

AFPC

2018-01

Grade

18-46-0

Sample

| | AOAC Ref. | Method # | # of Labs. | Grand Median | Std Dev |
|--|------------|----------|------------|--------------|---------|
| AMMONIACAL NITROGEN | | | | | |
| Ammoniacal Nitrogen, MgO distillation | 920.03 | 001.10 | 1 | 16.99 | 0.00 |
| Ammoniacal Nitrogen, Other | | 001.99 | 13 | 16.82 | 0.19 |
| Method Group 001.XX PCT | | | 14 | 16.85 | 0.23 |
| TOTAL NITROGEN | | | | | |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 3 | 17.16 | 0.17 |
| Total Nitrogen, Combustion | 993.13 | 010.60 | 20 | 17.69 | 0.13 |
| Total Nitrogen, Other | | 010.99 | 5 | 17.67 | 0.31 |
| Method Group 010.XX PCT | | | 28 | 17.68 | 0.25 |
| TOTAL PHOSPHATE | | | | | |
| Total Phosphate, Gravimetric Quimociac | | 020.10 | 2 | 46.11 | 0.04 |
| Total Phosphate, Spectrometric | 978.02 | 020.20 | 21 | 45.97 | 0.20 |
| Total Phosphate, ICP | 970.03 | 020.40 | 1 | 46.22 | 0.00 |
| Total Phosphate, ICP, Lithium | 970.02 | 020.50 | 1 | 46.45 | 0.00 |
| Total Phosphate, Other | 993.13 | 020.99 | 1 | 47.43 | 0.00 |
| Method Group 020.XX PCT | | | 26 | 46.04 | 0.45 |
| INSOLUBLE PHOSPHATE | | | | | |
| Insoluble Phosphate, Spectrometric | 963.03C(b) | 030.20 | 8 | 0.07 | 0.03 |
| Insoluble Phosphate, Alka. Quimociac | 963.03C(c) | 030.30 | 1 | 0.08 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 1 | 0.06 | 0.00 |
| Insoluble Phosphate, Other | | 030.99 | 2 | 0.05 | 0.01 |
| Method Group 030.XX PCT | | | 12 | 0.06 | 0.02 |
| INDIRECT AVAILABLE PHOSPHATE | | | | | |
| Indirect Available Phosphate, Spectrometric | 960.02 | 040.20 | 8 | 45.88 | 0.17 |
| Indirect Available Phosphate, Other | | 040.99 | 4 | 45.89 | 0.08 |
| Method Group 040.XX PCT | | | 12 | 45.88 | 0.17 |
| DIRECT AVAILABLE PHOSPHATE | | | | | |
| Direct Available Phosphate, Spectrometric | 960.03D | 041.20 | 1 | 45.90 | 0.00 |
| Direct Available Phosphate, ICP | | 041.50 | 2 | 46.15 | 0.93 |
| Direct Available Phosphate, EDTA Extract | 993.01 | 041.60 | 4 | 46.26 | 1.18 |
| Method Group 041.XX PCT | | | 7 | 45.94 | 1.15 |
| WATER SOLUBLE PHOSPHATE | | | | | |
| Water Soluble Phosphate, Gravimetric Quimociac | 962.03 | 048.10 | 1 | 40.54 | 0.00 |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 13 | 41.18 | 0.35 |
| Water Soluble Phosphate, Other | | 048.99 | 4 | 41.32 | 0.41 |
| Method Group 048.XX PCT | | | 18 | 41.18 | 0.48 |
| SOLUBLE POTASH AS K₂O | | | | | |
| Soluble Potash, ICP(Oxalate) | | 050.50 | 2 | 0.08 | 0.00 |
| Soluble Potash, ICP(Citrate) | | 050.51 | 1 | 0.10 | 0.00 |
| Soluble Potash, Other | | 050.99 | 9 | 0.09 | 0.01 |
| Method Group 050.XX PCT | | | 12 | 0.09 | 0.01 |
| FREE WATER | | | | | |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 14 | 2.49 | 0.33 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 2 | 2.44 | 0.02 |
| Free Water, Other | | 060.99 | 5 | 2.57 | 0.18 |
| Method Group 060.XX PCT | | | 21 | 2.55 | 0.21 |
| ACID SOLUBLE CALCIUM AS CaO | | | | | |
| Acid Soluble Calcium, ICP | | 101.30 | 16 | 0.24 | 0.02 |
| Method Group 101.XX PCT | | | 16 | 0.24 | 0.03 |
| ACID SOLUBLE MAGNESIUM AS MgO | | | | | |
| Acid Soluble Magnesium, ICP | | 121.30 | 14 | 1.78 | 0.13 |
| Acid Soluble Magnesium, Other | | 121.99 | 2 | 1.70 | 0.00 |
| Method Group 121.XX PCT | | | 16 | 1.77 | 0.11 |
| WATER SOLUBLE MAGNESIUM | | | | | |
| Water Soluble Magnesium, Other | | 131.99 | 1 | 0.06 | 0.00 |
| Method Group 131.XX PCT | | | 1 | 0.06 | 0.00 |
| SULFATE SULFUR (S) | | | | | |

| | | | | | |
|---|-----------|--------|----|------|------|
| Sulfur, Gravimetric | 980.02(a) | 144.01 | 2 | 1.27 | 0.03 |
| Sulfur, Other | | 144.99 | 15 | 1.23 | 0.02 |
| Method Group 144.XX PCT | | | 17 | 1.23 | 0.03 |
| TOTAL SULFUR (S) | | | | | |
| Sulfur, Other | | 145.99 | 3 | 1.26 | 0.0 |
| Method Group 145.XX PCT | | | 3 | 1.26 | 0.0 |
| TOTAL ARSENIC | | | | | |
| Total Arsenic, ICP | 980.02(b) | 151.02 | 8 | 20.3 | 1.8 |
| Total Arsenic, Other | | 151.99 | 2 | 16.5 | 0.7 |
| Method Group 151.XX PPM | | | 10 | 19.8 | 4.2 |
| ACID SOLUBLE BORON | | | | | |
| Acid Soluble Boron, Other | | 165.99 | 4 | 99 | 47.2 |
| Method Group 165.XX PPM | | | 4 | 99 | 57.5 |
| WATER SOLUBLE BORON | | | | | |
| Water Soluble Boron, Other | | 171.99 | 1 | 45 | 0.0 |
| Method Group 171.XX PPM | | | 1 | 45 | 0.0 |
| TOTAL CADMIUM | | | | | |
| Total Cadmium, Atomic Absorbtion | | 181.00 | 1 | 3 | 0.0 |
| Total Cadmium, ICP | | 181.30 | 7 | 3.4 | 0.6 |
| Total Cadmium, Other | | 181.99 | 2 | 2.6 | 0.4 |
| Method Group 181.XX PPM | | | 10 | 3.3 | 0.5 |
| ALUMINUM AS Al₂O₃ | | | | | |
| ICP, % | | | 16 | 1.22 | 0.03 |
| Water Soluble Chlorine, Other, % | | 190.99 | 2 | 1.21 | 0.00 |
| Method Group 190.XX PCT | | | 18 | 1.22 | 0.03 |
| TOTAL CHROMIUM | | | | | |
| Total Chromium, Atomic Absorbtion | | 191.00 | 1 | 96 | 0.0 |
| Total Chromium, ICP | | 191.30 | 8 | 99 | 3.4 |
| Total Chromium, Other | | 191.99 | 2 | 102 | 4.9 |
| Method Group 191.XX PPM | | | 11 | 99 | 6.8 |
| ACID SOLUBLE COBALT | | | | | |
| Acid Soluble Cobalt, ICP | | 202.30 | 6 | 4 | 0.2 |
| Acid Soluble Cobalt, Other | | 202.99 | 1 | 4 | 0.0 |
| Method Group 202.XX PPM | | | 7 | 4 | 0.2 |
| ACID SOLUBLE COPPER | | | | | |
| Acid Soluble Copper, Other | | 221.99 | 1 | 0.9 | 0.0 |
| Method Group 221.XX PPM | | | 3 | 1.0 | 0.2 |
| ACID SOLUBLE IRON AS Fe₂O₃ | | | | | |
| Acid Soluble Iron, ICP | | 241.30 | 16 | 1.71 | 0.05 |
| Acid Soluble Iron, Other | | 241.99 | 2 | 1.68 | 0.02 |
| Method Group 241.XX PCT | | | 18 | 1.71 | 0.06 |
| TOTAL LEAD | | | | | |
| Total Lead, Atomic Absorbtion | | 251.00 | 1 | 1 | 0.0 |
| Total Lead, ICP | | 251.30 | 7 | 1 | 0.6 |
| Total Lead, Other | | 251.99 | 1 | 0.9 | 0.0 |
| Method Group 251.XX PPM | | | 9 | 1 | 0.7 |
| ACID SOLUBLE MANGANESE | | | | | |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 2 | 268 | 7.8 |
| Acid Soluble Manganese, Other | | 261.99 | 6 | 271 | 41.3 |
| Method Group 261.XX PPM | | | 8 | 268 | 34.7 |
| WATER SOLUBLE MANGANESE | | | | | |
| Water Soluble Manganese, Other | | 271.99 | 1 | 11 | 0 |
| Method Group 271.XX PCT | | | 1 | 11 | 0.0 |
| TOTAL MOLYBDENUM | | | | | |
| Total Molybdenum, ICP | | 289.30 | 6 | 9 | 0.7 |
| Total Molybdenum, Other | | 289.99 | 2 | 9 | 1.1 |
| Method Group 289.XX PPM | | | 8 | 9 | 1.4 |
| TOTAL NICKEL | | | | | |
| Total Nickel, ICP | | 291.30 | 7 | 17.0 | 1.5 |
| Total Nickel, icp | | 291.99 | 2 | 14.7 | 1.3 |
| Method Group 291.XX PPM | | | 9 | 16.4 | 2.8 |
| TOTAL SELENIUM | | | | | |

