

AFPC

2014-03

Grade

18-46-0

Sample

| | AOAC Ref. | Method # | # of Labs. | Grand Median | Std Dev |
|---|------------|----------|------------|--------------|---------|
| AMMONIACAL NITROGEN | | | | | |
| Ammoniacal Nitrogen, Other | | 001.99 | 9 | 17.01 | 0.13 |
| Method Group 001.XX PCT | | | 9 | 17.01 | 0.16 |
| NITROGEN FROM UREA | | | | | |
| Nitrogen from Urea, Other | | 005.99 | 1 | 2.43 | 0.00 |
| Method Group 005.XX PCT | | | 1 | 2.43 | 0.00 |
| TOTAL NITROGEN | | | | | |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 3 | 17.84 | 0.06 |
| Total Nitrogen, Salicylic | 955.04d | 010.12 | 1 | 17.66 | 0.00 |
| Total Nitrogen, Combustion | 993.13 | 010.60 | 21 | 17.80 | 0.21 |
| Total Nitrogen, Other | | 010.99 | 8 | 17.78 | 0.04 |
| Method Group 010.XX PCT | | | 33 | 17.79 | 0.17 |
| TOTAL PHOSPHATE | | | | | |
| Total Phosphate, Gravimetric Quimociac | | 020.10 | 1 | 46.56 | 0.00 |
| Total Phosphate, Spectrometric | 978.02 | 020.20 | 21 | 46.40 | 0.29 |
| Total Phosphate, Alka. Quimociac | 955.04d | 020.30 | 1 | 45.84 | 0.00 |
| Total Phosphate, ICP | 970.03 | 020.40 | 4 | 46.21 | 0.30 |
| Total Phosphate, Other | 993.13 | 020.99 | 1 | 46.58 | 0.00 |
| Method Group 020.XX PCT | | | 28 | 46.37 | 0.38 |
| INSOLUBLE PHOSPHATE | | | | | |
| Insoluble Phosphate, Spectrometric | 963.03C(b) | 030.20 | 9 | 0.15 | 0.06 |
| Insoluble Phosphate, Alka. Quimociac | 963.03C(c) | 030.30 | 1 | 0.11 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 2 | 0.23 | 0.05 |
| Insoluble Phosphate, Other | | 030.99 | 2 | 0.28 | 0.03 |
| Method Group 030.XX PCT | | | 14 | 0.16 | 0.10 |
| INDIRECT AVAILABLE PHOSPHATE | | | | | |
| Indirect Available Phosphate, Spectrometric | 960.02 | 040.20 | 11 | 46.17 | 0.27 |
| Indirect Available Phosphate, Automated | 960.02 | 040.40 | 1 | 46.75 | 0.00 |
| Indirect Available Phosphate, Other | | 040.99 | 1 | 46.20 | 0.00 |
| Method Group 040.XX PCT | | | 13 | 46.20 | 0.35 |
| DIRECT AVAILABLE PHOSPHATE | | | | | |
| Direct Available Phosphate, Gravimetric Quimociac | 960.03E | 041.10 | 3 | 46.46 | 0.37 |
| Direct Available Phosphate, Spectrometric | 960.03D | 041.20 | 2 | 46.03 | 0.00 |
| Direct Available Phosphate, Automated | 978.01 | 041.40 | 2 | 46.31 | 0.18 |
| Direct Available Phosphate, ICP | | 041.50 | 3 | 45.25 | 0.61 |
| Direct Available Phosphate, EDTA Extract | 993.01 | 041.60 | 4 | 46.53 | 0.46 |
| Method Group 041.XX PCT | | | 14 | 46.19 | 0.77 |
| WATER SOLUBLE PHOSPHATE | | | | | |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 13 | 41.71 | 0.33 |
| Water Soluble Phosphate, Alka. Quimociac | 964.04 | 048.30 | 1 | 39.79 | 0.00 |
| Water Soluble Phosphate, Other | | 048.99 | 4 | 41.80 | 0.72 |
| Method Group 048.XX PCT | | | 18 | 41.75 | 0.47 |
| SOLUBLE POTASH AS K₂O | | | | | |
| Soluble Potash, Atomic Absorption(Oxalate) | | 050.30 | 1 | 0.71 | 0.00 |
| Soluble Potash, ICP(Oxalate) | | 050.50 | 2 | 0.16 | 0.00 |
| Soluble Potash, ICP(Citrate) | | 050.51 | 1 | 0.17 | 0.00 |
| Soluble Potash, Flame Photometric(Citrate) | 983.02B(b) | 050.61 | 1 | 0.20 | 0.00 |
| Soluble Potash, Other | | 050.99 | 9 | 0.16 | 0.00 |
| Method Group 050.XX PCT | | | 14 | 0.16 | 0.01 |
| FREE WATER | | | | | |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 15 | 2.08 | 0.18 |
| Free Water, Vacuum Desiccate | 965.08A | 060.10 | 2 | 2.31 | 0.11 |
| Free Water, Other | | 060.99 | 2 | 2.06 | 0.00 |
| Method Group 060.XX PCT | | | 19 | 2.08 | 0.19 |
| ACID SOLUBLE CALCIUM AS CaO | | | | | |
| Acid Soluble Calcium, Atomic Absorption | 945.04 | 101.00 | 1 | 0.13 | 0.00 |
| Acid Soluble Calcium, ICP | | 101.30 | 17 | 0.20 | 0.03 |

| | | | | | |
|---|-----------|--------|----|------|------|
| Acid Soluble Calcium, Other | | 101.99 | 1 | 0.22 | 0.00 |
| Method Group 101.XX PCT | | | 19 | 0.20 | 0.04 |
| ACID SOLUBLE MAGNESIUM AS MgO | | | | | |
| Acid Soluble Magnesium, Atomic Absorption | 984.01 | 121.00 | 1 | 0.75 | 0.00 |
| Acid Soluble Magnesium, ICP | | 121.30 | 17 | 1.03 | 0.04 |
| Acid Soluble Magnesium, Other | | 121.99 | 1 | 0.91 | 0.00 |
| Method Group 121.XX PCT | | | 19 | 1.03 | 0.04 |
| SULFATE SULFUR (S) | | | | | |
| Sulfur, Gravimetric | 980.02(a) | 144.01 | 1 | 2.24 | 0.00 |
| Sulfur, Spectrometric | | 144.70 | 2 | 2.47 | 0.00 |
| Sulfur, Other | | 144.99 | 11 | 2.25 | 0.04 |
| Method Group 144.XX PCT | | | 14 | 2.26 | 0.10 |
| TOTAL SULFUR (S) | | | | | |
| Sulfur, Other | | 145.99 | 3 | 2.21 | 0.16 |
| Method Group 145.XX PCT | | | 3 | 2.21 | 0.20 |
| TOTAL ARSENIC | | | | | |
| Total Arsenic, ICP | 980.02(b) | 151.02 | 9 | 13 | 1.2 |
| Method Group 151.XX PPM | | | 9 | 13 | 1.5 |
| ACID SOLUBLE BORON | | | | | |
| Acid Soluble Boron, Other | | 165.99 | 1 | 62 | 0.0 |
| Method Group 165.XX PPM | | | 1 | 62 | 0.0 |
| TOTAL CADMIUM | | | | | |
| Total Cadmium, ICP | | 181.30 | 7 | 18 | 0.9 |
| Total Cadmium, Other | | 181.99 | 1 | 20 | 0.0 |
| Method Group 181.XX PPM | | | 8 | 18 | 1.7 |
| ALUMINUM AS Al₂O₃ | | | | | |
| ICP, % | | | 16 | 1.38 | 0.04 |
| Water Soluble Chlorine, Other, % | | 190.99 | 1 | 1.35 | 0.00 |
| Method Group 190.XX PCT | | | 17 | 1.38 | 0.05 |
| TOTAL CHROMIUM | | | | | |
| Total Chromium, ICP | | 191.30 | 9 | 168 | 3.8 |
| Total Chromium, Other | | 191.99 | 1 | 177 | 0.0 |
| Method Group 191.XX PPM | | | 10 | 169 | 7.1 |
| ACID SOLUBLE COBALT | | | | | |
| Acid Soluble Cobalt, ICP | | 202.30 | 7 | 3 | 0.0 |
| Acid Soluble Cobalt, Other | | 202.99 | 1 | 3 | 0.0 |
| Method Group 202.XX PPM | | | 8 | 3 | 0.1 |
| ACID SOLUBLE COPPER | | | | | |
| Acid Soluble Copper, ICP | | 221.30 | 7 | 15 | 8.2 |
| Acid Soluble Copper, Other | | 221.99 | 2 | 0 | 8.9 |
| Method Group 221.XX PPM | | | 9 | 15 | 14.0 |
| ACID SOLUBLE IRON AS Fe₂O₃ | | | | | |
| Acid Soluble Iron, ICP | | 241.30 | 16 | 1.11 | 0.03 |
| Acid Soluble Iron, Other | | 241.99 | 2 | 1.05 | 0.04 |
| Method Group 241.XX PCT | | | 18 | 1.11 | 0.04 |
| TOTAL LEAD | | | | | |
| Total Lead, ICP | | 251.30 | 6 | 1 | 0.3 |
| Total Lead, Other | | 251.99 | 1 | 0 | 0.0 |
| Method Group 251.XX PPM | | | 7 | 1 | 0.5 |
| ACID SOLUBLE MANGANESE | | | | | |
| Acid Soluble Manganese, Atomic Absorption | 972.02b | 261.11 | 1 | 189 | 0.0 |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 4 | 186 | 5.5 |
| Acid Soluble Manganese, Other | | 261.99 | 6 | 200 | 12.0 |
| Method Group 261.XX PPM | | | 11 | 190 | 16.6 |
| TOTAL MOLYBDENUM | | | | | |
| Total Molybdenum, ICP | | 289.30 | 8 | 8 | 0.5 |
| Total Molybdenum, Other | | 289.99 | 1 | 9 | 0.0 |
| Method Group 289.XX PPM | | | 9 | 8 | 0.5 |
| TOTAL NICKEL | | | | | |
| Total Nickel, ICP | | 291.30 | 7 | 22 | 1.1 |
| Total Nickel, Other | | 291.99 | 2 | 22 | 1.1 |
| Method Group 291.XX PPM | | | 9 | 22 | 1.7 |

