

AFPC

Sample

2019-06

Grade

18-46-0

| | AOAC Ref. | Method # | # of Labs. | Grand Median | Std Dev |
|---|------------|----------|------------|--------------|---------|
| AMMONIACAL NITROGEN | | | | | |
| Ammoniacal Nitrogen, MgO distillation | 920.03 | 001.10 | 1 | 17.92 | 0.00 |
| Ammoniacal Nitrogen, Other | | 001.99 | 9 | 17.94 | 0.15 |
| Method Group 001.XX PCT | | | 10 | 17.93 | 0.17 |
| NITRATE NITROGEN | | | | | |
| Nitrate Nitrogen, Other | | 002.99 | 1 | 0.01 | 0.00 |
| Method Group 002.XX PCT | | | 1 | 0.01 | 0.00 |
| AMMON & NITRATE N | | | | | |
| Ammon & Nitrate N, Other | | 009.99 | 1 | 17.96 | 0.00 |
| Method Group 009.XX PCT | | | 1 | 17.96 | 0.00 |
| TOTAL NITROGEN | | | | | |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 3 | 18.11 | 0.02 |
| Total Nitrogen, Combustion | 993.13 | 010.60 | 17 | 18.03 | 0.12 |
| Total Nitrogen, Other | | 010.99 | 7 | 18.18 | 0.08 |
| Method Group 010.XX PCT | | | 27 | 18.09 | 0.11 |
| TOTAL PHOSPHATE | | | | | |
| Total Phosphate, Spectrometric | 978.02 | 020.20 | 19 | 46.74 | 0.34 |
| Total Phosphate, ICP | 970.03 | 020.40 | 1 | 46.76 | 0.00 |
| Total Phosphate, Other | 993.13 | 020.99 | 2 | 46.50 | 0.09 |
| Method Group 020.XX PCT | | | 22 | 46.71 | 0.41 |
| INSOLUBLE PHOSPHATE | | | | | |
| Insoluble Phosphate, Spectrometric | 963.03C(b) | 030.20 | 10 | 0.02 | 0.01 |
| Insoluble Phosphate, Alka. Quimociac | 963.03C(c) | 030.30 | 1 | 0.03 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 2 | 0.02 | 0.00 |
| Insoluble Phosphate, Other | | 030.99 | 1 | 0.10 | 0.00 |
| Method Group 030.XX PCT | | | 14 | 0.02 | 0.01 |
| INDIRECT AVAILABLE PHOSPHATE | | | | | |
| Indirect Available Phosphate, Spectrometric | 960.02 | 040.20 | 12 | 46.66 | 0.41 |
| Indirect Available Phosphate, Other | | 040.99 | 2 | 46.68 | 0.11 |
| Method Group 040.XX PCT | | | 14 | 46.66 | 0.51 |
| DIRECT AVAILABLE PHOSPHATE | | | | | |
| Direct Available Phosphate, Gravimetric Quimociac | 960.03E | 041.10 | 2 | 46.72 | 0.27 |
| Direct Available Phosphate, Spectrometric | 960.03D | 041.20 | 2 | 46.29 | 0.25 |
| Direct Available Phosphate, Automated | 978.01 | 041.40 | 1 | 46.46 | 0.00 |
| Direct Available Phosphate, ICP | | 041.50 | 4 | 46.34 | 1.78 |
| Direct Available Phosphate, EDTA Extract | 993.01 | 041.60 | 4 | 46.88 | 0.89 |
| Direct Available Phosphate, Other | | 041.99 | 2 | 46.04 | 0.25 |
| Method Group 041.XX PCT | | | 15 | 46.46 | 0.72 |
| WATER SOLUBLE PHOSPHATE | | | | | |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 16 | 42.35 | 0.73 |
| Water Soluble Phosphate, Other | | 048.99 | 3 | 42.50 | 0.35 |
| Method Group 048.XX PCT | | | 19 | 42.39 | 0.87 |
| SOLUBLE POTASH AS K₂O | | | | | |
| Soluble Potash, ICP(Oxalate) | | 050.50 | 2 | 0.25 | 0.00 |
| Soluble Potash, Other | | 050.99 | 10 | 0.25 | 0.01 |
| Method Group 050.XX PCT | | | 12 | 0.25 | 0.01 |
| FREE WATER | | | | | |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 12 | 0.92 | 0.15 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 2 | 0.75 | 0.13 |
| Free Water, Other | | 060.99 | 6 | 1.00 | 0.13 |
| Method Group 060.XX PCT | | | 20 | 0.92 | 0.17 |
| ACID SOLUBLE CALCIUM AS CaO | | | | | |
| Acid Soluble Calcium, Atomic Absorption | 945.04 | 101.00 | 1 | 0.17 | 0.00 |
| Acid Soluble Calcium, ICP | | 101.30 | 15 | 0.37 | 0.03 |

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|---|-----------|--------|----|------|------|
| Acid Soluble Calcium, Other | | 101.99 | 1 | 0.19 | 0.00 |
| Method Group 101.XX PCT | | | 17 | 0.37 | 0.05 |
| ACID SOLUBLE MAGNESIUM AS MgO | | | | | |
| Acid Soluble Magnesium, Atomic Absorption | 984.01 | 121.00 | 1 | 0.17 | 0.00 |
| Acid Soluble Magnesium, ICP | | 121.30 | 13 | 0.29 | 0.01 |
| Acid Soluble Magnesium, Other | | 121.99 | 3 | 0.27 | 0.04 |
| Method Group 121.XX PCT | | | 17 | 0.28 | 0.02 |
| 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 | 1 | 2.26 | 0.00 |
| Sulfur, Other | | 144.99 | 12 | 2.19 | 0.04 |
| Method Group 144.XX PCT | | | 13 | 2.19 | 0.05 |
| TOTAL SULFUR (S) | | | | | |
| Sulfur, Other | | 145.99 | 3 | 2.18 | 0.0 |
| Method Group 145.XX PCT | | | 3 | 2.18 | 0.0 |
| TOTAL ARSENIC | | | | | |
| Total Arsenic, ICP | 980.02(b) | 151.02 | 9 | 14.5 | 3.4 |
| Total Arsenic, Other | | 151.99 | 1 | 14.2 | 0.0 |
| Method Group 151.XX PPM | | | 10 | 14.5 | 3.7 |
| ACID SOLUBLE BORON | | | | | |
| Acid Soluble Boron, Other | | 165.99 | 2 | 37 | 9.2 |
| Method Group 165.XX PPM | | | 2 | 37 | 11.2 |
| WATER SOLUBLE BORON | | | | | |
| Water Soluble Boron, Other | | 171.99 | 1 | 56 | 0.0 |
| Method Group 171.XX PPM | | | 1 | 56 | 0.0 |
| TOTAL CADMIUM | | | | | |
| Total Cadmium, Atomic Absorbtion | | 181.00 | 1 | | 0.0 |
| Total Cadmium, ICP | | 181.30 | 9 | 1.2 | 0.3 |
| Total Cadmium, Other | | 181.99 | 1 | 0.6 | 0.0 |
| Method Group 181.XX PPM | | | 11 | 1.0 | 1.0 |
| ALUMINUM AS Al₂O₃ | | | | | |
| ICP, % | | | 15 | 0.93 | 0.02 |
| Water Soluble Chlorine, Other, % | | 190.99 | 2 | 0.94 | 0.01 |
| Method Group 190.XX PCT | | | 17 | 0.93 | 0.03 |
| TOTAL CHROMIUM | | | | | |
| Total Chromium, Atomic Absorbtion | | 191.00 | 1 | 59 | 0.0 |
| Total Chromium, ICP | | 191.30 | 7 | 58 | 4.2 |
| Total Chromium, Other | | 191.99 | 1 | 60 | 0.0 |
| Method Group 191.XX PPM | | | 9 | 59 | 4.4 |
| ACID SOLUBLE COBALT | | | | | |
| Acid Soluble Cobalt, ICP | | 202.30 | 8 | 14 | 0.9 |
| Acid Soluble Cobalt, Other | | 202.99 | 1 | 10 | 0.0 |
| Method Group 202.XX PPM | | | 9 | 13 | 1.8 |
| ACID SOLUBLE COPPER | | | | | |
| Acid Soluble Copper, Other | | 221.99 | 2 | 0.9 | 6.8 |
| Method Group 221.XX PPM | | | 10 | 57.0 | 7.0 |
| ACID SOLUBLE IRON AS Fe₂O₃ | | | | | |
| Acid Soluble Iron, ICP | | 241.30 | 16 | 2.51 | 0.05 |
| Acid Soluble Iron, Other | | 241.99 | 2 | 2.35 | 0.11 |
| Method Group 241.XX PCT | | | 19 | 2.51 | 0.07 |
| TOTAL LEAD | | | | | |
| Total Lead, Atomic Absorbtion | | 251.00 | 1 | 3 | 0.0 |
| Total Lead, ICP | | 251.30 | 9 | 0.4 | 0.4 |
| Total Lead, Other | | 251.99 | 1 | 0.0 | 0.0 |
| Method Group 251.XX PPM | | | 11 | 0.4 | 0.7 |
| ACID SOLUBLE MANGANESE | | | | | |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 3 | 557 | 16.7 |

