.88 | 4.12 | 0.53 |
| Selenium, Other | | 301.99 | 1 | 0.44 | 0.03 | 0.04 | 1 | 0.44 | 0.03 | 0.04 |
| Method Group 301.XX PPM | | | 4 | 3.02 | 3.83 | 0.41 | 3 | 3.12 | 4.50 | 0.08 |
| Sodium, Other | | 311.99 | 7 | 1.25 | 0.08 | 0.04 | 7 | 1.25 | 0.08 | 0.04 |

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|---|-----------|-------------|--------------------------------|------------|-----------|--------------------------------|-------------|------------|-----------|-----------------------|
| | | | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups |
| Acid Soluble Zinc, Atomic Absorption .. | 975.02 | 321.00 | 11 | 0.168 | 0.006 | 0.007 | 11 | 0.168 | 0.006 | 0.007 |
| Acid Soluble Zinc, ICP | | 321.30 | 29 | 0.168 | 0.010 | 0.005 | 29 | 0.168 | 0.010 | 0.005 |
| Method Group 321.XX PCT | | | 40 | 0.168 | 0.009 | 0.005 | 40 | 0.168 | 0.009 | 0.005 |
| Water Soluble Zinc, ICP | | 325.30 | 2 | 0.162 | 0.024 | 0.012 | 2 | 0.162 | 0.024 | 0.012 |
| Water Soluble Zinc, Other | | 325.99 | 2 | 0.160 | 0.008 | 0.010 | 2 | 0.160 | 0.008 | 0.010 |
| Method Group 325.XX PCT | | | 4 | 0.161 | 0.016 | 0.011 | 4 | 0.161 | 0.016 | 0.011 |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | | | |
|---|----------|-------|-------------------|----------|-------|-----|----------|-------|------------------|----------|--------|------------------|--------|-------|
| Meth: 001.10 PCT | | | | | | | | | | | | | | |
| Ammoniacal Nitrogen | | | | | | | | | | | | | | |
| MgO Distillation | | | | | | | | | | | | | | |
| 415 | 4.51 | 1.58 | 419 | 4.15 | -.52 | 027 | 4.11 | -.29 | 105 | 8.32 | 1.21 | | | |
| 444 | 4.30 | .53 | 027 | 4.10 | -.90 | 117 | 4.06 | -.49 | 211 | 8.22 | .49 | | | |
| 232 | 4.24 | .17 | 420 | 4.07 | -1.14 | 029 | 4.00 | -.59 | Avg | 8.15 | | | | |
| 090 | 4.22 | .06 | 470 | 4.04 | -1.35 | 232 | 4.00 | -.61 | 416 | 8.08 X | -.46 | | | |
| Avg | 4.21 | | 368 | 4.01 R | -1.63 | 470 | 3.97 | -.61 | 460 | 7.97 | -1.26 | | | |
| 470 | 4.04 | -.93 | 230 | 3.96 | -1.93 | 393 | 3.97 X | -.62 | 260 | 7.91 R | -1.98 | | | |
| 230 | 3.96 | -1.35 | Meth: 002.20 PCT | | | | | | | | | 275 | 8.43 | .59 |
| Meth: 001.99 PCT | | | | | | | | | | | | | | |
| Ammoniacal Nitrogen | | | | | | | | | | | | | | |
| Jones Modified | | | | | | | | | | | | | | |
| 230 | 5.33 | 1.61 | Meth: 009.10 PCT | | | | | | | | | 035 | 8.38 | .54 |
| 393 | 4.77 s | 6.00 | Ammon & Nitrate N | | | | | | | | | 049 | 8.41 | .50 |
| 300 | 4.30 | .83 | Devarda | | | | | | | | | 292 | 8.41 | .44 |
| 371 | 4.30 | .82 | 444 | 8.53 | .61 | 397 | 8.30 | .46 | 254 | 8.75 | 1.45 | | | |
| 096 | 4.30 | .82 | 090 | 8.23 | .41 | 090 | 8.23 | .41 | 351 | 8.25 | .38 | | | |
| 397 | 4.28 | .65 | 169 | 8.21 | .40 | 470 | 8.00 | .26 | 117 | 8.20 | .32 | | | |
| 105 | 4.27 | .54 | 470 | 3.97 | -.59 | Avg | 7.60 | | 185 | 8.20 | .30 | | | |
| 169 | 4.24 | .24 | Meth: 002.99 PCT | | | | | | | | | 009 | 8.34 | .09 |
| Avg | 4.22 | | Nitrate Nitrogen | | | | | | | | | 037 | 8.33 | .09 |
| 419 | 4.15 | -.83 | Other | | | | | | | | | Avg | 8.32 | |
| 027 | 4.10 | -1.39 | 137 | 7.86 s | 12.91 | 137 | 7.86 s | 12.91 | Meth: 010.17 PCT | | | 420 | 8.32 | -.04 |
| 420 | 4.07 | -1.75 | 368 | 4.78 | 2.22 | 368 | 4.78 | 2.22 | Total Nitrogen | | | 402 | 8.31 | -.10 |
| 368 | 4.01 R | -2.49 | 444 | 4.23 | .19 | 444 | 4.23 | .19 | Comprehensive | | | 324 | 8.31 | -.12 |
| Meth: 001.99 PCT | | | | | | | | | | | | 040 | 8.29 | -.19 |
| Ammoniacal Nitrogen | | | | | | | | | | | | 034 | 8.32 | -.21 |
| 393 | 4.77 s | 4.05 | Meth: 009.99 PCT | | | | | | | | | 177 | 8.27 | -.27 |
| 415 | 4.51 | 2.15 | Ammon & Nitrate N | | | | | | | | | 325 | 8.26 | -.32 |
| 444 | 4.30 | .69 | 444 | 8.53 | .58 | 444 | 8.53 | .58 | Total Nitrogen | | | 234 | 8.25 | -.38 |
| 300 | 4.30 | .59 | 397 | 8.30 | .42 | 397 | 8.30 | .42 | Combusition | | | 233 | 8.22 | -.52 |
| 371 | 4.30 | .58 | 105 | 8.28 | .41 | 105 | 8.28 | .41 | 029 | 32.43 s | 121.23 | 027 | 8.22 | -.54 |
| 096 | 4.30 | .58 | 090 | 8.23 | .37 | 090 | 8.23 | .37 | 354 | 18.60 s | 51.68 | 419 | 8.29 | -.58 |
| 397 | 4.28 | .47 | 169 | 8.21 | .36 | 169 | 8.21 | .36 | 043 | 8.80 | 2.41 | 232 | 8.20 | -.68 |
| 105 | 4.27 | .40 | 470 | 8.00 | .21 | 470 | 8.00 | .21 | 428 | 8.79 | 2.36 | 307 | 8.20 | -.74 |
| 232 | 4.24 | .20 | Meth: 002.99 PCT | | | | | | | | | 423 | 8.19 | -.76 |
| 169 | 4.24 | .19 | Nitrate Nitrogen | | | | | | | | | 390 | 8.28 R | -.88 |
| 090 | 4.22 | .03 | 137 | 7.86 s | 8.39 | Avg | 7.70 | | 393 | 8.78 | 2.30 | 450 | 8.15 | -.91 |
| Meth: 002.20 PCT | | | | | | | | | | | | 007 | 8.50 | 1.02 |
| Nitrate Nitrogen | | | | | | | | | | | | 073 | 8.51 | .94 |
| 230 | 5.33 | 2.56 | Meth: 009.10 PCT | | | | | | | | | 230 | 8.50 | .88 |
| 368 | 4.78 | 1.34 | Ammon & Nitrate N | | | | | | | | | 096 | 8.48 | .81 |
| Avg | 4.24 | | 117 | 4.37 | -2.35 | 117 | 4.37 | -2.35 | Total Nitrogen | | | 368 | 8.08 | -1.27 |
| 444 | 4.24 | .20 | Meth: 002.99 PCT | | | | | | | | | Meth: 010.60 PCT | | |
| 169 | 4.24 | .19 | Nitrate Nitrogen | | | | | | | | | Total Nitrogen | | |
| 090 | 4.22 | .03 | Other | | | | | | | | | Combusition | | |
| * 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 |
|------------------|----------|--------|-----|----------|-------|-----|----------|-------|-----|----------|-------|
| Meth: 010.60 PCT | | | | | | | | | | | |
| Total Nitrogen | | | | | | | | | | | |
| Combustion | | | | | | | | | | | |
| 023 | 8.07 | -1.30 | | | | | | | | | |
| 157 | 8.06 | -1.38 | | | | | | | | | |
| 086 | 8.09 R | -1.56 | | | | | | | | | |
| 018 | 8.01 | -1.58 | | | | | | | | | |
| 406 | 8.00 | -1.65 | | | | | | | | | |
| 042 | 8.00 | -1.70 | | | | | | | | | |
| 389 | 7.97 | -1.80 | | | | | | | | | |
| 360 | 7.49 s | -4.22 | | | | | | | | | |
| Meth: 010.99 PCT | | | | | | | | | | | |
| Total Nitrogen | | | | | | | | | | | |
| Other | | | | | | | | | | | |
| 300 | 8.30 | .81 | | | | | | | | | |
| Avg | 8.27 | -.92 | | | | | | | | | |
| 105 | 8.23 | -.92 | | | | | | | | | |
| 030 | 7.92 S | -15.92 | | | | | | | | | |
| Meth: 010.10 PCT | | | | | | | | | | | |
| Total Phosphate | | | | | | | | | | | |
| Grav Quimociac | | | | | | | | | | | |
| 114 | 8.33 | 1.89 | | | | | | | | | |
| 444 | 8.15 | 1.01 | | | | | | | | | |
| Avg | 7.96 | -.23 | | | | | | | | | |
| 470 | 7.89 | -.41 | | | | | | | | | |
| 117 | 7.89 | -.43 | | | | | | | | | |
| 090 | 7.87 | -.49 | | | | | | | | | |
| 105 | 7.84 | -.64 | | | | | | | | | |
| 041 | 7.79 | -.95 | | | | | | | | | |
| 157 | 7.73 R | -1.76 | | | | | | | | | |
| Meth: 020.10 PCT | | | | | | | | | | | |
| Total Phosphate | | | | | | | | | | | |
| 040 | 8.29 | -.05 | | | | | | | | | |
| 177 | 8.27 | -.12 | | | | | | | | | |
| 325 | 8.26 | -.17 | | | | | | | | | |
| 351 | 8.25 | -.21 | | | | | | | | | |
| 234 | 8.25 | -.23 | | | | | | | | | |
| 105 | 8.23 | -.33 | | | | | | | | | |
| 211 | 8.22 | -.35 | | | | | | | | | |
| 233 | 8.22 | -.36 | | | | | | | | | |
| 027 | 8.22 | -.37 | | | | | | | | | |
| 232 | 8.20 | -.51 | | | | | | | | | |
| 419 | 8.29 | -.51 | | | | | | | | | |
| 185 | 8.20 | -.52 | | | | | | | | | |
| 307 | 8.20 | -.57 | | | | | | | | | |
| 117 | 8.20 | -.57 | | | | | | | | | |
| 423 | 8.19 | -.59 | | | | | | | | | |
| 136 | 8.46 | .74 | | | | | | | | | |