| | | | | | |
|--------------------------------------|--------|--------|----|-------|------|
| TOTAL SELENIUM | | | | | |
| Total Selenium, ICP | 301.30 | | 1 | 8 | 0.0 |
| Method Group 301.XX PPM | | | 1 | 8 | 0.0 |
| SODIUM AS Na₂O | | | | | |
| Sodium, Other | 311.99 | | 9 | 0.20 | 0.02 |
| Method Group 311.XX PCT | | | 9 | 0.20 | 0.03 |
| ACID SOLUBLE ZINC | | | | | |
| Acid Soluble Zinc, Atomic Absorption | 975.02 | 321.00 | 1 | 699.7 | 0.0 |
| Acid Soluble Zinc, ICP | | 321.30 | 6 | 697.2 | 44.4 |
| Acid Soluble Zinc, Other | | 321.99 | 3 | 665.0 | 18.8 |
| Method Group 321.XX PPM | | | 10 | 697.0 | 18.2 |
| FLUORIDE | | | | | |
| Volumetric | 325.10 | | 13 | 0.83 | 0.05 |
| Distilled/Electrode | 325.99 | | 2 | 0.83 | 0.01 |
| Method Group 325.XX PCT | | | 15 | 0.83 | 0.06 |

| 001.99 Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | | Other |
| 79 | 17.36 | -2.568 |
| 24 | 17.17 | -1.191 |
| 34 | 17.16 | -1.117 |
| Std Dev | 17.14 | -1.000 |
| 24 | 17.08 | -0.521 |
| 32 | 17.01 | 0.000 |
| Median | 17.01 | 0.000 |
| 32 | 16.99 | 0.186 |
| 310 | 16.98 | 0.223 |
| 275 | 16.94 | 0.521 |
| 275 | 16.92 | 0.670 |

| 001.XX Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | | Total Method |
| 79 | 17.36 | -2.568 |
| 24 | 17.17 | -1.191 |
| 34 | 17.16 | -1.117 |
| Std Dev | 17.14 | -1.000 |
| 24 | 17.08 | -0.521 |
| 32 | 17.01 | 0.000 |
| Median | 17.01 | 0.000 |
| 32 | 16.99 | 0.186 |
| 310 | 16.98 | 0.223 |
| 275 | 16.94 | 0.521 |
| 275 | 16.92 | 0.670 |

| 005.99 Nitrogen from Urea | | |
|---------------------------|-------------|--------------|
| Lab | | Other |
| 310 | 2.43 | 0.000 |
| Median | 2.43 | 0.000 |

| 005.XX Nitrogen from Urea | | |
|---------------------------|-------------|--------------|
| Lab | | Total Method |
| 310 | 2.43 | 0.000 |
| Median | 2.43 | 0.000 |

| 010.11 Total Nitrogen | | |
|-----------------------|--------------|------------------------|
| Lab | | Modified Comprehensive |
| 219 | 17.88 | -0.625 |
| 43 | 17.84 | 0.000 |
| Median | 17.84 | 0.000 |
| Std Dev | 17.78 | 1.000 |

43 17.73 2.055

| 010.12 Total Nitrogen | | |
|-----------------------|--------------|--------------|
| Lab | | Salicylic |
| 107 | 17.66 | 0.000 |
| Median | 17.66 | 0.000 |

| 010.60 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | | Combustion |
| 49 | 18.08 | -1.316 |
| 47 | 18.06 | -1.222 |
| 63 | 18.03 | -1.081 |
| 219 | 18.02 | -1.034 |
| Std Dev | 18.01 | -1.000 |
| 14 | 18.00 | -0.940 |
| 24 | 17.97 | -0.799 |
| 14 | 17.97 | -0.776 |
| 29 | 17.95 | -0.705 |
| 24 | 17.90 | -0.470 |
| 95 | 17.80 | 0.000 |
| 80 | 17.80 | 0.000 |
| Median | 17.80 | 0.000 |
| 79 | 17.80 | 0.024 |
| 9 | 17.78 | 0.118 |
| 111 | 17.78 | 0.118 |
| 61 | 17.71 | 0.423 |
| 31 | 17.69 | 0.541 |
| 61 | 17.69 | 0.541 |
| 137 | 17.68 | 0.588 |
| Std Dev | 17.59 | 1.000 |
| 103 | 17.56 | 1.152 |
| 77 | 17.54 | 1.246 |
| 110 | 16.62 | 5.548 |

| 010.99 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | | Other |
| 32 | 17.87 | -2.167 |
| 32 | 17.83 | -1.140 |
| Std Dev | 17.82 | -1.000 |
| 23 | 17.79 | -0.228 |
| 99 | 17.78 | -0.114 |
| Median | 17.78 | 0.000 |
| 34 | 17.77 | 0.114 |
| 23 | 17.75 | 0.684 |

| | | |
|----------------|--------------|--------------|
| Std Dev | 17.73 | 1.000 |
| 275 | 17.71 | 1.483 |
| 275 | 17.54 | 5.360 |

| 010.XX Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | | Total Method |
| 49 | 18.08 | -2.081 |
| 47 | 18.06 | -1.939 |
| 63 | 18.03 | -1.728 |
| 219 | 18.02 | -1.657 |
| 14 | 18.00 | -1.516 |
| 24 | 17.97 | -1.305 |
| 14 | 17.97 | -1.269 |
| 29 | 17.95 | -1.164 |
| Std Dev | 17.93 | -1.000 |
| 24 | 17.90 | -0.811 |
| 219 | 17.88 | -0.635 |
| 32 | 17.87 | -0.599 |
| 43 | 17.84 | -0.388 |
| 32 | 17.83 | -0.282 |
| 95 | 17.80 | -0.106 |
| 80 | 17.80 | -0.106 |
| 79 | 17.80 | -0.071 |
| 23 | 17.79 | 0.000 |
| Median | 17.79 | 0.000 |
| 99 | 17.78 | 0.035 |
| 9 | 17.78 | 0.071 |
| 111 | 17.78 | 0.071 |
| 34 | 17.77 | 0.106 |
| 23 | 17.75 | 0.282 |
| 43 | 17.73 | 0.423 |
| 61 | 17.71 | 0.529 |
| 275 | 17.71 | 0.529 |
| 31 | 17.69 | 0.705 |
| 61 | 17.69 | 0.705 |
| 137 | 17.68 | 0.776 |
| 107 | 17.66 | 0.917 |
| Std Dev | 17.64 | 1.000 |
| 103 | 17.56 | 1.622 |
| 275 | 17.54 | 1.728 |
| 77 | 17.54 | 1.763 |
| 110 | 16.62 | 8.216 |