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|--------------------------------------|--------|--------|------|-------|------|
| Acid Soluble Manganese, Other | 261.99 | 7 | 576 | 38.2 | |
| Method Group 261.XX PPM | | 10 | 568 | 21.7 | |
| WATER SOLUBLE MANGANESE | | | | | |
| Water Soluble Manganese, Other | 271.99 | 1 | 34 | 0 | |
| Method Group 271.XX PCT | | 1 | 34 | 0.0 | |
| TOTAL MERCURY | | | | | |
| Total Mercury, ICP | 281.30 | 2 | 0.00 | 0.01 | |
| Total Mercury, Other | 281.99 | 3 | 0 | 0.01 | |
| Method Group 281.XX PPM | | 5 | 0.01 | 0.02 | |
| TOTAL MOLYBDENUM | | | | | |
| Total Molybdenum, ICP | 289.30 | 7 | 2 | 1.3 | |
| Total Molybdenum, Other | 289.99 | 1 | 5 | 0.0 | |
| Method Group 289.XX PPM | | 8 | 2 | 1.9 | |
| TOTAL NICKEL | | | | | |
| Total Nickel, ICP | 291.30 | 7 | 49.5 | 2.7 | |
| Total Nickel, icp | 291.99 | 2 | 24.4 | 18.2 | |
| Method Group 291.XX PPM | | 9 | 48.7 | 3.2 | |
| TOTAL SELENIUM | | | | | |
| Total Selenium, ICP | 301.30 | 6 | 0.0 | 0.0 | |
| Method Group 301.XX PPM | | 6 | 0.0 | 0.0 | |
| SODIUM AS Na₂O | | | | | |
| Sodium, Atomic Absorbtion | 983.04 | 311.00 | 1 | 0.22 | 0.00 |
| Sodium, Other | | 311.99 | 10 | 0.21 | 0.01 |
| Method Group 311.XX PCT | | | 11 | 0.22 | 0.01 |
| ACID SOLUBLE ZINC | | | | | |
| Acid Soluble Zinc, Atomic Absorption | 975.02 | 321.00 | 1 | 269.7 | 0.0 |
| Acid Soluble Zinc, ICP | | 321.30 | 7 | 262.5 | 35.4 |
| Acid Soluble Zinc, Other | | 321.99 | 2 | 280.0 | 7.5 |
| Method Group 321.XX % | | | 10 | 269.9 | 12.6 |
| FLUORIDE | | | | | |
| Volumentric | 325.10 | | 11 | 1.32 | 0.04 |
| Distilled/Electrode | 325.99 | | 3 | 1.37 | 0.02 |
| Method Group 325.XX PCT | | | 14 | 1.33 | 0.03 |

| 001.10 Ammoniacal Nitrogen | | |
|----------------------------|------------------|--------------|
| Lab | MgO distillation | |
| 31 | 17.92 | 0.000 |
| Median | 17.92 | 0.000 |

| 001.99 Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | Other | |
| 335 | 19.59 | -11.055 |
| 330 | 18.18 | -1.608 |
| Std Dev | 18.09 | -1.000 |
| 24 | 18.01 | -0.469 |
| 34 | 18.00 | -0.369 |
| 24 | 17.94 | 0.000 |
| Median | 17.94 | 0.000 |
| 140 | 17.86 | 0.536 |
| 79 | 17.81 | 0.871 |
| Std Dev | 17.79 | 1.000 |
| 113 | 17.79 | 1.005 |
| 38 | 17.45 | 3.317 |

| 001.XX Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | Total Method | |
| 335 | 19.59 | -12.106 |
| 330 | 18.18 | -1.823 |
| Std Dev | 18.07 | -1.000 |
| 24 | 18.01 | -0.583 |
| 34 | 18.00 | -0.474 |
| 24 | 17.94 | -0.073 |
| Median | 17.93 | 0.000 |
| 31 | 17.92 | 0.073 |
| 140 | 17.86 | 0.510 |
| 79 | 17.81 | 0.875 |
| Std Dev | 17.79 | 1.000 |
| 113 | 17.79 | 1.021 |
| 38 | 17.45 | 3.537 |

| 002.99 Nitrate Nitrogen | | |
|-------------------------|-------------|--------------|
| Lab | Other | |
| 335 | 0.01 | 0.000 |
| Median | 0.01 | 0.000 |

| 002.XX Nitrate Nitrogen | | |
|-------------------------|--------------|-------|
| Lab | Total Method | |
| 335 | 0.01 | 0.000 |

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|---------------|-------------|--------------|
| Median | 0.01 | 0.000 |
|---------------|-------------|--------------|

| 009.99 Ammon & Nitrate N | | |
|--------------------------|--------------|--------------|
| Lab | Other | |
| 32 | 17.96 | 0.000 |
| Median | 17.96 | 0.000 |

| 009.XX Ammon & Nitrate N | | |
|--------------------------|--------------|--------------|
| Lab | Total Method | |
| 32 | 17.96 | 0.000 |
| Median | 17.96 | 0.000 |

| 010.11 Total Nitrogen | | |
|-----------------------|------------------------|--------------|
| Lab | Modified Comprehensive | |
| 43 | 18.11 | 0.000 |
| 219 | 18.11 | 0.000 |
| Median | 18.11 | 0.000 |
| Std Dev | 18.09 | 1.000 |
| 43 | 18.05 | 2.680 |

| 010.60 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Combustion | |
| 63 | 18.19 | -1.340 |
| 29 | 18.16 | -1.089 |
| Std Dev | 18.15 | -1.000 |
| 140 | 18.13 | -0.837 |
| 14 | 18.13 | -0.796 |
| 66 | 18.13 | -0.796 |
| 61 | 18.10 | -0.544 |
| 14 | 18.09 | -0.461 |
| 38 | 18.05 | -0.167 |
| 111 | 18.03 | 0.000 |
| Median | 18.03 | 0.000 |
| 31 | 18.03 | 0.000 |
| 103 | 18.01 | 0.168 |
| 61 | 18.01 | 0.209 |
| 219 | 17.97 | 0.544 |
| 77 | 17.93 | 0.879 |
| Std Dev | 17.91 | 1.000 |
| 79 | 17.84 | 1.591 |
| 80 | 17.80 | 1.926 |
| 47 | 16.57 | 12.194 |

| 010.99 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Other | |
| 330 | 18.49 | -3.776 |
| Std Dev | 18.26 | -1.000 |
| 23 | 18.22 | -0.487 |
| 23 | 18.20 | -0.244 |
| 34 | 18.18 | 0.000 |
| Median | 18.18 | 0.000 |
| 24 | 18.14 | 0.548 |
| Std Dev | 18.10 | 1.000 |
| 24 | 18.07 | 1.401 |
| 32 | 17.96 | 2.680 |

| 010.XX Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Total Method | |
| 330 | 18.49 | -4.342 |
| 23 | 18.22 | -1.447 |
| 23 | 18.20 | -1.233 |
| 63 | 18.19 | -1.126 |
| 34 | 18.18 | -1.018 |
| Std Dev | 18.18 | -1.000 |
| 29 | 18.16 | -0.804 |
| 24 | 18.14 | -0.536 |
| 140 | 18.13 | -0.482 |
| 14 | 18.13 | -0.429 |
| 66 | 18.13 | -0.429 |
| 43 | 18.11 | -0.268 |
| 219 | 18.11 | -0.268 |
| 61 | 18.10 | -0.107 |
| 14 | 18.09 | 0.000 |
| Median | 18.09 | 0.000 |
| 24 | 18.07 | 0.214 |
| 38 | 18.05 | 0.375 |
| 43 | 18.05 | 0.375 |
| 111 | 18.03 | 0.590 |
| 31 | 18.03 | 0.590 |
| 103 | 18.01 | 0.804 |
| 61 | 18.01 | 0.858 |
| Std Dev | 17.99 | 1.000 |
| 219 | 17.97 | 1.286 |
| 32 | 17.96 | 1.340 |
| 77 | 17.93 | 1.715 |
| 79 | 17.84 | 2.626 |
| 80 | 17.80 | 3.055 |