| | | | | | |
|----------------------------------|--------|--------|----|------|------|
| Total Selenium, ICP | | 301.30 | 3 | 0.1 | 0.6 |
| Total Selenium, Other | | 301.99 | 1 | 1 | 0.0 |
| Method Group 301.XX PPM | | | 4 | 0.6 | 1.0 |
| SODIUM AS Na₂O | | | | | |
| Sodium, Atomic Absorbtion | 983.04 | 311.00 | 1 | 0.23 | 0.00 |
| Sodium, Other | | 311.99 | 10 | 0.18 | 0.02 |
| Method Group 311.XX PCT | | | 11 | 0.18 | 0.03 |
| ACID SOLUBLE ZINC | | | | | |
| Acid Soluble Zinc, ICP | | 321.30 | 6 | 38.4 | 3.1 |
| Acid Soluble Zinc, Other | | 321.99 | 4 | 38.8 | 2.0 |
| Method Group 321.XX % | | | 10 | 38.6 | 3.0 |
| FLUORIDE | | | | | |
| Volumetric | | 325.10 | 13 | 1.89 | 0.03 |
| Distilled/Electrode | | 325.99 | 4 | 1.92 | 0.01 |
| Method Group 325.XX PCT | | | 17 | 1.91 | 0.04 |

| 001.10 Ammoniacal Nitrogen | | |
|----------------------------|------------------|--------------|
| Lab | MgO distillation | |
| 31 | 16.99 | 0.000 |
| Median | 16.99 | 0.000 |

| 001.99 Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | Other | |
| 113 | 17.16 | -1.787 |
| 330 | 17.09 | -1.393 |
| Std Dev | 17.01 | -1.000 |
| 275 | 16.99 | -0.893 |
| 140 | 16.98 | -0.815 |
| 24 | 16.90 | -0.394 |
| 24 | 16.88 | -0.289 |
| 34 | 16.82 | 0.000 |
| Median | 16.82 | 0.000 |
| 61 | 16.80 | 0.131 |
| 275 | 16.76 | 0.315 |
| 32 | 16.72 | 0.525 |
| 32 | 16.72 | 0.552 |
| Std Dev | 16.63 | 1.000 |
| 61 | 16.62 | 1.077 |
| 79 | 16.58 | 1.287 |

| 001.XX Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | Total Method | |
| 113 | 17.16 | -1.658 |
| 330 | 17.09 | -1.260 |
| Std Dev | 17.04 | -1.000 |
| 275 | 16.99 | -0.756 |
| 31 | 16.99 | -0.730 |
| 140 | 16.98 | -0.677 |
| 24 | 16.90 | -0.252 |
| 24 | 16.88 | -0.146 |
| Median | 16.85 | 0.000 |
| 34 | 16.82 | 0.146 |
| 61 | 16.80 | 0.279 |
| 275 | 16.76 | 0.464 |
| 32 | 16.72 | 0.677 |
| 32 | 16.72 | 0.703 |
| Std Dev | 16.66 | 1.000 |
| 61 | 16.62 | 1.234 |
| 79 | 16.58 | 1.446 |

| 010.11 Total Nitrogen | | |
|-----------------------|------------------------|---------------|
| Lab | Modified Comprehensive | |
| 113 | 17.61 | -2.650 |
| Std Dev | 17.33 | -1.000 |
| 43 | 17.16 | 0.000 |
| Median | 17.16 | 0.000 |
| 43 | 17.16 | 0.030 |

| 010.60 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Combustion | |
| 66 | 17.90 | -1.548 |
| 24 | 17.89 | -1.472 |
| 24 | 17.86 | -1.283 |
| Std Dev | 17.82 | -1.000 |
| 49 | 17.81 | -0.868 |
| 63 | 17.80 | -0.830 |
| 14 | 17.77 | -0.604 |
| 110 | 17.75 | -0.415 |
| 111 | 17.74 | -0.340 |
| 14 | 17.73 | -0.302 |
| 31 | 17.69 | 0.000 |
| 140 | 17.69 | 0.000 |
| Median | 17.69 | 0.000 |
| 61 | 17.68 | 0.075 |
| 79 | 17.68 | 0.075 |
| 61 | 17.61 | 0.604 |
| 38 | 17.60 | 0.679 |
| 80 | 17.60 | 0.679 |
| Std Dev | 17.56 | 1.000 |
| 77 | 17.52 | 1.321 |
| 99 | 17.47 | 1.661 |
| 137 | 17.43 | 2.001 |
| 103 | 10.85 | 51.675 |

| 010.99 Total Nitrogen | | |
|-----------------------|--------------|--------------|
| Lab | Other | |
| 23 | 17.84 | -0.549 |
| 330 | 17.80 | -0.436 |
| 23 | 17.67 | 0.000 |
| Median | 17.67 | 0.000 |
| 32 | 17.39 | 0.904 |
| 32 | 17.38 | 0.920 |

| 010.XX Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Total Method | |
| 66 | 17.90 | -1.052 |
| 24 | 17.89 | -1.003 |
| Std Dev | 17.88 | -1.000 |
| 24 | 17.86 | -0.881 |
| 23 | 17.84 | -0.759 |
| 49 | 17.81 | -0.612 |
| 63 | 17.80 | -0.587 |
| 330 | 17.80 | -0.587 |
| 14 | 17.77 | -0.441 |
| 110 | 17.75 | -0.318 |
| 111 | 17.74 | -0.269 |
| 14 | 17.73 | -0.245 |
| 31 | 17.69 | -0.049 |
| 140 | 17.69 | -0.049 |
| 61 | 17.68 | 0.000 |
| 79 | 17.68 | 0.000 |
| Median | 17.68 | 0.000 |
| 23 | 17.67 | 0.073 |
| 61 | 17.61 | 0.343 |
| 113 | 17.61 | 0.367 |
| 38 | 17.60 | 0.392 |
| 80 | 17.60 | 0.392 |
| 77 | 17.52 | 0.808 |
| Std Dev | 17.48 | 1.000 |
| 99 | 17.47 | 1.028 |
| 137 | 17.43 | 1.248 |
| 32 | 17.39 | 1.444 |
| 32 | 17.38 | 1.468 |
| 43 | 17.16 | 2.545 |
| 43 | 17.16 | 2.570 |
| 103 | 10.85 | 33.457 |