| 020.10 Total Phosphate | | |
|------------------------|--------------|-----------------------|
| Lab | | Gravimetric Quimociac |
| 219 | 46.56 | 0.000 |
| Median | 46.56 | 0.000 |

| 020.20 Total Phosphate | | |
|------------------------|--------------|---------------|
| Lab | | Spectrometric |
| 95 | 47.80 | -4.766 |
| 9 | 46.91 | -1.730 |
| Std Dev | 46.69 | -1.000 |
| 24 | 46.64 | -0.831 |
| 61 | 46.62 | -0.763 |
| 24 | 46.60 | -0.695 |
| 32 | 46.59 | -0.645 |
| 32 | 46.55 | -0.509 |
| 61 | 46.51 | -0.373 |
| 34 | 46.50 | -0.356 |
| 31 | 46.40 | -0.017 |
| 43 | 46.40 | 0.000 |
| Median | 46.40 | 0.000 |
| 310 | 46.34 | 0.187 |
| 275 | 46.31 | 0.288 |
| 79 | 46.25 | 0.492 |
| 14 | 46.19 | 0.695 |
| 275 | 46.19 | 0.695 |
| 14 | 46.16 | 0.797 |
| 23 | 46.16 | 0.814 |
| 23 | 46.13 | 0.916 |
| 43 | 46.12 | 0.950 |
| Std Dev | 46.10 | 1.000 |
| 110 | 46.10 | 1.018 |

| 020.30 Total Phosphate | | |
|------------------------|--------------|-----------------|
| Lab | | Alka. Quimociac |
| 111 | 45.84 | 0.000 |
| Median | 45.84 | 0.000 |

| 020.40 Total Phosphate | | |
|------------------------|--------------|---------------|
| Lab | | Automated |
| 9 | 46.87 | -2.223 |
| Std Dev | 46.51 | -1.000 |
| 137 | 46.30 | -0.279 |
| Median | 46.21 | 0.000 |
| 219 | 46.13 | 0.279 |

| | | |
|---------|-------|-------|
| Std Dev | 45.92 | 1.000 |
| 111 | 45.78 | 1.463 |

| 020.99 | Total Phosphate | |
|--------|-----------------|-------|
| Lab | | Other |
| 99 | 46.58 | 0.000 |
| Median | 46.58 | 0.000 |

| 020.XX | Total Phosphate | |
|--------|-----------------|--------|
| Lab | Total Method | |
| 95 | 47.80 | -4.584 |
| 9 | 46.91 | -1.720 |
| 9 | 46.87 | -1.608 |

| | | |
|---------|-------|--------|
| Std Dev | 46.68 | -1.000 |
| 24 | 46.64 | -0.872 |
| 61 | 46.62 | -0.808 |
| 24 | 46.60 | -0.744 |
| 32 | 46.59 | -0.696 |
| 99 | 46.58 | -0.664 |
| 219 | 46.56 | -0.600 |
| 32 | 46.55 | -0.568 |
| 61 | 46.51 | -0.440 |
| 34 | 46.50 | -0.424 |
| 31 | 46.40 | -0.104 |
| 43 | 46.40 | -0.088 |
| Median | 46.37 | 0.000 |

| | | |
|---------|-------|-------|
| 310 | 46.34 | 0.088 |
| 275 | 46.31 | 0.184 |
| 137 | 46.30 | 0.232 |
| 79 | 46.25 | 0.376 |
| 14 | 46.19 | 0.568 |
| 275 | 46.19 | 0.568 |
| 14 | 46.16 | 0.664 |
| 23 | 46.16 | 0.680 |
| 219 | 46.13 | 0.760 |
| 23 | 46.13 | 0.776 |
| 43 | 46.12 | 0.808 |
| 110 | 46.10 | 0.872 |
| Std Dev | 46.06 | 1.000 |
| 111 | 45.84 | 1.688 |
| 111 | 45.78 | 1.880 |

| 030.20 | Insoluble Phosphate | |
|--------|---------------------|--|
| Lab | Spectrometric | |

| | | |
|---------|------|--------|
| 61 | 0.34 | -3.395 |
| Std Dev | 0.20 | -1.000 |
| 61 | 0.19 | -0.804 |
| 23 | 0.18 | -0.536 |
| 23 | 0.16 | -0.268 |
| 79 | 0.15 | 0.000 |
| Median | 0.15 | 0.000 |
| 24 | 0.12 | 0.447 |
| 24 | 0.10 | 0.804 |
| Std Dev | 0.09 | 1.000 |
| 14 | 0.05 | 1.697 |
| 14 | 0.05 | 1.787 |

| 030.30 | Insoluble Phosphate | |
|--------|---------------------|-------|
| Lab | Alka. Quimociac | |
| 31 | 0.11 | 0.000 |
| Median | 0.11 | 0.000 |

| 030.40 | Insoluble Phosphate | |
|---------|---------------------|--------|
| Lab | Automated | |
| 34 | 0.30 | -1.340 |
| Std Dev | 0.28 | -1.000 |
| Median | 0.23 | 0.000 |
| Std Dev | 0.18 | 1.000 |
| 9 | 0.16 | 1.340 |

| 030.99 | Insoluble Phosphate | |
|---------|---------------------|--------|
| Lab | Other | |
| 32 | 0.32 | -1.340 |
| Std Dev | 0.31 | -1.000 |
| Median | 0.28 | 0.000 |
| Std Dev | 0.24 | 1.000 |
| 32 | 0.23 | 1.340 |

| 030.XX | Insoluble Phosphate | |
|---------|---------------------|--------|
| Lab | Total Method | |
| 61 | 0.34 | -2.108 |
| 32 | 0.32 | -1.927 |
| 34 | 0.30 | -1.686 |
| Std Dev | 0.24 | -1.000 |
| 32 | 0.23 | -0.843 |
| 61 | 0.19 | -0.361 |
| 23 | 0.18 | -0.181 |
| 9 | 0.16 | 0.000 |

| | | |
|---------|------|-------|
| 23 | 0.16 | 0.000 |
| Median | 0.16 | 0.000 |
| 79 | 0.15 | 0.181 |
| 24 | 0.12 | 0.482 |
| 31 | 0.11 | 0.662 |
| 24 | 0.10 | 0.723 |
| Std Dev | 0.08 | 1.000 |
| 14 | 0.05 | 1.325 |
| 14 | 0.05 | 1.385 |

| 040.20 | Indirect Available Phosphate | |
|---------|------------------------------|--------|
| Lab | Spectrometric | |
| 9 | 46.71 | -2.024 |
| 24 | 46.53 | -1.349 |
| 24 | 46.50 | -1.237 |
| Std Dev | 46.44 | -1.000 |
| 61 | 46.43 | -0.975 |
| 31 | 46.30 | -0.487 |
| 61 | 46.17 | 0.000 |
| Median | 46.17 | 0.000 |
| 14 | 46.15 | 0.094 |
| 14 | 46.11 | 0.225 |
| 79 | 46.11 | 0.244 |
| 23 | 46.00 | 0.656 |
| 23 | 45.95 | 0.825 |

| 040.40 | Indirect Available Phosphate | |
|--------|------------------------------|-------|
| Lab | Automated | |
| 9 | 46.75 | 0.000 |
| Median | 46.75 | 0.000 |

| 040.99 | Indirect Available Phosphate | |
|--------|------------------------------|-------|
| Lab | Other | |
| 34 | 46.20 | 0.000 |
| Median | 46.20 | 0.000 |

| 040.XX | Indirect Available Phosphate | |
|---------|------------------------------|--------|
| Lab | Total Method | |
| 9 | 46.75 | -1.873 |
| 9 | 46.71 | -1.752 |
| 24 | 46.53 | -1.134 |
| 24 | 46.50 | -1.031 |
| Std Dev | 46.49 | -1.000 |
| 61 | 46.43 | -0.790 |

| | | |
|--------|-------|--------|
| 31 | 46.30 | -0.344 |
| 34 | 46.20 | 0.000 |
| Median | 46.20 | 0.000 |
| 61 | 46.17 | 0.103 |
| 14 | 46.15 | 0.189 |
| 14 | 46.11 | 0.309 |
| 79 | 46.11 | 0.326 |
| 23 | 46.00 | 0.704 |
| 23 | 45.95 | 0.859 |

