

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 171011

Epsom Salts

Statistical Summary

Analytes: 28

Labs Reporting: 81

Issue Date : 11/30/2017

| Analyte Code | Analyte | # Tests Submitted | # Tests in Robust Calculations | Raw Mean | Raw SD | Assigned Value Robust Mean | IA at Analyte Value | Robust sd | Robust Uncertainty (U) | Robust % RSD | IA %RSD | Average Range (R-bar) | Horwitz %RSD |
|--------------|---|-------------------|--------------------------------|----------|--------|----------------------------|---------------------|-----------|------------------------|--------------|---------|-----------------------|--------------|
| 010 | Total Nitrogen (%) | 4 | 4 | 0.1196 | 0.0821 | 0.1196 | | 0.0821 | 0.0513 | 68.66% | | 0.0107 | 5.51% |
| 020 | Total Phosphorus as P2O5 (%) | 3 | 2 | 0.0022 | 0.0017 | 0.0022 | | 0.0017 | 0.0015 | 74.68% | | 0.0002 | 10.03% |
| 041 | Direct Available Phosphorus as P2O5 (%) | 2 | 2 | 0.0855 | 0.0912 | | | | | | | | |
| 050 | Soluble Potassium as K2O (%) | 4 | 4 | 0.0730 | 0.0874 | 0.0730 | | 0.0874 | 0.0546 | 119.75% | | 0.0005 | 5.93% |
| 060 | Water (Free) (%) | 5 | 5 | 17.06 | 17.11 | 17.06 | | 17.11 | 9.562 | 100.27% | | 0.3719 | 2.61% |
| 101 | Acid Soluble Calcium (%) | 10 | 10 | 0.0310 | 0.0204 | 0.0264 | | 0.0092 | 0.0037 | 34.97% | | 0.0038 | 6.91% |
| 121 | Acid Soluble Magnesium (9.8%) | 68 | 68 | 9.944 | 0.7982 | 9.944 | 0.6972 | 0.5857 | 0.0888 | 5.89% | 3.51% | 0.1997 | 2.83% |
| 131 | Water Soluble Magnesium (%) | 6 | 6 | 10.15 | 0.3592 | 10.15 | | 0.4073 | 0.2079 | 4.01% | | 0.2325 | 2.82% |
| 143 | Elemental Sulfur (%) | 5 | 5 | 10.44 | 5.843 | 10.44 | | 5.843 | 3.267 | 55.97% | | 0.2280 | 2.81% |
| 145 | Sulfate Sulfur, HCl soluble (%) | 10 | 9 | 13.25 | 0.4787 | 13.25 | | 0.5429 | 0.2262 | 4.10% | | 0.1094 | 2.71% |
| 146 | Total Sulfur in Liquid (%) | 1 | | 12.84 | | | | | | | | | |
| 148 | Total Sulfur (13%) | 53 | 51 | 13.23 | 0.7931 | 13.19 | 0.8594 | 0.5648 | 0.0989 | 4.28% | 3.26% | 0.1975 | 2.71% |
| 149 | Sulfur - HNO3 soluble (%) | 4 | 4 | 13.38 | 0.8676 | 13.38 | | 0.8676 | 0.5423 | 6.48% | | 0.1575 | 2.71% |
| 151 | Acid Soluble Arsenic (ppm) | 9 | 6 | 0.5366 | 0.8662 | 0.3254 | | 0.4383 | 0.2237 | 134.70% | | 0.1645 | 18.94% |
| 165 | Acid Soluble Boron (%) | 4 | 3 | 0.0023 | 0.0019 | 0.0023 | | 0.0019 | 0.0014 | 81.13% | | 0.0007 | 9.96% |
| 181 | Acid Soluble Cadmium (ppm) | 12 | 6 | 0.0259 | 0.0275 | 0.0259 | | 0.0312 | 0.0159 | 120.58% | | 0.0062 | 27.72% |
| 191 | Acid Soluble Chromium (ppm) | 13 | 10 | 1.079 | 1.387 | 0.7476 | | 0.8232 | 0.3254 | 110.11% | | 0.2116 | 16.71% |
| 202 | Acid Soluble Cobalt (ppm) | 11 | 9 | 0.3451 | 0.1836 | 0.3364 | | 0.1879 | 0.0783 | 55.87% | | 0.0442 | 18.85% |
| 221 | Acid Soluble Copper (%) | 13 | 11 | 0.0014 | 0.0029 | 0.0005 | | 0.0005 | 0.0002 | 95.89% | | 0.0000 | 12.50% |
| 241 | Acid Soluble Iron (%) | 9 | 7 | 0.0017 | 0.0011 | 0.0017 | | 0.0013 | 0.0006 | 74.79% | | 0.0010 | 10.41% |
| 251 | Acid Soluble Lead (ppm) | 11 | 8 | 0.6124 | 1.331 | 0.1720 | | 0.1368 | 0.0605 | 79.52% | | 0.0992 | 20.85% |
| 261 | Acid Soluble Manganese (%) | 13 | 10 | 0.0016 | 0.0006 | 0.0016 | | 0.0007 | 0.0003 | 42.35% | | 0.0001 | 10.55% |
| 281 | Acid Soluble Mercury (ppm) | 5 | 3 | 0.0062 | 0.0038 | 0.0062 | | 0.0038 | 0.0027 | 60.86% | | 0.0010 | 34.41% |
| 289 | Acid Soluble Molybdenum (ppm) | 20 | 18 | 1.356 | 0.4976 | 1.327 | | 0.3498 | 0.1031 | 26.36% | | 0.0841 | 15.33% |
| 291 | Acid Soluble Nickel (ppm) | 17 | 13 | 0.8122 | 1.079 | 0.5518 | | 0.3414 | 0.1183 | 61.86% | | 0.1184 | 17.49% |