| 020.10 Total Phosphate | | |
|------------------------|-----------------------|---------------|
| Lab | Gravimetric Quimociac | |
| 241 | 46.17 | -1.340 |
| Std Dev | 46.16 | -1.000 |
| Median | 46.11 | 0.000 |
| Std Dev | 46.07 | 1.000 |
| 113 | 46.06 | 1.340 |

| 020.20 Total Phosphate | | |
|------------------------|---------------|--|
| Lab | Spectrometric | |

| | | |
|----------------|--------------|---------------|
| 99 | 47.50 | -7.762 |
| 110 | 47.22 | -6.346 |
| 275 | 46.53 | -2.857 |
| 111 | 46.46 | -2.478 |
| 275 | 46.45 | -2.452 |
| Std Dev | 46.16 | -1.000 |
| 140 | 46.11 | -0.733 |
| 24 | 46.11 | -0.708 |
| 34 | 46.09 | -0.607 |
| 61 | 46.02 | -0.278 |
| 32 | 45.99 | -0.101 |
| 23 | 45.97 | 0.000 |
| Median | 45.97 | 0.000 |
| 31 | 45.96 | 0.025 |
| 61 | 45.95 | 0.101 |
| 24 | 45.91 | 0.278 |
| 32 | 45.89 | 0.379 |
| 43 | 45.85 | 0.607 |
| 23 | 45.84 | 0.657 |
| 79 | 45.82 | 0.758 |
| 43 | 45.78 | 0.961 |
| Std Dev | 45.77 | 1.000 |
| 14 | 45.75 | 1.112 |
| 14 | 45.71 | 1.289 |

| 020.40 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | Automated | |
| 137 | 46.22 | 0.000 |
| Median | 46.22 | 0.000 |

| 020.50 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | ICP | |
| 111 | 46.45 | 0.000 |
| Median | 46.45 | 0.000 |

| 020.99 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | Other | |
| 330 | 47.43 | 0.000 |
| Median | 47.43 | 0.000 |

| 020.XX Total Phosphate | | |
|------------------------|--------------|--------|
| Lab | Total Method | |
| 99 | 47.50 | -3.979 |
| 330 | 47.43 | -3.789 |

| | | |
|----------------|--------------|---------------|
| 110 | 47.22 | -3.217 |
| 275 | 46.53 | -1.340 |
| 111 | 46.46 | -1.136 |
| 275 | 46.45 | -1.122 |
| 111 | 46.45 | -1.109 |
| Std Dev | 46.41 | -1.000 |
| 137 | 46.22 | -0.483 |
| 241 | 46.17 | -0.361 |
| 140 | 46.11 | -0.197 |
| 24 | 46.11 | -0.184 |
| 34 | 46.09 | -0.129 |
| 113 | 46.06 | -0.048 |
| Median | 46.04 | 0.000 |
| 61 | 46.02 | 0.048 |
| 32 | 45.99 | 0.143 |
| 23 | 45.97 | 0.197 |
| 31 | 45.96 | 0.211 |
| 61 | 45.95 | 0.252 |
| 24 | 45.91 | 0.347 |
| 32 | 45.89 | 0.401 |
| 43 | 45.85 | 0.524 |
| 23 | 45.84 | 0.551 |
| 79 | 45.82 | 0.605 |
| 43 | 45.78 | 0.714 |
| 14 | 45.75 | 0.796 |
| 14 | 45.71 | 0.891 |

| | | |
|----------------------------|-------------|---------------|
| 030.20 Insoluble Phosphate | | |
| Lab | | Spectrometric |
| 113 | 0.21 | -5.459 |
| 61 | 0.10 | -1.092 |
| Std Dev | 0.10 | -1.000 |
| 23 | 0.09 | -0.695 |
| 24 | 0.08 | -0.298 |
| Median | 0.07 | 0.000 |
| 140 | 0.07 | 0.298 |
| 23 | 0.06 | 0.496 |
| 24 | 0.06 | 0.695 |
| 79 | 0.06 | 0.695 |

| | | |
|----------------------------|-------------|-----------------|
| 030.30 Insoluble Phosphate | | |
| Lab | | Alka. Quimociac |
| 31 | 0.08 | 0.000 |
| Median | 0.08 | 0.000 |

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|----------------------------|-------------|--------------|
| 030.40 Insoluble Phosphate | | |
| Lab | | Automated |
| 34 | 0.06 | 0.000 |
| Median | 0.06 | 0.000 |

| | | |
|----------------------------|-------------|---------------|
| 030.99 Insoluble Phosphate | | |
| Lab | | Other |
| 32 | 0.06 | -1.340 |
| Std Dev | 0.06 | -1.000 |
| Median | 0.05 | 0.000 |
| Std Dev | 0.05 | 1.000 |
| 32 | 0.05 | 1.340 |

| | | |
|----------------------------|-------------|---------------|
| 030.XX Insoluble Phosphate | | |
| Lab | | Total Method |
| 113 | 0.21 | -8.322 |
| 61 | 0.10 | -2.116 |
| 23 | 0.09 | -1.552 |
| Std Dev | 0.08 | -1.000 |
| 24 | 0.08 | -0.987 |
| 31 | 0.08 | -0.987 |
| 140 | 0.07 | -0.141 |
| Median | 0.06 | 0.000 |
| 23 | 0.06 | 0.141 |
| 32 | 0.06 | 0.141 |
| 34 | 0.06 | 0.141 |
| 24 | 0.06 | 0.423 |
| 79 | 0.06 | 0.423 |
| 32 | 0.05 | 0.987 |

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|-------------------------------------|--------------|---------------|
| 040.20 Indirect Available Phosphate | | |
| Lab | | Spectrometric |
| 61 | 46.39 | -2.957 |
| 24 | 46.05 | -1.005 |
| Std Dev | 46.05 | -1.000 |
| 140 | 46.05 | -0.976 |
| 31 | 45.88 | -0.015 |
| Median | 45.88 | 0.000 |
| 23 | 45.88 | 0.015 |
| 24 | 45.83 | 0.277 |
| 23 | 45.78 | 0.597 |
| 79 | 45.76 | 0.685 |

| | | |
|-------------------------------------|--------------|---------------|
| 040.99 Indirect Available Phosphate | | |
| Lab | | Other |
| 34 | 46.03 | -1.787 |
| Std Dev | 45.96 | -1.000 |
| 32 | 45.93 | -0.510 |
| Median | 45.89 | 0.000 |
| 32 | 45.85 | 0.510 |
| 113 | 45.85 | 0.510 |

| | | |
|-------------------------------------|--------------|---------------|
| 040.XX Indirect Available Phosphate | | |
| Lab | | Total Method |
| 61 | 46.39 | -3.603 |
| 24 | 46.05 | -1.225 |
| 140 | 46.05 | -1.189 |
| 34 | 46.03 | -1.047 |
| Std Dev | 46.02 | -1.000 |
| 32 | 45.93 | -0.337 |
| 31 | 45.88 | -0.018 |
| Median | 45.88 | 0.000 |
| 23 | 45.88 | 0.018 |
| 32 | 45.85 | 0.231 |
| 113 | 45.85 | 0.231 |
| 24 | 45.83 | 0.337 |
| 23 | 45.78 | 0.728 |
| 79 | 45.76 | 0.834 |

| | | |
|-----------------------------------|--------------|---------------|
| 041.20 Direct Available Phosphate | | |
| Lab | | Spectrometric |
| 38 | 45.90 | 0.000 |
| Median | 45.90 | 0.000 |

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|-----------------------------------|--------------|---------------|
| 041.50 Direct Available Phosphate | | |
| Lab | | ICP |
| 63 | 47.39 | -1.340 |
| Std Dev | 47.07 | -1.000 |
| Median | 46.15 | 0.000 |
| Std Dev | 45.22 | 1.000 |
| 80 | 44.90 | 1.340 |

| | | |
|-----------------------------------|--------------|---------------|
| 041.60 Direct Available Phosphate | | |
| Lab | | EDTA Extract |
| 103 | 49.97 | -3.135 |
| Std Dev | 47.44 | -1.000 |
| 77 | 46.58 | -0.271 |

