

AFPC

2018-02

Grade

11-52-0

Sample

| | AOAC Ref. | Method # | # of Labs. | Grand Median | Std Dev |
|---|------------|----------|------------|--------------|---------|
| AMMONIACAL NITROGEN | | | | | |
| Ammoniacal Nitrogen, MgO distillation | 920.03 | 001.10 | 1 | 11.44 | 0.00 |
| Ammoniacal Nitrogen, Other | | 001.99 | 14 | 11.35 | 0.06 |
| Method Group 001.XX PCT | | | 15 | 11.37 | 0.07 |
| TOTAL NITROGEN | | | | | |
| Total Nitrogen, Modified Comprehensive | 978.02 | 010.11 | 2 | 11.41 | 0.00 |
| Total Nitrogen, Combustion | 993.13 | 010.60 | 21 | 11.39 | 0.05 |
| Total Nitrogen, Other | | 010.99 | 5 | 11.37 | 0.02 |
| Method Group 010.XX PCT | | | 28 | 11.39 | 0.06 |
| TOTAL PHOSPHATE | | | | | |
| Total Phosphate, Gravimetric Quimociac | | 020.10 | 2 | 53.06 | 0.02 |
| Total Phosphate, Spectrometric | 978.02 | 020.20 | 20 | 53.13 | 0.26 |
| Total Phosphate, ICP | 970.03 | 020.40 | 1 | 52.38 | 0.00 |
| Total Phosphate, ICP, Lithium | 970.02 | 020.50 | 1 | 53.51 | 0.00 |
| Total Phosphate, Other | 993.13 | 020.99 | 1 | 54.68 | 0.00 |
| Method Group 020.XX PCT | | | 25 | 53.12 | 0.38 |
| INSOLUBLE PHOSPHATE | | | | | |
| Insoluble Phosphate, Spectrometric | 963.03C(b) | 030.20 | 10 | 0.16 | 0.03 |
| Insoluble Phosphate, Alka. Quimociac | 963.03C(c) | 030.30 | 1 | 0.07 | 0.00 |
| Insoluble Phosphate, Automated | 978.01 | 030.40 | 1 | 0.17 | 0.00 |
| Insoluble Phosphate, Other | | 030.99 | 2 | 0.11 | 0.00 |
| Method Group 030.XX PCT | | | 14 | 0.16 | 0.06 |
| INDIRECT AVAILABLE PHOSPHATE | | | | | |
| Indirect Available Phosphate, Spectrometric | 960.02 | 040.20 | 11 | 52.99 | 0.06 |
| Indirect Available Phosphate, Other | | 040.99 | 3 | 52.93 | 0.10 |
| Method Group 040.XX PCT | | | 14 | 52.98 | 0.10 |
| DIRECT AVAILABLE PHOSPHATE | | | | | |
| Direct Available Phosphate, Gravimetric Quimociac | 960.03E | 041.10 | 2 | 53.04 | 0.01 |
| Direct Available Phosphate, Spectrometric | 960.03D | 041.20 | 2 | 52.59 | 0.40 |
| Direct Available Phosphate, ICP | | 041.50 | 3 | 52.37 | 0.75 |
| Direct Available Phosphate, EDTA Extract | 993.01 | 041.60 | 4 | 53.19 | 0.73 |
| Method Group 041.XX PCT | | | 11 | 52.85 | 0.80 |
| WATER SOLUBLE PHOSPHATE | | | | | |
| Water Soluble Phosphate, Gravimetric Quimociac | 962.03 | 048.10 | 2 | 47.75 | 0.02 |
| Water Soluble Phosphate, Spectrometric | 970.01 | 048.20 | 13 | 47.82 | 0.29 |
| Water Soluble Phosphate, Other | | 048.99 | 4 | 47.85 | 0.69 |
| Method Group 048.XX PCT | | | 19 | 47.77 | 0.49 |
| SOLUBLE POTASH AS K₂O | | | | | |
| Soluble Potash, ICP(Oxalate) | | 050.50 | 2 | 0.12 | 0.00 |
| Soluble Potash, ICP(Citrate) | | 050.51 | 1 | 0.12 | 0.00 |
| Soluble Potash, Other | | 050.99 | 10 | 0.12 | 0.01 |
| Method Group 050.XX PCT | | | 13 | 0.12 | 0.01 |
| FREE WATER | | | | | |
| Free Water, Vacuum Oven | 965.08B | 060.00 | 13 | 1.15 | 0.08 |
| Free Water, Vacuum Desiccant | 965.08A | 060.10 | 2 | 0.74 | 0.07 |
| Free Water, Other | | 060.99 | 5 | 1.20 | 0.09 |
| Method Group 060.XX PCT | | | 20 | 1.15 | 0.13 |
| ACID SOLUBLE CALCIUM AS CaO | | | | | |
| Acid Soluble Calcium, ICP | | 101.30 | 14 | 0.71 | 0.01 |
| Method Group 101.XX PCT | | | 14 | 0.71 | 0.01 |
| ACID SOLUBLE MAGNESIUM AS MgO | | | | | |
| Acid Soluble Magnesium, Atomic Absorption | 984.01 | 121.00 | 2 | 1.15 | 0.01 |
| Acid Soluble Magnesium, ICP | | 121.30 | 12 | 1.18 | 0.03 |
| Acid Soluble Magnesium, Other | | 121.99 | 2 | 1.10 | 0.04 |
| Method Group 121.XX PCT | | | 16 | 1.17 | 0.05 |
| WATER SOLUBLE MAGNESIUM | | | | | |
| Water Soluble Magnesium, Other | | 131.99 | 1 | 0.03 | 0.00 |

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|---|-----------|--------|----|-------|------|
| Method Group 131.XX PCT | | | 1 | 0.03 | 0.00 |
| SULFATE SULFUR (S) | | | | | |
| Sulfur, Gravimetric | 980.02(a) | 144.01 | 1 | 1.55 | 0.00 |
| Sulfur, Spectrometric | | 144.70 | 2 | 1.43 | 0.00 |
| Sulfur, Other | | 144.99 | 11 | 1.48 | 1.09 |
| Method Group 144.XX PCT | | | 14 | 1.48 | 0.09 |
| TOTAL SULFUR (S) | | | | | |
| Sulfur, Other | | 145.99 | 1 | 1.53 | 0.0 |
| Method Group 145.XX PCT | | | 1 | 1.53 | 0.0 |
| TOTAL ARSENIC | | | | | |
| Total Arsenic, ICP | 980.02(b) | 151.02 | 8 | 20.5 | 1.8 |
| Total Arsenic, Other | | 151.99 | 3 | 19.4 | 1.1 |
| Method Group 151.XX PPM | | | 11 | 19.8 | 1.7 |
| ACID SOLUBLE BORON | | | | | |
| Acid Soluble Boron, Other | | 165.99 | 5 | 104 | 53.2 |
| Method Group 165.XX PPM | | | 5 | 104 | 64.8 |
| WATER SOLUBLE BORON | | | | | |
| Water Soluble Boron, Other | | 171.99 | 1 | 19 | 0.0 |
| Method Group 171.XX PPM | | | 1 | 19 | 0.0 |
| TOTAL CADMIUM | | | | | |
| Total Cadmium, Atomic Absorbtion | | 181.00 | 1 | 135 | 0.0 |
| Total Cadmium, ICP | | 181.30 | 7 | 141.7 | 12.4 |
| Total Cadmium, Other | | 181.99 | 2 | 146.5 | 0.7 |
| Method Group 181.XX PPM | | | 10 | 141.9 | 10.5 |
| ALUMINUM AS Al₂O₃ | | | | | |
| ICP, % | | | 12 | 1.71 | 0.04 |
| Water Soluble Chlorine, Other, % | | 190.99 | 2 | 1.69 | 0.01 |
| Method Group 190.XX PCT | | | 14 | 1.71 | 0.04 |
| TOTAL CHROMIUM | | | | | |
| Total Chromium, Atomic Absorbtion | | 191.00 | 1 | 535 | 0.0 |
| Total Chromium, ICP | | 191.30 | 5 | 563 | 43.4 |
| Total Chromium, Other | | 191.99 | 2 | 582 | 5.5 |
| Method Group 191.XX PPM | | | 8 | 569 | 43.2 |
| ACID SOLUBLE COBALT | | | | | |
| Acid Soluble Cobalt, ICP | | 202.30 | 4 | 4 | 0.7 |
| Acid Soluble Cobalt, Other | | 202.99 | 1 | 4 | 0.0 |
| Method Group 202.XX PPM | | | 5 | 4 | 0.2 |
| ACID SOLUBLE COPPER | | | | | |
| Acid Soluble Copper, Other | | 221.99 | 2 | 0.9 | 2.0 |
| Method Group 221.XX PPM | | | 5 | 63.0 | 4.2 |
| ACID SOLUBLE IRON AS Fe₂O₃ | | | | | |
| Acid Soluble Iron, ICP | | 241.30 | 12 | 1.14 | 0.04 |
| Acid Soluble Iron, Other | | 241.99 | 2 | 1.12 | 0.00 |
| Method Group 241.XX PCT | | | 14 | 1.13 | 0.04 |
| TOTAL LEAD | | | | | |
| Total Lead, Atomic Absorbtion | | 251.00 | 1 | 2 | 0.0 |
| Total Lead, ICP | | 251.30 | 6 | 3 | 1.0 |
| Total Lead, Other | | 251.99 | 2 | 2.0 | 0.3 |
| Method Group 251.XX PPM | | | 9 | 2 | 1.5 |
| ACID SOLUBLE MANGANESE | | | | | |
| Acid Soluble Manganese, ICP | 972.02a | 261.30 | 2 | 164 | 8.6 |
| Acid Soluble Manganese, Other | | 261.99 | 4 | 186 | 1.3 |
| Method Group 261.XX PPM | | | 6 | 184 | 8.1 |
| WATER SOLUBLE MANGANESE | | | | | |
| Water Soluble Manganese, Other | | 271.99 | 1 | 44 | 0 |
| Method Group 271.XX PCT | | | 1 | 44 | 0.0 |
| TOTAL MOLYBDENUM | | | | | |
| Total Molybdenum, ICP | | 289.30 | 6 | 20 | 0.6 |
| Total Molybdenum, Other | | 289.99 | 2 | 18 | 1.7 |
| Method Group 289.XX PPM | | | 8 | 20 | 0.8 |
| TOTAL NICKEL | | | | | |
| Total Nickel, ICP | | 291.30 | 5 | 258.0 | 5.3 |