| 301 | Acid Soluble Selenium (ppm) | 10 | 7 | 0.5755 | 0.5715 | 0.5745 | | 0.6460 | 0.3052 | 112.44% | | 0.3434 | 17.39% |
| 311 | Sodium (%) | 4 | 4 | 0.0074 | 0.0059 | 0.0074 | | 0.0059 | 0.0037 | 79.11% | | 0.0067 | 8.37% |
| 321 | Acid Soluble Zinc (%) | 17 | 12 | 0.0014 | 0.0017 | 0.0012 | | 0.0014 | 0.0005 | 114.12% | | 0.0002 | 11.01% |

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Analytes: 28

Sample # 171011

Lab Values

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Issue Date : 11/30/2017

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|---|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 010 | Total Nitrogen (%) | 0524 | 0.0504 | 0.0069 | 0.1196 | 0.0821 | 0.0107 | 4 | -0.84 | 010.99 | 0 |
| 010 | Total Nitrogen (%) | 0354 | 0.0895 | 0.0090 | 0.1196 | 0.0821 | 0.0107 | 4 | -0.37 | 010.60 | 0 |
| 010 | Total Nitrogen (%) | 0325 | 0.1000 | 0.0000 | 0.1196 | 0.0821 | 0.0107 | 4 | -0.24 | 010.60 | 0 |
| 010 | Total Nitrogen (%) | 0472 | 0.2385 | 0.0270 | 0.1196 | 0.0821 | 0.0107 | 4 | 1.45 | 010.60 | 0 |
| 020 | Total Phosphorus as P2O5 (%) | 0524 | 0.0011 | 0.0003 | | | | 2 | | 020.50 | 0 |
| 020 | Total Phosphorus as P2O5 (%) | 0521 | 0.0034 | 0.0000 | | | | 2 | | 020.50 | 0 |
| 020 | Total Phosphorus as P2O5 (%) | 0515 | 0.0000 | 0.0000 | | | | 2 | | 020.99 | 4 |
| 041 | Direct Available Phosphorus as P2O5 (%) | 0354 | 0.0210 | 0.0000 | | | | 2 | | 041.60 | 0 |
| 041 | Direct Available Phosphorus as P2O5 (%) | 0325 | 0.1500 | 0.1000 | | | | 2 | | 041.50 | 0 |
| 050 | Soluble Potassium as K2O (%) | 0524 | 0.0046 | 0.0000 | 0.0730 | 0.0874 | 0.0005 | 4 | -0.78 | 050.99 | 0 |
| 050 | Soluble Potassium as K2O (%) | 0521 | 0.0302 | 0.0000 | 0.0730 | 0.0874 | 0.0005 | 4 | -0.49 | 050.99 | 0 |
| 050 | Soluble Potassium as K2O (%) | 0354 | 0.0570 | 0.0020 | 0.0730 | 0.0874 | 0.0005 | 4 | -0.18 | 050.52 | 0 |
| 050 | Soluble Potassium as K2O (%) | 0325 | 0.2000 | 0.0000 | 0.0730 | 0.0874 | 0.0005 | 4 | 1.45 | 050.99 | 0 |
| 060 | Water (Free) (%) | 0416 | 1.862 | 0.1155 | 17.06 | 17.11 | 0.3719 | 5 | -0.89 | 060.00 | 0 |
| 060 | Water (Free) (%) | 0518 | 3.300 | 0.4000 | 17.06 | 17.11 | 0.3719 | 5 | -0.80 | 060.30 | 0 |
| 060 | Water (Free) (%) | 0510 | 9.002 | 0.2340 | 17.06 | 17.11 | 0.3719 | 5 | -0.47 | 060.99 | 0 |
| 060 | Water (Free) (%) | 0055 | 35.40 | 0.8000 | 17.06 | 17.11 | 0.3719 | 5 | 1.07 | 060.30 | 0 |
| 060 | Water (Free) (%) | 0055 | 35.74 | 0.3100 | 17.06 | 17.11 | 0.3719 | 5 | 1.09 | 060.99 | 0 |
| 101 | Acid Soluble Calcium (%) | 0105 | 0.0125 | 0.0130 | 0.0264 | 0.0092 | 0.0038 | 10 | -1.40 | 101.03 | 0 |
| 101 | Acid Soluble Calcium (%) | 0105 | 0.0145 | 0.0070 | 0.0264 | 0.0092 | 0.0038 | 10 | -1.20 | 101.00 | 0 |
| 101 | Acid Soluble Calcium (%) | 0521 | 0.0232 | 0.0000 | 0.0264 | 0.0092 | 0.0038 | 10 | -0.33 | 101.32 | 0 |
| 101 | Acid Soluble Calcium (%) | 0117 | 0.0249 | 0.0000 | 0.0264 | 0.0092 | 0.0038 | 10 | -0.15 | 101.33 | 0 |
| 101 | Acid Soluble Calcium (%) | 0494 | 0.0274 | 0.0054 | 0.0264 | 0.0092 | 0.0038 | 10 | 0.10 | 101.33 | 0 |
| 101 | Acid Soluble Calcium (%) | 0482 | 0.0300 | 0.0000 | 0.0264 | 0.0092 | 0.0038 | 10 | 0.36 | 101.30 | 0 |
| 101 | Acid Soluble Calcium (%) | 0535 | 0.0305 | 0.0010 | 0.0264 | 0.0092 | 0.0038 | 10 | 0.41 | 101.00 | 0 |
| 101 | Acid Soluble Calcium (%) | 0096 | 0.0305 | 0.0010 | 0.0264 | 0.0092 | 0.0038 | 10 | 0.41 | 101.30 | 0 |
| 101 | Acid Soluble Calcium (%) | 0527 | 0.0305 | 0.0030 | 0.0264 | 0.0092 | 0.0038 | 10 | 0.41 | 101.33 | 0 |