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|---------------|--------------|--------------|
| Median | 46.26 | 0.000 |
| 49 | 45.94 | 0.271 |
| 137 | 45.55 | 0.601 |

| | | |
|-----------------------------------|--------------|---------------|
| 041.XX Direct Available Phosphate | | |
| Lab | | Total Method |
| 103 | 49.97 | -4.272 |
| 63 | 47.39 | -1.539 |
| Std Dev | 46.88 | -1.000 |
| 77 | 46.58 | -0.679 |
| 49 | 45.94 | 0.000 |
| Median | 45.94 | 0.000 |
| 38 | 45.90 | 0.048 |
| 137 | 45.55 | 0.414 |
| Std Dev | 45.00 | 1.000 |
| 80 | 44.90 | 1.104 |

| | | |
|--------------------------------|--------------|-----------------------|
| 048.10 Water Soluble Phosphate | | |
| Lab | | Gravimetric Quimociac |
| 113 | 40.54 | 0.000 |
| Median | 40.54 | 0.000 |

| | | |
|--------------------------------|--------------|---------------|
| 048.20 Water Soluble Phosphate | | |
| Lab | | Spectrometric |
| 330 | 43.96 | -7.843 |
| 14 | 42.03 | -2.384 |
| 14 | 41.93 | -2.116 |
| 24 | 41.57 | -1.100 |
| Std Dev | 41.53 | -1.000 |
| 23 | 41.45 | -0.762 |
| 61 | 41.26 | -0.212 |
| 23 | 41.18 | 0.000 |
| Median | 41.18 | 0.000 |
| 31 | 41.16 | 0.071 |
| 61 | 41.15 | 0.099 |
| 24 | 41.10 | 0.240 |
| 79 | 40.99 | 0.536 |
| 140 | 40.97 | 0.607 |
| Std Dev | 40.83 | 1.000 |
| 111 | 39.90 | 3.611 |

| | | |
|--------------------------------|-------|--------|
| 048.99 Water Soluble Phosphate | | |
| Lab | | Other |
| 32 | 41.66 | -0.841 |

| | | |
|---------|-------|--------|
| 32 | 41.46 | -0.353 |
| Median | 41.32 | 0.000 |
| 34 | 41.17 | 0.353 |
| Std Dev | 40.90 | 1.000 |
| 111 | 40.33 | 2.400 |

| 048.XX Water Soluble Phosphate | | |
|--------------------------------|--------------|--------|
| Lab | Total Method | |
| 330 | 43.96 | -7.091 |
| 14 | 42.03 | -2.164 |
| 14 | 41.93 | -1.922 |
| 32 | 41.66 | -1.235 |
| 24 | 41.57 | -1.006 |
| Std Dev | 41.57 | -1.000 |
| 32 | 41.46 | -0.726 |
| 23 | 41.45 | -0.700 |
| 61 | 41.26 | -0.204 |
| 23 | 41.18 | -0.013 |
| Median | 41.18 | 0.000 |
| 34 | 41.17 | 0.013 |
| 31 | 41.16 | 0.051 |
| 61 | 41.15 | 0.076 |
| 24 | 41.10 | 0.204 |
| 79 | 40.99 | 0.471 |
| 140 | 40.97 | 0.535 |
| Std Dev | 40.78 | 1.000 |
| 113 | 40.54 | 1.617 |
| 111 | 40.33 | 2.152 |
| 111 | 39.90 | 3.247 |

| 050.50 %K ₂ O Soluble Potash | | |
|---|--------------|--------|
| Lab | ICP(Oxalate) | |
| 23 | 0.08 | -1.340 |
| Std Dev | 0.08 | -1.000 |
| Median | 0.08 | 0.000 |
| Std Dev | 0.07 | 1.000 |
| 23 | 0.07 | 1.340 |

| 050.51 %K ₂ O Soluble Potash | | |
|---|--------------|-------|
| Lab | ICP(Citrate) | |
| 137 | 0.10 | 0.000 |
| Median | 0.10 | 0.000 |

| 050.99 Soluble Potash | | |
|-----------------------|-------------------|--------|
| Lab | %K ₂ O | Other |
| 111 | 0.12 | -3.350 |
| 61 | 0.10 | -1.340 |
| 80 | 0.10 | -1.340 |
| Std Dev | 0.10 | -1.000 |
| 24 | 0.09 | 0.000 |
| 24 | 0.09 | 0.000 |
| 31 | 0.09 | 0.000 |
| 61 | 0.09 | 0.000 |
| Median | 0.09 | 0.000 |
| 43 | 0.09 | 0.486 |
| 43 | 0.09 | 0.535 |

| 050.XX Soluble Potash | | |
|-----------------------|-------------------|--------------|
| Lab | %K ₂ O | Total Method |
| 111 | 0.12 | -2.442 |
| Std Dev | 0.10 | -1.000 |
| 61 | 0.10 | -0.977 |
| 80 | 0.10 | -0.977 |
| 137 | 0.10 | -0.977 |
| 24 | 0.09 | 0.000 |
| 24 | 0.09 | 0.000 |
| 31 | 0.09 | 0.000 |
| 61 | 0.09 | 0.000 |
| Median | 0.09 | 0.000 |
| 43 | 0.09 | 0.354 |
| 43 | 0.09 | 0.390 |
| 23 | 0.08 | 0.977 |
| Std Dev | 0.08 | 1.000 |
| 23 | 0.07 | 1.953 |

| 060.00 Free Water | | |
|-------------------|-------------|--------|
| Lab | Vacuum Oven | |
| 43 | 2.74 | -0.728 |
| 31 | 2.71 | -0.638 |
| 111 | 2.69 | -0.578 |
| 43 | 2.65 | -0.473 |
| 113 | 2.63 | -0.398 |
| 24 | 2.55 | -0.173 |
| 24 | 2.52 | -0.083 |
| Median | 2.49 | 0.000 |
| 34 | 2.47 | 0.083 |
| 140 | 2.42 | 0.233 |

| | | |
|---------|------|-------|
| 79 | 2.36 | 0.413 |
| Std Dev | 2.16 | 1.000 |
| 23 | 2.15 | 1.043 |
| 32 | 2.00 | 1.479 |
| 32 | 1.94 | 1.674 |
| 23 | 1.72 | 2.320 |

| 060.10 Free Water | | |
|-------------------|------------------|--------|
| Lab | Vacuum Desiccate | |
| 61 | 2.47 | -1.340 |
| Std Dev | 2.46 | -1.000 |
| Median | 2.44 | 0.000 |
| Std Dev | 2.42 | 1.000 |
| 61 | 2.42 | 1.340 |

| 060.99 Free Water | | |
|-------------------|-------|--------|
| Lab | Other | |
| 330 | 3.11 | -3.051 |
| 275 | 2.79 | -1.254 |
| Std Dev | 2.75 | -1.000 |
| 275 | 2.57 | 0.000 |
| Median | 2.57 | 0.000 |
| 14 | 2.56 | 0.086 |
| 14 | 2.55 | 0.114 |

| 060.XX Free Water | | |
|-------------------|--------------|--------|
| Lab | Total Method | |
| 330 | 3.11 | -3.165 |
| 275 | 2.79 | -1.369 |
| 43 | 2.74 | -1.055 |
| Std Dev | 2.73 | -1.000 |
| 31 | 2.71 | -0.884 |
| 111 | 2.69 | -0.770 |
| 43 | 2.65 | -0.570 |
| 113 | 2.63 | -0.428 |
| 275 | 2.57 | -0.114 |
| 14 | 2.56 | -0.029 |
| 14 | 2.55 | 0.000 |
| 24 | 2.55 | 0.000 |
| Median | 2.55 | 0.000 |
| 24 | 2.52 | 0.171 |
| 61 | 2.47 | 0.456 |
| 34 | 2.47 | 0.485 |
| 61 | 2.42 | 0.770 |

| | | |
|---------|------|-------|
| 140 | 2.42 | 0.770 |
| Std Dev | 2.37 | 1.000 |
| 79 | 2.36 | 1.112 |
| 23 | 2.15 | 2.309 |
| 32 | 2.00 | 3.136 |
| 32 | 1.94 | 3.507 |
| 23 | 1.72 | 4.733 |