| | | | | |
|----------------------------------|---------------|----|--------|------|
| Total Nickel, icp | 291.99 | 3 | 248.0 | 25.7 |
| Method Group 291.XX PPM | | 8 | 257.8 | 11.9 |
| TOTAL SELENIUM | | | | |
| Total Selenium, ICP | 301.30 | 4 | 0.4 | 0.3 |
| Total Selenium, Other | 301.99 | 1 | 2 | 0.0 |
| Method Group 301.XX PPM | | 5 | 0.5 | 0.8 |
| SODIUM AS Na₂O | | | | |
| Sodium, Atomic Absorbtion | 983.04 311.00 | 1 | 0.29 | 0.00 |
| Sodium, Other | 311.99 | 10 | 0.13 | 0.01 |
| Method Group 311.XX PCT | | 11 | 0.13 | 0.01 |
| ACID SOLUBLE ZINC | | | | |
| Acid Soluble Zinc, ICP | 321.30 | 4 | 1960.8 | 24.1 |
| Acid Soluble Zinc, Other | 321.99 | 2 | 1855.3 | 66.6 |
| Method Group 321.XX % | | 6 | 1948.3 | 46.7 |
| FLUORIDE | | | | |
| Volumetric | 325.10 | 11 | 1.56 | 0.07 |
| Distilled/Electrode | 325.99 | 4 | 1.61 | 0.02 |
| Method Group 325.XX PCT | | 15 | 1.58 | 0.07 |

| 001.10 Ammoniacal Nitrogen | | |
|----------------------------|------------------|--------------|
| Lab | MgO distillation | |
| 31 | 11.44 | 0.000 |
| Median | 11.44 | 0.000 |

| 001.99 Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | Other | |
| 330 | 11.86 | -8.584 |
| 275 | 11.49 | -2.387 |
| Std Dev | 11.41 | -1.000 |
| 275 | 11.39 | -0.712 |
| 32 | 11.39 | -0.628 |
| 24 | 11.38 | -0.461 |
| 24 | 11.37 | -0.377 |
| 32 | 11.37 | -0.293 |
| Median | 11.35 | 0.000 |
| 113 | 11.33 | 0.293 |
| 61 | 11.32 | 0.461 |
| 79 | 11.31 | 0.628 |
| 61 | 11.30 | 0.796 |
| 34 | 11.30 | 0.879 |
| 113 | 11.29 | 0.963 |
| Std Dev | 11.29 | 1.000 |
| 38 | 10.95 | 6.658 |

| 001.XX Ammoniacal Nitrogen | | |
|----------------------------|--------------|---------------|
| Lab | Total Method | |
| 330 | 11.86 | -8.040 |
| 275 | 11.49 | -2.030 |
| 31 | 11.44 | -1.218 |
| Std Dev | 11.43 | -1.000 |
| 275 | 11.39 | -0.406 |
| 32 | 11.39 | -0.325 |
| 24 | 11.38 | -0.162 |
| 24 | 11.37 | -0.081 |
| 32 | 11.37 | 0.000 |
| Median | 11.37 | 0.000 |
| 113 | 11.33 | 0.568 |
| 61 | 11.32 | 0.731 |
| 79 | 11.31 | 0.893 |
| Std Dev | 11.30 | 1.000 |
| 61 | 11.30 | 1.056 |
| 34 | 11.30 | 1.137 |
| 113 | 11.29 | 1.218 |

38 10.95 6.741

| 010.11 Total Nitrogen | | |
|-----------------------|------------------------|---------------|
| Lab | Modified Comprehensive | |
| 113 | 11.41 | -1.340 |
| Std Dev | 11.41 | -1.000 |
| Median | 11.41 | 0.000 |
| Std Dev | 11.40 | 1.000 |
| 113 | 11.40 | 1.340 |

| 010.60 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Combustion | |
| 49 | 11.61 | -4.432 |
| 80 | 11.60 | -4.329 |
| 63 | 11.46 | -1.443 |
| 66 | 11.44 | -1.031 |
| Std Dev | 11.44 | -1.000 |
| 47 | 11.43 | -0.722 |
| 38 | 11.42 | -0.618 |
| 111 | 11.42 | -0.618 |
| 237 | 11.42 | -0.618 |
| 110 | 11.40 | -0.206 |
| 31 | 11.39 | 0.000 |
| 137 | 11.39 | 0.000 |
| Median | 11.39 | 0.000 |
| 29 | 11.38 | 0.206 |
| 24 | 11.38 | 0.309 |
| 24 | 11.37 | 0.412 |
| 14 | 11.36 | 0.618 |
| 79 | 11.36 | 0.722 |
| 14 | 11.35 | 0.928 |
| Std Dev | 11.34 | 1.000 |
| 77 | 11.33 | 1.237 |
| 140 | 11.30 | 1.855 |
| 107 | 11.11 | 5.772 |
| 99 | 11.09 | 6.288 |

| 010.99 Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Other | |
| 330 | 12.13 | -41.004 |
| 32 | 11.39 | -1.072 |
| Std Dev | 11.38 | -1.000 |
| 32 | 11.37 | 0.000 |
| Median | 11.37 | 0.000 |

| | | |
|----------------|--------------|--------------|
| 23 | 11.36 | 0.268 |
| Std Dev | 11.35 | 1.000 |
| 23 | 11.34 | 1.608 |

| 010.XX Total Nitrogen | | |
|-----------------------|--------------|---------------|
| Lab | Total Method | |
| 330 | 12.13 | -16.244 |
| 49 | 11.61 | -4.758 |
| 80 | 11.60 | -4.649 |
| 63 | 11.46 | -1.586 |
| 66 | 11.44 | -1.149 |
| Std Dev | 11.43 | -1.000 |
| 47 | 11.43 | -0.820 |
| 38 | 11.42 | -0.711 |
| 111 | 11.42 | -0.711 |
| 237 | 11.42 | -0.711 |
| 113 | 11.41 | -0.492 |
| 110 | 11.40 | -0.273 |
| 113 | 11.40 | -0.273 |
| 31 | 11.39 | -0.055 |
| 137 | 11.39 | -0.055 |
| Median | 11.39 | 0.000 |
| 32 | 11.39 | 0.055 |
| 29 | 11.38 | 0.164 |
| 24 | 11.38 | 0.273 |
| 24 | 11.37 | 0.383 |
| 32 | 11.37 | 0.492 |
| 14 | 11.36 | 0.602 |
| 23 | 11.36 | 0.602 |
| 79 | 11.36 | 0.711 |
| 14 | 11.35 | 0.930 |
| Std Dev | 11.34 | 1.000 |
| 23 | 11.34 | 1.149 |
| 77 | 11.33 | 1.258 |
| 140 | 11.30 | 1.914 |
| 107 | 11.11 | 6.071 |
| 99 | 11.09 | 6.618 |

| 020.10 Total Phosphate | | |
|------------------------|-----------------------|---------------|
| Lab | Gravimetric Quimociac | |
| 113 | 53.08 | -1.340 |
| Std Dev | 53.07 | -1.000 |
| Median | 53.06 | 0.000 |
| Std Dev | 53.04 | 1.000 |