| 377 | 8.46 | .74 | | | | | | | | | |
| 296 | 8.45 | .69 | | | | | | | | | |
| 024 | 8.44 | .67 | | | | | | | | | |
| 095 | 8.43 | .67 | | | | | | | | | |
| 275 | 8.43 | .66 | | | | | | | | | |
| Meth: 010.20 PCT | | | | | | | | | | | |
| Total Phosphate | | | | | | | | | | | |
| Spectrometric | | | | | | | | | | | |
| 234 | 8.00 | .40 | | | | | | | | | |
| 371 | 7.99 | .20 | | | | | | | | | |
| 406 | 7.98 | .17 | | | | | | | | | |
| Avg | 7.97 | | | | | | | | | | |
| 419 | 7.89 | -.52 | | | | | | | | | |
| 450 | 7.90 | -.55 | | | | | | | | | |
| 416 | 7.88 X | -.59 | | | | | | | | | |
| 169 | 7.77 | -1.29 | | | | | | | | | |
| 420 | 7.57 | -2.46 | | | | | | | | | |
| 324 | 3.45 s | -27.81 | | | | | | | | | |
| Meth: 020.40 PCT | | | | | | | | | | | |
| Total Phosphate | | | | | | | | | | | |
| Automated | | | | | | | | | | | |
| 470 | 7.94 | 1.34 | | | | | | | | | |
| 096 | 7.90 | .83 | | | | | | | | | |
| 095 | 7.88 | .55 | | | | | | | | | |
| 105 | 7.85 | .46 | | | | | | | | | |
| Avg | 7.83 | | | | | | | | | | |
| 247 | 7.76 | -.99 | | | | | | | | | |
| 035 | 7.78 | -1.01 | | | | | | | | | |
| 042 | 7.75 | -1.22 | | | | | | | | | |
| Meth: 020.50 PCT | | | | | | | | | | | |
| Total Phosphate | | | | | | | | | | | |
| ICP | | | | | | | | | | | |
| 247 | 8.36 | 1.56 | | | | | | | | | |
| 086 | 8.20 | .92 | | | | | | | | | |
| 393 | 8.15 | .70 | | | | | | | | | |
| 402 | 8.10 | .53 | | | | | | | | | |
| 231 | 8.10 | .64 | | | | | | | | | |
| 423 | 8.09 | .47 | | | | | | | | | |
| 368 | 7.98 | .06 | | | | | | | | | |
| Avg | 7.97 | | | | | | | | | | |
| 231 | 7.88 | -.39 | | | | | | | | | |
| 389 | 7.88 | -.39 | | | | | | | | | |
| 390 | 7.91 | -.47 | | | | | | | | | |
| 157 | 7.96 R | -.60 | | | | | | | | | |
| Meth: 020.99 PCT | | | | | | | | | | | |
| Total Phosphate | | | | | | | | | | | |
| ICP | | | | | | | | | | | |
| 444 | 8.15 | .92 | | | | | | | | | |
| 460 | 8.15 | .90 | | | | | | | | | |
| 393 | 8.15 | .85 | | | | | | | | | |
| 292 | 8.12 | .71 | | | | | | | | | |
| 402 | 8.10 | .66 | | | | | | | | | |
| 231 | 8.10 | .64 | | | | | | | | | |
| 423 | 8.09 | .58 | | | | | | | | | |
| 232 | 8.06 | .46 | | | | | | | | | |
| 415 | 8.06 | .45 | | | | | | | | | |
| 234 | 8.00 | .33 | | | | | | | | | |
| 371 | 7.99 | .19 | | | | | | | | | |
| 406 | 7.98 | .16 | | | | | | | | | |
| 368 | 7.98 | .10 | | | | | | | | | |

* 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 | |
|-------------------------|----------|--------|----------------------|----------|-------|-----|----------|-------|-----|----------|----------------------|------------------|
| Meth: 050.XX PCT | | | | | | | | | | | | |
| <u>Soluble Potash</u> | | | | | | | | | | | | |
| 049 | 23.98 | -.48 | | | | | | | | | | Meth: 101.30 PCT |
| 443 | 24.02 | -.52 | 324 | 1.44 s | 3.78 | | | | | | Acid Soluble Calcium | |
| 234 | 23.90 | -.57 | 433 | 1.43 | 2.92 | | | | | | ICP | |
| 460 | 23.77 | -.75 | 450 | 1.32 R | 1.70 | | | | | | Meth: 101.99 PCT | |
| 324 | 23.80 | -.77 | 231 | 1.29 | 1.31 | | | | | | Acid Soluble Calcium | |
| 137 | 23.71 | -.84 | 114 | 1.26 | .94 | | | | | | Other | |
| 035 | 23.69 | -.87 | 096 | 1.24 | .77 | | | | | | 137 | |
| 102 | 23.69 | -.93 | 037 | 1.24 | .75 | | | | | | 1.51 s | |
| 368 | 23.61 | -.99 | 360 | 1.22 | .51 | | | | | | Meth: 101.XX PCT | |
| 073 | 23.61 | -1.00 | 131 | 1.22 | .49 | | | | | | Acid Soluble Calcium | |
| 096 | 23.57 | -1.04 | 247 | 1.21 | .48 | | | | | | 049 | |
| 423 | 23.35 | -1.37 | 009 | 1.21 | .42 | | | | | | 2.97 s | |
| 325 | 23.25 | -1.51 | 416 | 1.20 | .26 | | | | | | 19.89 | |
| 307 | 23.50 R | -1.52 | 007 | 1.18 | .24 | | | | | | 8.60 | |
| 419 | 23.22 | -1.56 | 419 | 1.19 | .22 | | | | | | 3.99 | |
| 042 | 23.10 | -1.71 | Avg | 1.17 | -.10 | | | | | | 3.70 | |
| 351 | 23.09 | -1.75 | Meth: 101.00 PCT | 1.17 | -.10 | | | | | | 3.67 | |
| 444 | 23.05 | -1.81 | 354 | 1.17 | -.10 | | | | | | 2.81 | |
| 451 | 22.42 | -2.70 | 419 | 1.16 | -.14 | | | | | | 1.61 | |
| 390 | 22.15 s | -3.26 | 090 | 1.16 | -.18 | | | | | | 1.27 | |
| 428 | 19.90 s | -6.43 | 368 | 1.15 | -.24 | | | | | | 0.96 | |
| 230 | 5.37 s | -27.16 | 086 | 1.13 | -.52 | | | | | | 0.71 s | |
| Meth: 060.00 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 247 | 0.68 | 1.15 | 389 | 1.13 | -.61 | | | | | | 0.97 | |
| 096 | 0.60 | .47 | 035 | 1.12 | -.65 | | | | | | 0.96 | |
| Avg | 0.55 | | 102 | 1.12 | -.65 | | | | | | 0.71 s | |
| 416 | 0.52 X | -.32 | 095 | 1.11 | -.68 | | | | | | 0.96 | |
| 007 | 0.41 | -1.36 | 157 | 1.11 | -.72 | | | | | | 0.71 s | |
| <u>Vacuum Oven</u> | | | | | | | | | | | | |
| 247 | 0.68 | 1.15 | 307 | 1.16 R | -.87 | | | | | | 0.71 s | |
| 096 | 0.60 | .47 | 232 | 1.09 | -.97 | | | | | | 0.71 s | |
| Avg | 0.55 | | 023 | 1.05 | -1.38 | | | | | | 0.71 s | |
| 416 | 0.52 X | -.32 | 230 | 0.96 | -2.39 | | | | | | 0.71 s | |
| 007 | 0.41 | -1.36 | 041 | 0.71 s | -5.31 | | | | | | 0.71 s | |
| Meth: 060.10 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | Meth: 101.70 PCT | 1.16 | -.22 | | | | | | 0.71 s | |
| <u>Vacuum Desiccate</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | Acid Soluble Calcium | 1.16 | -.25 | | | | | | 0.71 s | |
| Meth: 060.99 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 443 | 2.95 | .87 | ICP | 1.29 | -.71 | | | | | | 0.71 s | |
| Avg | 2.11 | | 415 | 1.29 | -.71 | | | | | | 0.71 s | |
| 420 | 1.27 | -.86 | 049 | 2.97 s | 19.89 | | | | | | 0.71 s | |
| Meth: 060.XX PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 443 | 2.95 | 2.21 | 117 | 1.95 s | 8.60 | | | | | | 0.71 s | |
| 420 | 1.27 | .36 | 432 | 1.51 s | 3.99 | | | | | | 0.71 s | |
| Avg | 0.94 | | 137 | 1.51 s | 3.70 | | | | | | 0.71 s | |
| 247 | 0.68 | -.29 | 324 | 1.44 s | 3.67 | | | | | | 0.71 s | |
| 096 | 0.60 | -.38 | 433 | 1.43 | 2.81 | | | | | | 0.71 s | |
| 416 | 0.52 X | -.47 | 450 | 1.32 | 1.61 | | | | | | 0.71 s | |
| 007 | 0.41 | -.59 | 415 | 1.29 | 1.27 | | | | | | 0.71 s | |
| 419 | 0.18 | -.84 | 231 | 1.29 | 1.23 | | | | | | 0.71 s | |
| 042 | 23.10 | -1.71 | 114 | 1.26 | .87 | | | | | | 0.71 s | |
| 351 | 23.09 | -1.75 | 073 | 1.25 | .76 | | | | | | 0.71 s | |
| 444 | 23.05 | -1.81 | 105 | 1.24 | .71 | | | | | | 0.71 s | |
| 451 | 22.42 | -2.70 | 096 | 1.24 | .70 | | | | | | 0.71 s | |
| 390 | 22.15 s | -3.26 | 177 | 1.24 | .69 | | | | | | 0.71 s | |
| 428 | 19.90 s | -6.43 | 037 | 1.24 | .68 | | | | | | 0.71 s | |
| 230 | 5.37 s | -27.16 | 055 | 1.22 | .49 | | | | | | 0.71 s | |
| Meth: 060.00 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 296 | 1.21 | .64 | 360 | 1.22 | .45 | | | | | | 0.71 s | |
| 028 | 1.16 | .07 | 247 | 1.21 | .43 | | | | | | 0.71 s | |
| Avg | 1.15 | | 131 | 1.22 | .43 | | | | | | 0.71 s | |
| 351 | 1.14 | -.22 | 296 | 1.21 | .37 | | | | | | 0.71 s | |
| 043 | 1.13 | -.41 | 009 | 1.21 | .36 | | | | | | 0.71 s | |
| 157 | 1.10 | -.68 | 390 | 1.18 | .22 | | | | | | 0.71 s | |
| 029 | 1.03 | -1.44 | 423 | 1.20 | .21 | | | | | | 0.71 s | |
| 095 | 0.97 | -1.96 | 027 | 1.19 | .16 | | | | | | 0.71 s | |
| Meth: 101.30 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | Avg | 1.18 | -.15 | | | | | | 0.71 s | |
| <u>Vacuum Desiccate</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 354 | 1.17 | -.19 | | | | | | 0.71 s | |