| 101 | Acid Soluble Calcium (%) | 0354 | 0.0860 | 0.0080 | 0.0264 | 0.0092 | 0.0038 | 10 | 5.99 | 101.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0535 | 6.325* | 0.1500 | 9.944 | 0.5857 | 0.1997 | 68 | -6.18 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0106 | 8.590* | 0.6998 | 9.944 | 0.5857 | 0.1997 | 68 | -2.31 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0501 | 8.720* | 0.0000 | 9.944 | 0.5857 | 0.1997 | 68 | -2.09 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0117 | 8.769* | 0.0390 | 9.944 | 0.5857 | 0.1997 | 68 | -2.01 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0415 | 9.049* | 0.2093 | 9.944 | 0.5857 | 0.1997 | 68 | -1.53 | 121.99 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|-------------------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 121 | Acid Soluble Magnesium (9.8%) | 0541 | 9.105* | 0.1700 | 9.944 | 0.5857 | 0.1997 | 68 | -1.43 | 121.32 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0486 | 9.225* | 0.1300 | 9.944 | 0.5857 | 0.1997 | 68 | -1.23 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0481 | 9.395 | 0.1700 | 9.944 | 0.5857 | 0.1997 | 68 | -0.94 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0516 | 9.415 | 0.0060 | 9.944 | 0.5857 | 0.1997 | 68 | -0.90 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0102 | 9.451 | 0.0650 | 9.944 | 0.5857 | 0.1997 | 68 | -0.84 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0515 | 9.454 | 0.5916 | 9.944 | 0.5857 | 0.1997 | 68 | -0.84 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0534 | 9.500 | 0.0800 | 9.944 | 0.5857 | 0.1997 | 68 | -0.76 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0230 | 9.500 | 0.0600 | 9.944 | 0.5857 | 0.1997 | 68 | -0.76 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0041 | 9.510 | 0.7800 | 9.944 | 0.5857 | 0.1997 | 68 | -0.74 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0157 | 9.525 | 0.0700 | 9.944 | 0.5857 | 0.1997 | 68 | -0.72 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0255 | 9.551 | 0.0140 | 9.944 | 0.5857 | 0.1997 | 68 | -0.67 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0096 | 9.580 | 0.0300 | 9.944 | 0.5857 | 0.1997 | 68 | -0.62 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0043 | 9.615 | 0.0700 | 9.944 | 0.5857 | 0.1997 | 68 | -0.56 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0157 | 9.635 | 0.1700 | 9.944 | 0.5857 | 0.1997 | 68 | -0.53 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0040 | 9.640 | 0.1200 | 9.944 | 0.5857 | 0.1997 | 68 | -0.52 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0037 | 9.650 | 0.0300 | 9.944 | 0.5857 | 0.1997 | 68 | -0.50 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0307 | 9.654 | 0.3320 | 9.944 | 0.5857 | 0.1997 | 68 | -0.50 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0360 | 9.690 | 0.0000 | 9.944 | 0.5857 | 0.1997 | 68 | -0.43 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0390 | 9.690 | 0.3400 | 9.944 | 0.5857 | 0.1997 | 68 | -0.43 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0169 | 9.700 | 0.0800 | 9.944 | 0.5857 | 0.1997 | 68 | -0.42 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0231 | 9.700 | 0.0200 | 9.944 | 0.5857 | 0.1997 | 68 | -0.42 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0177 | 9.723 | 0.1632 | 9.944 | 0.5857 | 0.1997 | 68 | -0.38 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0416 | 9.725 | 0.0100 | 9.944 | 0.5857 | 0.1997 | 68 | -0.37 | 121.70 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0519 | 9.785 | 0.0700 | 9.944 | 0.5857 | 0.1997 | 68 | -0.27 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0055 | 9.790 | 0.0200 | 9.944 | 0.5857 | 0.1997 | 68 | -0.26 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0515 | 9.804 | 0.4662 | 9.944 | 0.5857 | 0.1997 | 68 | -0.24 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0233 | 9.831 | 0.2310 | 9.944 | 0.5857 | 0.1997 | 68 | -0.19 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0433 | 9.890 | 0.1800 | 9.944 | 0.5857 | 0.1997 | 68 | -0.09 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0423 | 9.893 | 0.0550 | 9.944 | 0.5857 | 0.1997 | 68 | -0.09 | 121.32 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0397 | 9.907 | 0.2685 | 9.944 | 0.5857 | 0.1997 | 68 | -0.06 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0421 | 9.920 | 0.0600 | 9.944 | 0.5857 | 0.1997 | 68 | -0.04 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0368 | 9.938 | 0.1296 | 9.944 | 0.5857 | 0.1997 | 68 | -0.01 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0371 | 9.950 | 0.0200 | 9.944 | 0.5857 | 0.1997 | 68 | 0.01 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0324 | 9.955 | 0.6900 | 9.944 | 0.5857 | 0.1997 | 68 | 0.02 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0377 | 9.970 | 0.1000 | 9.944 | 0.5857 | 0.1997 | 68 | 0.04 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0136 | 9.970 | 0.4200 | 9.944 | 0.5857 | 0.1997 | 68 | 0.04 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0485 | 9.981 | 0.6180 | 9.944 | 0.5857 | 0.1997 | 68 | 0.06 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0292 | 10.00 | 0.0200 | 9.944 | 0.5857 | 0.1997 | 68 | 0.10 | 121.32 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0482 | 10.01 | 0.1900 | 9.944 | 0.5857 | 0.1997 | 68 | 0.10 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0027 | 10.07 | 0.2900 | 9.944 | 0.5857 | 0.1997 | 68 | 0.21 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0476 | 10.10 | 0.0901 | 9.944 | 0.5857 | 0.1997 | 68 | 0.27 | 121.70 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0023 | 10.12 | 0.2460 | 9.944 | 0.5857 | 0.1997 | 68 | 0.30 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0291 | 10.21 | 0.0100 | 9.944 | 0.5857 | 0.1997 | 68 | 0.45 | 121.30 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|---------------------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 121 | Acid Soluble Magnesium (9.8%) | 0354 | 10.28 | 0.1250 | 9.944 | 0.5857 | 0.1997 | 68 | 0.58 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0494 | 10.30 | 0.5896 | 9.944 | 0.5857 | 0.1997 | 68 | 0.61 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0029 | 10.32 | 0.2400 | 9.944 | 0.5857 | 0.1997 | 68 | 0.64 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0444 | 10.39 | 0.2500 | 9.944 | 0.5857 | 0.1997 | 68 | 0.75 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0527 | 10.41 | 0.2520 | 9.944 | 0.5857 | 0.1997 | 68 | 0.79 | 121.33 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0523 | 10.46 | 0.5200 | 9.944 | 0.5857 | 0.1997 | 68 | 0.88 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0105 | 10.47 | 0.3600 | 9.944 | 0.5857 | 0.1997 | 68 | 0.90 | 121.00 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0035 | 10.50 | 0.2000 | 9.944 | 0.5857 | 0.1997 | 68 | 0.95 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0105 | 10.51 | 0.3400 | 9.944 | 0.5857 | 0.1997 | 68 | 0.97 | 121.03 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0234 | 10.55 | 0.1000 | 9.944 | 0.5857 | 0.1997 | 68 | 1.03 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0493 | 10.70 | 0.1000 | 9.944 | 0.5857 | 0.1997 | 68 | 1.29 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0524 | 10.71 | 0.0069 | 9.944 | 0.5857 | 0.1997 | 68 | 1.31 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0394 | 10.80 | 0.0000 | 9.944 | 0.5857 | 0.1997 | 68 | 1.46 | 121.32 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0521 | 10.95 | 0.0000 | 9.944 | 0.5857 | 0.1997 | 68 | 1.71 | 121.32 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0042 | 11.08 | 0.2900 | 9.944 | 0.5857 | 0.1997 | 68 | 1.93 | 121.99 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0452 | 11.10 | 0.0600 | 9.944 | 0.5857 | 0.1997 | 68 | 1.97 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0049 | 11.16 | 0.1807 | 9.944 | 0.5857 | 0.1997 | 68 | 2.08 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0483 | 11.30 | 0.4000 | 9.944 | 0.5857 | 0.1997 | 68 | 2.32 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0472 | 11.97 | 0.0900 | 9.944 | 0.5857 | 0.1997 | 68 | 3.45 | 121.30 | 0 |
| 121 | Acid Soluble Magnesium (9.8%) | 0325 | 12.05 | 0.7000 | 9.944 | 0.5857 | 0.1997 | 68 | 3.60 | 121.30 | 0 |
| 131 | Water Soluble Magnesium (%) | 0506 | 9.850 | 0.3000 | 10.15 | 0.4073 | 0.2325 | 6 | -0.66 | 131.99 | 0 |
| 131 | Water Soluble Magnesium (%) | 0518 | 9.850 | 0.1000 | 10.15 | 0.4073 | 0.2325 | 6 | -0.66 | 131.70 | 0 |
| 131 | Water Soluble Magnesium (%) | 0543 | 9.874 | 0.6160 | 10.15 | 0.4073 | 0.2325 | 6 | -0.60 | 131.30 | 0 |
| 131 | Water Soluble Magnesium (%) | 0510 | 10.22 | 0.0287 | 10.15 | 0.4073 | 0.2325 | 6 | 0.16 | 131.70 | 0 |
| 131 | Water Soluble Magnesium (%) | 0500 | 10.38 | 0.0000 | 10.15 | 0.4073 | 0.2325 | 6 | 0.50 | 131.00 | 0 |
| 131 | Water Soluble Magnesium (%) | 0444 | 10.73 | 0.3500 | 10.15 | 0.4073 | 0.2325 | 6 | 1.26 | 131.30 | 0 |
| 143 | Elemental Sulfur (%) | 0405 | 0.0165 | 0.0000 | 10.44 | 5.843 | 0.2280 | 5 | -1.78 | 143.00 | 0 |
| 143 | Elemental Sulfur (%) | 0390 | 12.45 | 0.7400 | 10.44 | 5.843 | 0.2280 | 5 | 0.34 | 143.99 | 0 |
| 143 | Elemental Sulfur (%) | 0472 | 12.80 | 0.0100 | 10.44 | 5.843 | 0.2280 | 5 | 0.40 | 143.99 | 0 |
| 143 | Elemental Sulfur (%) | 0255 | 13.40 | 0.3700 | 10.44 | 5.843 | 0.2280 | 5 | 0.51 | 143.99 | 0 |
| 143 | Elemental Sulfur (%) | 0291 | 13.54 | 0.0200 | 10.44 | 5.843 | 0.2280 | 5 | 0.53 | 143.99 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0444 | 12.68 | 0.3000 | 13.25 | 0.5429 | 0.1094 | 9 | -0.96 | 145.00 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0444 | 12.71 | 0.0300 | 13.25 | 0.5429 | 0.1094 | 9 | -0.92 | 145.99 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0106 | 12.82 | 0.1400 | 13.25 | 0.5429 | 0.1094 | 9 | -0.73 | 145.00 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0544 | 13.18 | 0.2300 | 13.25 | 0.5429 | 0.1094 | 9 | -0.12 | 145.00 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0405 | 13.20 | 0.0047 | 13.25 | 0.5429 | 0.1094 | 9 | -0.09 | 145.00 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0518 | 13.20 | 0.2000 | 13.25 | 0.5429 | 0.1094 | 9 | -0.08 | 145.99 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0220 | 13.70 | 0.0100 | 13.25 | 0.5429 | 0.1094 | 9 | 0.76 | 145.00 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0043 | 13.76 | 0.0500 | 13.25 | 0.5429 | 0.1094 | 9 | 0.86 | 145.00 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0027 | 14.00 | 0.0200 | 13.25 | 0.5429 | 0.1094 | 9 | 1.28 | 145.00 | 0 |
| 145 | Sulfate Sulfur, HCl soluble (%) | 0233 | 12.93 | 0.9200 | 13.25 | 0.5429 | 0.1094 | 9 | -0.54 | 145.00 | 1 |
| 146 | Total Sulfur in Liquid (%) | 0131 | 12.84 | 0.0200 | | | | 1 | | 146.99 | 0 |