113 53.03 1.340

| 020.20 Total Phosphate | | |
|------------------------|---------------|---------------|
| Lab | Spectrometric | |
| 38 | 54.58 | -5.592 |
| 99 | 53.90 | -2.961 |
| 111 | 53.64 | -1.974 |
| 275 | 53.62 | -1.896 |
| 31 | 53.44 | -1.200 |
| Std Dev | 53.39 | -1.000 |
| 61 | 53.34 | -0.793 |
| 275 | 53.28 | -0.581 |
| 23 | 53.17 | -0.135 |
| 24 | 53.15 | -0.077 |
| 23 | 53.15 | -0.058 |
| Median | 53.13 | 0.000 |
| 61 | 53.12 | 0.058 |
| 32 | 53.10 | 0.116 |
| 32 | 53.04 | 0.368 |
| 14 | 53.03 | 0.406 |
| 14 | 53.02 | 0.426 |
| 140 | 53.00 | 0.503 |
| 24 | 52.97 | 0.639 |
| 34 | 52.88 | 0.987 |
| Std Dev | 52.87 | 1.000 |
| 79 | 52.82 | 1.200 |
| 110 | 52.05 | 4.180 |

| 020.40 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | Automated | |
| 137 | 52.38 | 0.000 |
| Median | 52.38 | 0.000 |

| 020.50 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | ICP | |
| 111 | 53.51 | 0.000 |
| Median | 53.51 | 0.000 |

| 020.99 Total Phosphate | | |
|------------------------|--------------|--------------|
| Lab | Other | |
| 330 | 54.68 | 0.000 |
| Median | 54.68 | 0.000 |

| 020.XX Total Phosphate | | |
|------------------------|--------------|---------------|
| Lab | Total Method | |
| 330 | 54.68 | -4.993 |
| 38 | 54.58 | -4.658 |
| 99 | 53.90 | -2.489 |
| 111 | 53.64 | -1.675 |
| 275 | 53.62 | -1.611 |
| 111 | 53.51 | -1.244 |
| 31 | 53.44 | -1.037 |
| Std Dev | 53.43 | -1.000 |
| 61 | 53.34 | -0.702 |
| 275 | 53.28 | -0.526 |
| 23 | 53.17 | -0.160 |
| 24 | 53.15 | -0.112 |
| 23 | 53.15 | -0.096 |
| 61 | 53.12 | 0.000 |
| Median | 53.12 | 0.000 |
| 32 | 53.10 | 0.048 |
| 113 | 53.08 | 0.115 |
| 32 | 53.04 | 0.255 |
| 113 | 53.03 | 0.259 |
| 14 | 53.03 | 0.287 |
| 14 | 53.02 | 0.303 |
| 140 | 53.00 | 0.367 |
| 24 | 52.97 | 0.479 |
| 34 | 52.88 | 0.766 |
| 79 | 52.82 | 0.941 |
| Std Dev | 52.80 | 1.000 |
| 137 | 52.38 | 2.361 |
| 110 | 52.05 | 3.398 |

| 030.20 Insoluble Phosphate | | |
|----------------------------|---------------|---------------|
| Lab | Spectrometric | |
| 61 | 0.37 | -7.763 |
| 61 | 0.30 | -4.990 |
| Std Dev | 0.19 | -1.000 |
| 23 | 0.18 | -0.739 |
| 23 | 0.18 | -0.554 |
| 24 | 0.16 | 0.000 |
| 24 | 0.16 | 0.000 |
| Median | 0.16 | 0.000 |
| 79 | 0.15 | 0.370 |
| 140 | 0.14 | 0.739 |
| Std Dev | 0.13 | 1.000 |

| | | |
|-----|------|-------|
| 113 | 0.04 | 4.436 |
| 113 | 0.01 | 5.545 |

| 030.30 Insoluble Phosphate | | |
|----------------------------|-----------------|--------------|
| Lab | Alka. Quimociac | |
| 31 | 0.07 | 0.000 |
| Median | 0.07 | 0.000 |

| 030.40 Insoluble Phosphate | | |
|----------------------------|-------------|--------------|
| Lab | Automated | |
| 34 | 0.17 | 0.000 |
| Median | 0.17 | 0.000 |

| 030.99 Insoluble Phosphate | | |
|----------------------------|-------------|---------------|
| Lab | Other | |
| 32 | 0.12 | -1.340 |
| Std Dev | 0.11 | -1.000 |
| Median | 0.11 | 0.000 |
| Std Dev | 0.11 | 1.000 |
| 32 | 0.11 | 1.340 |

| 030.XX Insoluble Phosphate | | |
|----------------------------|--------------|---------------|
| Lab | Total Method | |
| 61 | 0.37 | -4.610 |
| 61 | 0.30 | -3.002 |
| Std Dev | 0.20 | -1.000 |
| 23 | 0.18 | -0.536 |
| 23 | 0.18 | -0.429 |
| 34 | 0.17 | -0.322 |
| 24 | 0.16 | -0.107 |
| 24 | 0.16 | -0.107 |
| Median | 0.16 | 0.000 |
| 79 | 0.15 | 0.107 |
| 140 | 0.14 | 0.322 |
| 32 | 0.12 | 0.858 |
| 32 | 0.11 | 0.965 |
| Std Dev | 0.11 | 1.000 |
| 31 | 0.07 | 1.930 |
| 113 | 0.04 | 2.466 |
| 113 | 0.01 | 3.109 |

| 040.20 Indirect Available Phosphate | | |
|-------------------------------------|---------------|--------|
| Lab | Spectrometric | |
| 31 | 53.38 | -6.830 |

| | | |
|----------------|--------------|---------------|
| 113 | 53.07 | -1.470 |
| Std Dev | 53.04 | -1.000 |
| 23 | 52.99 | -0.086 |
| 24 | 52.99 | -0.086 |
| 113 | 52.99 | -0.086 |
| 61 | 52.99 | 0.000 |
| Median | 52.99 | 0.000 |
| 23 | 52.97 | 0.346 |
| 61 | 52.97 | 0.346 |
| Std Dev | 52.93 | 1.000 |
| 140 | 52.86 | 2.161 |
| 24 | 52.81 | 3.112 |
| 79 | 52.68 | 5.360 |

| 040.99 Indirect Available Phosphate | | |
|-------------------------------------|--------------|--------------|
| Lab | Other | |
| 32 | 52.99 | -0.574 |
| 32 | 52.93 | 0.000 |
| Median | 52.93 | 0.000 |
| Std Dev | 52.82 | 1.000 |
| 34 | 52.71 | 2.106 |

| 040.XX Indirect Available Phosphate | | |
|-------------------------------------|--------------|---------------|
| Lab | Total Method | |
| 31 | 53.38 | -4.771 |
| 113 | 53.07 | -1.119 |
| Std Dev | 53.06 | -1.000 |
| 23 | 52.99 | -0.177 |
| 24 | 52.99 | -0.177 |
| 113 | 52.99 | -0.177 |
| 32 | 52.99 | -0.118 |
| 61 | 52.99 | -0.118 |
| Median | 52.98 | 0.000 |
| 23 | 52.97 | 0.118 |
| 61 | 52.97 | 0.118 |
| 32 | 52.93 | 0.589 |
| Std Dev | 52.89 | 1.000 |
| 140 | 52.86 | 1.355 |
| 24 | 52.81 | 2.003 |
| 34 | 52.71 | 3.181 |
| 79 | 52.68 | 3.534 |