| Meth: 101.10 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 419 | 1.16 | -.19 | | | | | | 0.71 s | |
| <u>Vacuum Desiccate</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 090 | 1.16 | -.22 | | | | | | 0.71 s | |
| Meth: 101.30 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 028 | 1.16 | -.25 | | | | | | 0.71 s | |
| <u>Vacuum Desiccate</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 368 | 1.15 | -.29 | | | | | | 0.71 s | |
| Meth: 121.30 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 351 | 1.14 | -.47 | | | | | | 0.71 s | |
| <u>Vacuum Desiccate</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 086 | 1.13 | -.57 | | | | | | 0.71 s | |
| Meth: 121.00 PCT | | | | | | | | | | | | |
| <u>Free Water</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 043 | 1.13 | -.62 | | | | | | 0.71 s | |
| <u>Vacuum Desiccate</u> | | | | | | | | | | | | |
| 419 | 0.18 | .71 | 043 | 1.13 | -.62 | | | | | | 0.71 s | |

* 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: 121.30 PCT | | | | | | | | | | | | | | |
| Acid Soluble Magnesi | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 041 | 2.87 | 2.43 | | | | | | | | | | | | |
| 247 | 2.81 | 2.01 | | | | | | | | | | | | |
| 009 | 2.65 | .96 | | | | | | | | | | | | |
| 432 | 2.63 | .95 | | | | | | | | | | | | |
| 114 | 2.65 | .93 | | | | | | | | | | | | |
| 324 | 2.52 | .69 | | | | | | | | | | | | |
| 027 | 2.61 | .65 | | | | | | | | | | | | |
| 450 | 2.58 | .48 | | | | | | | | | | | | |
| 368 | 2.59 | .47 | | | | | | | | | | | | |
| 360 | 2.58 | .43 | | | | | | | | | | | | |
| 096 | 2.58 | .43 | | | | | | | | | | | | |
| 354 | 2.54 | .37 | | | | | | | | | | | | |
| 131 | 2.56 | .36 | | | | | | | | | | | | |
| 037 | 2.56 | .32 | | | | | | | | | | | | |
| 444 | 2.53 | .25 | | | | | | | | | | | | |
| 433 | 2.55 | .25 | | | | | | | | | | | | |
| 423 | 2.54 | .17 | | | | | | | | | | | | |
| 390 | 2.52 | .14 | | | | | | | | | | | | |
| 231 | 2.53 | .06 | | | | | | | | | | | | |
| Avg | 2.52 | | | | | | | | | | | | | |
| 420 | 2.49 | -.23 | | | | | | | | | | | | |
| 419 | 2.47 | -.37 | | | | | | | | | | | | |
| 157 | 2.43 | -.69 | | | | | | | | | | | | |
| 307 | 2.47 | -.83 | | | | | | | | | | | | |
| 095 | 2.40 | -.89 | | | | | | | | | | | | |
| 023 | 2.38 | -1.05 | | | | | | | | | | | | |
| 086 | 2.36 | -1.07 | | | | | | | | | | | | |
| 232 | 2.36 | -1.12 | | | | | | | | | | | | |
| 102 | 2.43 R | -1.16 | | | | | | | | | | | | |
| 090 | 2.31 | -1.48 | | | | | | | | | | | | |
| 035 | 2.30 | -1.54 | | | | | | | | | | | | |
| 230 | 2.22 | -2.09 | | | | | | | | | | | | |
| 389 | 2.25 R | -2.53 | | | | | | | | | | | | |
| Meth: 121.70 PCT | | | | | | | | | | | | | | |
| Acid Soluble Magnesi | | | | | | | | | | | | | | |
| Titrimetric | | | | | | | | | | | | | | |
| 415 | 2.67 | .71 | | | | | | | | | | | | |
| Meth: 121.99 PCT | | | | | | | | | | | | | | |
| Acid Soluble Magnesi | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 137 | 4.28 S | 36.22 | | | | | | | | | | | | |
| 234 | 2.62 | .99 | | | | | | | | | | | | |
| Avg | 2.60 | | | | | | | | | | | | | |
| 460 | 2.58 | -.72 | | | | | | | | | | | | |
| Meth: 121.99 PCT | | | | | | | | | | | | | | |
| Acid Soluble Magnesi | | | | | | | | | | | | | | |
| 049 | 5.92 s | 23.84 | | | | | | | | | | | | |
| 137 | 4.28 s | 12.34 | | | | | | | | | | | | |
| 169 | 4.01 s | 10.44 | | | | | | | | | | | | |
| 117 | 3.87 s | 10.16 | | | | | | | | | | | | |
| 073 | 2.87 | 2.43 | | | | | | | | | | | | |
| 041 | 2.87 | 2.43 | | | | | | | | | | | | |
| 247 | 2.81 | 1.99 | | | | | | | | | | | | |
| 415 | 2.67 | 1.02 | | | | | | | | | | | | |
| 432 | 2.63 | .93 | | | | | | | | | | | | |
| 009 | 2.65 | .92 | | | | | | | | | | | | |
| 114 | 2.65 | .90 | | | | | | | | | | | | |
| 105 | 2.64 | .87 | | | | | | | | | | | | |
| 028 | 2.63 | .84 | | | | | | | | | | | | |
| 234 | 2.62 | .72 | | | | | | | | | | | | |
| 027 | 2.61 | .61 | | | | | | | | | | | | |
| 177 | 2.59 | .51 | | | | | | | | | | | | |
| 450 | 2.58 | .44 | | | | | | | | | | | | |
| 368 | 2.59 | .43 | | | | | | | | | | | | |
| 360 | 2.58 | .39 | | | | | | | | | | | | |
| 460 | 2.58 | .39 | | | | | | | | | | | | |
| 096 | 2.58 | .39 | | | | | | | | | | | | |
| 354 | 2.54 | .36 | | | | | | | | | | | | |
| 131 | 2.56 | .32 | | | | | | | | | | | | |
| 037 | 2.56 | .28 | | | | | | | | | | | | |
| 397 | 2.53 | .21 | | | | | | | | | | | | |
| Meth: 121.99 PCT | | | | | | | | | | | | | | |
| Water Soluble Magnesi | | | | | | | | | | | | | | |
| 027 | 2.48 | 1.23 | | | | | | | | | | | | |
| 230 | 2.35 | .71 | | | | | | | | | | | | |
| Meth: 131.30 PCT | | | | | | | | | | | | | | |
| Water Soluble Magnesi | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 027 | 2.48 | -.71 | | | | | | | | | | | | |
| Meth: 144.01 PCT | | | | | | | | | | | | | | |
| Sulfur | | | | | | | | | | | | | | |
| 055 | 10.31 | 2.00 | | | | | | | | | | | | |
| 043 | 10.09 | 1.22 | | | | | | | | | | | | |
| 296 | 9.92 | .67 | | | | | | | | | | | | |
| 102 | 9.85 X | .35 | | | | | | | | | | | | |
| 105 | 9.80 | .31 | | | | | | | | | | | | |
| Avg | 9.75 | | | | | | | | | | | | | |
| 029 | 9.73 | -.11 | | | | | | | | | | | | |
| 040 | 9.73 | -.23 | | | | | | | | | | | | |
| 324 | 9.68 | -.30 | | | | | | | | | | | | |
| 114 | 9.65 | -.41 | | | | | | | | | | | | |
| 028 | 9.60 | -.56 | | | | | | | | | | | | |
| 397 | 9.62 R | -.84 | | | | | | | | | | | | |
| 095 | 9.48 | -.97 | | | | | | | | | | | | |
| 444 | 9.22 | -1.94 | | | | | | | | | | | | |
| Meth: 144.02 PCT | | | | | | | | | | | | | | |
| Sulfur | | | | | | | | | | | | | | |
| 029 | 2.04 | -.84 | | | | | | | | | | | | |
| 030 | 2.13 | .89 | | | | | | | | | | | | |
| Avg | 2.09 | | | | | | | | | | | | | |
| 029 | 2.04 | -.84 | | | | | | | | | | | | |
| Meth: 144.99 PCT | | | | | | | | | | | | | | |
| Sulfur | | | | | | | | | | | | | | |
| 169 | 11.17 S | 4.27 | | | | | | | | | | | | |
| 230 | 9.96 R | 2.05 | | | | | | | | | | | | |
| 360 | 10.11 | 1.69 | | | | | | | | | | | | |
| 137 | 10.05 | 1.55 | | | | | | | | | | | | |
| 307 | 9.62 R | 1.23 | | | | | | | | | | | | |
| 157 | 9.77 | .87 | | | | | | | | | | | | |
| 049 | 9.73 | .79 | | | | | | | | | | | | |
| 177 | 9.72 | .75 | | | | | | | | | | | | |
| 086 | 9.58 | .60 | | | | | | | | | | | | |
| 423 | 9.65 | .59 | | | | | | | | | | | | |
| 247 | 9.56 | .46 | | | | | | | | | | | | |
| 275 | 9.55 X | .32 | | | | | | | | | | | | |
| 354 | 9.52 | .27 | | | | | | | | | | | | |
| 389 | 9.50 | .21 | | | | | | | | | | | | |
| 027 | 9.49 | .20 | | | | | | | | | | | | |
| 096 | 9.48 | .16 | | | | | | | | | | | | |
| 037 | 9.43 | .08 | | | | | | | | | | | | |
| Avg | 9.41 | | | | | | | | | | | | | |
| 009 | 9.41 | -.11 | | | | | | | | | | | | |
| 450 | 9.41 | -.16 | | | | | | | | | | | | |
| 390 | 9.09 | -.77 | | | | | | | | | | | | |
| 117 | 9.07 | -.85 | | | | | | | | | | | | |
| 232 | 8.95 | -1.12 | | | | | | | | | | | | |
| 368 | 8.84 | -1.55 | | | | | | | | | | | | |
| 023 | 8.64 | -1.94 | | | | | | | | | | | | |
| 393 | 8.56 | -2.08 | | | | | | | | | | | | |
| 040 | 8.60 S | -2.33 | | | | | | | | | | | | |
| 035 | 7.94 S | -3.60 | | | | | | | | | | | | |
| 419 | 6.54 s | -7.01 | | | | | | | | | | | | |