| 148 | Total Sulfur (13%) | 0360 | 11.65* | 0.2500 | 13.19 | 0.5648 | 0.1975 | 51 | -2.73 | 148.00 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|--------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 148 | Total Sulfur (13%) | 0523 | 11.69* | 0.0000 | 13.19 | 0.5648 | 0.1975 | 51 | -2.65 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0501 | 12.19* | 0.4770 | 13.19 | 0.5648 | 0.1975 | 51 | -1.77 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0506 | 12.30* | 0.2000 | 13.19 | 0.5648 | 0.1975 | 51 | -1.57 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0451 | 12.45 | 0.5000 | 13.19 | 0.5648 | 0.1975 | 51 | -1.31 | 148.00 | 0 |
| 148 | Total Sulfur (13%) | 0117 | 12.55 | 0.1100 | 13.19 | 0.5648 | 0.1975 | 51 | -1.14 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0444 | 12.57 | 0.5300 | 13.19 | 0.5648 | 0.1975 | 51 | -1.10 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0230 | 12.70 | 0.0000 | 13.19 | 0.5648 | 0.1975 | 51 | -0.86 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0025 | 12.75 | 0.2200 | 13.19 | 0.5648 | 0.1975 | 51 | -0.77 | 148.00 | 0 |
| 148 | Total Sulfur (13%) | 0486 | 12.76 | 0.2100 | 13.19 | 0.5648 | 0.1975 | 51 | -0.77 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0177 | 12.78 | 0.2147 | 13.19 | 0.5648 | 0.1975 | 51 | -0.71 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0493 | 12.80 | 0.2000 | 13.19 | 0.5648 | 0.1975 | 51 | -0.69 | 148.00 | 0 |
| 148 | Total Sulfur (13%) | 0292 | 12.83 | 0.0100 | 13.19 | 0.5648 | 0.1975 | 51 | -0.64 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0368 | 12.83 | 0.1520 | 13.19 | 0.5648 | 0.1975 | 51 | -0.63 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0096 | 12.92 | 0.0400 | 13.19 | 0.5648 | 0.1975 | 51 | -0.47 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0444 | 12.96 | 0.0000 | 13.19 | 0.5648 | 0.1975 | 51 | -0.40 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0508 | 12.96 | 0.0400 | 13.19 | 0.5648 | 0.1975 | 51 | -0.40 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0231 | 12.98 | 0.1600 | 13.19 | 0.5648 | 0.1975 | 51 | -0.37 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0494 | 12.98 | 0.0106 | 13.19 | 0.5648 | 0.1975 | 51 | -0.36 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0371 | 13.00 | 0.0100 | 13.19 | 0.5648 | 0.1975 | 51 | -0.34 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0029 | 13.00 | 0.0800 | 13.19 | 0.5648 | 0.1975 | 51 | -0.33 | 148.00 | 0 |
| 148 | Total Sulfur (13%) | 0481 | 13.00 | 0.2000 | 13.19 | 0.5648 | 0.1975 | 51 | -0.33 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0073 | 13.02 | 0.4100 | 13.19 | 0.5648 | 0.1975 | 51 | -0.31 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0541 | 13.06 | 0.2100 | 13.19 | 0.5648 | 0.1975 | 51 | -0.23 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0500 | 13.09 | 0.0200 | 13.19 | 0.5648 | 0.1975 | 51 | -0.17 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0105 | 13.12 | 0.3300 | 13.19 | 0.5648 | 0.1975 | 51 | -0.13 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0037 | 13.18 | 0.0680 | 13.19 | 0.5648 | 0.1975 | 51 | -0.01 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0405 | 13.21 | 0.0000 | 13.19 | 0.5648 | 0.1975 | 51 | 0.04 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0023 | 13.26 | 0.0960 | 13.19 | 0.5648 | 0.1975 | 51 | 0.12 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0136 | 13.28 | 0.0600 | 13.19 | 0.5648 | 0.1975 | 51 | 0.16 | 148.00 | 0 |
| 148 | Total Sulfur (13%) | 0029 | 13.29 | 0.0200 | 13.19 | 0.5648 | 0.1975 | 51 | 0.18 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0157 | 13.30 | 0.2000 | 13.19 | 0.5648 | 0.1975 | 51 | 0.20 | 148.00 | 0 |