| 041.10 Direct Available Phosphate | | |
|-----------------------------------|-----------------------|--|
| Lab | Gravimetric Quimociac | |

| | | |
|----------------|--------------|---------------|
| 47 | 53.06 | -1.340 |
| Std Dev | 53.05 | -1.000 |
| Median | 53.04 | 0.000 |
| Std Dev | 53.03 | 1.000 |
| 107 | 53.02 | 1.340 |

| 041.20 Direct Available Phosphate | | |
|-----------------------------------|---------------|---------------|
| Lab | Spectrometric | |
| 47 | 53.13 | -1.340 |
| Std Dev | 52.99 | -1.000 |
| Median | 52.59 | 0.000 |
| Std Dev | 52.19 | 1.000 |
| 38 | 52.05 | 1.340 |

| 041.50 Direct Available Phosphate | | |
|-----------------------------------|--------------|--------------|
| Lab | ICP | |
| 63 | 52.61 | -0.320 |
| 66 | 52.37 | 0.000 |
| Median | 52.37 | 0.000 |
| Std Dev | 51.62 | 1.000 |
| 80 | 50.60 | 2.360 |

| 041.60 Direct Available Phosphate | | |
|-----------------------------------|--------------|--------------|
| Lab | EDTA Extract | |
| 29 | 53.81 | -0.850 |
| 77 | 53.53 | -0.465 |
| Median | 53.19 | 0.000 |
| 49 | 52.85 | 0.465 |
| Std Dev | 52.45 | 1.000 |
| 137 | 51.93 | 1.722 |

| 041.XX Direct Available Phosphate | | |
|-----------------------------------|--------------|---------------|
| Lab | Total Method | |
| 29 | 53.81 | -1.457 |
| 77 | 53.53 | -1.030 |
| Std Dev | 53.51 | -1.000 |
| 47 | 53.13 | -0.432 |
| 47 | 53.06 | -0.326 |
| 107 | 53.02 | -0.265 |
| 49 | 52.85 | 0.000 |
| Median | 52.85 | 0.000 |
| 63 | 52.61 | 0.356 |
| 66 | 52.37 | 0.719 |
| Std Dev | 52.18 | 1.000 |

| | | |
|-----|-------|-------|
| 38 | 52.05 | 1.204 |
| 137 | 51.93 | 1.393 |
| 80 | 50.60 | 3.399 |

| 048.10 Water Soluble Phosphate Gravimetric Quimociac | | |
|---|-------|--------|
| Lab | | |
| 113 | 47.77 | -1.340 |
| Std Dev | 47.76 | -1.000 |
| Median | 47.75 | 0.000 |
| Std Dev | 47.73 | 1.000 |
| 113 | 47.72 | 1.340 |

| 048.20 Water Soluble Phosphate Spectrometric | | |
|---|-------|--------|
| Lab | | |
| 330 | 50.68 | -9.972 |
| 61 | 48.25 | -1.497 |
| 23 | 48.15 | -1.149 |
| Std Dev | 48.10 | -1.000 |
| 140 | 48.06 | -0.853 |
| 61 | 47.99 | -0.609 |
| 23 | 47.94 | -0.435 |
| 24 | 47.82 | 0.000 |
| Median | 47.82 | 0.000 |
| 31 | 47.77 | 0.174 |
| 24 | 47.73 | 0.296 |
| 79 | 47.68 | 0.487 |
| Std Dev | 47.53 | 1.000 |
| 14 | 47.45 | 1.270 |
| 111 | 47.32 | 1.740 |
| 14 | 47.31 | 1.775 |

| 048.99 Water Soluble Phosphate Other | | |
|---|-------|--------|
| Lab | | |
| 32 | 48.42 | -0.818 |
| 32 | 48.26 | -0.593 |
| Median | 47.85 | 0.000 |
| 34 | 47.45 | 0.593 |
| 111 | 47.18 | 0.985 |

| 048.XX Water Soluble Phosphate Total Method | | |
|--|-------|--------|
| Lab | | |
| 330 | 50.68 | -7.221 |
| 32 | 48.42 | -1.601 |
| 32 | 48.26 | -1.216 |

| | | |
|---------|-------|--------|
| 61 | 48.25 | -1.179 |
| Std Dev | 48.17 | -1.000 |
| 23 | 48.15 | -0.931 |
| 140 | 48.06 | -0.720 |
| 61 | 47.99 | -0.546 |
| 23 | 47.94 | -0.422 |
| 24 | 47.82 | -0.112 |
| 113 | 47.77 | 0.000 |
| Median | 47.77 | 0.000 |
| 31 | 47.77 | 0.012 |
| 24 | 47.73 | 0.099 |
| 113 | 47.72 | 0.124 |
| 79 | 47.68 | 0.236 |
| 14 | 47.45 | 0.794 |
| 34 | 47.45 | 0.806 |
| Std Dev | 47.37 | 1.000 |
| 111 | 47.32 | 1.129 |
| 14 | 47.31 | 1.154 |
| 111 | 47.18 | 1.476 |

| 050.50 %K ₂ O Soluble Potash ICP(Oxalate) | | |
|---|------|--------|
| Lab | | |
| 23 | 0.12 | -1.340 |
| Std Dev | 0.12 | -1.000 |
| Median | 0.12 | 0.000 |
| Std Dev | 0.12 | 1.000 |
| 23 | 0.12 | 1.340 |

| 050.51 %K ₂ O Soluble Potash ICP(Citrate) | | |
|---|------|-------|
| Lab | | |
| 137 | 0.12 | 0.000 |
| Median | 0.12 | 0.000 |

| 050.99 %K ₂ O Soluble Potash Other | | |
|--|------|--------|
| Lab | | |
| 80 | 0.15 | -2.297 |
| 61 | 0.14 | -1.531 |
| Std Dev | 0.13 | -1.000 |
| 275 | 0.13 | -0.766 |
| 111 | 0.13 | -0.383 |
| 24 | 0.12 | 0.000 |
| 61 | 0.12 | 0.000 |
| Median | 0.12 | 0.000 |
| 31 | 0.12 | 0.383 |

| | | |
|---------|------|-------|
| 24 | 0.11 | 0.766 |
| 275 | 0.11 | 0.766 |
| Std Dev | 0.11 | 1.000 |
| 330 | 0.03 | 7.274 |

| 050.XX Soluble Potash Total Method | | |
|---------------------------------------|-------------------|--------|
| Lab | %K ₂ O | |
| 80 | 0.15 | -4.020 |
| 61 | 0.14 | -2.680 |
| 275 | 0.13 | -1.340 |
| Std Dev | 0.13 | -1.000 |
| 111 | 0.13 | -0.670 |
| 23 | 0.12 | 0.000 |
| 24 | 0.12 | 0.000 |
| 61 | 0.12 | 0.000 |
| 137 | 0.12 | 0.000 |
| Median | 0.12 | 0.000 |
| 23 | 0.12 | 0.670 |
| 31 | 0.12 | 0.670 |
| Std Dev | 0.11 | 1.000 |
| 24 | 0.11 | 1.340 |
| 275 | 0.11 | 1.340 |
| 330 | 0.03 | 12.730 |

| 060.00 Free Water Vacuum Oven | | |
|----------------------------------|------|--------|
| Lab | | |
| 34 | 1.42 | -3.228 |
| 31 | 1.31 | -1.949 |
| 32 | 1.26 | -1.340 |
| Std Dev | 1.23 | -1.000 |
| 32 | 1.21 | -0.731 |
| 113 | 1.20 | -0.609 |
| 113 | 1.19 | -0.487 |
| 23 | 1.15 | 0.000 |
| Median | 1.15 | 0.000 |
| 23 | 1.14 | 0.122 |
| 24 | 1.13 | 0.305 |
| 79 | 1.10 | 0.609 |
| 24 | 1.09 | 0.731 |
| Std Dev | 1.07 | 1.000 |
| 140 | 1.02 | 1.584 |
| 111 | 0.95 | 2.436 |