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|----|-------|--------|
| 47 | 16.57 | 16.198 |
|----|-------|--------|

| 020.20 Total Phosphate | | |
|------------------------|---------------|---------------|
| Lab | Spectrometric | |
| 275 | 47.11 | -1.090 |
| Std Dev | 47.08 | -1.000 |
| 24 | 46.96 | -0.648 |
| 335 | 46.95 | -0.604 |
| 24 | 46.93 | -0.560 |
| 43 | 46.90 | -0.471 |
| 111 | 46.89 | -0.442 |
| 34 | 46.84 | -0.295 |
| 31 | 46.79 | -0.155 |
| 275 | 46.77 | -0.088 |
| 23 | 46.74 | 0.000 |
| Median | 46.74 | 0.000 |
| 23 | 46.68 | 0.177 |
| 140 | 46.67 | 0.206 |
| 14 | 46.63 | 0.339 |
| 14 | 46.60 | 0.412 |
| Std Dev | 46.40 | 1.000 |
| 79 | 46.28 | 1.355 |
| 32 | 46.27 | 1.384 |
| 43 | 46.27 | 1.399 |
| 61 | 46.26 | 1.414 |
| 61 | 46.15 | 1.752 |

| 020.40 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | Automated | |
| 111 | 46.76 | 0.000 |
| Median | 46.76 | 0.000 |

| 020.99 Total Phosphate | | |
|------------------------|--------------|---------------|
| Lab | Other | |
| 113 | 46.62 | -1.340 |
| Std Dev | 46.59 | -1.000 |
| Median | 46.50 | 0.000 |
| Std Dev | 46.40 | 1.000 |
| 330 | 46.37 | 1.340 |

| 020.XX Total Phosphate | | |
|------------------------|--------------|---------------|
| Lab | Total Method | |
| 275 | 47.11 | -1.191 |
| Std Dev | 47.05 | -1.000 |

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|----------------|--------------|--------------|
| 24 | 46.96 | -0.744 |
| 335 | 46.95 | -0.700 |
| 24 | 46.93 | -0.655 |
| 43 | 46.90 | -0.566 |
| 111 | 46.89 | -0.536 |
| 34 | 46.84 | -0.387 |
| 31 | 46.79 | -0.246 |
| 275 | 46.77 | -0.179 |
| 111 | 46.76 | -0.149 |
| 23 | 46.74 | -0.089 |
| Median | 46.71 | 0.000 |
| 23 | 46.68 | 0.089 |
| 140 | 46.67 | 0.119 |
| 14 | 46.63 | 0.253 |
| 113 | 46.62 | 0.268 |
| 14 | 46.60 | 0.328 |
| Std Dev | 46.37 | 1.000 |
| 330 | 46.37 | 1.012 |
| 79 | 46.28 | 1.280 |
| 32 | 46.27 | 1.310 |
| 43 | 46.27 | 1.325 |
| 61 | 46.26 | 1.340 |
| 61 | 46.15 | 1.682 |

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|----------------------------|-------------|---------------|
| 030.20 Insoluble Phosphate | | |
| Lab | | Spectrometric |
| 61 | 0.05 | -3.306 |
| 61 | 0.04 | -1.803 |
| Std Dev | 0.03 | -1.000 |
| 79 | 0.03 | -0.801 |
| 43 | 0.02 | -0.651 |
| 43 | 0.02 | -0.200 |
| Median | 0.02 | 0.000 |
| 23 | 0.02 | 0.200 |
| 140 | 0.02 | 0.200 |
| 23 | 0.01 | 0.701 |
| 24 | 0.01 | 0.701 |
| 24 | 0.01 | 0.701 |

| | | |
|----------------------------|-------------|-----------------|
| 030.30 Insoluble Phosphate | | |
| Lab | | Alka. Quimociac |
| 31 | 0.03 | 0.000 |
| Median | 0.03 | 0.000 |

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|----------------------------|-------------|---------------|
| 030.40 Insoluble Phosphate | | |
| Lab | | Automated |
| 32 | 0.02 | -1.340 |
| Std Dev | 0.02 | -1.000 |
| Median | 0.02 | 0.000 |
| Std Dev | 0.01 | 1.000 |
| 34 | 0.01 | 1.340 |

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|----------------------------|-------------|--------------|
| 030.99 Insoluble Phosphate | | |
| Lab | | Other |
| 113 | 0.10 | 0.000 |
| Median | 0.10 | 0.000 |

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|----------------------------|-------------|---------------|
| 030.XX Insoluble Phosphate | | |
| Lab | | Total Method |
| 113 | 0.10 | -7.358 |
| 61 | 0.05 | -2.972 |
| 61 | 0.04 | -1.511 |
| Std Dev | 0.03 | -1.000 |
| 31 | 0.03 | -0.536 |
| 79 | 0.03 | -0.536 |
| 43 | 0.02 | -0.390 |
| 32 | 0.02 | -0.049 |
| Median | 0.02 | 0.000 |
| 43 | 0.02 | 0.049 |
| 23 | 0.02 | 0.439 |
| 140 | 0.02 | 0.439 |
| 23 | 0.01 | 0.926 |
| 24 | 0.01 | 0.926 |
| 24 | 0.01 | 0.926 |
| 34 | 0.01 | 0.926 |

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|-------------------------------------|--------------|---------------|
| 040.20 Indirect Available Phosphate | | |
| Lab | | Spectrometric |
| 24 | 46.95 | -0.711 |
| 24 | 46.92 | -0.637 |
| 43 | 46.88 | -0.539 |
| 31 | 46.77 | -0.263 |
| 23 | 46.73 | -0.172 |
| 23 | 46.67 | -0.012 |
| Median | 46.66 | 0.000 |
| 140 | 46.66 | 0.012 |
| 79 | 46.26 | 0.992 |
| Std Dev | 46.25 | 1.000 |

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| 32 | 46.25 | 1.005 |
| 43 | 46.25 | 1.017 |
| 61 | 46.23 | 1.066 |
| 61 | 46.10 | 1.384 |

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|-------------------------------------|--------------|---------------|
| 040.99 Indirect Available Phosphate | | |
| Lab | | Other |
| 34 | 46.83 | -1.340 |
| Std Dev | 46.79 | -1.000 |
| Median | 46.68 | 0.000 |
| Std Dev | 46.56 | 1.000 |
| 113 | 46.53 | 1.340 |

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|-------------------------------------|--------------|--------------|
| 040.XX Indirect Available Phosphate | | |
| Lab | | Total Method |
| 24 | 46.95 | -0.690 |
| 24 | 46.92 | -0.619 |
| 43 | 46.88 | -0.524 |
| 34 | 46.83 | -0.405 |
| 31 | 46.77 | -0.256 |
| 23 | 46.73 | -0.167 |
| 23 | 46.67 | -0.012 |
| Median | 46.66 | 0.000 |
| 140 | 46.66 | 0.012 |
| 113 | 46.53 | 0.321 |
| 79 | 46.26 | 0.964 |
| 32 | 46.25 | 0.976 |
| 43 | 46.25 | 0.988 |
| Std Dev | 46.24 | 1.000 |
| 61 | 46.23 | 1.035 |
| 61 | 46.10 | 1.344 |

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|-----------------------------------|--------------|-----------------------|
| 041.10 Direct Available Phosphate | | |
| Lab | | Gravimetric Quimociac |
| 219 | 47.08 | -1.340 |
| Std Dev | 46.99 | -1.000 |
| Median | 46.72 | 0.000 |
| Std Dev | 46.45 | 1.000 |
| 47 | 46.36 | 1.340 |

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|-----------------------------------|--------------|---------------|
| 041.20 Direct Available Phosphate | | |
| Lab | | Spectrometric |
| 47 | 46.63 | -1.340 |
| Std Dev | 46.54 | -1.000 |

| | | |
|----------------|--------------|--------------|
| Median | 46.29 | 0.000 |
| Std Dev | 46.04 | 1.000 |
| 38 | 45.96 | 1.340 |

| | | |
|-----------------------------------|--------------|--------------|
| 041.40 Direct Available Phosphate | | |
| Lab | | Automated |
| 111 | 46.46 | 0.000 |
| Median | 46.46 | 0.000 |

| | | |
|-----------------------------------|--------------|--------------|
| 041.50 Direct Available Phosphate | | |
| Lab | | ICP |
| 63 | 47.68 | -0.755 |
| 66 | 46.51 | -0.094 |
| Median | 46.34 | 0.000 |
| 111 | 46.17 | 0.094 |
| Std Dev | 44.56 | 1.000 |
| 80 | 39.15 | 4.040 |

| | | |
|-----------------------------------|--------------|---------------|
| 041.60 Direct Available Phosphate | | |
| Lab | | EDTA Extract |
| 29 | 48.19 | -1.461 |
| Std Dev | 47.78 | -1.000 |
| 77 | 47.13 | -0.272 |
| Median | 46.88 | 0.000 |
| 219 | 46.64 | 0.272 |
| Std Dev | 45.99 | 1.000 |
| 103 | 44.86 | 2.270 |