| 101.30 Acid Soluble Calcium | | |
|-----------------------------|------|--------|
| Lab | %CaO | ICP |
| 32 | 0.32 | -3.092 |
| 23 | 0.29 | -2.062 |
| 61 | 0.29 | -1.855 |
| 61 | 0.27 | -1.237 |
| 24 | 0.27 | -1.031 |
| Std Dev | 0.26 | -1.000 |
| 24 | 0.26 | -0.618 |
| 23 | 0.24 | 0.000 |
| 32 | 0.24 | 0.000 |
| 34 | 0.24 | 0.000 |
| 111 | 0.24 | 0.000 |
| Median | 0.24 | 0.000 |
| 14 | 0.24 | 0.206 |
| 31 | 0.24 | 0.206 |
| 14 | 0.23 | 0.412 |
| 330 | 0.23 | 0.412 |
| 43 | 0.23 | 0.477 |
| 43 | 0.23 | 0.521 |

| 101.XX Acid Soluble Calcium | | |
|-----------------------------|------|--------------|
| Lab | %CaO | Total Method |
| 32 | 0.32 | -3.092 |
| 23 | 0.29 | -2.062 |
| 61 | 0.29 | -1.855 |
| 61 | 0.27 | -1.237 |
| 24 | 0.27 | -1.031 |
| Std Dev | 0.26 | -1.000 |
| 24 | 0.26 | -0.618 |
| 23 | 0.24 | 0.000 |
| 32 | 0.24 | 0.000 |
| 34 | 0.24 | 0.000 |
| 111 | 0.24 | 0.000 |
| Median | 0.24 | 0.000 |
| 14 | 0.24 | 0.206 |

| | | |
|-----|------|-------|
| 31 | 0.24 | 0.206 |
| 14 | 0.23 | 0.412 |
| 330 | 0.23 | 0.412 |
| 43 | 0.23 | 0.477 |
| 43 | 0.23 | 0.521 |

| 121.30 Acid Soluble Magnesium | | |
|-------------------------------|------|--------|
| Lab | %MgO | ICP |
| 23 | 1.84 | -0.476 |
| 61 | 1.82 | -0.318 |
| 23 | 1.82 | -0.278 |
| 34 | 1.81 | -0.238 |
| 61 | 1.81 | -0.199 |
| 24 | 1.79 | -0.079 |
| 32 | 1.79 | -0.040 |
| Median | 1.78 | 0.000 |
| 24 | 1.78 | 0.040 |
| 32 | 1.77 | 0.119 |
| 31 | 1.70 | 0.635 |
| Std Dev | 1.65 | 1.000 |
| 14 | 1.62 | 1.271 |
| 14 | 1.61 | 1.350 |
| 43 | 1.58 | 1.628 |
| 43 | 1.57 | 1.707 |

| 121.99 Acid Soluble Magnesium | | |
|-------------------------------|------|--------|
| Lab | %MgO | Other |
| 330 | 1.71 | -1.340 |
| Std Dev | 1.70 | -1.000 |
| Median | 1.70 | 0.000 |
| Std Dev | 1.70 | 1.000 |
| 111 | 1.70 | 1.340 |

| 121.XX Acid Soluble Magnesium | | |
|-------------------------------|------|--------------|
| Lab | %MgO | Total Method |
| 23 | 1.84 | -0.743 |
| 61 | 1.82 | -0.531 |
| 23 | 1.82 | -0.478 |
| 34 | 1.81 | -0.425 |
| 61 | 1.81 | -0.371 |
| 24 | 1.79 | -0.212 |
| 32 | 1.79 | -0.159 |
| 24 | 1.78 | -0.053 |
| Median | 1.77 | 0.000 |

| | | |
|---------|------|-------|
| 32 | 1.77 | 0.053 |
| 330 | 1.71 | 0.690 |
| 31 | 1.70 | 0.743 |
| 111 | 1.70 | 0.743 |
| Std Dev | 1.68 | 1.000 |
| 14 | 1.62 | 1.592 |
| 14 | 1.61 | 1.698 |
| 43 | 1.58 | 2.070 |
| 43 | 1.57 | 2.176 |

| 144..01 Sulfate Sulfur (S) | | |
|----------------------------|-------------|--------|
| Lab | Gravimetric | |
| 241 | 1.31 | -1.340 |
| Std Dev | 1.30 | -1.000 |
| Median | 1.27 | 0.000 |
| Std Dev | 1.24 | 1.000 |
| 79 | 1.23 | 1.340 |

| 144.99 Sulfate Sulfur (S) | | |
|---------------------------|-------|----------|
| Lab | Other | |
| 330 | 3.71 | -102.046 |
| 275 | 1.26 | -1.237 |
| 23 | 1.26 | -1.031 |
| Std Dev | 1.25 | -1.000 |
| 32 | 1.25 | -0.825 |
| 14 | 1.24 | -0.412 |
| 23 | 1.24 | -0.206 |
| 24 | 1.24 | -0.206 |
| 34 | 1.23 | 0.000 |
| Median | 1.23 | 0.000 |
| 32 | 1.22 | 0.412 |
| 275 | 1.22 | 0.412 |
| 24 | 1.22 | 0.618 |
| 14 | 1.21 | 0.825 |
| Std Dev | 1.21 | 1.000 |
| 31 | 1.19 | 1.855 |
| 61 | 1.19 | 1.855 |
| 61 | 1.15 | 3.505 |

| 144.XX Sulfate Sulfur (S) | | |
|---------------------------|--------------|---------|
| Lab | Total Method | |
| 330 | 3.71 | -94.757 |
| 241 | 1.31 | -3.063 |
| 275 | 1.26 | -1.149 |

| | | |
|---------|------|--------|
| Std Dev | 1.26 | -1.000 |
| 23 | 1.26 | -0.957 |
| 32 | 1.25 | -0.766 |
| 14 | 1.24 | -0.383 |
| 23 | 1.24 | -0.191 |
| 24 | 1.24 | -0.191 |
| 34 | 1.23 | 0.000 |
| 79 | 1.23 | 0.000 |
| Median | 1.23 | 0.000 |
| 32 | 1.22 | 0.383 |
| 275 | 1.22 | 0.383 |
| 24 | 1.22 | 0.574 |
| 14 | 1.21 | 0.766 |
| Std Dev | 1.20 | 1.000 |
| 31 | 1.19 | 1.723 |
| 61 | 1.19 | 1.723 |
| 61 | 1.15 | 3.254 |

| 145.99 Total Sulfur (S) | | |
|-------------------------|-------|--------|
| Lab | Other | |
| 43 | 1.28 | -0.473 |
| 111 | 1.26 | 0.000 |
| Median | 1.26 | 0.000 |
| Std Dev | 1.23 | 1.000 |
| 43 | 1.19 | 2.207 |

| 145.XX Total Sulfur (S) | | |
|-------------------------|--------------|--------|
| Lab | Total Method | |
| 43 | 1.28 | -0.473 |
| 111 | 1.26 | 0.000 |
| Median | 1.26 | 0.000 |
| Std Dev | 1.23 | 1.000 |
| 43 | 1.19 | 2.207 |

| 151.30 Total Arsenic | | |
|----------------------|-------|--------|
| Lab | ICP | |
| 113 | 30.80 | -6.016 |
| Std Dev | 22.00 | -1.000 |
| 43 | 21.05 | -0.456 |
| 43 | 20.85 | -0.342 |
| 61 | 20.50 | -0.143 |
| Median | 20.25 | 0.000 |
| 330 | 20.00 | 0.143 |
| 61 | 19.50 | 0.428 |

| | | |
|---------|-------|-------|
| Std Dev | 18.50 | 1.000 |
| 24 | 15.70 | 2.594 |
| 111 | 8.00 | 6.985 |

| 151.99 Total Arsenic | | |
|----------------------|-------|--------|
| Lab | Other | |
| 140 | 17.42 | -1.340 |
| Std Dev | 17.18 | -1.000 |
| Median | 16.48 | 0.000 |
| Std Dev | 15.79 | 1.000 |
| 31 | 15.55 | 1.340 |