| 041.10 | Direct Available Phosphate | |
|---------|----------------------------|--------|
| Lab | Gravimetric Quimociac | |
| 47 | 46.59 | -0.338 |
| 219 | 46.46 | 0.000 |
| Median | 46.46 | 0.000 |
| Std Dev | 46.09 | 1.000 |
| 107 | 45.60 | 2.342 |

| 041.20 | Direct Available Phosphate | |
|---------|----------------------------|--------|
| Lab | Spectrometric | |
| 275 | 46.03 | -1.340 |
| Std Dev | 46.03 | -1.000 |
| Median | 46.03 | 0.000 |
| Std Dev | 46.02 | 1.000 |
| 275 | 46.02 | 1.340 |

| 041.40 | Direct Available Phosphate | |
|---------|----------------------------|--------|
| Lab | Automated | |
| 49 | 46.55 | -1.340 |
| Std Dev | 46.49 | -1.000 |
| Median | 46.31 | 0.000 |
| Std Dev | 46.13 | 1.000 |
| 103 | 46.07 | 1.340 |

| 041.50 | Direct Available Phosphate | |
|---------|----------------------------|--------|
| Lab | ICP | |
| 63 | 46.68 | -2.351 |
| Std Dev | 45.86 | -1.000 |
| 47 | 45.25 | 0.000 |
| Median | 45.25 | 0.000 |
| 80 | 45.05 | 0.329 |

| 041.60 | Direct Available Phosphate | |
|--------|----------------------------|--|
| Lab | EDTA Extract | |

| | | |
|---------|-------|--------|
| 77 | 46.80 | -0.590 |
| 29 | 46.74 | -0.468 |
| Median | 46.53 | 0.000 |
| 219 | 46.32 | 0.468 |
| Std Dev | 46.07 | 1.000 |
| 137 | 45.63 | 1.962 |

| 041.XX Direct Available Phosphate | | |
|-----------------------------------|--------------|--------|
| Lab | Total Method | |
| 77 | 46.80 | -0.963 |
| 29 | 46.74 | -0.875 |
| 63 | 46.68 | -0.774 |
| 47 | 46.59 | -0.624 |
| 49 | 46.55 | -0.568 |
| 219 | 46.46 | -0.426 |
| 219 | 46.32 | -0.197 |
| Median | 46.19 | 0.000 |
| 103 | 46.07 | 0.197 |
| 275 | 46.03 | -0.253 |
| 275 | 46.02 | 0.268 |
| 137 | 45.63 | 0.884 |
| 107 | 45.60 | 0.939 |
| Std Dev | 45.56 | 1.000 |
| 47 | 45.25 | 1.484 |
| 80 | 45.05 | 1.800 |

| 048.20 Water Soluble Phosphate Spectrometric | | |
|--|-------|--------|
| Lab | | |
| 9 | 42.47 | -2.273 |
| 14 | 42.28 | -1.701 |
| 14 | 42.07 | -1.069 |
| Std Dev | 42.04 | -1.000 |
| 23 | 41.82 | -0.331 |
| 23 | 41.81 | -0.286 |
| 31 | 41.80 | -0.271 |
| 24 | 41.71 | 0.000 |
| Median | 41.71 | 0.000 |
| 79 | 41.54 | 0.527 |
| 24 | 41.50 | 0.632 |
| Std Dev | 41.38 | 1.000 |
| 61 | 41.38 | 1.009 |
| 61 | 41.27 | 1.325 |
| 275 | 40.50 | 3.644 |
| 275 | 40.40 | 3.945 |

| 048.30 Water Soluble Phosphate Alka. Quimociac | | |
|--|-------|-------|
| Lab | | |
| 111 | 39.79 | 0.000 |
| Median | 39.79 | 0.000 |

| 048.99 Water Soluble Phosphate Other | | |
|--------------------------------------|-------|--------|
| Lab | | |
| 32 | 42.07 | -0.368 |
| 32 | 41.81 | -0.014 |
| Median | 41.80 | 0.000 |
| 34 | 41.79 | 0.014 |
| Std Dev | 41.08 | 1.000 |
| 111 | 38.27 | 4.909 |

| 048.XX Water Soluble Phosphate Total Method | | |
|---|-------|--------|
| Lab | | |
| 9 | 42.47 | -1.838 |
| 14 | 42.28 | -1.350 |
| Std Dev | 42.14 | -1.000 |
| 14 | 42.07 | -0.810 |
| 32 | 42.07 | -0.810 |
| 23 | 41.82 | -0.180 |
| 32 | 41.81 | -0.154 |
| 23 | 41.81 | -0.141 |
| 31 | 41.80 | -0.129 |
| 34 | 41.79 | -0.103 |
| Median | 41.75 | 0.000 |
| 24 | 41.71 | 0.103 |
| 79 | 41.54 | 0.553 |
| 24 | 41.50 | 0.643 |
| 61 | 41.38 | 0.964 |
| Std Dev | 41.36 | 1.000 |
| 61 | 41.27 | 1.234 |
| 275 | 40.50 | 3.213 |
| 275 | 40.40 | 3.471 |
| 111 | 39.79 | 5.052 |
| 111 | 38.27 | 8.959 |

| 050.30 Soluble Potash Atomic Absorption(Oxalate) | | |
|--|------|-------|
| Lab | | |
| 95 | 0.71 | 0.000 |
| Median | 0.71 | 0.000 |

| 050.50 %K ₂ O Soluble Potash ICP(Oxalate) | | |
|--|------|-------|
| Lab | | |
| 23 | 0.16 | 0.000 |
| 23 | 0.16 | 0.000 |
| Median | 0.16 | 0.000 |

| 050.51 %K ₂ O Soluble Potash ICP(Citrate) | | |
|--|------|-------|
| Lab | | |
| 137 | 0.17 | 0.000 |
| Median | 0.17 | 0.000 |

| 050.61 Soluble Potash Flame Photometric(Citrate) | | |
|--|------|-------|
| Lab | | |
| 219 | 0.20 | 0.000 |
| Median | 0.20 | 0.000 |

| 050.99 Soluble Potash Other | | |
|-----------------------------|-------------------|---------|
| Lab | %K ₂ O | |
| 80 | 0.30 | -28.441 |
| 61 | 0.17 | -2.031 |
| 43 | 0.17 | -1.340 |
| 61 | 0.17 | -1.016 |
| Std Dev | 0.16 | -1.000 |
| 24 | 0.16 | 0.000 |
| 24 | 0.16 | 0.000 |
| 99 | 0.16 | 0.000 |
| Median | 0.16 | 0.000 |
| 43 | 0.16 | 0.459 |
| Std Dev | 0.16 | 1.000 |
| 111 | 0.15 | 2.133 |

| 050.XX Soluble Potash Total Method | | |
|------------------------------------|-------------------|---------|
| Lab | %K ₂ O | |
| 95 | 0.71 | -73.365 |
| 80 | 0.30 | -18.425 |
| 219 | 0.20 | -5.025 |
| 61 | 0.17 | -1.005 |
| 137 | 0.17 | -1.005 |
| Std Dev | 0.17 | -1.000 |
| 43 | 0.17 | -0.549 |
| 61 | 0.17 | -0.335 |
| Median | 0.16 | 0.000 |
| 23 | 0.16 | 0.335 |
| 23 | 0.16 | 0.335 |

| | | |
|---------|------|-------|
| 24 | 0.16 | 0.335 |
| 24 | 0.16 | 0.335 |
| 99 | 0.16 | 0.335 |
| 43 | 0.16 | 0.638 |
| Std Dev | 0.16 | 1.000 |
| 111 | 0.15 | 1.742 |

| 060.00 Free Water Vacuum Oven | | |
|-------------------------------|------|--------|
| Lab | | |
| 32 | 2.34 | -1.408 |
| Std Dev | 2.26 | -1.000 |
| 24 | 2.20 | -0.650 |
| 32 | 2.19 | -0.568 |
| 79 | 2.18 | -0.541 |
| 23 | 2.18 | -0.514 |
| 24 | 2.16 | -0.433 |
| 31 | 2.11 | -0.135 |
| 23 | 2.08 | 0.000 |
| Median | 2.08 | 0.000 |
| 9 | 2.05 | 0.189 |
| 43 | 1.99 | 0.514 |
| 43 | 1.95 | 0.704 |
| 34 | 1.91 | 0.920 |
| 14 | 1.90 | 0.975 |
| Std Dev | 1.90 | 1.000 |
| 14 | 1.90 | 1.002 |
| 111 | 1.77 | 1.678 |