| 148 | Total Sulfur (13%) | 0394 | 13.30 | 0.0000 | 13.19 | 0.5648 | 0.1975 | 51 | 0.20 | 148.04 | 0 |
| 148 | Total Sulfur (13%) | 0040 | 13.35 | 0.1000 | 13.19 | 0.5648 | 0.1975 | 51 | 0.29 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0433 | 13.36 | 0.0300 | 13.19 | 0.5648 | 0.1975 | 51 | 0.30 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0157 | 13.40 | 0.4000 | 13.19 | 0.5648 | 0.1975 | 51 | 0.38 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0049 | 13.41 | 0.3600 | 13.19 | 0.5648 | 0.1975 | 51 | 0.39 | 148.00 | 0 |
| 148 | Total Sulfur (13%) | 0482 | 13.60 | 0.6000 | 13.19 | 0.5648 | 0.1975 | 51 | 0.73 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0452 | 13.65 | 0.0200 | 13.19 | 0.5648 | 0.1975 | 51 | 0.82 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0377 | 13.66 | 0.2400 | 13.19 | 0.5648 | 0.1975 | 51 | 0.84 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0354 | 13.70 | 0.1430 | 13.19 | 0.5648 | 0.1975 | 51 | 0.91 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0055 | 13.73 | 0.0500 | 13.19 | 0.5648 | 0.1975 | 51 | 0.95 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0102 | 13.73 | 0.1336 | 13.19 | 0.5648 | 0.1975 | 51 | 0.97 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0421 | 13.75 | 0.3000 | 13.19 | 0.5648 | 0.1975 | 51 | 1.00 | 148.07 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|-----------------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 148 | Total Sulfur (13%) | 0534 | 13.92 | 0.0600 | 13.19 | 0.5648 | 0.1975 | 51 | 1.30 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0220 | 13.93 | 0.0500 | 13.19 | 0.5648 | 0.1975 | 51 | 1.31 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0324 | 14.00 | 0.2000 | 13.19 | 0.5648 | 0.1975 | 51 | 1.44 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0476 | 14.03 | 0.1287 | 13.19 | 0.5648 | 0.1975 | 51 | 1.49 | 148.01 | 0 |
| 148 | Total Sulfur (13%) | 0527 | 14.27 | 0.1780 | 13.19 | 0.5648 | 0.1975 | 51 | 1.91 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0483 | 14.40 | 0.6000 | 13.19 | 0.5648 | 0.1975 | 51 | 2.15 | 148.07 | 0 |
| 148 | Total Sulfur (13%) | 0307 | 17.07 | 1.449 | 13.19 | 0.5648 | 0.1975 | 51 | 6.88 | 148.99 | 0 |
| 148 | Total Sulfur (13%) | 0515 | 11.23* | 1.892 | 13.19 | 0.5648 | 0.1975 | 51 | -3.46 | 148.07 | 1 |
| 148 | Total Sulfur (13%) | 0114 | 13.74 | 2.350 | 13.19 | 0.5648 | 0.1975 | 51 | 0.97 | 148.01 | 1 |
| 149 | Sulfur - HNO3 soluble (%) | 0423 | 12.80 | 0.1000 | 13.38 | 0.8676 | 0.1575 | 4 | -0.67 | 149.04 | 0 |
| 149 | Sulfur - HNO3 soluble (%) | 0521 | 13.02 | 0.0000 | 13.38 | 0.8676 | 0.1575 | 4 | -0.42 | 149.04 | 0 |
| 149 | Sulfur - HNO3 soluble (%) | 0519 | 13.03 | 0.2000 | 13.38 | 0.8676 | 0.1575 | 4 | -0.40 | 149.04 | 0 |
| 149 | Sulfur - HNO3 soluble (%) | 0524 | 14.67 | 0.3300 | 13.38 | 0.8676 | 0.1575 | 4 | 1.49 | 149.04 | 0 |
| 151 | Acid Soluble Arsenic (ppm) | 0501 | 0.0150 | 0.0020 | 0.3254 | 0.4383 | 0.1645 | 6 | -0.63 | 151.30 | 0 |
| 151 | Acid Soluble Arsenic (ppm) | 0394 | 0.0400 | 0.0000 | 0.3254 | 0.4383 | 0.1645 | 6 | -0.58 | 151.30 | 0 |
| 151 | Acid Soluble Arsenic (ppm) | 0255 | 0.0900 | 0.0220 | 0.3254 | 0.4383 | 0.1645 | 6 | -0.48 | 151.30 | 0 |
| 151 | Acid Soluble Arsenic (ppm) | 0519 | 0.2300 | 0.0600 | 0.3254 | 0.4383 | 0.1645 | 6 | -0.19 | 151.99 | 0 |
| 151 | Acid Soluble Arsenic (ppm) | 0527 | 0.5945 | 0.0030 | 0.3254 | 0.4383 | 0.1645 | 6 | 0.55 | 151.33 | 0 |