| | | |
|-----------------------------------|--------------|---------------|
| 041.99 Direct Available Phosphate | | |
| Lab | | Other |
| 79 | 46.37 | -1.340 |
| Std Dev | 46.28 | -1.000 |
| Median | 46.04 | 0.000 |
| Std Dev | 45.79 | 1.000 |
| 335 | 45.71 | 1.340 |

| | | |
|-----------------------------------|--------------|---------------|
| 041.XX Direct Available Phosphate | | |
| Lab | | Total Method |
| 29 | 48.19 | -2.911 |
| 63 | 47.68 | -2.056 |
| 77 | 47.13 | -1.121 |
| 219 | 47.08 | -1.045 |
| Std Dev | 47.05 | -1.000 |
| 219 | 46.64 | -0.303 |

| | | |
|----------------|--------------|--------------|
| 47 | 46.63 | -0.278 |
| 66 | 46.51 | -0.076 |
| 111 | 46.46 | 0.000 |
| Median | 46.46 | 0.000 |
| 79 | 46.37 | 0.160 |
| 47 | 46.36 | 0.169 |
| 111 | 46.17 | 0.489 |
| 38 | 45.96 | 0.843 |
| Std Dev | 45.87 | 1.000 |
| 335 | 45.71 | 1.273 |
| 103 | 44.86 | 2.705 |
| 80 | 39.15 | 12.321 |

| 048.20 Water Soluble Phosphate Spectrometric | | |
|--|--------------|---------------|
| Lab | | |
| 24 | 43.08 | -1.003 |
| Std Dev | 43.08 | -1.000 |
| 24 | 43.03 | -0.927 |
| 23 | 42.72 | -0.507 |
| 31 | 42.71 | -0.489 |
| 23 | 42.61 | -0.348 |
| 140 | 42.61 | -0.348 |
| 43 | 42.43 | -0.107 |
| 43 | 42.39 | -0.045 |
| Median | 42.35 | 0.000 |
| 32 | 42.32 | 0.045 |
| 79 | 42.19 | 0.224 |
| 330 | 41.88 | 0.658 |
| 111 | 41.67 | 0.948 |
| 61 | 41.64 | 0.982 |
| Std Dev | 41.63 | 1.000 |
| 61 | 41.59 | 1.051 |
| 14 | 35.71 | 9.159 |
| 14 | 35.70 | 9.179 |

| 048.99 Water Soluble Phosphate Other | | |
|--------------------------------------|--------------|--------------|
| Lab | | |
| 113 | 42.52 | -0.058 |
| 34 | 42.50 | 0.000 |
| Median | 42.50 | 0.000 |
| Std Dev | 42.15 | 1.000 |
| 111 | 41.59 | 2.622 |

| 048.XX Water Soluble Phosphate Total Method | | |
|---|--------------|--------------|
| Lab | | |
| 24 | 43.08 | -0.978 |
| 24 | 43.03 | -0.900 |
| 23 | 42.72 | -0.471 |
| 31 | 42.71 | -0.454 |
| 23 | 42.61 | -0.310 |
| 140 | 42.61 | -0.310 |
| 113 | 42.52 | -0.190 |
| 34 | 42.50 | -0.162 |
| 43 | 42.43 | -0.063 |
| 43 | 42.39 | 0.000 |
| Median | 42.39 | 0.000 |
| 32 | 42.32 | 0.091 |
| 79 | 42.19 | 0.274 |
| 330 | 41.88 | 0.717 |
| Std Dev | 41.67 | 1.000 |
| 111 | 41.67 | 1.013 |
| 61 | 41.64 | 1.048 |
| 61 | 41.59 | 1.118 |
| 111 | 41.59 | 1.118 |
| 14 | 35.71 | 9.391 |
| 14 | 35.70 | 9.412 |

| 050.50 %K ₂ O Soluble Potash ICP(Oxalate) | | |
|--|-------------|---------------|
| Lab | | |
| 23 | 0.25 | -1.340 |
| Std Dev | 0.25 | -1.000 |
| Median | 0.25 | 0.000 |
| Std Dev | 0.24 | 1.000 |
| 23 | 0.24 | 1.340 |

| 050.99 Soluble Potash Other | | |
|-----------------------------|-------------------|---------------|
| Lab | %K ₂ O | |
| 330 | 1.10 | -58.223 |
| 111 | 0.29 | -2.643 |
| Std Dev | 0.26 | -1.000 |
| 61 | 0.26 | -0.938 |
| 61 | 0.25 | -0.256 |
| 31 | 0.25 | -0.085 |
| Median | 0.25 | 0.000 |
| 24 | 0.25 | 0.085 |
| 43 | 0.24 | 0.548 |
| 43 | 0.24 | 0.581 |

| | | |
|----------------|-------------|--------------|
| Std Dev | 0.23 | 1.000 |
| 24 | 0.23 | 1.108 |
| 80 | 0.10 | 9.974 |

| 050.XX Soluble Potash Total Method | | |
|------------------------------------|-------------------|---------------|
| Lab | %K ₂ O | |
| 330 | 1.10 | -73.651 |
| 111 | 0.29 | -3.343 |
| 61 | 0.26 | -1.186 |
| Std Dev | 0.26 | -1.000 |
| 23 | 0.25 | -0.453 |
| 61 | 0.25 | -0.324 |
| 31 | 0.25 | -0.108 |
| Median | 0.25 | 0.000 |
| 24 | 0.25 | 0.108 |
| 23 | 0.24 | 0.539 |
| 43 | 0.24 | 0.693 |
| 43 | 0.24 | 0.735 |
| Std Dev | 0.23 | 1.000 |
| 24 | 0.23 | 1.402 |
| 80 | 0.10 | 12.617 |

| 060.00 Free Water Vacuum Oven | | |
|-------------------------------|-------------|---------------|
| Lab | | |
| 31 | 1.35 | -2.884 |
| 24 | 1.15 | -1.527 |
| 24 | 1.07 | -1.018 |
| Std Dev | 1.07 | -1.000 |
| 79 | 1.03 | -0.746 |
| 111 | 0.99 | -0.441 |
| 34 | 0.92 | 0.000 |
| 43 | 0.92 | 0.000 |
| Median | 0.92 | 0.000 |
| 43 | 0.91 | 0.102 |
| 23 | 0.86 | 0.441 |
| 23 | 0.81 | 0.780 |
| 32 | 0.78 | 0.950 |
| Std Dev | 0.77 | 1.000 |
| 140 | 0.68 | 1.628 |

| 060.10 Free Water Vacuum Desiccate | | |
|------------------------------------|-------------|---------------|
| Lab | | |
| 61 | 0.92 | -1.340 |
| Std Dev | 0.88 | -1.000 |

| | | |
|----------------|-------------|--------------|
| Median | 0.75 | 0.000 |
| Std Dev | 0.62 | 1.000 |
| 61 | 0.58 | 1.340 |

| 060.99 Free Water Other | | |
|-------------------------|-------------|--------------|
| Lab | | |
| 330 | 1.11 | -0.823 |
| 275 | 1.09 | -0.670 |
| 275 | 1.09 | -0.670 |
| Median | 1.00 | 0.000 |
| 14 | 0.92 | 0.670 |
| 113 | 0.92 | 0.670 |
| 14 | 0.90 | 0.785 |

| 060.XX Free Water Total Method | | |
|--------------------------------|-------------|---------------|
| Lab | | |
| 31 | 1.35 | -3.058 |
| 24 | 1.15 | -1.619 |
| 330 | 1.11 | -1.367 |
| 275 | 1.09 | -1.223 |
| 275 | 1.09 | -1.223 |
| 24 | 1.07 | -1.079 |
| Std Dev | 1.06 | -1.000 |
| 79 | 1.03 | -0.791 |
| 111 | 0.99 | -0.468 |
| 61 | 0.92 | 0.000 |
| 34 | 0.92 | 0.000 |
| 43 | 0.92 | 0.000 |
| Median | 0.92 | 0.000 |
| 14 | 0.92 | 0.036 |
| 113 | 0.92 | 0.036 |
| 43 | 0.91 | 0.108 |
| 14 | 0.90 | 0.144 |
| 23 | 0.86 | 0.468 |
| 23 | 0.81 | 0.827 |
| Std Dev | 0.78 | 1.000 |
| 32 | 0.78 | 1.007 |
| 140 | 0.68 | 1.727 |
| 61 | 0.58 | 2.482 |

| 101.00 Acid Soluble Calcium Atomic Absorption | | |
|---|-------------|--------------|
| Lab | %CaO | |
| 219 | 0.17 | 0.000 |
| Median | 0.17 | 0.000 |