| 060.10 Free Water Vacuum Desiccate | | |
|------------------------------------|------|--------|
| Lab | | |
| 61 | 2.46 | -1.340 |
| Std Dev | 2.42 | -1.000 |
| Median | 2.31 | 0.000 |
| Std Dev | 2.19 | 1.000 |
| 61 | 2.16 | 1.340 |

| 060.99 Free Water Other | | |
|-------------------------|------|-------|
| Lab | | |
| 275 | 2.06 | 0.000 |
| 275 | 2.06 | 0.000 |
| Median | 2.06 | 0.000 |

| 060.XX Free Water Total Method | | |
|--------------------------------|--|--|
| Lab | | |

| | | |
|---------|------|--------|
| 61 | 2.46 | -2.425 |
| 32 | 2.34 | -1.659 |
| Std Dev | 2.24 | -1.000 |
| 24 | 2.20 | -0.766 |
| 32 | 2.19 | -0.670 |
| 79 | 2.18 | -0.638 |
| 23 | 2.18 | -0.606 |
| 24 | 2.16 | -0.510 |
| 61 | 2.16 | -0.479 |
| 31 | 2.11 | -0.160 |
| 23 | 2.08 | 0.000 |
| Median | 2.08 | 0.000 |
| 275 | 2.06 | 0.128 |
| 275 | 2.06 | 0.128 |
| 9 | 2.05 | 0.223 |
| 43 | 1.99 | 0.606 |
| 43 | 1.95 | 0.830 |
| Std Dev | 1.92 | 1.000 |
| 34 | 1.91 | 1.085 |
| 14 | 1.90 | 1.149 |
| 14 | 1.90 | 1.180 |
| 111 | 1.77 | 1.978 |

| | | |
|--------|----------------------|-------------------|
| 101.00 | Acid Soluble Calcium | |
| Lab | %CaO | Atomic Absorption |
| 219 | 0.13 | 0.000 |
| Median | 0.13 | 0.000 |

| | | |
|---------|----------------------|--------|
| 101.30 | Acid Soluble Calcium | |
| Lab | %CaO | ICP |
| 34 | 0.26 | -2.010 |
| 23 | 0.24 | -1.173 |
| 23 | 0.24 | -1.173 |
| 61 | 0.23 | -1.005 |
| Std Dev | 0.23 | -1.000 |
| 24 | 0.22 | -0.670 |
| 24 | 0.22 | -0.670 |
| 31 | 0.21 | -0.402 |
| 9 | 0.21 | -0.168 |
| 32 | 0.20 | 0.000 |
| 61 | 0.20 | 0.000 |
| Median | 0.20 | 0.000 |
| 32 | 0.19 | 0.335 |
| 14 | 0.19 | 0.503 |

| | | |
|---------|------|-------|
| 14 | 0.18 | 0.670 |
| 18 | 0.18 | 0.670 |
| Std Dev | 0.17 | 1.000 |
| 43 | 0.17 | 1.007 |
| 43 | 0.16 | 1.209 |
| 111 | 0.15 | 1.675 |

| | | |
|--------|----------------------|-------|
| 101.99 | Acid Soluble Calcium | |
| Lab | %CaO | Other |
| 219 | 0.22 | 0.000 |
| Median | 0.22 | 0.000 |

| | | |
|---------|----------------------|--------------|
| 101.XX | Acid Soluble Calcium | |
| Lab | %CaO | Total Method |
| 34 | 0.26 | -2.010 |
| 23 | 0.24 | -1.173 |
| 23 | 0.24 | -1.173 |
| 61 | 0.23 | -1.005 |
| Std Dev | 0.23 | -1.000 |
| 24 | 0.22 | -0.670 |
| 24 | 0.22 | -0.670 |
| 219 | 0.22 | -0.603 |
| 31 | 0.21 | -0.402 |
| 9 | 0.21 | -0.168 |
| 32 | 0.20 | 0.000 |
| 61 | 0.20 | 0.000 |
| Median | 0.20 | 0.000 |
| 32 | 0.19 | 0.335 |
| 14 | 0.19 | 0.503 |
| 14 | 0.18 | 0.670 |
| 18 | 0.18 | 0.670 |
| Std Dev | 0.17 | 1.000 |
| 43 | 0.17 | 1.007 |
| 43 | 0.16 | 1.209 |
| 111 | 0.15 | 1.675 |
| 219 | 0.13 | 2.211 |

| | | |
|--------|------------------------|-------------------|
| 121.00 | Acid Soluble Magnesium | |
| Lab | %MgO | Atomic Absorption |
| 219 | 0.75 | 0.000 |
| Median | 0.75 | 0.000 |

| | | |
|--------|------------------------|-----|
| 121.30 | Acid Soluble Magnesium | |
| Lab | %MgO | ICP |

| | | |
|---------|------|--------|
| 24 | 1.09 | -1.608 |
| 24 | 1.07 | -1.072 |
| 34 | 1.07 | -1.072 |
| Std Dev | 1.07 | -1.000 |
| 32 | 1.06 | -0.804 |
| 9 | 1.05 | -0.402 |
| 32 | 1.04 | -0.134 |
| 61 | 1.04 | -0.134 |
| 61 | 1.04 | -0.134 |
| 23 | 1.03 | 0.000 |
| Median | 1.03 | 0.000 |
| 23 | 1.03 | 0.134 |
| 18 | 1.02 | 0.268 |
| 14 | 1.00 | 0.804 |
| 14 | 1.00 | 0.938 |
| 31 | 1.00 | 0.938 |
| Std Dev | 0.99 | 1.000 |
| 43 | 0.99 | 1.072 |
| 43 | 0.95 | 2.144 |
| 111 | 0.90 | 3.484 |

| | | |
|--------|------------------------|-------|
| 121.99 | Acid Soluble Magnesium | |
| Lab | %MgO | Other |
| 219 | 0.91 | 0.000 |
| Median | 0.91 | 0.000 |

| | | |
|---------|------------------------|--------------|
| 121.XX | Acid Soluble Magnesium | |
| Lab | %MgO | Total Method |
| 24 | 1.09 | -1.834 |
| 24 | 1.07 | -1.269 |
| 34 | 1.07 | -1.269 |
| Std Dev | 1.06 | -1.000 |
| 32 | 1.06 | -0.987 |
| 9 | 1.05 | -0.564 |
| 32 | 1.04 | -0.282 |
| 61 | 1.04 | -0.282 |
| 61 | 1.04 | -0.282 |
| 23 | 1.03 | -0.141 |
| 23 | 1.03 | 0.000 |
| Median | 1.03 | 0.000 |
| 18 | 1.02 | 0.141 |
| 14 | 1.00 | 0.705 |
| 14 | 1.00 | 0.846 |
| 31 | 1.00 | 0.846 |

| | | |
|---------|------|-------|
| 43 | 0.99 | 0.987 |
| Std Dev | 0.99 | 1.000 |
| 43 | 0.95 | 2.116 |
| 219 | 0.91 | 3.216 |
| 111 | 0.90 | 3.526 |
| 219 | 0.75 | 7.631 |

| | | |
|---------|--------------------|-------------|
| 144..01 | Sulfate Sulfur (S) | |
| Lab | | Gravimetric |
| 219 | 2.24 | 0.000 |
| Median | 2.24 | 0.000 |

| | | |
|---------|--------|---------------|
| 144.70 | Sulfur | |
| Lab | | Spectrometric |
| 14 | 2.48 | -1.340 |
| Std Dev | 2.47 | -1.000 |
| Median | 2.47 | 0.000 |
| Std Dev | 2.47 | 1.000 |
| 14 | 2.47 | 1.340 |

| | | |
|---------|--------------------|--------|
| 144.99 | Sulfate Sulfur (S) | |
| Lab | | Other |
| 23 | 2.35 | -2.345 |
| 23 | 2.35 | -2.233 |
| 61 | 2.30 | -1.117 |
| Std Dev | 2.29 | -1.000 |
| 61 | 2.28 | -0.670 |
| 24 | 2.27 | -0.558 |
| 9 | 2.25 | 0.000 |
| Median | 2.25 | 0.000 |
| 34 | 2.23 | 0.335 |
| 32 | 2.23 | 0.447 |
| 32 | 2.23 | 0.447 |
| 24 | 2.22 | 0.558 |
| Std Dev | 2.20 | 1.000 |
| 31 | 2.04 | 4.578 |