| 151.XX Total Arsenic | | |
|----------------------|--------------|--------|
| Lab | Total Method | |
| 113 | 30.80 | -3.195 |
| Std Dev | 23.21 | -1.000 |
| 43 | 21.05 | -0.376 |
| 43 | 20.85 | -0.318 |
| 61 | 20.50 | -0.217 |
| 330 | 20.00 | -0.072 |
| Median | 19.75 | 0.000 |
| 61 | 19.50 | 0.072 |
| 140 | 17.42 | 0.675 |
| Std Dev | 16.29 | 1.000 |
| 24 | 15.70 | 1.171 |
| 31 | 15.55 | 1.215 |
| 111 | 8.00 | 3.398 |

| 165.99 Acid Soluble Boron | | |
|---------------------------|--------|--------|
| Lab | PPM | Other |
| 275 | 138.61 | -0.842 |
| 275 | 125.46 | -0.563 |
| Median | 98.91 | 0.000 |
| 330 | 72.36 | 0.563 |
| Std Dev | 51.73 | 1.000 |
| 24 | 45.05 | 1.142 |

| 165.XX, ppm Acid Soluble Boron | | |
|--------------------------------|--------|--------------|
| Lab | PPM | Total Method |
| 275 | 138.61 | -0.842 |
| 275 | 125.46 | -0.563 |
| Median | 98.91 | 0.000 |
| 330 | 72.36 | 0.563 |
| Std Dev | 51.73 | 1.000 |

| | | |
|----------------------------|-------|------------------|
| 24 | 45.05 | 1.142 |
| 171.99 Water Soluble Boron | | |
| Lab | PPM | Other |
| 330 | 44.50 | 0.000 |
| Median | 44.50 | 0.000 |
| 171.XX Water Soluble Boron | | |
| Lab | PPM | Total Method |
| 330 | 44.50 | 0.000 |
| Median | 44.50 | 0.000 |
| 181.00 Total Cadmium | | |
| Lab | | Atomic Absorbion |
| 330 | 3.46 | 0.000 |
| Median | 3.46 | 0.000 |
| 181.30 Total Cadmium | | |
| Lab | PPM | ICP |
| 43 | 4.26 | -1.441 |
| 43 | 4.14 | -1.239 |
| Std Dev | 3.99 | -1.000 |
| 275 | 3.52 | -0.243 |
| 275 | 3.37 | 0.000 |
| Median | 3.37 | 0.000 |
| 61 | 3.00 | 0.599 |
| 111 | 3.00 | 0.599 |
| Std Dev | 2.75 | 1.000 |
| 113 | 2.60 | 1.247 |
| 181.99 Total Cadmium | | |
| Lab | | Other |
| 24 | 3.18 | -1.340 |
| Std Dev | 3.04 | -1.000 |
| Median | 2.62 | 0.000 |
| Std Dev | 2.19 | 1.000 |
| 31 | 2.05 | 1.340 |
| 181.XX Total Cadmium | | |
| Lab | PPM | Total Method |
| 43 | 4.26 | -2.620 |
| 43 | 4.14 | -2.288 |
| Std Dev | 3.65 | -1.000 |
| 275 | 3.52 | -0.652 |

| | | |
|-----------------|---------------------------------|-------------------|
| 330 | 3.46 | -0.479 |
| 275 | 3.37 | -0.253 |
| Median | 3.28 | 0.000 |
| 24 | 3.18 | 0.253 |
| 61 | 3.00 | 0.732 |
| 111 | 3.00 | 0.732 |
| Std Dev | 2.90 | 1.000 |
| 113 | 2.60 | 1.796 |
| 31 | 2.05 | 3.259 |
| 190.00 Aluminum | | |
| Lab | %Al ₂ O ₃ | ICP |
| 275 | 1.35 | -4.238 |
| 14 | 1.29 | -2.094 |
| 14 | 1.28 | -1.926 |
| 32 | 1.26 | -1.089 |
| Std Dev | 1.25 | -1.000 |
| 34 | 1.24 | -0.586 |
| 23 | 1.24 | -0.419 |
| 61 | 1.23 | -0.251 |
| 24 | 1.23 | -0.084 |
| Median | 1.22 | 0.000 |
| 23 | 1.22 | 0.084 |
| 24 | 1.22 | 0.084 |
| 32 | 1.22 | 0.084 |
| 61 | 1.22 | 0.251 |
| Std Dev | 1.19 | 1.000 |
| 43 | 1.17 | 1.759 |
| 275 | 1.17 | 1.809 |
| 43 | 1.17 | 1.926 |
| 111 | 0.88 | 11.641 |
| 190.99 Aluminum | | |
| Lab | %Al ₂ O ₃ | Atomic Absorption |
| 31 | 1.21 | 0.000 |
| 330 | 1.21 | 0.000 |
| Median | 1.21 | 0.000 |
| 190.XX Aluminum | | |
| Lab | %Al ₂ O ₃ | Total Method |
| 275 | 1.35 | -6.013 |
| 14 | 1.29 | -3.030 |
| 14 | 1.28 | -2.797 |
| 32 | 1.26 | -1.631 |

| | | |
|-----------------------|--------|------------------|
| Std Dev | 1.24 | -1.000 |
| 34 | 1.24 | -0.932 |
| 23 | 1.24 | -0.699 |
| 61 | 1.23 | -0.466 |
| 24 | 1.23 | -0.233 |
| 23 | 1.22 | 0.000 |
| 24 | 1.22 | 0.000 |
| 32 | 1.22 | 0.000 |
| Median | 1.22 | 0.000 |
| 61 | 1.22 | 0.233 |
| 31 | 1.21 | 0.466 |
| 330 | 1.21 | 0.466 |
| Std Dev | 1.20 | 1.000 |
| 43 | 1.17 | 2.330 |
| 275 | 1.17 | 2.400 |
| 43 | 1.17 | 2.563 |
| 111 | 0.88 | 16.080 |
| 191.00 Total Chromium | | |
| Lab | | Atomic Absorbion |
| 330 | 96.05 | 0.000 |
| Median | 96.05 | 0.000 |
| 191.30 Total Chromium | | |
| Lab | | ICP |
| 275 | 112.90 | -4.042 |
| 275 | 106.10 | -2.029 |
| Std Dev | 102.63 | -1.000 |
| 61 | 102.00 | -0.814 |
| 111 | 99.50 | -0.074 |
| Median | 99.25 | 0.000 |
| 43 | 99.00 | 0.074 |
| 43 | 99.00 | 0.074 |
| 61 | 97.00 | 0.666 |
| Std Dev | 95.87 | 1.000 |
| 113 | 85.90 | 3.953 |
| 191.99 Total Chromium | | |
| Lab | PPM | Other |
| 31 | 108.55 | -1.340 |
| Std Dev | 106.89 | -1.000 |
| Median | 102.00 | 0.000 |
| Std Dev | 97.11 | 1.000 |
| 24 | 95.45 | 1.340 |

| | | |
|----------------------------|--------|--------------|
| 191.XX Total Chromium | | |
| Lab | PPM | Total Method |
| 275 | 112.90 | -2.475 |
| 31 | 108.55 | -1.701 |
| 275 | 106.10 | -1.264 |
| Std Dev | 104.62 | -1.000 |
| 61 | 102.00 | -0.534 |
| 111 | 99.50 | -0.089 |
| 43 | 99.00 | 0.000 |
| 43 | 99.00 | 0.000 |
| Median | 99.00 | 0.000 |
| 61 | 97.00 | 0.356 |
| 330 | 96.05 | 0.525 |
| 24 | 95.45 | 0.632 |
| Std Dev | 93.38 | 1.000 |
| 113 | 85.90 | 2.333 |
| 202.30 Acid Soluble Cobalt | | |
| Lab | PPM | ICP |
| 43 | | |
| 202.99 Acid Soluble Cobalt | | |
| Lab | | Other |
| 24 | 3.95 | 0.000 |
| Median | 3.95 | 0.000 |
| 202.XX Acid Soluble Cobalt | | |
| Lab | PPM | Total Method |
| 43 | 4.00 | 0.000 |
| 43 | 4.00 | 0.000 |
| 61 | 4.00 | 0.000 |
| 61 | 4.00 | 0.000 |
| Median | 4.00 | 0.000 |
| 24 | 3.95 | 0.339 |
| Std Dev | 3.85 | 1.000 |
| 330 | 3.66 | 2.341 |
| 111 | 3.50 | 3.392 |
| 221.30 Acid Soluble Copper | | |
| Lab | PPM | ICP |
| 61 | <0.4 | 0.000 |
| 61 | <0.4 | 0.000 |
| 43 | 1.00 | 0.000 |
| 43 | 1.00 | 0.000 |