| 060.10 Free Water Vacuum Desiccate | | |
|---------------------------------------|------|--------|
| Lab | | |
| 61 | 0.84 | -1.340 |
| Std Dev | 0.81 | -1.000 |
| Median | 0.74 | 0.000 |
| Std Dev | 0.67 | 1.000 |
| 61 | 0.64 | 1.340 |

| 060.99 Free Water Other | | |
|----------------------------|------|--------|
| Lab | | |
| 330 | 1.47 | -3.088 |
| Std Dev | 1.29 | -1.000 |
| 14 | 1.25 | -0.524 |
| 14 | 1.20 | 0.000 |
| Median | 1.20 | 0.000 |
| 275 | 1.13 | 0.816 |
| Std Dev | 1.11 | 1.000 |
| 275 | 0.94 | 3.030 |

| 060.XX Free Water Total Method | | |
|-----------------------------------|------|--------|
| Lab | | |
| 330 | 1.47 | -2.932 |
| 34 | 1.42 | -2.474 |
| 31 | 1.31 | -1.512 |
| 32 | 1.26 | -1.054 |
| Std Dev | 1.25 | -1.000 |
| 14 | 1.25 | -0.916 |
| 32 | 1.21 | -0.596 |
| 14 | 1.20 | -0.504 |
| 113 | 1.20 | -0.504 |
| 113 | 1.19 | -0.412 |
| 23 | 1.15 | -0.046 |
| Median | 1.15 | 0.000 |
| 23 | 1.14 | 0.046 |
| 275 | 1.13 | 0.137 |
| 24 | 1.13 | 0.183 |
| 79 | 1.10 | 0.412 |
| 24 | 1.09 | 0.504 |
| Std Dev | 1.04 | 1.000 |
| 140 | 1.02 | 1.145 |
| 111 | 0.95 | 1.787 |
| 275 | 0.94 | 1.878 |
| 61 | 0.84 | 2.795 |
| 61 | 0.64 | 4.627 |

| 101.30 Acid Soluble Calcium | | |
|-----------------------------|-------------|---------------|
| Lab | %CaO | ICP |
| 32 | 0.77 | -8.040 |
| 32 | 0.76 | -6.030 |
| 34 | 0.72 | -1.340 |
| Std Dev | 0.72 | -1.000 |
| 23 | 0.72 | -0.670 |
| 23 | 0.72 | -0.670 |
| 61 | 0.72 | -0.670 |
| 14 | 0.71 | 0.000 |
| 24 | 0.71 | 0.000 |
| 24 | 0.71 | 0.000 |
| Median | 0.71 | 0.000 |
| 14 | 0.71 | 0.670 |
| 61 | 0.71 | 0.670 |
| Std Dev | 0.70 | 1.000 |
| 111 | 0.70 | 1.340 |
| 31 | 0.70 | 1.675 |
| 330 | 0.69 | 2.680 |

| 101.XX Acid Soluble Calcium | | |
|-----------------------------|-------------|---------------|
| Lab | %CaO | Total Method |
| 32 | 0.77 | -8.040 |
| 32 | 0.76 | -6.030 |
| 34 | 0.72 | -1.340 |
| Std Dev | 0.72 | -1.000 |
| 23 | 0.72 | -0.670 |
| 23 | 0.72 | -0.670 |
| 61 | 0.72 | -0.670 |
| 14 | 0.71 | 0.000 |
| 24 | 0.71 | 0.000 |
| 24 | 0.71 | 0.000 |
| Median | 0.71 | 0.000 |
| 14 | 0.71 | 0.670 |
| 61 | 0.71 | 0.670 |
| Std Dev | 0.70 | 1.000 |
| 111 | 0.70 | 1.340 |
| 31 | 0.70 | 1.675 |
| 330 | 0.69 | 2.680 |

| 121.00 Acid Soluble Magnesium | | |
|-------------------------------|------|-------------------|
| Lab | %MgO | Atomic Absorption |
| 275 | 1.17 | -1.340 |

| | | |
|----------------|-------------|---------------|
| Std Dev | 1.16 | -1.000 |
| Median | 1.15 | 0.000 |
| Std Dev | 1.14 | 1.000 |
| 275 | 1.13 | 1.340 |

| 121.30 Acid Soluble Magnesium | | |
|-------------------------------|-------------|---------------|
| Lab | %MgO | ICP |
| 61 | 1.24 | -2.075 |
| Std Dev | 1.21 | -1.000 |
| 23 | 1.21 | -0.865 |
| 23 | 1.20 | -0.692 |
| 24 | 1.19 | -0.173 |
| 34 | 1.19 | -0.173 |
| 24 | 1.18 | 0.000 |
| 61 | 1.18 | 0.000 |
| Median | 1.18 | 0.000 |
| 32 | 1.18 | 0.173 |
| 14 | 1.16 | 0.865 |
| Std Dev | 1.15 | 1.000 |
| 31 | 1.14 | 1.556 |
| 32 | 1.12 | 2.248 |
| 14 | 1.11 | 2.594 |

| 121.99 Acid Soluble Magnesium | | |
|-------------------------------|-------------|---------------|
| Lab | %MgO | Other |
| 330 | 1.15 | -1.340 |
| Std Dev | 1.13 | -1.000 |
| Median | 1.10 | 0.000 |
| Std Dev | 1.06 | 1.000 |
| 111 | 1.05 | 1.340 |

| 121.XX Acid Soluble Magnesium | | |
|-------------------------------|-------------|---------------|
| Lab | %MgO | Total Method |
| 61 | 1.24 | -1.765 |
| Std Dev | 1.21 | -1.000 |
| 23 | 1.21 | -0.850 |
| 23 | 1.20 | -0.719 |
| 24 | 1.19 | -0.327 |
| 34 | 1.19 | -0.327 |
| 24 | 1.18 | -0.196 |
| 61 | 1.18 | -0.196 |
| 32 | 1.18 | -0.065 |
| Median | 1.17 | 0.000 |
| 275 | 1.17 | 0.065 |

| | | |
|----------------|-------------|--------------|
| 14 | 1.16 | 0.458 |
| 330 | 1.15 | 0.719 |
| 31 | 1.14 | 0.980 |
| Std Dev | 1.13 | 1.000 |
| 275 | 1.13 | 1.111 |
| 32 | 1.12 | 1.503 |
| 14 | 1.11 | 1.765 |
| 111 | 1.05 | 3.334 |

| 144.01 Sulfate Sulfur (S) | | |
|---------------------------|-------------|--------------|
| Lab | Gravimetric | |
| 79 | 1.55 | 0.000 |
| Median | 1.55 | 0.000 |

| 144.70 Sulfur | | |
|----------------|---------------|---------------|
| Lab | Spectrometric | |
| 14 | 1.44 | -1.340 |
| Std Dev | 1.43 | -1.000 |
| Median | 1.43 | 0.000 |
| Std Dev | 1.43 | 1.000 |
| 14 | 1.43 | 1.340 |

| 144.99 Sulfate Sulfur (S) | | |
|---------------------------|-------------|---------------|
| Lab | Other | |
| 330 | 4.64 | -2.904 |
| 32 | 4.33 | -2.611 |
| 32 | 4.32 | -2.602 |
| Std Dev | 2.57 | -1.000 |
| 23 | 1.49 | -0.009 |
| 23 | 1.49 | -0.005 |
| 34 | 1.48 | 0.000 |
| Median | 1.48 | 0.000 |
| 24 | 1.47 | 0.009 |
| 24 | 1.47 | 0.014 |
| 61 | 1.42 | 0.055 |
| 31 | 1.39 | 0.087 |
| 61 | 1.38 | 0.092 |

| 144.XX Sulfate Sulfur (S) | | |
|---------------------------|--------------|---------------|
| Lab | Total Method | |
| 330 | 4.64 | -40.930 |
| 32 | 4.33 | -36.810 |
| 32 | 4.32 | -36.680 |
| Std Dev | 1.55 | -1.000 |

| | | |
|----------------|-------------|--------------|
| 79 | 1.55 | -0.969 |
| 23 | 1.49 | -0.194 |
| 23 | 1.49 | -0.129 |
| 34 | 1.48 | -0.065 |
| Median | 1.48 | 0.000 |
| 24 | 1.47 | 0.065 |
| 24 | 1.47 | 0.129 |
| 14 | 1.44 | 0.517 |
| 14 | 1.43 | 0.581 |
| 61 | 1.42 | 0.710 |
| Std Dev | 1.40 | 1.000 |
| 31 | 1.39 | 1.162 |
| 61 | 1.38 | 1.227 |