| Meth: 144.99 PCT | | | | | | | | | | | | | | |
| Sulfur | | | | | | | | | | | | | | |
| 169 | 11.17 s | 4.26 | | | | | | | | | | | | |
| 230 | 9.96 R | 2.00 | | | | | | | | | | | | |
| 055 | 10.31 | 1.97 | | | | | | | | | | | | |
| 360 | 10.11 | 1.44 | | | | | | | | | | | | |
| 043 | 10.09 | 1.40 | | | | | | | | | | | | |

* 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: 144.XX PCT | | | | | | | | | | | | | | |
| <u>Sulfur</u> | | | | | | | | | | | | | | |
| 137 | 10.05 | 1.30 | | | | | | | | | | | | |
| 307 | 9.62 R | 1.24 | | | | | | | | | | | | |
| 296 | 9.92 | .97 | | | | | | | | | | | | |
| 102 | 9.85 X | .77 | | | | | | | | | | | | |
| 105 | 9.80 | .65 | | | | | | | | | | | | |
| 157 | 9.77 | .55 | | | | | | | | | | | | |
| 397 | 9.62 | .51 | | | | | | | | | | | | |
| 292 | 9.75 | .51 | | | | | | | | | | | | |
| 086 | 9.58 | .49 | | | | | | | | | | | | |
| 049 | 9.73 | .47 | | | | | | | | | | | | |
| 029 | 9.73 | .47 | | | | | | | | | | | | |
| 040 | 9.73 | .46 | | | | | | | | | | | | |
| 177 | 9.72 | .42 | | | | | | | | | | | | |
| 324 | 9.68 | .31 | | | | | | | | | | | | |
| 423 | 9.65 | .28 | | | | | | | | | | | | |
| 114 | 9.65 | .24 | | | | | | | | | | | | |
| 028 | 9.60 | .11 | | | | | | | | | | | | |
| Avg | 9.56 | | | | | | | | | | | | | |
| 275 | 9.55 X | -.06 | | | | | | | | | | | | |
| 389 | 9.50 | -.16 | | | | | | | | | | | | |
| 354 | 9.52 | -.17 | | | | | | | | | | | | |
| 095 | 9.48 | -.20 | | | | | | | | | | | | |
| 027 | 9.49 | -.20 | | | | | | | | | | | | |
| 096 | 9.48 | -.22 | | | | | | | | | | | | |
| 247 | 9.56 | -.32 | | | | | | | | | | | | |
| 037 | 9.43 | -.36 | | | | | | | | | | | | |
| 009 | 9.41 | -.43 | | | | | | | | | | | | |
| 450 | 9.41 | -.45 | | | | | | | | | | | | |
| 444 | 9.22 | -.91 | | | | | | | | | | | | |
| 390 | 9.09 | -1.24 | | | | | | | | | | | | |
| 117 | 9.07 | -1.32 | | | | | | | | | | | | |
| 232 | 8.95 | -1.62 | | | | | | | | | | | | |
| 368 | 8.84 R | -2.05 | | | | | | | | | | | | |
| 023 | 8.64 | -2.49 | | | | | | | | | | | | |
| 393 | 8.56 | -2.66 | | | | | | | | | | | | |
| 040 | 8.60 s | -2.88 | | | | | | | | | | | | |
| 035 | 7.94 s | -4.31 | | | | | | | | | | | | |
| 419 | 6.54 s | -8.02 | | | | | | | | | | | | |
| Meth: 151.30 PPM | | | | | | | | | | | | | | |
| <u>Arsenic</u> | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 393 | 9.86 | 1.89 | | | | | | | | | | | | |
| 368 | 3.30 R | .14 | | | | | | | | | | | | |
| Avg | 3.22 | | | | | | | | | | | | | |
| 230 | 1.99 | -.35 | | | | | | | | | | | | |
| 390 | 1.90 | -.38 | | | | | | | | | | | | |
| 102 | 1.37 | -.53 | | | | | | | | | | | | |
| 450 | 1.00 | -.63 | | | | | | | | | | | | |
| Meth: 151.99 PPM | | | | | | | | | | | | | | |
| <u>Arsenic</u> | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 393 | 9.86 | 2.13 | | | | | | | | | | | | |
| 368 | 3.30 R | .18 | | | | | | | | | | | | |
| Avg | 2.99 | | | | | | | | | | | | | |
| 230 | 1.99 | -.31 | | | | | | | | | | | | |
| 390 | 1.90 | -.34 | | | | | | | | | | | | |
| 231 | 1.84 | -.36 | | | | | | | | | | | | |
| 102 | 1.37 | -.50 | | | | | | | | | | | | |
| 450 | 1.00 | -.62 | | | | | | | | | | | | |
| Meth: 151.XX PPM | | | | | | | | | | | | | | |
| <u>Arsenic</u> | | | | | | | | | | | | | | |
| 393 | 9.86 | 2.13 | | | | | | | | | | | | |
| 368 | 3.30 R | .18 | | | | | | | | | | | | |
| Avg | 2.99 | | | | | | | | | | | | | |
| 230 | 1.99 | -.31 | | | | | | | | | | | | |
| 390 | 1.90 | -.34 | | | | | | | | | | | | |
| 231 | 1.84 | -.36 | | | | | | | | | | | | |
| 102 | 1.37 | -.50 | | | | | | | | | | | | |
| 450 | 1.00 | -.62 | | | | | | | | | | | | |
| Meth: 165.00 PCT | | | | | | | | | | | | | | |
| <u>Acid Soluble Boron</u> | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 028 | 0.051 | .80 | | | | | | | | | | | | |
| 055 | 0.050 | .76 | | | | | | | | | | | | |
| 023 | 0.049 | .43 | | | | | | | | | | | | |
| 037 | 0.048 | .25 | | | | | | | | | | | | |
| Avg | 0.046 | | | | | | | | | | | | | |
| 393 | 0.046 | -.10 | | | | | | | | | | | | |
| 397 | 0.036 | -2.01 | | | | | | | | | | | | |
| 029 | 0.026 s | -5.45 | | | | | | | | | | | | |
| Meth: 165.99 PCT | | | | | | | | | | | | | | |
| <u>Acid Soluble Boron</u> | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 432 | 0.480 s | 87.19 | | | | | | | | | | | | |
| 137 | 0.070 s | 4.89 | | | | | | | | | | | | |
| 433 | 0.066 s | 4.03 | | | | | | | | | | | | |
| 368 | 0.054 R | 2.21 | | | | | | | | | | | | |
| 043 | 0.054 | 1.62 | | | | | | | | | | | | |
| 360 | 0.052 | 1.20 | | | | | | | | | | | | |
| 049 | 0.050 | .94 | | | | | | | | | | | | |
| 231 | 0.050 | .89 | | | | | | | | | | | | |
| 114 | 0.049 | .67 | | | | | | | | | | | | |
| 444 | 0.049 | .60 | | | | | | | | | | | | |
| 354 | 0.048 | .49 | | | | | | | | | | | | |
| 390 | 0.048 | .48 | | | | | | | | | | | | |
| 389 | 0.047 | .29 | | | | | | | | | | | | |
| 324 | 0.046 | .07 | | | | | | | | | | | | |
| Avg | 0.046 | | | | | | | | | | | | | |
| 040 | 0.045 | -.08 | | | | | | | | | | | | |
| 423 | 0.045 | -.19 | | | | | | | | | | | | |
| 090 | 0.045 | -.36 | | | | | | | | | | | | |
| 117 | 0.043 | -.46 | | | | | | | | | | | | |
| 232 | 0.043 | -.52 | | | | | | | | | | | | |
| 009 | 0.044 | -.53 | | | | | | | | | | | | |
| 086 | 0.043 | -.54 | | | | | | | | | | | | |
| 296 | 0.042 | -.70 | | | | | | | | | | | | |
| 230 | 0.041 | -1.01 | | | | | | | | | | | | |
| 042 | 0.030 | -3.10 | | | | | | | | | | | | |
| Meth: 165.XX PCT | | | | | | | | | | | | | | |
| <u>Acid Soluble Boron</u> | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 432 | 0.480 s | 86.45 | | | | | | | | | | | | |
| 137 | 0.070 s | 4.82 | | | | | | | | | | | | |
| 433 | 0.066 s | 3.96 | | | | | | | | | | | | |
| 368 | 0.054 R | 2.17 | | | | | | | | | | | | |
| 043 | 0.054 | 1.58 | | | | | | | | | | | | |
| 360 | 0.052 | 1.16 | | | | | | | | | | | | |
| 028 | 0.051 | .96 | | | | | | | | | | | | |
| 049 | 0.050 | .90 | | | | | | | | | | | | |
| 055 | 0.050 | .90 | | | | | | | | | | | | |
| Meth: 165.99 PCT | | | | | | | | | | | | | | |
| <u>Acid Soluble Boron</u> | | | | | | | | | | | | | | |
| 231 | 0.050 | .85 | | | | | | | | | | | | |
| 114 | 0.049 | .63 | | | | | | | | | | | | |
| 023 | 0.049 | .57 | | | | | | | | | | | | |
| 444 | 0.049 | .57 | | | | | | | | | | | | |
| 354 | 0.048 | .46 | | | | | | | | | | | | |
| 390 | 0.048 | .45 | | | | | | | | | | | | |
| 037 | 0.048 | .37 | | | | | | | | | | | | |
| 389 | 0.047 | .26 | | | | | | | | | | | | |
| 393 | 0.046 | .12 | | | | | | | | | | | | |
| Avg | 0.046 | | | | | | | | | | | | | |
| 324 | 0.046 | -.07 | | | | | | | | | | | | |
| 040 | 0.045 | -.11 | | | | | | | | | | | | |
| 423 | 0.045 | -.22 | | | | | | | | | | | | |
| 090 | 0.045 | -.38 | | | | | | | | | | | | |
| 117 | 0.043 | -.49 | | | | | | | | | | | | |
| 009 | 0.044 | -.55 | | | | | | | | | | | | |
| 232 | 0.043 | -.55 | | | | | | | | | | | | |
| 086 | 0.043 | -.57 | | | | | | | | | | | | |
| 296 | 0.042 | -.73 | | | | | | | | | | | | |
| 230 | 0.041 | -1.03 | | | | | | | | | | | | |
| 397 | 0.036 | -2.02 | | | | | | | | | | | | |
| 042 | 0.030 | -3.11 | | | | | | | | | | | | |
| 029 | 0.026 s | -5.73 | | | | | | | | | | | | |
| Meth: 171.99 PCT | | | | | | | | | | | | | | |