| | | |
|---------|--------------------|--------------|
| 144.XX | Sulfate Sulfur (S) | |
| Lab | | Total Method |
| 14 | 2.48 | -2.743 |
| 14 | 2.47 | -2.617 |
| 23 | 2.35 | -1.167 |
| 23 | 2.35 | -1.104 |
| Std Dev | 2.34 | -1.000 |

| | | |
|---------|------|--------|
| 61 | 2.30 | -0.473 |
| 61 | 2.28 | -0.221 |
| 24 | 2.27 | -0.158 |
| Median | 2.26 | 0.000 |
| 9 | 2.25 | 0.158 |
| 219 | 2.24 | 0.221 |
| 34 | 2.23 | 0.347 |
| 32 | 2.23 | 0.410 |
| 32 | 2.23 | 0.410 |
| 24 | 2.22 | 0.473 |
| Std Dev | 2.18 | 1.000 |
| 31 | 2.04 | 2.743 |

| 145.99 Total Sulfur (S) | | |
|-------------------------|------|--------|
| Lab | | Other |
| 43 | 2.30 | -0.548 |
| 43 | 2.21 | 0.000 |
| Median | 2.21 | 0.000 |
| Std Dev | 2.05 | 1.000 |
| 111 | 1.86 | 2.132 |

| 145.XX Total Sulfur (S) | | |
|-------------------------|------|--------------|
| Lab | | Total Method |
| 43 | 2.30 | -0.548 |
| 43 | 2.21 | 0.000 |
| Median | 2.21 | 0.000 |
| Std Dev | 2.05 | 1.000 |
| 111 | 1.86 | 2.132 |

| 151.30 Total Arsenic | | |
|----------------------|-------|--------|
| Lab | | ICP |
| 43 | 17.85 | -4.355 |
| 43 | 17.35 | -3.936 |
| Std Dev | 13.84 | -1.000 |
| 24 | 13.60 | -0.796 |
| 61 | 13.10 | -0.377 |
| 18 | 12.65 | 0.000 |
| Median | 12.65 | 0.000 |
| 61 | 12.05 | 0.503 |
| 111 | 12.00 | 0.544 |
| 9 | 11.50 | 0.963 |
| Std Dev | 11.46 | 1.000 |
| 31 | 7.95 | 3.936 |

| 151.XX Total Arsenic | | |
|----------------------|-------|--------------|
| Lab | | Total Method |
| 43 | 17.85 | -4.355 |
| 43 | 17.35 | -3.936 |
| Std Dev | 13.84 | -1.000 |
| 24 | 13.60 | -0.796 |
| 61 | 13.10 | -0.377 |
| 18 | 12.65 | 0.000 |
| Median | 12.65 | 0.000 |
| 61 | 12.05 | 0.503 |
| 111 | 12.00 | 0.544 |
| 9 | 11.50 | 0.963 |
| Std Dev | 11.46 | 1.000 |
| 31 | 7.95 | 3.936 |

| 165.99 Acid Soluble Boron | | |
|---------------------------|-------|-------|
| Lab | PPM | Other |
| 24 | 61.50 | 0.000 |
| Median | 61.50 | 0.000 |

| 165.XX, ppm Acid Soluble Boron | | |
|--------------------------------|-------|--------------|
| Lab | PPM | Total Method |
| 24 | 61.50 | 0.000 |
| Median | 61.50 | 0.000 |

| 181.30 Total Cadmium | | |
|----------------------|-------|--------|
| Lab | PPM | ICP |
| 111 | 26.00 | -9.526 |
| Std Dev | 18.54 | -1.000 |
| 9 | 18.50 | -0.954 |
| 61 | 18.00 | -0.383 |
| 43 | 17.67 | 0.000 |
| Median | 17.67 | 0.000 |
| 43 | 17.16 | 0.583 |
| 61 | 17.00 | 0.760 |
| Std Dev | 16.79 | 1.000 |
| 18 | 16.45 | 1.389 |

| 181.99 Total Cadmium | | |
|----------------------|-------|-------|
| Lab | | Other |
| 24 | 20.30 | 0.000 |
| Median | 20.30 | 0.000 |

| 181.XX Total Cadmium | | |
|----------------------|-------|--------------|
| Lab | PPM | Total Method |
| 111 | 26.00 | -5.968 |
| 24 | 20.30 | -1.803 |
| Std Dev | 19.20 | -1.000 |
| 9 | 18.50 | -0.488 |
| 61 | 18.00 | -0.122 |
| Median | 17.83 | 0.000 |
| 43 | 17.67 | 0.122 |
| 43 | 17.16 | 0.495 |
| 61 | 17.00 | 0.608 |
| Std Dev | 16.46 | 1.000 |
| 18 | 16.45 | 1.010 |

| 190.00 Aluminum | | |
|-----------------|---------------------------------|--------|
| Lab | %Al ₂ O ₃ | ICP |
| 23 | 1.47 | -2.132 |
| 9 | 1.45 | -1.766 |
| 23 | 1.44 | -1.523 |
| 32 | 1.43 | -1.279 |
| Std Dev | 1.42 | -1.000 |
| 14 | 1.42 | -0.914 |
| 14 | 1.41 | -0.670 |
| 32 | 1.40 | -0.426 |
| 24 | 1.38 | -0.061 |
| Median | 1.38 | 0.000 |
| 18 | 1.38 | 0.061 |
| 24 | 1.37 | 0.183 |
| 34 | 1.37 | 0.183 |
| 43 | 1.37 | 0.305 |
| 61 | 1.36 | 0.426 |
| Std Dev | 1.34 | 1.000 |
| 43 | 1.32 | 1.401 |
| 61 | 1.32 | 1.401 |
| 111 | 0.83 | 13.461 |

| 190.99 Aluminum | | |
|-----------------|---------------------------------|-------------------|
| Lab | %Al ₂ O ₃ | Atomic Absorption |
| 31 | 1.35 | 0.000 |
| Median | 1.35 | 0.000 |

| 190.XX Aluminum | | |
|-----------------|---------------------------------|--------------|
| Lab | %Al ₂ O ₃ | Total Method |
| 23 | 1.47 | -2.193 |

| | | |
|---------|------|--------|
| 9 | 1.45 | -1.827 |
| 23 | 1.44 | -1.584 |
| 32 | 1.43 | -1.340 |
| Std Dev | 1.42 | -1.000 |
| 14 | 1.42 | -0.975 |
| 14 | 1.41 | -0.731 |
| 32 | 1.40 | -0.487 |
| 24 | 1.38 | -0.122 |
| 18 | 1.38 | 0.000 |
| Median | 1.38 | 0.000 |
| 24 | 1.37 | 0.122 |
| 34 | 1.37 | 0.122 |
| 43 | 1.37 | 0.244 |
| 61 | 1.36 | 0.365 |
| 31 | 1.35 | 0.609 |
| Std Dev | 1.33 | 1.000 |
| 43 | 1.32 | 1.340 |
| 61 | 1.32 | 1.340 |
| 111 | 0.83 | 13.400 |

| 191.30 Total Chromium | | |
|-----------------------|--------|--------|
| Lab | | ICP |
| 9 | 175.50 | -2.102 |
| 61 | 175.50 | -2.102 |
| 219 | 171.50 | -1.051 |
| Std Dev | 171.31 | -1.000 |
| 43 | 170.50 | -0.788 |
| 43 | 167.50 | 0.000 |
| 61 | 167.50 | 0.000 |
| Median | 167.50 | 0.000 |
| 31 | 166.40 | 0.289 |
| Std Dev | 163.69 | 1.000 |
| 18 | 160.25 | 1.905 |
| 111 | 153.50 | 3.678 |

| 191.99 Total Chromium | | |
|-----------------------|--------|-------|
| Lab | PPM | Other |
| 24 | 177.00 | 0.000 |
| Median | 177.00 | 0.000 |

| 191.XX Total Chromium | | |
|-----------------------|--------|--------------|
| Lab | PPM | Total Method |
| 24 | 177.00 | -1.370 |
| 9 | 175.50 | -1.113 |

| | | |
|---------|--------|--------|
| 61 | 175.50 | -1.113 |
| Std Dev | 174.84 | -1.000 |
| 219 | 171.50 | -0.428 |
| 43 | 170.50 | -0.257 |
| Median | 169.00 | 0.000 |
| 43 | 167.50 | 0.257 |
| 61 | 167.50 | 0.257 |
| 31 | 166.40 | 0.445 |
| Std Dev | 163.16 | 1.000 |
| 18 | 160.25 | 1.498 |
| 111 | 153.50 | 2.654 |