| 145.99 Total Sulfur (S) | | |
|-------------------------|-------------|--------------|
| Lab | Other | |
| 111 | 1.53 | 0.000 |
| Median | 1.53 | 0.000 |

| 145.XX Total Sulfur (S) | | |
|-------------------------|--------------|--------------|
| Lab | Total Method | |
| 111 | 1.53 | 0.000 |
| Median | 1.53 | 0.000 |

| 151.30 Total Arsenic | | |
|----------------------|--------------|---------------|
| Lab | ICP | |
| 113 | 32.70 | -6.858 |
| Std Dev | 22.28 | -1.000 |
| 113 | 22.00 | -0.843 |
| 330 | 22.00 | -0.843 |
| 61 | 20.50 | 0.000 |
| 61 | 20.50 | 0.000 |
| Median | 20.50 | 0.000 |
| 140 | 19.71 | 0.447 |
| 24 | 19.35 | 0.646 |
| Std Dev | 18.72 | 1.000 |
| 111 | 6.50 | 7.870 |

| 151.99 Total Arsenic | | |
|----------------------|--------------|--------------|
| Lab | Other | |
| 275 | 19.80 | -0.363 |
| 275 | 19.40 | 0.000 |
| Median | 19.40 | 0.000 |
| Std Dev | 18.30 | 1.000 |

| | | |
|-----------------------------|-------|--------------|
| 31 | 16.85 | 2.317 |
| 151.XX Total Arsenic | | |
| Lab | PPM | Total Method |
| 113 | 32.70 | -9.219 |
| 113 | 22.00 | -1.572 |
| 330 | 22.00 | -1.572 |
| Std Dev | 21.20 | -1.000 |
| 61 | 20.50 | -0.500 |
| 61 | 20.50 | -0.500 |
| 275 | 19.80 | 0.000 |
| Median | 19.80 | 0.000 |
| 140 | 19.71 | 0.068 |
| 275 | 19.40 | -0.286 |
| 24 | 19.35 | 0.322 |
| Std Dev | 18.40 | 1.000 |
| 31 | 16.85 | 2.108 |
| 111 | 6.50 | 9.505 |

| | | |
|----------------------------------|--------|--------|
| 165.99 Acid Soluble Boron | | |
| Lab | PPM | Other |
| 111 | 130.00 | -0.485 |
| 275 | 104.80 | -0.011 |
| 275 | 104.20 | 0.000 |
| Median | 104.20 | 0.000 |
| Std Dev | 51.02 | 1.000 |
| 330 | 33.54 | 1.329 |
| 24 | 28.95 | 1.415 |

| | | |
|--------------------------------------|--------|--------------|
| 65.XX, ppm Acid Soluble Boron | | |
| Lab | PPM | Total Method |
| 111 | 130.00 | -0.485 |
| 275 | 104.80 | -0.011 |
| 275 | 104.20 | 0.000 |
| Median | 104.20 | 0.000 |
| Std Dev | 51.02 | 1.000 |
| 330 | 33.54 | 1.329 |
| 24 | 28.95 | 1.415 |

| | | |
|-----------------------------------|-------|-------|
| 171.99 Water Soluble Boron | | |
| Lab | PPM | Other |
| 330 | 18.95 | 0.000 |
| Median | 18.95 | 0.000 |

| | | |
|-----------------------------------|-------|--------------|
| 171.XX Water Soluble Boron | | |
| Lab | PPM | Total Method |
| 330 | 18.95 | 0.000 |
| Median | 18.95 | 0.000 |

| | | |
|-----------------------------|--------|-------------------|
| 181.00 Total Cadmium | | |
| Lab | PPM | Atomic Absorbtion |
| 330 | 135.00 | 0.000 |
| Median | 135.00 | 0.000 |

| | | |
|-----------------------------|--------|--------|
| 181.30 Total Cadmium | | |
| Lab | PPM | ICP |
| 61 | 152.00 | -0.830 |
| 61 | 152.00 | -0.830 |
| 275 | 142.05 | -0.026 |
| 275 | 141.73 | 0.000 |
| Median | 141.73 | 0.000 |
| 113 | 136.70 | 0.407 |
| Std Dev | 129.36 | 1.000 |
| 113 | 124.20 | 1.417 |
| 111 | 121.00 | 1.676 |

| | | |
|-----------------------------|--------|--------|
| 181.99 Total Cadmium | | |
| Lab | PPM | Other |
| 24 | 147.50 | -1.340 |
| Std Dev | 147.25 | -1.000 |
| Median | 146.50 | 0.000 |
| Std Dev | 145.75 | 1.000 |
| 31 | 145.50 | 1.340 |

| | | |
|-----------------------------|--------|--------------|
| 181.XX Total Cadmium | | |
| Lab | PPM | Total Method |
| 61 | 152.00 | -1.170 |
| 61 | 152.00 | -1.170 |
| Std Dev | 150.53 | -1.000 |
| 24 | 147.50 | -0.649 |
| 31 | 145.50 | -0.418 |
| 275 | 142.05 | -0.018 |
| Median | 141.89 | 0.000 |
| 275 | 141.73 | 0.018 |
| 113 | 136.70 | 0.601 |
| 330 | 135.00 | 0.798 |
| Std Dev | 133.25 | 1.000 |
| 113 | 124.20 | 2.048 |

| | | |
|------------------------|---------------------------------|--------|
| 111 | 121.00 | 2.418 |
| 190.00 Aluminum | | |
| Lab | %Al ₂ O ₃ | ICP |
| 61 | 1.76 | -1.269 |
| Std Dev | 1.75 | -1.000 |
| 14 | 1.74 | -0.705 |
| 34 | 1.72 | -0.282 |
| 23 | 1.72 | -0.141 |
| 23 | 1.72 | -0.141 |
| 24 | 1.71 | 0.000 |
| 24 | 1.71 | 0.000 |
| Median | 1.71 | 0.000 |
| 14 | 1.70 | 0.282 |
| Std Dev | 1.67 | 1.000 |
| 32 | 1.67 | 1.128 |
| 32 | 1.67 | 1.269 |
| 61 | 1.66 | 1.411 |
| 111 | 1.12 | 16.644 |

| | | |
|------------------------|---------------------------------|-------------------|
| 190.99 Aluminum | | |
| Lab | %Al ₂ O ₃ | Atomic Absorption |
| 31 | 1.71 | -1.340 |
| Std Dev | 1.70 | -1.000 |
| Median | 1.69 | 0.000 |
| Std Dev | 1.67 | 1.000 |
| 330 | 1.67 | 1.340 |

| | | |
|------------------------|---------------------------------|--------------|
| 190.XX Aluminum | | |
| Lab | %Al ₂ O ₃ | Total Method |
| 61 | 1.76 | -1.414 |
| Std Dev | 1.74 | -1.000 |
| 14 | 1.74 | -0.819 |
| 34 | 1.72 | -0.372 |
| 23 | 1.72 | -0.223 |
| 23 | 1.72 | -0.223 |
| 24 | 1.71 | -0.074 |
| 24 | 1.71 | -0.074 |
| Median | 1.71 | 0.000 |
| 31 | 1.71 | 0.074 |
| 14 | 1.70 | 0.223 |
| Std Dev | 1.67 | 1.000 |
| 32 | 1.67 | 1.117 |
| 330 | 1.67 | 1.117 |

| | | |
|-----|------|--------|
| 32 | 1.67 | 1.266 |
| 61 | 1.66 | 1.414 |
| 111 | 1.12 | 17.494 |

| | | |
|------------------------------|--------|-------------------|
| 191.00 Total Chromium | | |
| Lab | PPM | Atomic Absorbtion |
| 330 | 534.50 | 0.000 |
| Median | 534.50 | 0.000 |

| | | |
|------------------------------|--------|--------|
| 191.30 Total Chromium | | |
| Lab | PPM | ICP |
| 61 | 611.00 | -1.105 |
| 61 | 608.50 | -1.048 |
| Std Dev | 606.43 | -1.000 |
| 111 | 563.00 | 0.000 |
| Median | 563.00 | 0.000 |
| 113 | 550.30 | 0.292 |
| Std Dev | 519.57 | 1.000 |
| 113 | 499.70 | 1.457 |

| | | |
|------------------------------|--------|--------|
| 191.99 Total Chromium | | |
| Lab | PPM | Other |
| 24 | 589.00 | -1.340 |
| Std Dev | 587.12 | -1.000 |
| Median | 581.60 | 0.000 |
| Std Dev | 576.08 | 1.000 |
| 31 | 574.20 | 1.340 |

| | | |
|------------------------------|--------|--------------|
| 191.XX Total Chromium | | |
| Lab | PPM | Total Method |
| 61 | 611.00 | -1.195 |
| 61 | 608.50 | -1.125 |
| Std Dev | 604.07 | -1.000 |
| 24 | 589.00 | -0.575 |
| 31 | 574.20 | -0.158 |
| Median | 568.60 | 0.000 |
| 111 | 563.00 | 0.158 |
| 113 | 550.30 | 0.516 |
| 330 | 534.50 | 0.961 |
| Std Dev | 533.13 | 1.000 |
| 113 | 499.70 | 1.943 |