| <u>Water Soluble Boron</u> | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 027 | 0.045 | .71 | | | | | | | | | | | | |
| Meth: 181.30 PPM | | | | | | | | | | | | | | |
| <u>Cadmium</u> | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 009 | 1.61 | -.27 | | | | | | | | | | | | |
| 390 | 1.48 | -.59 | | | | | | | | | | | | |
| 102 | 1.47 | -.61 | | | | | | | | | | | | |
| 232 | 1.63 R | -.67 | | | | | | | | | | | | |
| 230 | 1.41 | -.80 | | | | | | | | | | | | |
| 450 | 1.38 | -.88 | | | | | | | | | | | | |
| 368 | 1.65 R | -.97 | | | | | | | | | | | | |
| Meth: 181.99 PPM | | | | | | | | | | | | | | |
| <u>Cadmium</u> | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 009 | 1.61 | .71 | | | | | | | | | | | | |
| Meth: 181.XX PPM | | | | | | | | | | | | | | |
| <u>Cadmium</u> | | | | | | | | | | | | | | |
| 393 | 2.58 | 2.57 | | | | | | | | | | | | |
| 035 | 2.10 | 1.19 | | | | | | | | | | | | |
| 086 | 1.71 | .09 | | | | | | | | | | | | |
| Avg | 1.69 | | | | | | | | | | | | | |
| 247 | 1.63 | -.18 | | | | | | | | | | | | |
| 419 | 1.60 | -.25 | | | | | | | | | | | | |
| 009 | 1.61 | -.27 | | | | | | | | | | | | |
| 231 | 1.61 | -.27 | | | | | | | | | | | | |
| 390 | 1.48 | -.60 | | | | | | | | | | | | |
| 102 | 1.47 | -.62 | | | | | | | | | | | | |
| 232 | 1.63 R | -.70 | | | | | | | | | | | | |
| 230 | 1.41 | -.81 | | | | | | | | | | | | |
| 450 | 1.38 | -.90 | | | | | | | | | | | | |
| 368 | 1.65 R | -1.01 | | | | | | | | | | | | |
| Meth: 190.00 PCT | | | | | | | | | | | | | | |
| <u>Water Soluble Chlori</u> | | | | | | | | | | | | | | |
| <u>Titrimetric</u> | | | | | | | | | | | | | | |
| 230 | 4.56 s | 8.00 | | | | | | | | | | | | |
| 055 | 3.90 | .90 | | | | | | | | | | | | |
| 389 | 3.90 | .90 | | | | | | | | | | | | |
| 029 | 3.83 | .24 | | | | | | | | | | | | |

* 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 | | | | | | | | | | | | | | |
| Water Soluble Chlori | | | | | | | | | | | | | | |
| Titrimetric | | | | | | | | | | | | | | |
| 102 | 3.81 | .05 | | | | | | | | | | | | |
| Avg | 3.80 | | | | | | | | | | | | | |
| 028 | 3.80 | -.17 | | | | | | | | | | | | |
| 043 | 3.60 | -1.94 | | | | | | | | | | | | |
| 444 | 0.00 s | -35.95 | | | | | | | | | | | | |
| Meth: 190.99 PCT | | | | | | | | | | | | | | |
| Water Soluble Chlori | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 419 | 4.20 | .81 | | | | | | | | | | | | |
| 360 | 3.83 | .38 | | | | | | | | | | | | |
| 460 | 3.82 | .36 | | | | | | | | | | | | |
| 397 | 3.80 | .33 | | | | | | | | | | | | |
| Avg | 3.53 | | | | | | | | | | | | | |
| 368 | 2.02 | -1.86 | | | | | | | | | | | | |
| Meth: 190.XX PCT | | | | | | | | | | | | | | |
| Water Soluble Chlori | | | | | | | | | | | | | | |
| 230 | 4.56 R | 1.72 | | | | | | | | | | | | |
| 419 | 4.20 | .92 | | | | | | | | | | | | |
| 389 | 3.90 | .39 | | | | | | | | | | | | |
| 055 | 3.90 | .39 | | | | | | | | | | | | |
| 360 | 3.83 | .31 | | | | | | | | | | | | |
| 029 | 3.83 | .26 | | | | | | | | | | | | |
| 460 | 3.82 | .26 | | | | | | | | | | | | |
| 397 | 3.80 | .23 | | | | | | | | | | | | |
| 102 | 3.81 | .23 | | | | | | | | | | | | |
| 028 | 3.80 | .21 | | | | | | | | | | | | |
| Avg | 3.68 | | | | | | | | | | | | | |
| 043 | 3.60 | -.15 | | | | | | | | | | | | |
| 368 | 2.02 | -2.99 | | | | | | | | | | | | |
| 444 | 0.00 s | -6.60 | | | | | | | | | | | | |
| Meth: 191.30 PPM | | | | | | | | | | | | | | |
| Chromium | | | | | | | | | | | | | | |
| 102 | 104.00 | 1.30 | | | | | | | | | | | | |
| 086 | 102.68 | 1.28 | | | | | | | | | | | | |
| 035 | 95.90 | .45 | | | | | | | | | | | | |
| 009 | 94.25 | .31 | | | | | | | | | | | | |
| 247 | 92.50 | .18 | | | | | | | | | | | | |
| Avg | 91.64 | | | | | | | | | | | | | |
| 037 | 90.03 | -.18 | | | | | | | | | | | | |
| 368 | 86.90 | -.53 | | | | | | | | | | | | |
| 393 | 86.52 | -.54 | | | | | | | | | | | | |
| 230 | 81.15 | -1.11 | | | | | | | | | | | | |
| 102 | 80.69 | -1.15 | | | | | | | | | | | | |
| 232 | 78.05 | -1.44 | | | | | | | | | | | | |
| 419 | 77.00 R | -1.75 | | | | | | | | | | | | |
| Meth: 191.99 PPM | | | | | | | | | | | | | | |
| Chromium | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 231 | 42.09 S | .00 | | | | | | | | | | | | |
| Meth: 191.XX PPM | | | | | | | | | | | | | | |
| Chromium | | | | | | | | | | | | | | |
| 096 | 107.00 | 1.62 | | | | | | | | | | | | |
| 450 | 104.00 | 1.30 | | | | | | | | | | | | |
| 086 | 102.68 | 1.28 | | | | | | | | | | | | |
| 035 | 95.90 | .45 | | | | | | | | | | | | |
| 009 | 94.25 | .31 | | | | | | | | | | | | |
| 247 | 92.50 | .18 | | | | | | | | | | | | |
| Avg | 91.64 | | | | | | | | | | | | | |
| 037 | 90.03 | -.18 | | | | | | | | | | | | |
| 368 | 86.90 | -.53 | | | | | | | | | | | | |
| 393 | 86.52 | -.54 | | | | | | | | | | | | |
| 230 | 81.15 | -1.11 | | | | | | | | | | | | |
| 102 | 80.69 | -1.15 | | | | | | | | | | | | |
| 232 | 78.05 | -1.44 | | | | | | | | | | | | |
| 419 | 77.00 R | -1.75 | | | | | | | | | | | | |
| 231 | 42.09 s | -5.21 | | | | | | | | | | | | |
| 096 | 107.00 | 1.62 | | | | | | | | | | | | |
| Meth: 202.30 PPM | | | | | | | | | | | | | | |
| Acid Soluble Cobalt | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 009 | 45.00 | 1.19 | | | | | | | | | | | | |
| 450 | 43.00 | 1.02 | | | | | | | | | | | | |
| 096 | 42.50 | .99 | | | | | | | | | | | | |
| 086 | 40.07 | .82 | | | | | | | | | | | | |
| 035 | 39.60 | .75 | | | | | | | | | | | | |
| 393 | 37.03 | .54 | | | | | | | | | | | | |
| 037 | 35.35 | .40 | | | | | | | | | | | | |
| 230 | 32.30 | .21 | | | | | | | | | | | | |
| 390 | 32.85 | .20 | | | | | | | | | | | | |
| Avg | 30.48 | | | | | | | | | | | | | |
| 247 | 25.50 | -.41 | | | | | | | | | | | | |
| 368 | 25.65 | -.50 | | | | | | | | | | | | |
| 102 | 21.72 | -.72 | | | | | | | | | | | | |
| 049 | 21.57 | -.73 | | | | | | | | | | | | |
| 027 | 15.07 | -1.26 | | | | | | | | | | | | |
| 419 | 14.06 R | -1.40 | | | | | | | | | | | | |
| 232 | 0.00 | -2.49 | | | | | | | | | | | | |
| Meth: 202.99 PPM | | | | | | | | | | | | | | |
| Acid Soluble Cobalt | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 231 | 11.26 | -.71 | | | | | | | | | | | | |
| Meth: 202.XX PPM | | | | | | | | | | | | | | |
| Acid Soluble Cobalt | | | | | | | | | | | | | | |
| 009 | 45.00 | 1.24 | | | | | | | | | | | | |
| 450 | 43.00 | 1.08 | | | | | | | | | | | | |
| 096 | 42.50 | 1.05 | | | | | | | | | | | | |
| 086 | 40.07 | .88 | | | | | | | | | | | | |
| 035 | 39.60 | .81 | | | | | | | | | | | | |
| 393 | 37.03 | .61 | | | | | | | | | | | | |
| 037 | 35.35 | .48 | | | | | | | | | | | | |
| 390 | 32.85 | .29 | | | | | | | | | | | | |
| 230 | 32.30 | .28 | | | | | | | | | | | | |
| Avg | 29.28 | | | | | | | | | | | | | |
| 247 | 25.50 | -.30 | | | | | | | | | | | | |
| 368 | 25.65 | -.41 | | | | | | | | | | | | |
| Meth: 202.XX PPM | | | | | | | | | | | | | | |
| Acid Soluble Cobalt | | | | | | | | | | | | | | |
| 102 | 21.72 | -.60 | | | | | | | | | | | | |
| 049 | 21.57 | -.61 | | | | | | | | | | | | |
| 027 | 15.07 | -1.12 | | | | | | | | | | | | |
| 419 | 14.06 R | -1.25 | | | | | | | | | | | | |
| 231 | 11.26 | -1.42 | | | | | | | | | | | | |
| 232 | 0.00 | -2.30 | | | | | | | | | | | | |