| 202.30 Acid Soluble Cobalt | | |
|----------------------------|-------|----------|
| Lab | PPM | ICP |
| 111 | 12.50 | -509.200 |
| Std Dev | 3.02 | -1.000 |
| 9 | 3.00 | 0.000 |
| 43 | 3.00 | 0.000 |

| 202.99 Acid Soluble Cobalt | | |
|----------------------------|------|-------|
| Lab | | Other |
| 24 | 2.62 | 0.000 |
| Median | 2.62 | 0.000 |

| 202.XX Acid Soluble Cobalt | | |
|----------------------------|-------|--------------|
| Lab | PPM | Total Method |
| 111 | 12.50 | -101.840 |
| Std Dev | 3.09 | -1.000 |
| 9 | 3.00 | 0.000 |
| 43 | 3.00 | 0.000 |
| 43 | 3.00 | 0.000 |
| 61 | 3.00 | 0.000 |
| Median | 3.00 | 0.000 |
| 61 | 2.95 | 0.536 |
| Std Dev | 2.91 | 1.000 |
| 18 | 2.65 | 3.752 |
| 24 | 2.62 | 4.074 |

| 221.30 Acid Soluble Copper | | |
|----------------------------|-------|--------|
| Lab | PPM | ICP |
| 111 | 25.00 | -1.221 |
| Std Dev | 23.19 | -1.000 |
| 43 | 19.50 | -0.549 |
| 43 | 19.00 | -0.488 |
| 61 | 15.00 | 0.000 |

| | | |
|---------|-------|-------|
| Median | 15.00 | 0.000 |
| 61 | 12.50 | 0.305 |
| Std Dev | 6.81 | 1.000 |
| 18 | 4.05 | 1.337 |
| 9 | 3.00 | 1.465 |

| 221.99 Acid Soluble Copper | | |
|----------------------------|-------|--------|
| Lab | | Other |
| 219 | 27.97 | -1.340 |
| Std Dev | 24.94 | -1.000 |
| Median | 16.01 | 0.000 |
| Std Dev | 7.08 | 1.000 |
| 24 | 4.05 | 1.340 |

| 221.XX Acid Soluble Copper | | |
|----------------------------|-------|--------------|
| Lab | PPM | Total Method |
| 219 | 27.97 | -1.125 |
| Std Dev | 26.53 | -1.000 |
| 111 | 25.00 | -0.867 |
| 43 | 19.50 | -0.390 |
| 43 | 19.00 | -0.347 |
| 61 | 15.00 | 0.000 |
| Median | 15.00 | 0.000 |
| 61 | 12.50 | 0.217 |
| 18 | 4.05 | 0.950 |
| 24 | 4.05 | 0.950 |
| Std Dev | 3.47 | 1.000 |
| 9 | 3.00 | 1.041 |

| 241.30 Acid Soluble Iron | | |
|--------------------------|---------------------------------|--------|
| Lab | %Fe ₂ O ₃ | ICP |
| 32 | 1.18 | -2.193 |
| 61 | 1.17 | -1.868 |
| 32 | 1.15 | -1.381 |
| 24 | 1.14 | -1.056 |
| 24 | 1.14 | -1.056 |
| 34 | 1.14 | -1.056 |
| Std Dev | 1.14 | -1.000 |
| 9 | 1.11 | -0.081 |
| 23 | 1.11 | -0.081 |
| Median | 1.11 | 0.000 |
| 23 | 1.11 | 0.081 |
| 61 | 1.11 | 0.081 |
| 14 | 1.10 | 0.244 |

| | | |
|---------|------|-------|
| 43 | 1.10 | 0.244 |
| 14 | 1.10 | 0.406 |
| Std Dev | 1.08 | 1.000 |
| 31 | 1.08 | 1.056 |
| 43 | 1.05 | 2.030 |
| 111 | 0.97 | 4.467 |

| 241.99 Acid Soluble Iron | | |
|--------------------------|---------------------------------|--------|
| Lab | %Fe ₂ O ₃ | Other |
| 219 | 1.10 | -1.340 |
| Std Dev | 1.09 | -1.000 |
| Median | 1.05 | 0.000 |
| Std Dev | 1.02 | 1.000 |
| 219 | 1.00 | 1.340 |

| 241.XX Acid Soluble Iron | | |
|--------------------------|---------------------------------|--------------|
| Lab | %Fe ₂ O ₃ | Total Method |
| 32 | 1.18 | -2.144 |
| 61 | 1.17 | -1.838 |
| 32 | 1.15 | -1.378 |
| 24 | 1.14 | -1.072 |
| 24 | 1.14 | -1.072 |
| 34 | 1.14 | -1.072 |
| Std Dev | 1.14 | -1.000 |
| 9 | 1.11 | -0.153 |
| 23 | 1.11 | -0.153 |
| 23 | 1.11 | 0.000 |
| 61 | 1.11 | 0.000 |
| Median | 1.11 | 0.000 |
| 219 | 1.10 | 0.046 |
| 14 | 1.10 | 0.153 |
| 43 | 1.10 | 0.153 |
| 14 | 1.10 | 0.306 |
| 31 | 1.08 | 0.919 |
| Std Dev | 1.07 | 1.000 |
| 43 | 1.05 | 1.838 |
| 219 | 1.00 | 3.124 |
| 111 | 0.97 | 4.135 |

| 251.30 Total Lead | | |
|-------------------|------|---------|
| Lab | PPM | ICP |
| 111 | 8.00 | -24.293 |
| Std Dev | 1.26 | -1.000 |
| 43 | 1.25 | -0.951 |

| | | |
|---------|------|--------|
| 43 | 1.00 | -0.086 |
| Median | 0.98 | 0.000 |
| 18 | 0.95 | 0.086 |
| 61 | 0.75 | 0.778 |
| Std Dev | 0.69 | 1.000 |
| 61 | 0.40 | 1.988 |

| 251.99 Total Lead | | |
|-------------------|------|-------|
| Lab | | Other |
| 24 | 0.18 | 0.000 |
| Median | 0.18 | 0.000 |

| 251.XX Total Lead | | |
|-------------------|------|--------------|
| Lab | PPM | Total Method |
| 111 | 8.00 | -17.176 |
| Std Dev | 1.36 | -1.000 |
| 43 | 1.25 | -0.731 |
| 43 | 1.00 | -0.122 |
| 18 | 0.95 | 0.000 |
| Median | 0.95 | 0.000 |
| 61 | 0.75 | 0.487 |
| Std Dev | 0.54 | 1.000 |
| 61 | 0.40 | 1.340 |
| 24 | 0.18 | 1.876 |

| 261.11 Acid Soluble Manganese Atomic Absorption | | |
|---|--------|-------|
| Lab | | |
| 219 | 189.15 | 0.000 |
| Median | 189.15 | 0.000 |

| 261.30 Acid Soluble Manganese | | |
|-------------------------------|--------|--------|
| Lab | ICP | |
| 9 | 201.50 | -2.881 |
| Std Dev | 191.22 | -1.000 |
| 18 | 186.80 | -0.192 |
| Median | 185.75 | 0.000 |
| 31 | 184.70 | 0.192 |
| Std Dev | 180.28 | 1.000 |
| 111 | 178.50 | 1.326 |

| 261.99 Acid Soluble Manganese | | |
|-------------------------------|--------|--------|
| Lab | PPM | Other |
| 43 | 209.00 | -0.793 |
| 24 | 207.00 | -0.626 |

| | | |
|---------|--------|--------|
| 43 | 206.50 | -0.584 |
| Median | 199.50 | 0.000 |
| 61 | 192.50 | 0.584 |
| 219 | 190.25 | 0.772 |
| Std Dev | 187.51 | 1.000 |
| 61 | 184.00 | 1.293 |

| 261.XX Acid Soluble Manganese | | |
|-------------------------------|--------|--------------|
| Lab | PPM | Total Method |
| 43 | 209.00 | -1.377 |
| 24 | 207.00 | -1.230 |
| 43 | 206.50 | -1.193 |
| Std Dev | 203.87 | -1.000 |
| 9 | 201.50 | -0.826 |
| 61 | 192.50 | -0.165 |
| 219 | 190.25 | 0.000 |
| Median | 190.25 | 0.000 |
| 219 | 189.15 | 0.081 |
| 18 | 186.80 | 0.253 |
| 31 | 184.70 | 0.408 |
| 61 | 184.00 | 0.459 |
| 111 | 178.50 | 0.863 |

| 281.30 Total Mercury | | |
|----------------------|-------|-------|
| Lab | PPM | ICP |
| 24 | <0.06 | 0.000 |
| Median | 0.00 | 0.000 |

| 281.XX Total Mercury | | |
|----------------------|-------|--------------|
| Lab | PPM | Total Method |
| 24 | <0.06 | 0.000 |
| Median | 0.00 | 0.000 |