Median 1.00 0.000

| 221.99 Acid Soluble Copper | | |
|----------------------------|-------------|--------------|
| Lab | | Other |
| 24 | 1.54 | 0.000 |
| Median | 1.54 | 0.000 |

| 221.XX Acid Soluble Copper | | |
|----------------------------|-------------|---------------|
| Lab | PPM | Total Method |
| 61 | <0.4 | 0.000 |
| 61 | <0.4 | 0.000 |
| 24 | 1.54 | -2.680 |
| Std Dev | 1.20 | -1.000 |
| 43 | 1.00 | 0.000 |
| 43 | 1.00 | 0.000 |
| Median | 1.00 | 0.000 |

| 241.30 Acid Soluble Iron | | |
|--------------------------|---------------------------------|---------------|
| Lab | %Fe ₂ O ₃ | ICP |
| 111 | 1.80 | -1.719 |
| Std Dev | 1.76 | -1.000 |
| 24 | 1.76 | -0.910 |
| 32 | 1.75 | -0.809 |
| 24 | 1.74 | -0.607 |
| 34 | 1.74 | -0.607 |
| 43 | 1.73 | -0.405 |
| 43 | 1.72 | -0.202 |
| 23 | 1.71 | 0.000 |
| 23 | 1.71 | 0.000 |
| Median | 1.71 | 0.000 |
| 14 | 1.70 | 0.303 |
| 14 | 1.68 | 0.607 |
| 61 | 1.68 | 0.708 |
| 32 | 1.67 | 0.809 |
| Std Dev | 1.66 | 1.000 |
| 61 | 1.62 | 1.922 |
| 275 | 1.44 | 5.461 |
| 275 | 1.44 | 5.481 |

| 241.99 Acid Soluble Iron | | |
|--------------------------|---------------------------------|---------------|
| Lab | %Fe ₂ O ₃ | Other |
| 31 | 1.70 | -1.340 |
| Std Dev | 1.69 | -1.000 |
| Median | 1.68 | 0.000 |

Std Dev 1.66 1.000
330 1.65 1.340

| 241.XX Acid Soluble Iron | | |
|--------------------------|---------------------------------|---------------|
| Lab | %Fe ₂ O ₃ | Total Method |
| 111 | 1.80 | -1.820 |
| 24 | 1.76 | -1.011 |
| Std Dev | 1.75 | -1.000 |
| 32 | 1.75 | -0.910 |
| 24 | 1.74 | -0.708 |
| 34 | 1.74 | -0.708 |
| 43 | 1.73 | -0.506 |
| 43 | 1.72 | -0.303 |
| 23 | 1.71 | -0.101 |
| 23 | 1.71 | -0.101 |
| Median | 1.71 | 0.000 |
| 31 | 1.70 | 0.101 |
| 14 | 1.70 | 0.202 |
| 14 | 1.68 | 0.506 |
| 61 | 1.68 | 0.607 |
| 32 | 1.67 | 0.708 |
| Std Dev | 1.66 | 1.000 |
| 330 | 1.65 | 1.112 |
| 61 | 1.62 | 1.820 |
| 275 | 1.44 | 5.360 |
| 275 | 1.44 | 5.380 |

| 251.00 Total Lead | | |
|-------------------|-------------|-------------------|
| Lab | | Atomic Absorbtion |
| 330 | 1.00 | 0.000 |
| Median | 1.00 | 0.000 |

| 251.30 Total Lead | | |
|-------------------|-------------|---------------|
| Lab | PPM | ICP |
| 61 | 2.00 | -1.556 |
| 43 | 1.80 | -1.210 |
| 43 | 1.75 | -1.124 |
| Std Dev | 1.68 | -1.000 |
| 275 | 1.10 | 0.000 |
| Median | 1.10 | 0.000 |
| 61 | 1.00 | 0.173 |
| 275 | 1.00 | 0.173 |
| 113 | 0.90 | 0.346 |

| 251.99 Total Lead | | |
|-------------------|-------------|--------------|
| Lab | | Other |
| 24 | 0.85 | 0.000 |
| Median | 0.85 | 0.000 |

| 251.XX Total Lead | | |
|-------------------|-------------|---------------|
| Lab | PPM | Total Method |
| 61 | 2.00 | -1.787 |
| 43 | 1.80 | -1.429 |
| 43 | 1.75 | -1.340 |
| Std Dev | 1.56 | -1.000 |
| 275 | 1.10 | -0.179 |
| 61 | 1.00 | 0.000 |
| 275 | 1.00 | 0.000 |
| 330 | 1.00 | 0.000 |
| Median | 1.00 | 0.000 |
| 113 | 0.90 | 0.179 |
| 24 | 0.85 | 0.268 |

| 261.30 Acid Soluble Manganese | | |
|-------------------------------|---------------|---------------|
| Lab | | ICP |
| 111 | 278.50 | -1.340 |
| Std Dev | 275.84 | -1.000 |
| Median | 268.00 | 0.000 |
| Std Dev | 260.16 | 1.000 |
| 330 | 257.50 | 1.340 |

| 261.99 Acid Soluble Manganese | | |
|-------------------------------|---------------|--------------|
| Lab | PPM | Other |
| 31 | 292.20 | -0.507 |
| 43 | 287.00 | -0.381 |
| 43 | 286.00 | -0.357 |
| Median | 271.25 | 0.000 |
| 24 | 256.50 | 0.357 |
| Std Dev | 229.93 | 1.000 |
| 61 | 223.00 | 1.168 |
| 61 | 220.50 | 1.228 |

| 261.XX Acid Soluble Manganese | | |
|-------------------------------|--------|--------------|
| Lab | PPM | Total Method |
| 31 | 292.20 | -0.851 |
| 43 | 287.00 | -0.668 |
| 43 | 286.00 | -0.633 |
| 111 | 278.50 | -0.369 |

| Median 268.00 0.000 | | |
|---------------------|---------------|--------------|
| Lab | | |
| 330 | 257.50 | 0.369 |
| 24 | 256.50 | 0.404 |
| Std Dev | 239.55 | 1.000 |
| 61 | 223.00 | 1.582 |
| 61 | 220.50 | 1.670 |

| 271.99 Water Soluble Manganese | | |
|--------------------------------|--------------|--------------|
| Lab | | Other |
| 330 | 11.00 | 0.000 |
| Median | 11.00 | 0.000 |

| 271.XX Water Soluble Manganese | | |
|--------------------------------|--------------|--------------|
| Lab | PPM | Total Method |
| 330 | 11.00 | 0.000 |
| Median | 11.00 | 0.000 |

| 281.30 Total Mercury | | |
|----------------------|-------------|--------------|
| Lab | PPM | ICP |
| 24 | <0.01 | 0.000 |
| Median | 0.00 | 0.000 |

| 281.XX Total Mercury | | |
|----------------------|-------------|--------------|
| Lab | PPM | Total Method |
| 24 | <0.01 | 0.000 |
| Median | 0.00 | 0.000 |

| 289.30 Total Molybdenum | | |
|-------------------------|-----|-----|
| Lab | PPM | ICP |
| 111 | | |

| 289.99 Total Molybdenum | | |
|-------------------------|-------------|---------------|
| Lab | PPM | Other |
| 24 | 10.00 | -1.340 |
| Std Dev | 9.63 | -1.000 |
| Median | 8.55 | 0.000 |
| Std Dev | 7.47 | 1.000 |
| 31 | 7.10 | 1.340 |