| Meth: 221.00 PCT | | | | | | | | | | | | | | |
| Acid Soluble Copper | | | | | | | | | | | | | | |
| Atomic Absorption | | | | | | | | | | | | | | |
| 043 | 0.0014 | .90 | | | | | | | | | | | | |
| Avg | 0.0012 | | | | | | | | | | | | | |
| 095 | 0.0011 | -.83 | | | | | | | | | | | | |
| Meth: 221.30 PCT | | | | | | | | | | | | | | |
| Acid Soluble Copper | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 324 | 0.0095 s | 18.80 | | | | | | | | | | | | |
| 402 | 0.0029 A | 3.88 | | | | | | | | | | | | |
| 354 | 0.0020 | 2.00 | | | | | | | | | | | | |
| 393 | 0.0020 | 1.93 | | | | | | | | | | | | |
| 086 | 0.0013 R | .71 | | | | | | | | | | | | |
| 035 | 0.0013 | .51 | | | | | | | | | | | | |
| 433 | 0.0013 | .50 | | | | | | | | | | | | |
| 049 | 0.0012 | .24 | | | | | | | | | | | | |
| 096 | 0.0011 | .22 | | | | | | | | | | | | |
| 095 | 0.0011 | .02 | | | | | | | | | | | | |
| Avg | 0.0011 | | | | | | | | | | | | | |
| 247 | 0.0011 | -.14 | | | | | | | | | | | | |
| 102 | 0.0010 | -.20 | | | | | | | | | | | | |
| 450 | 0.0010 | -.20 | | | | | | | | | | | | |
| 041 | 0.0010 | -.20 | | | | | | | | | | | | |
| 230 | 0.0010 | -.33 | | | | | | | | | | | | |
| 232 | 0.0009 | -.54 | | | | | | | | | | | | |
| 368 | 0.0009 | -.54 | | | | | | | | | | | | |
| 419 | 0.0008 | -.76 | | | | | | | | | | | | |
| 157 | 0.0000 | -2.40 | | | | | | | | | | | | |
| Meth: 221.99 PCT | | | | | | | | | | | | | | |
| Acid Soluble Copper | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 231 | 0.0009 | .00 | | | | | | | | | | | | |
| Meth: 221.XX PCT | | | | | | | | | | | | | | |
| Acid Soluble Copper | | | | | | | | | | | | | | |
| Atomic Absorption | | | | | | | | | | | | | | |
| 324 | 0.0095 s | 20.20 | | | | | | | | | | | | |
| 402 | 0.0029 A | 4.16 | | | | | | | | | | | | |
| 354 | 0.0020 | 2.14 | | | | | | | | | | | | |
| 393 | 0.0020 | 2.07 | | | | | | | | | | | | |
| 086 | 0.0013 R | .76 | | | | | | | | | | | | |
| 043 | 0.0014 | .62 | | | | | | | | | | | | |
| 035 | 0.0013 | .54 | | | | | | | | | | | | |
| 433 | 0.0013 | .53 | | | | | | | | | | | | |
| 049 | 0.0012 | .25 | | | | | | | | | | | | |
| 096 | 0.0011 | .24 | | | | | | | | | | | | |
| 095 | 0.0011 | .01 | | | | | | | | | | | | |
| 095 | 0.0011 | .01 | | | | | | | | | | | | |
| Avg | 0.0011 | | | | | | | | | | | | | |
| 247 | 0.0011 | -.16 | | | | | | | | | | | | |
| 102 | 0.0010 | -.22 | | | | | | | | | | | | |
| 450 | 0.0010 | -.22 | | | | | | | | | | | | |
| 041 | 0.0010 | -.22 | | | | | | | | | | | | |
| 230 | 0.0010 | -.36 | | | | | | | | | | | | |
| 231 | 0.0009 | -.46 | | | | | | | | | | | | |
| 232 | 0.0009 | -.59 | | | | | | | | | | | | |
| 368 | 0.0009 | -.59 | | | | | | | | | | | | |
| 419 | 0.0008 | -.82 | | | | | | | | | | | | |
| 157 | 0.0000 | -2.59 | | | | | | | | | | | | |
| Meth: 241.00 PCT | | | | | | | | | | | | | | |
| Acid Soluble Iron | | | | | | | | | | | | | | |
| Atomic Absorption | | | | | | | | | | | | | | |
| 030 | 0.52 s | 12.72 | | | | | | | | | | | | |
| 043 | 0.31 | 2.03 | | | | | | | | | | | | |
| 460 | 0.29 | 1.00 | | | | | | | | | | | | |
| 351 | 0.28 | .79 | | | | | | | | | | | | |
| 028 | 0.27 | .48 | | | | | | | | | | | | |
| 296 | 0.27 | .26 | | | | | | | | | | | | |

* 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: 241.00 PCT | | | | | | | | | | | | | | |
| Acid Soluble Iron | | | | | | | | | | | | | | |
| Atomic Absorption | | | | | | | | | | | | | | |
| 029 | 0.27 | .13 | | | | | | | | | | | | |
| Avg | 0.26 | | | | | | | | | | | | | |
| 397 | 0.26 | -.20 | | | | | | | | | | | | |
| 105 | 0.25 | -.72 | | | | | | | | | | | | |
| 040 | 0.25 | -.80 | | | | | | | | | | | | |
| 095 | 0.24 | -1.18 | | | | | | | | | | | | |
| 177 | 0.24 | -1.37 | | | | | | | | | | | | |
| Meth: 241.30 PCT | | | | | | | | | | | | | | |
| Acid Soluble Iron | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 049 | 0.37 | 6.83 | | | | | | | | | | | | |
| 432 | 0.32 | 4.32 | | | | | | | | | | | | |
| 324 | 0.30 | 2.77 | | | | | | | | | | | | |
| 354 | 0.29 | 1.61 | | | | | | | | | | | | |
| 390 | 0.28 | 1.45 | | | | | | | | | | | | |
| 055 | 0.28 | 1.24 | | | | | | | | | | | | |
| 096 | 0.28 | 1.16 | | | | | | | | | | | | |
| 247 | 0.28 | 1.16 | | | | | | | | | | | | |
| 360 | 0.28 | 1.07 | | | | | | | | | | | | |
| 102 | 0.26 | 1.02 | | | | | | | | | | | | |
| 444 | 0.28 | .90 | | | | | | | | | | | | |
| 041 | 0.27 | .82 | | | | | | | | | | | | |
| 307 | 0.27 | .82 | | | | | | | | | | | | |
| 009 | 0.27 | .61 | | | | | | | | | | | | |
| 231 | 0.27 | .54 | | | | | | | | | | | | |
| 027 | 0.27 | .46 | | | | | | | | | | | | |
| 086 | 0.26 | .42 | | | | | | | | | | | | |
| 368 | 0.27 | .39 | | | | | | | | | | | | |
| 419 | 0.27 | .39 | | | | | | | | | | | | |
| 131 | 0.26 | .09 | | | | | | | | | | | | |
| Avg | 0.26 | | | | | | | | | | | | | |
| 389 | 0.26 | -.07 | | | | | | | | | | | | |
| 114 | 0.26 | -.07 | | | | | | | | | | | | |
| 433 | 0.26 | -.12 | | | | | | | | | | | | |
| 035 | 0.26 | -.19 | | | | | | | | | | | | |
| 090 | 0.26 | -.27 | | | | | | | | | | | | |
| Meth: 241.99 PCT | | | | | | | | | | | | | | |
| Acid Soluble Iron | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 042 | 0.16 | .00 | | | | | | | | | | | | |
| 137 | 0.33 | .00 | | | | | | | | | | | | |
| Avg | 0.33 | | | | | | | | | | | | | |
| Meth: 241.99 PCT | | | | | | | | | | | | | | |
| Acid Soluble Iron | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 042 | 0.16 | .00 | | | | | | | | | | | | |
| 137 | 0.33 | .00 | | | | | | | | | | | | |
| Avg | 0.33 | | | | | | | | | | | | | |
| Meth: 241.99 PCT | | | | | | | | | | | | | | |
| Acid Soluble Iron | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 030 | 0.52 | 15.53 | | | | | | | | | | | | |
| 049 | 0.37 | 6.25 | | | | | | | | | | | | |
| 432 | 0.32 | 3.94 | | | | | | | | | | | | |
| 137 | 0.33 | 3.86 | | | | | | | | | | | | |
| 043 | 0.31 | 2.58 | | | | | | | | | | | | |
| 324 | 0.30 | 2.51 | | | | | | | | | | | | |
| 354 | 0.29 | 1.44 | | | | | | | | | | | | |
| 460 | 0.29 | 1.33 | | | | | | | | | | | | |
| 390 | 0.28 | 1.30 | | | | | | | | | | | | |
| 055 | 0.28 | 1.09 | | | | | | | | | | | | |
| 351 | 0.28 | 1.08 | | | | | | | | | | | | |
| 096 | 0.28 | 1.02 | | | | | | | | | | | | |
| 247 | 0.28 | 1.02 | | | | | | | | | | | | |
| 102 | 0.26 | .94 | | | | | | | | | | | | |
| 360 | 0.28 | .94 | | | | | | | | | | | | |
| 444 | 0.28 | .79 | | | | | | | | | | | | |
| 041 | 0.27 | .73 | | | | | | | | | | | | |
| Meth: 251.30 PPM | | | | | | | | | | | | | | |
| Lead | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 043 | 0.293 | 1.46 | | | | | | | | | | | | |
| 460 | 0.285 | 1.05 | | | | | | | | | | | | |
| 028 | 0.276 | .65 | | | | | | | | | | | | |
| 351 | 0.268 | .33 | | | | | | | | | | | | |
| 095 | 0.270 | .26 | | | | | | | | | | | | |
| Meth: 251.99 PPM | | | | | | | | | | | | | | |
| Lead | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | |
| 231 | 1.47 | .71 | | | | | | | | | | | | |
| Meth: 251.30 PPM | | | | | | | | | | | | | | |
| Lead | | | | | | | | | | | | | | |
| ICP | | | | | | | | | | | | | | |
| 432 | 0.465 | 13.38 | | | | | | | | | | | | |
| 114 | 0.295 | 2.12 | | | | | | | | | | | | |
| 390 | 0.274 | 1.69 | | | | | | | | | | | | |