| 101.30 Acid Soluble Calcium | | |
|-----------------------------|-------------|---------------|
| Lab | %CaO | ICP |
| 24 | 0.41 | -1.401 |
| 330 | 0.41 | -1.226 |
| 61 | 0.40 | -1.051 |
| Std Dev | 0.40 | -1.000 |
| 24 | 0.40 | -0.876 |
| 32 | 0.40 | -0.876 |
| 34 | 0.39 | -0.701 |
| 61 | 0.39 | -0.701 |
| 23 | 0.37 | 0.000 |
| Median | 0.37 | 0.000 |
| 23 | 0.37 | 0.175 |
| 111 | 0.37 | 0.175 |
| 31 | 0.36 | 0.228 |
| 14 | 0.35 | 0.701 |
| 43 | 0.34 | 0.990 |
| Std Dev | 0.34 | 1.000 |
| 43 | 0.34 | 1.046 |
| 14 | 0.23 | 4.905 |

| 101.99 Acid Soluble Calcium | | |
|-----------------------------|-------------|--------------|
| Lab | %CaO | Other |
| 219 | 0.19 | 0.000 |
| Median | 0.19 | 0.000 |

| 101.XX Acid Soluble Calcium | | |
|-----------------------------|-------------|---------------|
| Lab | %CaO | Total Method |
| 24 | 0.41 | -1.132 |
| 330 | 0.41 | -1.007 |
| Std Dev | 0.40 | -1.000 |
| 61 | 0.40 | -0.881 |
| 24 | 0.40 | -0.755 |
| 32 | 0.40 | -0.755 |
| 34 | 0.39 | -0.629 |
| 61 | 0.39 | -0.629 |
| 23 | 0.37 | -0.126 |
| 23 | 0.37 | 0.000 |
| 111 | 0.37 | 0.000 |
| Median | 0.37 | 0.000 |
| 31 | 0.36 | 0.038 |
| 14 | 0.35 | 0.377 |
| 43 | 0.34 | 0.585 |

| | | |
|----------------|-------------|--------------|
| 43 | 0.34 | 0.626 |
| Std Dev | 0.33 | 1.000 |
| 14 | 0.23 | 3.397 |
| 219 | 0.19 | 4.480 |
| 219 | 0.17 | 4.958 |

| 121.00 Acid Soluble Magnesium | | |
|-------------------------------|-------------|-------------------|
| Lab | %MgO | Atomic Absorption |
| 219 | 0.17 | 0.000 |
| Median | 0.17 | 0.000 |

| 121.30 Acid Soluble Magnesium | | |
|-------------------------------|-------------|---------------|
| Lab | %MgO | ICP |
| 32 | 0.31 | -1.787 |
| 34 | 0.30 | -1.340 |
| Std Dev | 0.30 | -1.000 |
| 24 | 0.30 | -0.893 |
| 24 | 0.30 | -0.893 |
| 14 | 0.29 | -0.447 |
| 61 | 0.29 | -0.447 |
| 14 | 0.29 | 0.000 |
| 61 | 0.29 | 0.000 |
| Median | 0.29 | 0.000 |
| 31 | 0.28 | 0.223 |
| 23 | 0.28 | 0.447 |
| 23 | 0.28 | 0.893 |
| Std Dev | 0.27 | 1.000 |
| 43 | 0.27 | 1.340 |
| 43 | 0.27 | 1.340 |

| 121.99 Acid Soluble Magnesium | | |
|-------------------------------|-------------|--------------|
| Lab | %MgO | Other |
| 330 | 0.28 | -0.412 |
| 111 | 0.27 | 0.000 |
| Median | 0.27 | 0.000 |
| Std Dev | 0.23 | 1.000 |
| 219 | 0.18 | 2.268 |

| 121.XX Acid Soluble Magnesium | | |
|-------------------------------|-------------|---------------|
| Lab | %MgO | Total Method |
| 32 | 0.31 | -1.508 |
| 34 | 0.30 | -1.173 |
| Std Dev | 0.30 | -1.000 |
| 24 | 0.30 | -0.838 |

| | | |
|----------------|-------------|--------------|
| 24 | 0.30 | -0.837 |
| 14 | 0.29 | -0.502 |
| 61 | 0.29 | -0.502 |
| 14 | 0.29 | -0.168 |
| 61 | 0.29 | -0.168 |
| 31 | 0.28 | 0.000 |
| Median | 0.28 | 0.000 |
| 23 | 0.28 | 0.168 |
| 330 | 0.28 | 0.168 |
| 23 | 0.28 | 0.503 |
| 43 | 0.27 | 0.838 |
| 43 | 0.27 | 0.838 |
| Std Dev | 0.27 | 1.000 |
| 111 | 0.27 | 1.173 |
| 219 | 0.18 | 6.700 |
| 219 | 0.17 | 7.270 |

| 144.01 Sulfate Sulfur (S) | | |
|---------------------------|-------------|--------------|
| Lab | Gravimetric | |
| 79 | 2.26 | 0.000 |
| Median | 2.26 | 0.000 |

| 144.99 Sulfate Sulfur (S) | | |
|---------------------------|-------------|---------------|
| Lab | Other | |
| 330 | 5.82 | -95.042 |
| 24 | 2.26 | -1.830 |
| Std Dev | 2.22 | -1.000 |
| 32 | 2.22 | -0.784 |
| 24 | 2.19 | -0.131 |
| 23 | 2.19 | -0.087 |
| 14 | 2.19 | 0.000 |
| 34 | 2.19 | 0.000 |
| Median | 2.19 | 0.000 |
| 23 | 2.16 | 0.567 |
| 14 | 2.16 | 0.784 |
| Std Dev | 2.15 | 1.000 |
| 61 | 2.12 | 1.830 |
| 61 | 2.07 | 3.007 |
| 31 | 2.07 | 3.007 |

| 144.XX Sulfate Sulfur (S) | | |
|---------------------------|--------------|---------|
| Lab | Total Method | |
| 330 | 5.82 | -81.182 |
| 24 | 2.26 | -1.563 |

| | | |
|----------------|-------------|---------------|
| 79 | 2.26 | -1.563 |
| Std Dev | 2.23 | -1.000 |
| 32 | 2.22 | -0.670 |
| 24 | 2.19 | -0.112 |
| 23 | 2.19 | -0.074 |
| 14 | 2.19 | 0.000 |
| 34 | 2.19 | 0.000 |
| Median | 2.19 | 0.000 |
| 23 | 2.16 | 0.484 |
| 14 | 2.16 | 0.670 |
| Std Dev | 2.14 | 1.000 |
| 61 | 2.12 | 1.563 |
| 61 | 2.07 | 2.568 |
| 31 | 2.07 | 2.568 |

| 145.99 Total Sulfur (S) | | |
|-------------------------|-------------|--------------|
| Lab | Other | |
| 43 | 2.19 | -0.766 |
| 111 | 2.18 | 0.000 |
| Median | 2.18 | 0.000 |
| Std Dev | 2.16 | 1.000 |
| 43 | 2.15 | 1.914 |

| 145.XX Total Sulfur (S) | | |
|-------------------------|--------------|--------------|
| Lab | Total Method | |
| 43 | 2.19 | -0.766 |
| 111 | 2.18 | 0.000 |
| Median | 2.18 | 0.000 |
| Std Dev | 2.16 | 1.000 |
| 43 | 2.15 | 1.914 |

| 151.30 Total Arsenic | | |
|----------------------|--------------|--------------|
| Lab | ICP | |
| 43 | 17.70 | -0.937 |
| 43 | 17.65 | -0.923 |
| 330 | 17.50 | -0.879 |
| 335 | 16.76 | -0.662 |
| 61 | 14.50 | 0.000 |
| 61 | 14.50 | 0.000 |
| Median | 14.50 | 0.000 |
| 24 | 12.93 | 0.461 |
| Std Dev | 11.09 | 1.000 |
| 31 | 11.03 | 1.018 |
| 111 | 0.50 | 4.101 |

| 151.99 | | |
|--------|-------|---------------------|
| Lab | PPM | Total Arsenic Other |
| 140 | 14.22 | 0.000 |
| Median | 14.22 | 0.000 |

| 151.XX | | |
|---------|-------|----------------------------|
| Lab | PPM | Total Arsenic Total Method |
| 43 | 17.70 | -1.054 |
| 43 | 17.65 | -1.038 |
| Std Dev | 17.54 | -1.000 |
| 330 | 17.50 | -0.988 |
| 335 | 16.76 | -0.745 |
| 61 | 14.50 | 0.000 |
| 61 | 14.50 | 0.000 |
| Median | 14.50 | 0.000 |
| 140 | 14.22 | 0.094 |
| 24 | 12.93 | 0.519 |
| Std Dev | 11.46 | 1.000 |
| 31 | 11.03 | 1.145 |
| 111 | 0.50 | 4.612 |