| 289.XX Total Molybdenum | | |
|-------------------------|-------------|---------------|
| Lab | PPM | Total Method |
| 24 | 10.00 | -1.158 |
| 111 | 10.00 | -1.158 |
| Std Dev | 9.82 | -1.000 |
| 43 | 9.10 | -0.380 |

| | | |
|---------|------|--------|
| 43 | 8.90 | -0.207 |
| Median | 8.66 | 0.000 |
| 330 | 8.42 | 0.207 |
| 61 | 8.00 | 0.571 |
| Std Dev | 7.50 | 1.000 |
| 31 | 7.10 | 1.349 |
| 61 | 6.50 | 1.867 |

| | | |
|--------|--------------|-----|
| 291.30 | Total Nickel | |
| Lab | PPM | ICP |
| 330 | | |

| | | |
|---------|--------------|--------|
| 291.99 | Total Nickel | |
| Lab | PPM | Other |
| 24 | 16.40 | -1.340 |
| Std Dev | 15.97 | -1.000 |
| Median | 14.70 | 0.000 |
| Std Dev | 13.43 | 1.000 |
| 31 | 13.00 | 1.340 |

| | | |
|---------|--------------|--------------|
| 291.XX | Total Nickel | |
| Lab | PPM | Total Method |
| 330 | 19.60 | -1.383 |
| Std Dev | 18.71 | -1.000 |
| 43 | 17.00 | -0.259 |
| 43 | 17.00 | -0.259 |
| 61 | 17.00 | -0.259 |
| 24 | 16.40 | 0.000 |
| Median | 16.40 | 0.000 |
| 61 | 16.00 | 0.173 |
| Std Dev | 14.09 | 1.000 |
| 275 | 13.90 | 1.081 |
| 275 | 13.36 | 1.314 |
| 31 | 13.00 | 1.470 |

| | | |
|---------|----------------|--------|
| 301.30 | Total Selenium | |
| Lab | PPM | ICP |
| 140 | 1.70 | -2.574 |
| Std Dev | 0.73 | -1.000 |
| 24 | 0.12 | 0.000 |
| Median | 0.12 | 0.000 |
| 61 | 0.06 | 0.106 |

| | | |
|--------|----------------|-------|
| 301.99 | Total Selenium | |
| Lab | PPM | Other |

| | | |
|--------|------|-------|
| 330 | 1.00 | 0.000 |
| Median | 1.00 | 0.000 |

| | | |
|---------|----------------|--------------|
| 301.XX | Total Selenium | |
| Lab | PPM | Total Method |
| 140 | 1.70 | -1.421 |
| Std Dev | 1.36 | -1.000 |
| 330 | 1.00 | -0.551 |
| Median | 0.56 | 0.000 |
| 24 | 0.12 | 0.551 |
| 61 | 0.06 | 0.632 |

| | | |
|--------|--------------------|------------------|
| 311.00 | Sodium | |
| Lab | %Na ₂ O | Atomic Absorbion |
| 330 | 0.23 | 0.000 |
| Median | 0.23 | 0.000 |

| | | |
|---------|--------------------|--------|
| 311.99 | Sodium | |
| Lab | %Na ₂ O | Other |
| 24 | 0.22 | -2.010 |
| 111 | 0.21 | -1.742 |
| 24 | 0.20 | -1.206 |
| Std Dev | 0.20 | -1.000 |
| 61 | 0.18 | -0.134 |
| 61 | 0.18 | -0.134 |
| Median | 0.18 | 0.000 |
| 31 | 0.18 | 0.134 |
| 23 | 0.17 | 0.402 |
| 23 | 0.17 | 0.402 |
| Std Dev | 0.16 | 1.000 |
| 43 | 0.15 | 1.432 |
| 43 | 0.15 | 1.494 |

| | | |
|---------|--------------------|--------------|
| 311.XX | Sodium | |
| Lab | %Na ₂ O | Total Method |
| 330 | 0.23 | -1.914 |
| 24 | 0.22 | -1.340 |
| 111 | 0.21 | -1.149 |
| Std Dev | 0.21 | -1.000 |
| 24 | 0.20 | -0.766 |
| 61 | 0.18 | 0.000 |
| 61 | 0.18 | 0.000 |
| Median | 0.18 | 0.000 |
| 31 | 0.18 | 0.191 |

| | | |
|---------|------|-------|
| 23 | 0.17 | 0.383 |
| 23 | 0.17 | 0.383 |
| Std Dev | 0.15 | 1.000 |
| 43 | 0.15 | 1.119 |
| 43 | 0.15 | 1.163 |

| | | |
|---------|-------------------|--------|
| 321.30 | Acid Soluble Zinc | |
| Lab | PPM | ICP |
| 275 | 43.00 | -1.516 |
| Std Dev | 41.43 | -1.000 |
| 275 | 41.20 | -0.926 |
| 24 | 38.75 | -0.123 |
| Median | 38.38 | 0.000 |
| 61 | 38.00 | 0.123 |
| 61 | 36.00 | 0.779 |
| 111 | 36.00 | 0.779 |

| | | |
|---------|-------------------|--------|
| 321.99 | Acid Soluble Zinc | |
| Lab | PPM | Other |
| 43 | 40.00 | -0.618 |
| 43 | 39.00 | -0.124 |
| Median | 38.75 | 0.000 |
| 330 | 38.50 | 0.124 |
| Std Dev | 36.73 | 1.000 |
| 31 | 30.65 | 4.001 |

| | | |
|---------|-------------------|--------------|
| 321.XX | Acid Soluble Zinc | |
| Lab | PPM | Total Method |
| 275 | 43.00 | -1.804 |
| 275 | 41.20 | -1.062 |
| Std Dev | 41.05 | -1.000 |
| 43 | 40.00 | -0.567 |
| 43 | 39.00 | -0.155 |
| 24 | 38.75 | -0.052 |
| Median | 38.63 | 0.000 |
| 330 | 38.50 | 0.052 |
| 61 | 38.00 | 0.258 |
| Std Dev | 36.20 | 1.000 |
| 61 | 36.00 | 1.082 |
| 111 | 36.00 | 1.082 |
| 31 | 30.65 | 3.288 |

| | | |
|--------|----------|-----------|
| 325.10 | Fluoride | |
| Lab | % | Electrode |

| | | |
|--------|------|--------|
| 32 | 2.04 | -4.467 |
| 79 | 1.96 | -2.084 |
| 23 | 1.95 | -1.936 |
| 24 | 1.92 | -0.893 |
| 14 | 1.91 | -0.596 |
| 14 | 1.89 | -0.149 |
| 23 | 1.89 | 0.000 |
| Median | 1.89 | 0.000 |
| 275 | 1.88 | 0.149 |
| 34 | 1.88 | 0.298 |
| 32 | 1.87 | 0.447 |
| 24 | 1.86 | 0.744 |
| 275 | 1.80 | 2.531 |
| 111 | 0.26 | 48.389 |

| | | |
|--------|----------|--------|
| 325.99 | Fluoride | |
| Lab | % | Other |
| 31 | 1.97 | -4.467 |
| 61 | 1.92 | 0.000 |
| 330 | 1.92 | 0.000 |
| Median | 1.92 | 0.000 |
| 61 | 1.91 | 0.893 |

| | | |
|--------|----------|--------------|
| 325.XX | Fluoride | |
| Lab | % | Total Method |
| 32 | 2.04 | -4.355 |
| 31 | 1.97 | -2.010 |
| 79 | 1.96 | -1.675 |
| 23 | 1.95 | -1.508 |
| 24 | 1.92 | -0.335 |
| 61 | 1.92 | -0.335 |
| 330 | 1.92 | -0.335 |
| 14 | 1.91 | 0.000 |
| 61 | 1.91 | 0.000 |
| Median | 1.91 | 0.000 |
| 14 | 1.89 | 0.502 |
| 23 | 1.89 | 0.670 |
| 275 | 1.88 | 0.837 |
| 34 | 1.88 | 1.005 |
| 32 | 1.87 | 1.172 |
| 24 | 1.86 | 1.507 |
| 275 | 1.80 | 3.517 |
| 111 | 0.26 | 55.108 |