| 307 | 0.285 | 1.36 | | | | | | | | | | | | |
| 360 | 0.284 | 1.27 | | | | | | | | | | | | |
| 027 | 0.283 | 1.21 | | | | | | | | | | | | |
| 037 | 0.279 | .98 | | | | | | | | | | | | |
| 049 | 0.275 | .80 | | | | | | | | | | | | |
| 450 | 0.275 | .79 | | | | | | | | | | | | |
| 402 | 0.270 | .74 | | | | | | | | | | | | |
| 354 | 0.269 | .66 | | | | | | | | | | | | |
| 102 | 0.273 | .65 | | | | | | | | | | | | |
| 131 | 0.271 | .64 | | | | | | | | | | | | |
| 035 | 0.271 | .60 | | | | | | | | | | | | |
| 368 | 0.268 | .32 | | | | | | | | | | | | |
| 090 | 0.268 | .28 | | | | | | | | | | | | |
| Meth: 261.00 PCT | | | | | | | | | | | | | | |
| Acid Soluble Manganese | | | | | | | | | | | | | | |
| AA | | | | | | | | | | | | | | |
| 231 | 0.260 | -.17 | | | | | | | | | | | | |
| 055 | 0.261 | -.21 | | | | | | | | | | | | |
| 423 | 0.258 | -.34 | | | | | | | | | | | | |
| 247 | 0.259 | -.38 | | | | | | | | | | | | |
| 009 | 0.255 | -.54 | | | | | | | | | | | | |
| 041 | 0.255 | -.56 | | | | | | | | | | | | |

* 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 |
|------------------------|----------|-------|-----|----------|-------|-----|----------|-------|-----|----------|-------|
| Meth: 261.30 PCT | | | | | | | | | | | |
| Acid Soluble Manganese | | | | | | | | | | | |
| ICP | 0.279 | .80 | | | | | | | | | |
| 444 | 0.255 | -.56 | | | | | | | | | |
| 389 | 0.250 | -.77 | | | | | | | | | |
| 095 | 0.250 | -.80 | | | | | | | | | |
| 419 | 0.255 | -.80 | | | | | | | | | |
| 086 | 0.252 | -1.10 | | | | | | | | | |
| 433 | 0.245 | -1.10 | | | | | | | | | |
| 023 | 0.245 | -1.12 | | | | | | | | | |
| 117 | 0.258 R | -1.39 | | | | | | | | | |
| 157 | 0.239 | -1.43 | | | | | | | | | |
| 232 | 0.223 | -2.37 | | | | | | | | | |
| 230 | 0.238 s | -2.57 | | | | | | | | | |
| Meth: 261.31 PCT | | | | | | | | | | | |
| Acid Soluble Manganese | | | | | | | | | | | |
| ICP | 0.281 | -.71 | | | | | | | | | |
| 324 | 0.281 | -.71 | | | | | | | | | |
| Meth: 261.99 PCT | | | | | | | | | | | |
| Acid Soluble Manganese | | | | | | | | | | | |
| Other | 0.310 | 1.23 | | | | | | | | | |
| 137 | 0.259 | -1.41 | | | | | | | | | |
| Avg | 0.242 | -.41 | | | | | | | | | |
| 393 | 0.225 | -.90 | | | | | | | | | |
| 042 | 0.225 | -.90 | | | | | | | | | |
| Meth: 261.99 PCT | | | | | | | | | | | |
| Acid Soluble Manganese | | | | | | | | | | | |
| 432 | 0.465 s | 11.50 | | | | | | | | | |
| 137 | 0.310 | 2.39 | | | | | | | | | |
| 114 | 0.295 | 1.79 | | | | | | | | | |
| 043 | 0.293 | 1.52 | | | | | | | | | |
| 390 | 0.274 R | 1.44 | | | | | | | | | |
| 307 | 0.285 | 1.13 | | | | | | | | | |
| 460 | 0.285 | 1.13 | | | | | | | | | |
| 360 | 0.284 | 1.05 | | | | | | | | | |
| 027 | 0.283 | 1.00 | | | | | | | | | |
| 324 | 0.281 | .89 | | | | | | | | | |
| Meth: 261.30 PCT | | | | | | | | | | | |
| Mercury | | | | | | | | | | | |
| Atomic Absorption | | | | | | | | | | | |
| 230 | 0.01 | .71 | | | | | | | | | |
| Meth: 281.30 PCT | | | | | | | | | | | |
| Mercury | | | | | | | | | | | |
| ICP | 8.94 | .87 | | | | | | | | | |
| 393 | 4.47 | -.87 | | | | | | | | | |
| Avg | 0.00 | -.87 | | | | | | | | | |
| 450 | 0.00 | -.87 | | | | | | | | | |
| Meth: 281.30 PCT | | | | | | | | | | | |
| Mercury | | | | | | | | | | | |
| ICP | 8.94 | 1.29 | | | | | | | | | |
| 393 | 2.98 | -.64 | | | | | | | | | |
| Avg | 0.01 | -.65 | | | | | | | | | |
| 230 | 0.01 | -.65 | | | | | | | | | |
| 450 | 0.00 | -.65 | | | | | | | | | |
| Meth: 289.30 PCT | | | | | | | | | | | |
| Molybdenum | | | | | | | | | | | |
| ICP | 7.79 R | 1.41 | | | | | | | | | |
| 086 | 8.05 | 1.34 | | | | | | | | | |
| 433 | 8.00 | 1.26 | | | | | | | | | |
| 247 | 7.71 | .82 | | | | | | | | | |
| 393 | 7.30 | .64 | | | | | | | | | |
| 368 | 7.48 | .62 | | | | | | | | | |
| 232 | 7.22 | .36 | | | | | | | | | |
| 390 | 7.35 | .28 | | | | | | | | | |
| 230 | 7.16 | -.25 | | | | | | | | | |
| Avg | 7.00 | -.41 | | | | | | | | | |
| 450 | 6.91 | -.79 | | | | | | | | | |
| 035 | 6.64 | -.79 | | | | | | | | | |
| 102 | 6.30 | -1.59 | | | | | | | | | |
| 419 | 6.01 | -1.75 | | | | | | | | | |
| 009 | 3.95 s | -4.86 | | | | | | | | | |
| 231 | 44.50 | 1.56 | | | | | | | | | |
| Meth: 291.30 PCT | | | | | | | | | | | |
| Nickel | | | | | | | | | | | |
| ICP | 42.00 | .97 | | | | | | | | | |
| 096 | 41.65 | .96 | | | | | | | | | |
| 450 | 41.50 | .86 | | | | | | | | | |
| 009 | 39.85 | .74 | | | | | | | | | |
| 247 | 39.15 | .50 | | | | | | | | | |
| 230 | 38.10 | .31 | | | | | | | | | |
| 086 | 37.85 | -.27 | | | | | | | | | |
| 035 | 36.83 | -.37 | | | | | | | | | |
| 368 | 35.89 | -.46 | | | | | | | | | |
| Avg | 33.60 | -1.01 | | | | | | | | | |
| 049 | 32.90 | -1.16 | | | | | | | | | |
| 419 | 30.00 R | -2.06 | | | | | | | | | |
| 027 | 28.59 | -2.18 | | | | | | | | | |
| 231 | 13.13 s | -5.80 | | | | | | | | | |
| Meth: 291.99 PCT | | | | | | | | | | | |
| Selenium | | | | | | | | | | | |
| ICP | 8.93 | 1.23 | | | | | | | | | |
| 393 | 3.88 | -.27 | | | | | | | | | |
| Avg | 2.70 | -.33 | | | | | | | | | |
| 368 | 0.00 | -.46 | | | | | | | | | |
| 450 | 33.60 | -1.01 | | | | | | | | | |
| 049 | 32.90 | -1.16 | | | | | | | | | |

* 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 |
|--------------------|----------|-------|-----|----------|-------|-----|----------|-------|-----|----------|-------|
| Meth: 301.99 PPM | | | | | | | | | | | |
| Selenium | | | | | | | | | | | |
| Other | | | | | | | | | | | |
| 296 | 0.44 | .71 | | | | | | | | | |
| Meth: 301.XX PPM | | | | | | | | | | | |
| Selenium | | | | | | | | | | | |
| 393 | 8.93 | 1.29 | | | | | | | | | |
| Avg | 3.12 | | | | | | | | | | |
| 368 | 2.70 R | -.18 | | | | | | | | | |
| 296 | 0.44 | -.60 | | | | | | | | | |
| 450 | 0.00 | -.69 | | | | | | | | | |
| Meth: 311.99 PCT | | | | | | | | | | | |
| Sodium | | | | | | | | | | | |
| Other | | | | | | | | | | | |
| 307 | 1.41 | 2.05 | | | | | | | | | |
| 102 | 1.26 | .22 | | | | | | | | | |
| Avg | 1.25 | | | | | | | | | | |
| 423 | 1.24 | -.14 | | | | | | | | | |
| 086 | 1.21 | -.44 | | | | | | | | | |
| 009 | 1.24 | -.47 | | | | | | | | | |
| 232 | 1.21 | -.51 | | | | | | | | | |
| 035 | 1.15 | -1.24 | | | | | | | | | |
| Meth: 321.00 PCT | | | | | | | | | | | |
| Acid Soluble Zinc | | | | | | | | | | | |
| Atomic Absorption | | | | | | | | | | | |
| 397 | 0.175 | 1.47 | | | | | | | | | |
| 105 | 0.170 | 1.15 | | | | | | | | | |
| 177 | 0.174 | 1.03 | | | | | | | | | |
| 296 | 0.170 | .76 | | | | | | | | | |
| 043 | 0.170 | .65 | | | | | | | | | |
| 073 | 0.171 | .59 | | | | | | | | | |
| Avg | 0.168 | | | | | | | | | | |
| 351 | 0.165 | -.52 | | | | | | | | | |
| 040 | 0.167 | -.73 | | | | | | | | | |
| 460 | 0.165 | -.77 | | | | | | | | | |
| 095 | 0.164 | -.90 | | | | | | | | | |
| 029 | 0.161 | -1.55 | | | | | | | | | |
| Meth: 321.30 PCT | | | | | | | | | | | |
| Acid Soluble Zinc | | | | | | | | | | | |
| ICP | | | | | | | | | | | |
| 354 | 0.258 s | 11.65 | | | | | | | | | |
| 049 | 0.255 s | 9.58 | | | | | | | | | |
| 444 | 0.200 s | 4.19 | | | | | | | | | |
| 368 | 0.186 | 1.85 | | | | | | | | | |
| 041 | 0.185 | 1.68 | | | | | | | | | |
| 037 | 0.181 | 1.19 | | | | | | | | | |
| 450 | 0.180 | 1.13 | | | | | | | | | |
| 009 | 0.179 | 1.07 | | | | | | | | | |