| 165.99 | | |
|---------|-------|--------------------------|
| Lab | PPM | Acid Soluble Boron Other |
| 330 | 49.69 | -1.340 |
| Std Dev | 46.56 | -1.000 |
| Median | 37.35 | 0.000 |
| Std Dev | 28.13 | 1.000 |
| 24 | 25.00 | 1.340 |

| 65.XX, ppm | | |
|------------|-------|---------------------------------|
| Lab | PPM | Acid Soluble Boron Total Method |
| 330 | 49.69 | -1.340 |
| Std Dev | 46.56 | -1.000 |
| Median | 37.35 | 0.000 |
| Std Dev | 28.13 | 1.000 |
| 24 | 25.00 | 1.340 |

| 171.99 | | |
|--------|-------|---------------------------|
| Lab | PPM | Water Soluble Boron Other |
| 330 | 55.50 | 0.000 |
| Median | 55.50 | 0.000 |

| 171.XX | | |
|--------|-------|----------------------------------|
| Lab | PPM | Water Soluble Boron Total Method |
| 330 | 55.50 | 0.000 |
| Median | 55.50 | 0.000 |

| 181.00 | | |
|--------|------|---------------------------------|
| Lab | PPM | Total Cadmium Atomic Absorbtion |
| 330 | 0.00 | 0.000 |
| Median | 0.00 | 0.000 |

| 181.30 | | |
|---------|------|-------------------|
| Lab | PPM | Total Cadmium ICP |
| 43 | 2.09 | -3.205 |
| 43 | 2.08 | -3.169 |
| Std Dev | 1.48 | -1.000 |
| 275 | 1.37 | -0.616 |
| 335 | 1.32 | -0.435 |
| 275 | 1.20 | 0.000 |
| Median | 1.20 | 0.000 |
| 61 | 1.00 | 0.724 |
| 61 | 1.00 | 0.724 |
| Std Dev | 0.92 | 1.000 |
| 31 | 0.00 | 4.346 |
| 111 | 0.00 | 4.346 |

| 181.99 | | |
|--------|------|---------------------|
| Lab | PPM | Total Cadmium Other |
| 24 | 0.60 | 0.000 |
| Median | 0.60 | 0.000 |

| 181.XX | | |
|---------|------|----------------------------|
| Lab | PPM | Total Cadmium Total Method |
| 43 | 2.09 | -1.388 |
| 43 | 2.08 | -1.375 |
| Std Dev | 1.78 | -1.000 |
| 275 | 1.37 | -0.473 |
| 335 | 1.32 | -0.409 |
| 275 | 1.20 | -0.256 |
| 61 | 1.00 | 0.000 |
| 61 | 1.00 | 0.000 |
| Median | 1.00 | 0.000 |
| 24 | 0.60 | 0.518 |
| Std Dev | 0.22 | 1.000 |
| 31 | 0.00 | 1.279 |

| | | |
|-----|------|-------|
| 111 | 0.00 | 1.279 |
| 330 | 0.00 | 1.279 |

| 190.00 | | |
|---------|---------------------------------|--------------|
| Lab | %Al ₂ O ₃ | Aluminum ICP |
| 14 | 0.98 | -2.233 |
| 14 | 0.98 | -2.233 |
| 275 | 0.96 | -1.563 |
| Std Dev | 0.95 | -1.000 |
| 24 | 0.94 | -0.670 |
| 275 | 0.94 | -0.670 |
| 43 | 0.93 | -0.223 |
| 43 | 0.93 | -0.223 |
| 32 | 0.93 | 0.000 |
| Median | 0.93 | 0.000 |
| 23 | 0.92 | 0.223 |
| 34 | 0.92 | 0.223 |
| 23 | 0.91 | 0.670 |
| 61 | 0.91 | 0.670 |
| 24 | 0.91 | 0.893 |
| 61 | 0.91 | 0.893 |
| Std Dev | 0.90 | 1.000 |
| 111 | 0.65 | 12.507 |

| 190.99 | | |
|---------|---------------------------------|----------------------------|
| Lab | %Al ₂ O ₃ | Aluminum Atomic Absorption |
| 330 | 0.95 | -1.340 |
| Std Dev | 0.94 | -1.000 |
| Median | 0.94 | 0.000 |
| Std Dev | 0.93 | 1.000 |
| 31 | 0.93 | 1.340 |

| 190.XX | | |
|---------|---------------------------------|-----------------------|
| Lab | %Al ₂ O ₃ | Aluminum Total Method |
| 14 | 0.98 | -2.233 |
| 14 | 0.98 | -2.233 |
| 275 | 0.96 | -1.563 |
| Std Dev | 0.95 | -1.000 |
| 330 | 0.95 | -0.893 |
| 24 | 0.94 | -0.670 |
| 275 | 0.94 | -0.670 |
| 43 | 0.93 | -0.223 |
| 43 | 0.93 | -0.223 |
| 31 | 0.93 | 0.000 |

| | | |
|---------|------|--------|
| 32 | 0.93 | 0.000 |
| Median | 0.93 | 0.000 |
| 23 | 0.92 | 0.223 |
| 34 | 0.92 | 0.223 |
| 23 | 0.91 | 0.670 |
| 61 | 0.91 | 0.670 |
| 24 | 0.91 | 0.893 |
| 61 | 0.91 | 0.893 |
| Std Dev | 0.90 | 1.000 |
| 111 | 0.65 | 12.507 |

| 191.00 | | |
|--------|-------|----------------------------------|
| Lab | PPM | Total Chromium Atomic Absorbtion |
| 330 | 59.00 | 0.000 |
| Median | 59.00 | 0.000 |

| 191.30 | | |
|---------|-------|--------------------|
| Lab | PPM | Total Chromium ICP |
| 335 | 80.13 | -5.343 |
| Std Dev | 61.74 | -1.000 |
| 31 | 60.35 | -0.673 |
| 61 | 60.00 | -0.590 |
| 61 | 57.50 | 0.000 |
| Median | 57.50 | 0.000 |
| 111 | 55.50 | 0.472 |
| 43 | 53.50 | 0.944 |
| Std Dev | 53.26 | 1.000 |
| 43 | 53.00 | 1.063 |

| 191.99 | | |
|--------|-------|----------------------|
| Lab | PPM | Total Chromium Other |
| 24 | 60.40 | 0.000 |
| Median | 60.40 | 0.000 |

| 191.XX | | |
|---------|-------|-----------------------------|
| Lab | PPM | Total Chromium Total Method |
| 335 | 80.13 | -5.838 |
| Std Dev | 62.62 | -1.000 |
| 24 | 60.40 | -0.387 |
| 31 | 60.35 | -0.373 |
| 61 | 60.00 | -0.276 |
| 330 | 59.00 | 0.000 |
| Median | 59.00 | 0.000 |
| 61 | 57.50 | 0.414 |

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| | | |
|---------|-------|-------|
| 111 | 55.50 | 0.967 |
| Std Dev | 55.38 | 1.000 |
| 43 | 53.50 | 1.520 |
| 43 | 53.00 | 1.658 |

| | | |
|--------|---------------------|-----|
| 202.30 | Acid Soluble Cobalt | |
| Lab | PPM | ICP |
| 335 | | |

| | | |
|--------|---------------------|-------|
| 202.99 | Acid Soluble Cobalt | |
| Lab | Other | |
| 24 | 10.09 | 0.000 |
| Median | 10.09 | 0.000 |

| | | |
|---------|---------------------|--------------|
| 202.XX | Acid Soluble Cobalt | |
| Lab | PPM | Total Method |
| 335 | 19.90 | -4.620 |
| Std Dev | 14.49 | -1.000 |
| 61 | 14.00 | -0.670 |
| 61 | 14.00 | -0.670 |
| 330 | 14.00 | -0.670 |
| 43 | 13.00 | 0.000 |
| 43 | 13.00 | 0.000 |
| Median | 13.00 | 0.000 |
| 111 | 12.00 | 0.670 |
| Std Dev | 11.51 | 1.000 |
| 24 | 10.09 | 1.953 |
| 31 | 7.48 | 3.697 |

| | | |
|---------|---------------------|--------|
| 221.00 | Acid Soluble Copper | |
| Lab | Atomic Absorption | |
| 330 | 55.00 | -1.340 |
| Std Dev | 48.36 | -1.000 |
| Median | 28.84 | 0.000 |
| Std Dev | 9.31 | 1.000 |
| 219 | 2.67 | 1.340 |

| | | |
|---------|---------------------|--------|
| 221.30 | Acid Soluble Copper | |
| Lab | PPM | ICP |
| 61 | 66.00 | -1.340 |
| Std Dev | 64.48 | -1.000 |
| 61 | 63.00 | -0.670 |
| 111 | 63.00 | -0.670 |
| Median | 60.00 | 0.000 |
| 43 | 57.00 | 0.670 |