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

| 289.99 Total Molybdenum | | |
|-------------------------|------|-------|
| Lab | PPM | Other |
| 24 | 8.52 | 0.000 |
| Median | 8.52 | 0.000 |

| 289.XX Total Molybdenum | | |
|-------------------------|-------|--------------|
| Lab | PPM | Total Method |
| 111 | 13.50 | -14.173 |

| | | |
|---------|------|--------|
| 18 | 9.95 | -5.025 |
| 24 | 8.52 | -1.340 |
| Std Dev | 8.39 | -1.000 |
| 9 | 8.00 | 0.000 |
| 43 | 8.00 | 0.000 |
| 61 | 8.00 | 0.000 |
| 61 | 8.00 | 0.000 |
| Median | 8.00 | 0.000 |
| Std Dev | 7.61 | 1.000 |
| 43 | 7.40 | 1.546 |
| 219 | 5.92 | 5.348 |

| 291.30 Total Nickel | | |
|---------------------|-------|--------|
| Lab | PPM | ICP |
| 219 | 28.31 | -5.632 |
| 9 | 24.00 | -1.787 |
| Std Dev | 23.12 | -1.000 |
| 61 | 22.50 | -0.447 |
| 43 | 22.00 | 0.000 |
| 61 | 22.00 | 0.000 |
| Median | 22.00 | 0.000 |
| 43 | 21.50 | 0.447 |
| Std Dev | 20.88 | 1.000 |
| 18 | 20.30 | 1.519 |

| 291.99 Total Nickel | | |
|---------------------|-------|--------|
| Lab | PPM | Other |
| 24 | 23.40 | -1.340 |
| Std Dev | 23.03 | -1.000 |
| Median | 21.95 | 0.000 |
| Std Dev | 20.87 | 1.000 |
| 111 | 20.50 | 1.340 |

| 291.XX Total Nickel | | |
|---------------------|-------|--------------|
| Lab | PPM | Total Method |
| 219 | 28.31 | -4.447 |
| 9 | 24.00 | -1.411 |
| Std Dev | 23.42 | -1.000 |
| 24 | 23.40 | -0.987 |
| 61 | 22.50 | -0.353 |
| 43 | 22.00 | 0.000 |
| 61 | 22.00 | 0.000 |
| Median | 22.00 | 0.000 |
| 43 | 21.50 | 0.353 |

| | | |
|---------|-------|-------|
| Std Dev | 20.58 | 1.000 |
| 111 | 20.50 | 1.058 |
| 18 | 20.30 | 1.199 |

| 301.30 Total Selenium | | |
|-----------------------|-------|-------|
| Lab | PPM | ICP |
| 61 | <1.1 | 0.000 |
| 61 | <1.1 | 0.000 |
| 24 | <0.28 | 0.000 |
| 111 | 7.50 | 0.000 |
| Median | 7.50 | 0.000 |

| 301.XX Total Selenium | | |
|-----------------------|-------|--------------|
| Lab | PPM | Total Method |
| 61 | <1.1 | 0.000 |
| 61 | <1.1 | 0.000 |
| 24 | <0.28 | 0.000 |
| 111 | 7.50 | 0.000 |
| Median | 7.50 | 0.000 |

| 311.99 Sodium | | |
|---------------|--------------------|--------|
| Lab | %Na ₂ O | Other |
| 24 | 0.22 | -0.893 |
| 24 | 0.21 | -0.447 |
| 111 | 0.21 | -0.447 |
| 23 | 0.20 | 0.000 |
| 61 | 0.20 | 0.000 |
| Median | 0.20 | 0.000 |
| 23 | 0.20 | 0.223 |
| 61 | 0.18 | 0.893 |
| Std Dev | 0.18 | 1.000 |
| 43 | 0.17 | 1.408 |
| 43 | 0.17 | 1.562 |

| 311.XX Sodium | | |
|---------------|--------------------|--------------|
| Lab | %Na ₂ O | Total Method |
| 24 | 0.22 | -0.893 |
| 24 | 0.21 | -0.447 |
| 111 | 0.21 | -0.447 |
| 23 | 0.20 | 0.000 |
| 61 | 0.20 | 0.000 |
| Median | 0.20 | 0.000 |
| 23 | 0.20 | 0.223 |
| 61 | 0.18 | 0.893 |

| | | |
|---------|------|-------|
| Std Dev | 0.18 | 1.000 |
| 43 | 0.17 | 1.408 |
| 43 | 0.17 | 1.562 |

| 321.00 Acid Soluble Zinc | | |
|--------------------------|-------------------|-------|
| Lab | Atomic Absorption | |
| 219 | 699.70 | 0.000 |
| Median | 699.70 | 0.000 |

| 321.30 Acid Soluble Zinc | | |
|--------------------------|--------|--------|
| Lab | PPM | ICP |
| 24 | 781.00 | -1.887 |
| 9 | 767.50 | -1.583 |
| Std Dev | 741.59 | -1.000 |
| 111 | 700.00 | -0.064 |
| Median | 697.15 | 0.000 |
| 18 | 694.30 | 0.064 |
| 61 | 690.00 | 0.161 |
| 61 | 689.50 | 0.172 |

| 321.99 Acid Soluble Zinc | | |
|--------------------------|--------|--------|
| Lab | Other | |
| 219 | 712.80 | -2.547 |
| Std Dev | 683.77 | -1.000 |
| 43 | 665.00 | 0.000 |
| Median | 665.00 | 0.000 |
| 43 | 662.50 | 0.133 |

| 321.XX Acid Soluble Zinc | | |
|--------------------------|--------|--------------|
| Lab | PPM | Total Method |
| 24 | 781.00 | -5.635 |
| 9 | 767.50 | -4.729 |
| 219 | 712.80 | -1.060 |
| Std Dev | 711.91 | -1.000 |
| 111 | 700.00 | -0.201 |
| 219 | 699.70 | -0.181 |
| Median | 697.00 | 0.000 |
| 18 | 694.30 | 0.181 |
| 61 | 690.00 | 0.470 |
| 61 | 689.50 | 0.503 |
| Std Dev | 682.09 | 1.000 |
| 43 | 665.00 | 2.147 |
| 43 | 662.50 | 2.314 |

| 325.10 | | Fluoride |
|--------|------|-----------|
| Lab | % | Electrode |
| 111 | 1.87 | -21.440 |
| 23 | 1.09 | -5.257 |
| 23 | 1.06 | -4.742 |
| 32 | 0.88 | -0.928 |
| 32 | 0.87 | -0.825 |
| 79 | 0.84 | -0.103 |
| 24 | 0.83 | 0.000 |
| Median | 0.83 | 0.000 |
| 34 | 0.82 | 0.206 |
| 24 | 0.81 | 0.412 |
| 31 | 0.81 | 0.412 |
| 9 | 0.78 | 1.134 |
| 14 | 0.74 | 1.855 |
| 14 | 0.74 | 1.855 |

| 325.99 | | Fluoride |
|--------|------|----------|
| Lab | % | Other |
| 61 | 0.84 | -1.340 |
| Median | 0.83 | 0.000 |
| 61 | 0.82 | 1.340 |

| 325.XX | | Fluoride |
|--------|------|--------------|
| Lab | % | Total Method |
| 111 | 1.87 | -22.298 |
| 23 | 1.09 | -5.467 |
| 23 | 1.06 | -4.931 |
| 32 | 0.88 | -0.965 |
| 32 | 0.87 | -0.858 |
| 61 | 0.84 | -0.107 |
| 79 | 0.84 | -0.107 |
| 24 | 0.83 | 0.000 |
| Median | 0.83 | 0.000 |
| 34 | 0.82 | 0.214 |
| 61 | 0.82 | 0.322 |
| 24 | 0.81 | 0.429 |
| 31 | 0.81 | 0.429 |
| 9 | 0.78 | 1.179 |
| 14 | 0.74 | 1.930 |
| 14 | 0.74 | 1.930 |