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

| 61 | | |
|--------|---------------------|-------|
| 202.99 | Acid Soluble Cobalt | |
| Lab | Other | |
| 24 | 4.17 | 0.000 |
| Median | 4.17 | 0.000 |

| 202.XX | | |
|---------|------|-------------------------------------|
| Lab | PPM | Acid Soluble Cobalt Total Method |
| 61 | 4.45 | -1.390 |
| Std Dev | 4.37 | -1.000 |
| 330 | 4.27 | -0.496 |
| 24 | 4.17 | 0.000 |
| Median | 4.17 | 0.000 |
| 61 | 4.00 | 0.844 |
| Std Dev | 3.97 | 1.000 |
| 111 | 1.50 | 13.251 |

| 221.30 | | |
|---------|-------|----------------------------|
| Lab | PPM | Acid Soluble Copper ICP |
| 111 | 67.50 | -2.193 |
| Std Dev | 65.05 | -1.000 |
| 61 | 63.00 | 0.000 |
| Median | 63.00 | 0.000 |
| 61 | 62.00 | 0.487 |

| 221.99 | | |
|---------|-------|------------------------------|
| Lab | | Acid Soluble Copper Other |
| 31 | 66.64 | -1.340 |
| Std Dev | 65.96 | -1.000 |
| Median | 63.97 | 0.000 |
| Std Dev | 61.98 | 1.000 |
| 24 | 61.30 | 1.340 |

| 221.XX | | |
|---------|-------|-------------------------------------|
| Lab | PPM | Acid Soluble Copper Total Method |
| 111 | 67.50 | -1.301 |
| 31 | 66.64 | -1.051 |
| Std Dev | 66.46 | -1.000 |
| 61 | 63.00 | 0.000 |
| Median | 63.00 | 0.000 |
| 61 | 62.00 | 0.289 |
| 24 | 61.30 | 0.491 |

| 241.30 | | |
|---------|---------------------------------|--------------------------|
| Lab | %Fe ₂ O ₃ | Acid Soluble Iron ICP |
| 23 | 1.17 | -0.846 |
| 34 | 1.16 | -0.705 |
| 23 | 1.16 | -0.564 |
| 24 | 1.16 | -0.564 |
| 24 | 1.15 | -0.423 |
| 14 | 1.14 | 0.000 |
| 32 | 1.14 | 0.000 |
| Median | 1.14 | 0.000 |
| 14 | 1.12 | 0.423 |
| 111 | 1.11 | 0.705 |
| 61 | 1.10 | 0.987 |
| Std Dev | 1.10 | 1.000 |
| 61 | 1.09 | 1.411 |
| 32 | 1.08 | 1.552 |

| 241.99 | | |
|---------|---------------------------------|----------------------------|
| Lab | %Fe ₂ O ₃ | Acid Soluble Iron Other |
| 330 | 1.12 | -1.340 |
| Std Dev | 1.12 | -1.000 |
| Median | 1.12 | 0.000 |
| Std Dev | 1.12 | 1.000 |
| 31 | 1.12 | 1.340 |

| 241.XX | | |
|---------|---------------------------------|-----------------------------------|
| Lab | %Fe ₂ O ₃ | Acid Soluble Iron Total Method |
| 23 | 1.17 | -1.182 |
| 34 | 1.16 | -1.025 |
| Std Dev | 1.16 | -1.000 |
| 23 | 1.16 | -0.867 |
| 24 | 1.16 | -0.867 |
| 24 | 1.15 | -0.709 |
| 14 | 1.14 | -0.236 |
| 32 | 1.14 | -0.236 |
| Median | 1.13 | 0.000 |
| 14 | 1.12 | 0.236 |
| 330 | 1.12 | 0.236 |
| 31 | 1.12 | 0.394 |
| 111 | 1.11 | 0.552 |
| 61 | 1.10 | 0.867 |
| Std Dev | 1.10 | 1.000 |
| 61 | 1.09 | 1.340 |
| 32 | 1.08 | 1.498 |

| 251.00 | | |
|--------|---------------------------------|-------|
| Lab | Total Lead Atomic Absorbtion | |
| 330 | 1.60 | 0.000 |
| Median | 1.60 | 0.000 |

| 251.30 | | |
|---------|------|-------------------|
| Lab | PPM | Total Lead ICP |
| 113 | 4.10 | -0.790 |
| 113 | 3.70 | -0.407 |
| 61 | 3.55 | -0.263 |
| Median | 3.28 | 0.000 |
| 61 | 3.00 | 0.263 |
| Std Dev | 2.23 | 1.000 |
| 275 | 2.02 | 1.204 |
| 275 | 1.90 | 1.318 |

| 251.99 | | |
|---------|------|---------------------|
| Lab | | Total Lead Other |
| 31 | 2.40 | -1.340 |
| Std Dev | 2.30 | -1.000 |
| Median | 2.02 | 0.000 |
| Std Dev | 1.73 | 1.000 |
| 24 | 1.64 | 1.340 |

| 251.XX | | |
|---------|------|----------------------------|
| Lab | PPM | Total Lead Total Method |
| 113 | 4.10 | -1.379 |
| 113 | 3.70 | -1.054 |
| Std Dev | 3.63 | -1.000 |
| 61 | 3.55 | -0.933 |
| 61 | 3.00 | -0.487 |
| 31 | 2.40 | 0.000 |
| Median | 2.40 | 0.000 |
| 275 | 2.02 | 0.311 |
| 275 | 1.90 | 0.407 |
| 24 | 1.64 | 0.621 |
| 330 | 1.60 | 0.649 |

| 261.30 | | |
|---------|-------------------------------|--------|
| Lab | Acid Soluble Manganese ICP | |
| 111 | 175.50 | -1.340 |
| Std Dev | 172.58 | -1.000 |
| Median | 164.00 | 0.000 |

| | | |
|---------|--------|-------|
| Std Dev | 155.42 | 1.000 |
| 330 | 152.50 | 1.340 |

| 261.99 | | |
|---------|--------|---------------------------------|
| Lab | PPM | Acid Soluble Manganese Other |
| 61 | 187.00 | -0.731 |
| 31 | 186.55 | -0.394 |
| Median | 186.03 | 0.000 |
| 61 | 185.50 | 0.394 |
| Std Dev | 184.69 | 1.000 |
| 24 | 183.00 | 2.268 |

| 261.XX | | |
|---------|--------|--|
| Lab | PPM | Acid Soluble Manganese Total Method |
| 61 | 187.00 | -0.413 |
| 31 | 186.55 | -0.346 |
| 61 | 185.50 | -0.188 |
| Median | 184.25 | 0.000 |
| 24 | 183.00 | 0.188 |
| Std Dev | 177.60 | 1.000 |
| 111 | 175.50 | 1.316 |
| 330 | 152.50 | 4.774 |

| 271.99 | | |
|--------|----------------------------------|-------|
| Lab | Water Soluble Manganese Other | |
| 330 | 44.05 | 0.000 |
| Median | 44.05 | 0.000 |

| 271.XX | | |
|--------|-------|---|
| Lab | PPM | Water Soluble Manganese Total Method |
| 330 | 44.05 | 0.000 |
| Median | 44.05 | 0.000 |