| | | |
|----|-------|-------|
| 43 | 57.00 | 0.670 |
| 31 | 56.00 | 0.894 |

| | | |
|---------|---------------------|--------|
| 221.99 | Acid Soluble Copper | |
| Lab | Other | |
| 24 | 72.10 | -1.340 |
| Std Dev | 69.79 | -1.000 |
| Median | 63.00 | 0.000 |
| Std Dev | 56.21 | 1.000 |
| 219 | 53.90 | 1.340 |

| | | |
|---------|---------------------|--------------|
| 221.XX | Acid Soluble Copper | |
| Lab | PPM | Total Method |
| 24 | 72.10 | -2.610 |
| 61 | 66.00 | -1.556 |
| 61 | 63.00 | -1.037 |
| 111 | 63.00 | -1.037 |
| Std Dev | 62.78 | -1.000 |
| 43 | 57.00 | 0.000 |
| 43 | 57.00 | 0.000 |
| Median | 57.00 | 0.000 |
| 31 | 56.00 | 0.174 |
| 330 | 55.00 | 0.346 |
| 219 | 53.90 | 0.536 |
| 219 | 52.04 | 0.857 |

| | | |
|---------|---------------------------------|--------|
| 241.30 | Acid Soluble Iron | |
| Lab | %Fe ₂ O ₃ | ICP |
| 275 | 2.61 | -2.093 |
| 275 | 2.60 | -1.889 |
| 111 | 2.57 | -1.174 |
| Std Dev | 2.56 | -1.000 |
| 23 | 2.54 | -0.562 |
| 61 | 2.52 | -0.255 |
| 23 | 2.52 | -0.153 |
| 32 | 2.52 | -0.153 |
| 34 | 2.51 | -0.051 |
| Median | 2.51 | 0.000 |
| 24 | 2.51 | 0.051 |
| 61 | 2.49 | 0.459 |
| 24 | 2.47 | 0.868 |
| 31 | 2.46 | 0.919 |
| Std Dev | 2.46 | 1.000 |
| 43 | 2.45 | 1.276 |

| | | |
|----|------|--------|
| 14 | 2.44 | 1.378 |
| 43 | 2.44 | 1.378 |
| 14 | 1.68 | 16.897 |

| | | |
|---------|---------------------------------|--------|
| 241.99 | Acid Soluble Iron | |
| Lab | %Fe ₂ O ₃ | Other |
| 330 | 2.49 | -1.340 |
| Std Dev | 2.45 | -1.000 |
| Median | 2.35 | 0.000 |
| Std Dev | 2.24 | 1.000 |
| 219 | 2.20 | 1.340 |

| | | |
|---------|---------------------------------|--------------|
| 241.XX | Acid Soluble Iron | |
| Lab | %Fe ₂ O ₃ | Total Method |
| 219 | 2.67 | -3.043 |
| 275 | 2.61 | -1.908 |
| 275 | 2.60 | -1.726 |
| 111 | 2.57 | -1.090 |
| Std Dev | 2.56 | -1.000 |
| 23 | 2.54 | -0.545 |
| 61 | 2.52 | -0.273 |
| 23 | 2.52 | -0.182 |
| 32 | 2.52 | -0.182 |
| 34 | 2.51 | -0.091 |
| 24 | 2.51 | 0.000 |
| Median | 2.51 | 0.000 |
| 330 | 2.49 | 0.273 |
| 61 | 2.49 | 0.363 |

| | | |
|---------|------|--------|
| 24 | 2.47 | 0.727 |
| 31 | 2.46 | 0.772 |
| Std Dev | 2.45 | 1.000 |
| 43 | 2.45 | 1.090 |
| 14 | 2.44 | 1.181 |
| 43 | 2.44 | 1.181 |
| 219 | 2.20 | 5.505 |
| 14 | 1.68 | 14.990 |

| | | |
|--------|-------------------|-------|
| 251.00 | Total Lead | |
| Lab | Atomic Absorption | |
| 330 | 3.04 | 0.000 |
| Median | 3.04 | 0.000 |

| | | |
|--------|------------|-----|
| 251.30 | Total Lead | |
| Lab | PPM | ICP |

| | | |
|---------|------|--------|
| 61 | 1.00 | -1.628 |
| 61 | 1.00 | -1.628 |
| 275 | 0.87 | -1.302 |
| Std Dev | 0.75 | -1.000 |

| | | |
|--------|------|--------|
| 275 | 0.54 | -0.476 |
| 43 | 0.35 | 0.000 |
| 43 | 0.35 | 0.000 |
| Median | 0.35 | 0.000 |
| 335 | 0.34 | 0.038 |
| 31 | 0.00 | 0.877 |
| 111 | 0.00 | 0.877 |

| | | |
|--------|------------|-------|
| 251.99 | Total Lead | |
| Lab | Other | |
| 24 | 0.00 | 0.000 |
| Median | 0.00 | 0.000 |

| | | |
|---------|------------|--------------|
| 251.XX | Total Lead | |
| Lab | PPM | Total Method |
| 330 | 3.04 | -4.697 |
| 61 | 1.00 | -1.135 |
| 61 | 1.00 | -1.135 |
| Std Dev | 0.92 | -1.000 |
| 275 | 0.87 | -0.908 |
| 275 | 0.54 | -0.332 |
| 43 | 0.35 | 0.000 |
| 43 | 0.35 | 0.000 |
| Median | 0.35 | 0.000 |
| 335 | 0.34 | 0.026 |
| 24 | 0.00 | 0.611 |
| 31 | 0.00 | 0.611 |
| 111 | 0.00 | 0.611 |

| | | |
|---------|------------------------|--------|
| 261.30 | Acid Soluble Manganese | |
| Lab | ICP | |
| 31 | 599.70 | -2.560 |
| Std Dev | 573.68 | -1.000 |
| 111 | 557.00 | 0.000 |
| Median | 557.00 | 0.000 |
| 330 | 555.00 | 0.120 |

| | | |
|--------|------------------------|--------|
| 261.99 | Acid Soluble Manganese | |
| Lab | PPM | Other |
| 61 | 604.00 | -0.747 |

| | | |
|----------------|---------------|--------------|
| 43 | 580.50 | -0.131 |
| 61 | 576.00 | -0.013 |
| 43 | 575.50 | 0.000 |
| Median | 575.50 | 0.000 |
| 24 | 560.00 | 0.406 |
| Std Dev | 537.33 | 1.000 |
| 219 | 494.20 | 2.130 |
| 219 | 476.75 | 2.587 |

| 261.XX Acid Soluble Manganese | | |
|-------------------------------|---------------|---------------|
| Lab | PPM | Total Method |
| 61 | 604.00 | -2.035 |
| 31 | 599.70 | -1.793 |
| Std Dev | 585.57 | -1.000 |
| 43 | 580.50 | -0.716 |
| 61 | 576.00 | -0.463 |
| 43 | 575.50 | -0.435 |
| Median | 567.75 | 0.000 |
| 24 | 560.00 | 0.435 |
| 111 | 557.00 | 0.603 |
| 330 | 555.00 | 0.716 |
| Std Dev | 549.93 | 1.000 |
| 219 | 494.20 | 4.128 |
| 219 | 476.75 | 5.107 |

| 271.99 Water Soluble Manganese | | |
|--------------------------------|--------------|--------------|
| Lab | | Other |
| 330 | 34.00 | 0.000 |
| Median | 34.00 | 0.000 |

| 271.XX Water Soluble Manganese | | |
|--------------------------------|--------------|--------------|
| Lab | PPM | Total Method |
| 330 | 34.00 | 0.000 |
| Median | 34.00 | 0.000 |

| 281.30 Total Mercury | | |
|----------------------|-------------|---------------|
| Lab | PPM | ICP |
| 335 | 0.03 | -1.340 |
| Std Dev | 0.03 | -1.000 |
| Median | 0.02 | 0.000 |
| Std Dev | 0.00 | 1.000 |
| 24 | 0.00 | 1.340 |

| 281.99 Total Mercury | | |
|----------------------|-------------|---------------|
| Lab | PPM | Other |
| 330 | 0.03 | -2.489 |
| Std Dev | 0.02 | -1.000 |
| 275 | 0.01 | 0.000 |
| Median | 0.01 | 0.000 |
| 275 | 0.00 | 0.191 |

| 281.XX Total Mercury | | |
|----------------------|-------------|---------------|
| Lab | PPM | Total Method |
| 330 | 0.03 | -1.244 |
| 335 | 0.03 | -1.244 |
| Std Dev | 0.03 | -1.000 |
| 275 | 0.01 | 0.000 |
| Median | 0.01 | 0.000 |
| 275 | 0.00 | 0.096 |
| 24 | 0.00 | 0.298 |