| 360 | 0.177 | .87 | | | | | | | | | |
| 114 | 0.175 | .81 | | | | | | | | | |
| 055 | 0.175 | .81 | | | | | | | | | |
| 102 | 0.177 | .80 | | | | | | | | | |
| 419 | 0.172 | .41 | | | | | | | | | |
| 090 | 0.172 | .40 | | | | | | | | | |
| 402 | 0.172 | .36 | | | | | | | | | |
| 390 | 0.170 | .27 | | | | | | | | | |
| 324 | 0.171 | .26 | | | | | | | | | |
| 292 | 0.170 | .17 | | | | | | | | | |
| Avg | 0.168 | | | | | | | | | | |
| 423 | 0.166 | -.23 | | | | | | | | | |
| 131 | 0.166 | -.26 | | | | | | | | | |
| 027 | 0.167 | -.31 | | | | | | | | | |
| 389 | 0.165 | -.57 | | | | | | | | | |
| 307 | 0.165 | -.57 | | | | | | | | | |
| 095 | 0.162 | -.59 | | | | | | | | | |
| 433 | 0.162 | -.66 | | | | | | | | | |
| 231 | 0.160 | -.78 | | | | | | | | | |
| 035 | 0.160 | -.83 | | | | | | | | | |
| 117 | 0.159 | -.93 | | | | | | | | | |
| 232 | 0.156 | -1.26 | | | | | | | | | |
| 157 | 0.156 | -1.29 | | | | | | | | | |
| 023 | 0.152 | -1.56 | | | | | | | | | |
| 230 | 0.144 | -2.37 | | | | | | | | | |
| Meth: 321.99 PCT | | | | | | | | | | | |
| Acid Soluble Zinc | | | | | | | | | | | |
| Other | | | | | | | | | | | |
| 042 | 0.100 S | .00 | | | | | | | | | |
| 137 | 0.220 S | .00 | | | | | | | | | |
| Avg | 0.000 | | | | | | | | | | |
| Meth: 321.XX PCT | | | | | | | | | | | |
| Acid Soluble Zinc | | | | | | | | | | | |
| 354 | 0.258 s | 13.01 | | | | | | | | | |
| 049 | 0.255 s | 10.70 | | | | | | | | | |
| 137 | 0.220 s | 5.54 | | | | | | | | | |
| 444 | 0.200 s | 4.68 | | | | | | | | | |
| 368 | 0.186 | 2.06 | | | | | | | | | |
| 041 | 0.185 | 1.88 | | | | | | | | | |
| 037 | 0.181 | 1.33 | | | | | | | | | |
| 450 | 0.180 | 1.26 | | | | | | | | | |
| 009 | 0.179 | 1.20 | | | | | | | | | |
| 360 | 0.177 | .97 | | | | | | | | | |
| 114 | 0.175 | .90 | | | | | | | | | |
| 055 | 0.175 | .90 | | | | | | | | | |
| 114 | 0.175 | .90 | | | | | | | | | |
| 102 | 0.177 | .89 | | | | | | | | | |
| 105 | 0.170 | .71 | | | | | | | | | |
| 177 | 0.174 | .63 | | | | | | | | | |
| 296 | 0.170 | .47 | | | | | | | | | |
| 419 | 0.172 | .46 | | | | | | | | | |
| 090 | 0.172 | .44 | | | | | | | | | |
| 402 | 0.172 | .41 | | | | | | | | | |
| 043 | 0.170 | .40 | | | | | | | | | |
| 073 | 0.171 | .36 | | | | | | | | | |
| 390 | 0.170 | .30 | | | | | | | | | |
| 324 | 0.171 | .29 | | | | | | | | | |
| 292 | 0.170 | .19 | | | | | | | | | |
| Avg | 0.168 | | | | | | | | | | |
| 423 | 0.166 | -.26 | | | | | | | | | |
| 131 | 0.166 | -.29 | | | | | | | | | |
| 351 | 0.165 | -.32 | | | | | | | | | |
| 027 | 0.167 | -.35 | | | | | | | | | |
| 040 | 0.167 | -.45 | | | | | | | | | |
| Meth: 325.30 PCT | | | | | | | | | | | |
| Water Soluble Zinc | | | | | | | | | | | |
| ICP | | | | | | | | | | | |
| 247 | 0.182 | .92 | | | | | | | | | |
| Avg | 0.162 | | | | | | | | | | |
| 393 | 0.143 | -.81 | | | | | | | | | |
| Meth: 325.99 PCT | | | | | | | | | | | |
| Water Soluble Zinc | | | | | | | | | | | |
| Other | | | | | | | | | | | |
| 389 | 0.165 | .89 | | | | | | | | | |
| Avg | 0.160 | | | | | | | | | | |
| 157 | 0.156 | -.84 | | | | | | | | | |
| Meth: 325.XX PCT | | | | | | | | | | | |
| Water Soluble Zinc | | | | | | | | | | | |
| 247 | 0.182 | 1.39 | | | | | | | | | |
| 389 | 0.165 | .38 | | | | | | | | | |
| Avg | 0.161 | | | | | | | | | | |
| 157 | 0.156 | -.44 | | | | | | | | | |
| 393 | 0.143 | -1.11 | | | | | | | | | |

* 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 | 6 | 0.00 | 1.04 | 0.11 | 060.XX | 7 | 0.00 | 1.04 | 0.03 |
| 001.99 | 11 | 0.33 | 2.20 | 0.33 | 101.00 | 11 | 0.00 | 0.99 | 0.24 |
| 001.XX | 17 | 0.15 | 1.43 | 0.20 | 101.30 | 32 | 1.00 | 4.16 | 0.55 |
| 002.20 | 4 | 0.00 | 1.06 | 0.17 | 101.XX | 43 | 0.79 | 3.59 | 0.50 |
| 002.99 | 8 | 1.61 | 4.65 | 0.30 | 121.00 | 14 | 0.73 | 2.88 | 0.30 |
| 002.XX | 12 | 0.70 | 2.60 | 0.22 | 121.30 | 34 | 0.89 | 4.41 | 0.76 |
| 009.10 | 6 | 0.00 | 1.05 | 0.02 | 121.99 | 3 | 12.07 | 20.91 | 0.59 |
| 009.XX | 7 | 0.00 | 1.04 | 0.03 | 121.XX | 50 | 1.10 | 4.29 | 0.66 |
| 010.11 | 6 | 7.30 | 17.11 | 0.49 | 131.00 | 2 | 0.00 | 1.05 | 0.45 |
| 010.12 | 6 | 0.00 | 1.04 | 0.15 | 131.XX | 4 | 0.00 | 1.07 | 0.12 |
| 010.60 | 54 | 3.10 | 17.86 | 0.30 | 144.01 | 13 | 0.04 | 0.98 | 0.23 |
| 010.99 | 3 | 2.33 | 4.10 | 8.27 | 144.99 | 28 | 0.23 | 1.97 | 0.49 |
| 010.XX | 69 | 1.69 | 15.03 | 0.49 | 144.XX | 41 | 0.25 | 1.85 | 0.48 |
| 020.10 | 8 | 0.15 | 1.04 | 0.48 | 151.30 | 6 | 0.00 | 0.95 | 0.06 |
| 020.20 | 15 | 1.85 | 7.25 | 0.19 | 151.XX | 7 | 0.01 | 0.96 | 0.06 |
| 020.40 | 7 | 0.00 | 0.93 | 0.44 | 165.00 | 7 | 0.527 | 1.679 | 1.530 |
| 020.50 | 14 | 0.51 | 1.58 | 0.46 | 165.99 | 24 | 4.063 | 17.699 | 1.662 |
| 020.99 | 4 | 0.00 | 0.00 | 0.00 | 165.XX | 31 | 2.993 | 15.507 | 1.644 |
| 020.XX | 42 | 0.25 | 4.01 | 0.59 | 181.30 | 12 | 0.03 | 0.93 | 0.34 |
| 030.XX | 3 | 0.00 | 1.11 | 0.09 | 181.XX | 13 | 0.02 | 0.93 | 0.35 |
| 040.XX | 4 | 0.00 | 1.08 | 0.08 | 190.00 | 8 | 3.60 | 13.34 | 1.27 |
| 041.10 | 12 | 0.57 | 2.16 | 0.41 | 190.99 | 5 | 0.00 | 1.06 | 0.06 |
| 041.20 | 2 | 0.00 | 0.85 | 0.62 | 190.XX | 13 | 0.39 | 2.13 | 0.20 |
| 041.40 | 3 | 0.00 | 1.10 | 0.16 | 191.30 | 13 | 0.12 | 1.05 | 0.30 |
| 041.50 | 10 | 0.00 | 1.00 | 0.21 | 191.XX | 14 | 0.48 | 1.69 | 0.29 |
| 041.60 | 9 | 0.00 | 0.89 | 0.50 | 202.30 | 16 | 0.08 | 1.03 | 0.15 |
| 041.99 | 3 | 0.00 | 1.05 | 0.31 | 202.XX | 17 | 0.07 | 1.02 | 0.14 |
| 041.XX | 35 | 0.14 | 1.15 | 0.38 | 221.00 | 2 | 0.0000 | 1.1785 | 0.2357 |
| 048.XX | 3 | 0.00 | 1.12 | 0.06 | 221.30 | 19 | 1.2047 | 4.4025 | 0.6558 |
| 050.00 | 12 | 6.86 | 22.97 | 0.38 | 221.XX | 21 | 1.1695 | 4.5072 | 0.6710 |
| 050.30 | 8 | 0.66 | 2.10 | 0.39 | 241.00 | 12 | 0.98 | 3.52 | 1.43 |
| 050.50 | 9 | 0.37 | 1.44 | 0.54 | 241.30 | 35 | 0.36 | 1.60 | 0.61 |
| 050.51 | 10 | 0.04 | 0.96 | 0.32 | 241.99 | 2 | 0.00 | 0.00 | 0.00 |
| 050.60 | 6 | 0.79 | 2.15 | 2.15 | 241.XX | 48 | 0.52 | 2.65 | 0.99 |
| 050.61 | 9 | 0.05 | 0.97 | 0.82 | 251.30 | 9 | 0.00 | 1.02 | 0.15 |
| 050.99 | 18 | 0.05 | 0.99 | 0.24 | 251.XX | 10 | 0.00 | 1.02 | 0.14 |
| 050.XX | 68 | 0.47 | 3.63 | 0.95 | 261.00 | 9 | 0.000 | 0.971 | 0.327 |
| 060.00 | 4 | 0.00 | 1.05 | 0.24 | 261.30 | 33 | 0.331 | 2.308 | 1.164 |
| 060.99 | 2 | 0.00 | 1.22 | 0.04 | 261.99 | 3 | 0.000 | 1.088 | 0.211 |

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 |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 261.XX | 46 | 0.152 | 1.837 | 0.954 | | | | | |
| 281.30 | 2 | 0.00 | 1.22 | 0.01 | | | | | |
| 281.XX | 3 | 0.00 | 1.12 | 0.01 | | | | | |
| 289.30 | 13 | 0.07 | 0.95 | 0.45 | | | | | |
| 289.XX | 14 | - 0.28 | 1.60 | 0.43 | | | | | |
| 291.30 | 15 | - 0.12 | 1.07 | 0.33 | | | | | |
| 291.XX | 16 | - 0.48 | 1.75 | 0.32 | | | | | |
| 301.30 | 3 | 0.00 | 1.11 | 0.10 | | | | | |
| 301.XX | 4 | - 0.02 | 0.91 | 0.08 | | | | | |
| 311.99 | 7 | 0.00 | 0.98 | 0.31 | | | | | |
| 311.XX | 7 | 0.00 | 0.98 | 0.31 | | | | | |
| 321.00 | 11 | 0.000 | 0.764 | 0.651 | | | | | |
| 321.30 | 32 | 0.625 | 2.317 | 1.720 | | | | | |
| 321.99 | 2 | 0.000 | 0.000 | 0.000 | | | | | |
| 321.XX | 44 | 0.480 | 2.635 | 1.649 | | | | | |
| 325.30 | 2 | 0.000 | 1.141 | 0.315 | | | | | |
| 325.99 | 2 | 0.000 | 0.865 | 0.613 | | | | | |
| 325.XX | 3 | 0.369 | 0.800 | 0.438 | | | | | |