| 281.30 | | |
|--------|--------|----------------------|
| Lab | PPM | Total Mercury ICP |
| 24 | <0.001 | 0.000 |
| Median | 0.00 | 0.000 |

| 281.XX | | |
|--------|--------|-------------------------------|
| Lab | PPM | Total Mercury Total Method |
| 24 | <0.001 | 0.000 |
| Median | 0.00 | 0.000 |

| 289.30 Total Molybdenum | | |
|-------------------------|-----|-----|
| Lab | PPM | ICP |
| 330 | | |

| 289.99 Total Molybdenum | | |
|-------------------------|-------|--------|
| Lab | PPM | Other |
| 24 | 19.90 | -1.340 |
| Std Dev | 19.32 | -1.000 |
| Median | 17.63 | 0.000 |
| Std Dev | 15.93 | 1.000 |
| 31 | 15.35 | 1.340 |

| 289.XX Total Molybdenum | | |
|-------------------------|-------|--------------|
| Lab | PPM | Total Method |
| 330 | 28.55 | -12.564 |
| 275 | 20.84 | -1.206 |
| Std Dev | 20.70 | -1.000 |
| 61 | 20.50 | -0.707 |
| 275 | 20.04 | -0.029 |
| Median | 20.02 | 0.000 |
| 111 | 20.00 | 0.029 |
| 24 | 19.90 | 0.177 |
| Std Dev | 19.34 | 1.000 |
| 61 | 19.00 | 1.502 |
| 31 | 15.35 | 6.879 |

| 291.30 Total Nickel | | |
|---------------------|-----|-----|
| Lab | PPM | ICP |
| 275 | | |

| 291.99 Total Nickel | | |
|---------------------|--------|--------|
| Lab | PPM | Other |
| 31 | 258.40 | -0.405 |
| 24 | 248.00 | 0.000 |
| Median | 248.00 | 0.000 |
| Std Dev | 222.29 | 1.000 |
| 111 | 189.50 | 2.275 |

| 291.XX Total Nickel | | |
|---------------------|--------|--------------|
| Lab | PPM | Total Method |
| 275 | 266.42 | -0.889 |
| 275 | 264.60 | -0.702 |
| 31 | 258.40 | -0.067 |
| 61 | 258.00 | -0.026 |
| Median | 257.75 | 0.000 |
| 61 | 257.50 | 0.026 |

| | | |
|---------|--------|-------|
| 24 | 248.00 | 0.999 |
| Std Dev | 247.99 | 1.000 |
| 330 | 243.50 | 1.460 |
| 111 | 189.50 | 6.995 |

| 301.30 Total Selenium | | |
|-----------------------|------|--------|
| Lab | PPM | ICP |
| 140 | 1.21 | -3.020 |
| Std Dev | 0.69 | -1.000 |
| 111 | 0.50 | -0.258 |
| Median | 0.43 | 0.000 |
| 24 | 0.37 | 0.258 |
| 61 | 0.23 | 0.793 |

| 301.99 Total Selenium | | |
|-----------------------|------|-------|
| Lab | PPM | Other |
| 330 | 1.60 | 0.000 |
| Median | 1.60 | 0.000 |

| 301.XX Total Selenium | | |
|-----------------------|------|--------------|
| Lab | PPM | Total Method |
| 330 | 1.60 | -1.750 |
| 140 | 1.21 | -1.129 |
| Std Dev | 1.13 | -1.000 |
| 111 | 0.50 | 0.000 |
| Median | 0.50 | 0.000 |
| 24 | 0.37 | 0.211 |
| 61 | 0.23 | 0.429 |

| 311.00 Sodium | | |
|---------------|--------------------|-------------------|
| Lab | %Na ₂ O | Atomic Absorbtion |
| 330 | 0.29 | 0.000 |
| Median | 0.29 | 0.000 |

| 311.99 Sodium | | |
|---------------|--------------------|--------|
| Lab | %Na ₂ O | Other |
| 111 | 0.15 | -1.462 |
| Std Dev | 0.14 | -1.000 |
| 23 | 0.14 | -0.975 |
| 23 | 0.14 | -0.975 |
| 31 | 0.14 | -0.487 |
| 61 | 0.13 | 0.000 |
| 61 | 0.13 | 0.000 |
| Median | 0.13 | 0.000 |

| | | |
|---------|------|-------|
| 24 | 0.13 | 0.487 |
| 275 | 0.13 | 0.487 |
| 275 | 0.12 | 0.975 |
| Std Dev | 0.12 | 1.000 |
| 24 | 0.12 | 1.462 |

| 311.XX Sodium | | |
|---------------|--------------------|--------------|
| Lab | %Na ₂ O | Total Method |
| 330 | 0.29 | -13.847 |
| 111 | 0.15 | -1.340 |
| Std Dev | 0.14 | -1.000 |
| 23 | 0.14 | -0.893 |
| 31 | 0.14 | -0.893 |
| 61 | 0.13 | -0.447 |
| 61 | 0.13 | 0.000 |
| Median | 0.13 | 0.000 |
| 24 | 0.13 | 0.447 |
| 275 | 0.13 | 0.447 |
| 275 | 0.12 | 0.893 |
| Std Dev | 0.12 | 1.000 |
| 24 | 0.12 | 1.340 |

| 321.30 Acid Soluble Zinc | | |
|--------------------------|---------|--------|
| Lab | PPM | ICP |
| 24 | 1980.00 | -0.800 |
| 111 | 1969.50 | -0.364 |
| Median | 1960.75 | 0.000 |
| 61 | 1952.00 | 0.364 |
| Std Dev | 1936.68 | 1.000 |
| 61 | 1903.50 | 2.379 |

| 321.99 Acid Soluble Zinc | | |
|--------------------------|---------|--------|
| Lab | PPM | Other |
| 31 | 1944.50 | -1.340 |
| Std Dev | 1921.85 | -1.000 |
| Median | 1855.25 | 0.000 |
| Std Dev | 1788.65 | 1.000 |
| 330 | 1766.00 | 1.340 |

| 321.XX Acid Soluble Zinc | | |
|--------------------------|---------|--------------|
| Lab | PPM | Total Method |
| 24 | 1980.00 | -0.828 |
| 111 | 1969.50 | -0.554 |

| | | |
|---------|---------|--------|
| 61 | 1952.00 | -0.098 |
| Median | 1948.25 | 0.000 |
| 31 | 1944.50 | 0.098 |
| Std Dev | 1909.91 | 1.000 |
| 61 | 1903.50 | 1.167 |
| 330 | 1766.00 | 4.754 |

| 325.10 Fluoride | | |
|-----------------|------|-----------|
| Lab | % | Electrode |
| 32 | 1.68 | -1.666 |
| 32 | 1.66 | -1.449 |
| 24 | 1.64 | -1.086 |
| 14 | 1.60 | -0.507 |
| 14 | 1.58 | -0.290 |
| 24 | 1.56 | 0.000 |
| Median | 1.56 | 0.000 |
| 23 | 1.55 | 0.217 |
| 23 | 1.54 | 0.290 |
| 34 | 1.51 | 0.797 |
| 79 | 1.48 | 1.159 |
| 111 | 0.24 | 19.195 |

| 325.99 Fluoride | | |
|-----------------|------|--------|
| Lab | % | Other |
| 61 | 1.62 | -0.558 |
| 330 | 1.62 | -0.558 |
| Median | 1.61 | 0.000 |
| 31 | 1.60 | 0.558 |
| 61 | 1.58 | 1.452 |

| 325.XX Fluoride | | |
|-----------------|------|--------------|
| Lab | % | Total Method |
| 32 | 1.68 | -1.643 |
| 32 | 1.66 | -1.383 |
| 24 | 1.64 | -0.951 |
| 61 | 1.62 | -0.692 |
| 330 | 1.62 | -0.692 |
| 14 | 1.60 | -0.259 |
| 31 | 1.60 | -0.259 |
| 14 | 1.58 | 0.000 |
| Median | 1.58 | 0.000 |
| 61 | 1.58 | 0.086 |
| 24 | 1.56 | 0.346 |
| 23 | 1.55 | 0.605 |

| | | |
|-----|------|--------|
| 23 | 1.54 | 0.692 |
| 34 | 1.51 | 1.297 |
| 79 | 1.48 | 1.729 |
| 111 | 0.24 | 23.255 |