| 289.30 Total Molybdenum | | |
|-------------------------|-----|-----|
| Lab | PPM | ICP |
| 43 | | |

| 289.99 Total Molybdenum | | |
|-------------------------|-------------|--------------|
| Lab | PPM | Other |
| 24 | 4.60 | 0.000 |
| Median | 4.60 | 0.000 |

| 289.XX Total Molybdenum | | |
|-------------------------|-------------|---------------|
| Lab | PPM | Total Method |
| 24 | 4.60 | -1.663 |
| Std Dev | 3.55 | -1.000 |
| 43 | 3.50 | -0.970 |
| 43 | 3.50 | -0.970 |
| 31 | 2.43 | -0.292 |
| Median | 1.96 | 0.000 |
| 61 | 1.50 | 0.292 |
| 111 | 1.50 | 0.292 |
| 61 | 1.00 | 0.607 |
| Std Dev | 0.38 | 1.000 |
| 330 | 0.00 | 1.238 |

| 291.30 Total Nickel | | |
|---------------------|--|-----|
| Lab | | ICP |
| 335 | | |

| 291.99 Total Nickel | | |
|---------------------|--------------|---------------|
| Lab | PPM | Other |
| 24 | 48.70 | -1.340 |
| Std Dev | 42.52 | -1.000 |
| Median | 24.35 | 0.000 |
| Std Dev | 6.18 | 1.000 |
| 111 | 0.00 | 1.340 |

| 291.XX Total Nickel | | |
|---------------------|--------------|---------------|
| Lab | PPM | Total Method |
| 335 | 61.35 | -4.841 |
| 31 | 51.68 | -1.139 |
| Std Dev | 51.31 | -1.000 |
| 61 | 50.50 | -0.689 |
| 330 | 49.50 | -0.306 |
| 24 | 48.70 | 0.000 |
| Median | 48.70 | 0.000 |
| 61 | 48.00 | 0.268 |
| 43 | 47.00 | 0.651 |
| Std Dev | 46.09 | 1.000 |
| 43 | 46.00 | 1.034 |
| 111 | 0.00 | 18.645 |

| 301.30 Total Selenium | | |
|-----------------------|-------------|---------------|
| Lab | PPM | ICP |
| 330 | 4.00 | -691.526 |
| 335 | 0.01 | -1.643 |
| Std Dev | 0.01 | -1.000 |
| 24 | 0.00 | -0.086 |
| Median | 0.00 | 0.000 |
| 61 | 0.00 | 0.086 |
| 61 | 0.00 | 0.086 |
| 111 | 0.00 | 0.086 |

| 301.XX Total Selenium | | |
|-----------------------|-------------|---------------|
| Lab | PPM | Total Method |
| 330 | 4.00 | -691.526 |
| 335 | 0.01 | -1.643 |
| Std Dev | 0.01 | -1.000 |
| 24 | 0.00 | -0.086 |
| Median | 0.00 | 0.000 |
| 61 | 0.00 | 0.086 |
| 61 | 0.00 | 0.086 |
| 111 | 0.00 | 0.086 |

| 311.00 Sodium | | |
|---------------|--------------------|-------------------|
| Lab | %Na ₂ O | Atomic Absorption |
| 330 | 0.22 | 0.000 |
| Median | 0.22 | 0.000 |

| 311.99 Sodium | | |
|----------------|--------------------|---------------|
| Lab | %Na ₂ O | Other |
| 111 | 0.26 | -4.958 |
| Std Dev | 0.22 | -1.000 |
| 23 | 0.22 | -0.134 |
| 24 | 0.22 | -0.134 |
| 24 | 0.22 | -0.134 |
| 31 | 0.22 | -0.134 |
| Median | 0.21 | 0.000 |
| 23 | 0.21 | 0.134 |
| 61 | 0.21 | 0.402 |
| Std Dev | 0.20 | 1.000 |
| 61 | 0.20 | 1.474 |
| 43 | 0.18 | 3.088 |
| 43 | 0.18 | 3.211 |

| 311.XX Sodium | | |
|----------------|--------------------|---------------|
| Lab | %Na ₂ O | Total Method |
| 111 | 0.26 | -6.030 |
| Std Dev | 0.22 | -1.000 |
| 330 | 0.22 | -0.670 |
| 23 | 0.22 | 0.000 |
| 24 | 0.22 | 0.000 |
| 24 | 0.22 | 0.000 |
| 31 | 0.22 | 0.000 |
| Median | 0.22 | 0.000 |
| 23 | 0.21 | 0.335 |
| 61 | 0.21 | 0.670 |
| Std Dev | 0.21 | 1.000 |
| 61 | 0.20 | 2.010 |
| 43 | 0.18 | 4.027 |
| 43 | 0.18 | 4.181 |

| 321.00 Acid Soluble Zinc | | |
|--------------------------|---------------|-------------------|
| Lab | | Atomic Absorption |
| 219 | 269.70 | 0.000 |
| Median | 269.70 | 0.000 |

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| 321.30 | | | Acid Soluble Zinc | |
|---------|--------|--|-------------------|--|
| Lab | PPM | | ICP | |
| 31 | 318.70 | | -1.585 | |
| Std Dev | 297.95 | | -1.000 | |
| 61 | 275.50 | | -0.367 | |
| 61 | 271.50 | | -0.254 | |
| 43 | 262.50 | | 0.000 | |
| Median | 262.50 | | 0.000 | |
| 43 | 260.00 | | 0.071 | |
| Std Dev | 227.05 | | 1.000 | |
| 24 | 192.00 | | 1.989 | |
| 111 | 0.63 | | 7.388 | |

| 321.99 | | | Acid Soluble Zinc | |
|---------|--------|--|-------------------|--|
| Lab | | | Other | |
| 330 | 290.00 | | -1.340 | |
| Std Dev | 287.46 | | -1.000 | |
| Median | 280.00 | | 0.000 | |
| Std Dev | 272.54 | | 1.000 | |
| 219 | 270.00 | | 1.340 | |

| 321.XX | | | Acid Soluble Zinc | |
|---------|--------|--|-------------------|--|
| Lab | PPM | | Total Method | |
| 31 | 318.70 | | -4.718 | |
| 330 | 290.00 | | -1.946 | |
| Std Dev | 280.20 | | -1.000 | |
| 61 | 275.50 | | -0.546 | |
| 61 | 271.50 | | -0.159 | |
| 219 | 270.00 | | -0.014 | |
| Median | 269.85 | | 0.000 | |
| 219 | 269.70 | | 0.014 | |
| 43 | 262.50 | | 0.710 | |
| 43 | 260.00 | | 0.951 | |
| Std Dev | 259.50 | | 1.000 | |
| 24 | 192.00 | | 7.518 | |
| 111 | 0.63 | | 26.001 | |

| 325.10 | | | Fluoride | |
|--------|------|--|-----------|--|
| Lab | % | | Electrode | |
| 23 | 1.35 | | -0.731 | |
| 23 | 1.35 | | -0.609 | |
| 24 | 1.35 | | -0.609 | |
| 34 | 1.34 | | -0.487 | |
| 31 | 1.33 | | -0.305 | |

| | | |
|--------|------|--------|
| 32 | 1.32 | 0.000 |
| 79 | 1.32 | 0.000 |
| Median | 1.32 | 0.000 |
| 24 | 1.32 | 0.122 |
| 14 | 1.26 | 1.462 |
| 14 | 1.26 | 1.584 |
| 111 | 0.26 | 25.825 |

| 325.99 | | | Fluoride | |
|--------|------|--|----------|--|
| Lab | % | | Other | |
| 61 | 1.39 | | -0.804 | |
| 330 | 1.37 | | 0.000 | |
| Median | 1.37 | | 0.000 | |
| 61 | 1.34 | | 1.876 | |

| 325.XX | | | Fluoride | |
|--------|------|--|--------------|--|
| Lab | % | | Total Method | |
| 61 | 1.39 | | -2.389 | |
| 330 | 1.37 | | -1.690 | |
| 23 | 1.35 | | -0.757 | |
| 23 | 1.35 | | -0.524 | |
| 24 | 1.35 | | -0.524 | |
| 34 | 1.34 | | -0.291 | |
| 61 | 1.34 | | -0.058 | |
| Median | 1.33 | | 0.000 | |
| 31 | 1.33 | | 0.058 | |
| 32 | 1.32 | | 0.641 | |
| 79 | 1.32 | | 0.641 | |
| 24 | 1.32 | | 0.874 | |
| 14 | 1.26 | | 3.437 | |
| 14 | 1.26 | | 3.670 | |
| 111 | 0.26 | | 50.046 | |