| 151 | Acid Soluble Arsenic (ppm) | 0368 | 2.250 | 0.9000 | 0.3254 | 0.4383 | 0.1645 | 6 | 3.91 | 151.30 | 0 |
| 151 | Acid Soluble Arsenic (ppm) | 0541 | 2.885 | 2.230 | 0.3254 | 0.4383 | 0.1645 | 6 | 5.20 | 151.30 | 1 |
| 151 | Acid Soluble Arsenic (ppm) | 0515 | 0.0000 | 0.0000 | 0.3254 | 0.4383 | 0.1645 | 6 | | 151.34 | 4 |
| 151 | Acid Soluble Arsenic (ppm) | 0515 | 0.2015 | 0.4029 | 0.3254 | 0.4383 | 0.1645 | 6 | | 151.33 | 4 |
| 165 | Acid Soluble Boron (%) | 0521 | 0.0010 | 0.0000 | 0.0023 | 0.0019 | 0.0007 | 3 | -0.70 | 165.30 | 0 |
| 165 | Acid Soluble Boron (%) | 0527 | 0.0015 | 0.0010 | 0.0023 | 0.0019 | 0.0007 | 3 | -0.44 | 165.99 | 0 |
| 165 | Acid Soluble Boron (%) | 0354 | 0.0045 | 0.0010 | 0.0023 | 0.0019 | 0.0007 | 3 | 1.14 | 165.30 | 0 |
| 165 | Acid Soluble Boron (%) | 0515 | 0.0000 | 0.0000 | 0.0023 | 0.0019 | 0.0007 | 3 | | 165.99 | 4 |
| 181 | Acid Soluble Cadmium (ppm) | 0501 | 0.0035 | 0.0010 | 0.0259 | 0.0312 | 0.0062 | 6 | -0.72 | 181.30 | 0 |
| 181 | Acid Soluble Cadmium (ppm) | 0527 | 0.0040 | 0.0000 | 0.0259 | 0.0312 | 0.0062 | 6 | -0.70 | 181.33 | 0 |
| 181 | Acid Soluble Cadmium (ppm) | 0519 | 0.0100 | 0.0000 | 0.0259 | 0.0312 | 0.0062 | 6 | -0.51 | 181.99 | 0 |
| 181 | Acid Soluble Cadmium (ppm) | 0524 | 0.0184 | 0.0130 | 0.0259 | 0.0312 | 0.0062 | 6 | -0.24 | 181.30 | 0 |
| 181 | Acid Soluble Cadmium (ppm) | 0037 | 0.0495 | 0.0030 | 0.0259 | 0.0312 | 0.0062 | 6 | 0.76 | 181.00 | 0 |
| 181 | Acid Soluble Cadmium (ppm) | 0394 | 0.0700 | 0.0200 | 0.0259 | 0.0312 | 0.0062 | 6 | 1.41 | 181.30 | 0 |
| 181 | Acid Soluble Cadmium (ppm) | 0368 | 0.0000 | 0.0000 | 0.0259 | 0.0312 | 0.0062 | 6 | | 181.30 | 4 |
| 181 | Acid Soluble Cadmium (ppm) | 0377 | 0.0000 | 0.0000 | 0.0259 | 0.0312 | 0.0062 | 6 | | 181.30 | 4 |
| 181 | Acid Soluble Cadmium (ppm) | 0515 | 0.0000 | 0.0000 | 0.0259 | 0.0312 | 0.0062 | 6 | | 181.34 | 4 |
| 181 | Acid Soluble Cadmium (ppm) | 0255 | 0.0120 | 0.0240 | 0.0259 | 0.0312 | 0.0062 | 6 | | 181.30 | 4 |
| 181 | Acid Soluble Cadmium (ppm) | 0541 | 0.0230 | 0.0460 | 0.0259 | 0.0312 | 0.0062 | 6 | | 181.30 | 4 |
| 181 | Acid Soluble Cadmium (ppm) | 0515 | 0.2018 | 0.4035 | 0.0259 | 0.0312 | 0.0062 | 6 | | 181.33 | 4 |
| 191 | Acid Soluble Chromium (ppm) | 0501 | 0.0545 | 0.0050 | 0.7476 | 0.8232 | 0.2116 | 10 | -0.84 | 191.30 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0037 | 0.1510 | 0.0120 | 0.7476 | 0.8232 | 0.2116 | 10 | -0.72 | 191.33 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0368 | 0.3000 | 0.0000 | 0.7476 | 0.8232 | 0.2116 | 10 | -0.54 | 191.30 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0220 | 0.3500 | 0.5000 | 0.7476 | 0.8232 | 0.2116 | 10 | -0.48 | 191.99 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0394 | 0.3650 | 0.1100 | 0.7476 | 0.8232 | 0.2116 | 10 | -0.46 | 191.30 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|-----------------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 191 | Acid Soluble Chromium (ppm) | 0541 | 0.4550 | 0.7100 | 0.7476 | 0.8232 | 0.2116 | 10 | -0.36 | 191.30 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0519 | 0.5950 | 0.0700 | 0.7476 | 0.8232 | 0.2116 | 10 | -0.19 | 191.99 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0476 | 1.241 | 0.1588 | 0.7476 | 0.8232 | 0.2116 | 10 | 0.60 | 191.99 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0527 | 3.628 | 0.1500 | 0.7476 | 0.8232 | 0.2116 | 10 | 3.50 | 191.33 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0035 | 3.650 | 0.4000 | 0.7476 | 0.8232 | 0.2116 | 10 | 3.53 | 191.30 | 0 |
| 191 | Acid Soluble Chromium (ppm) | 0377 | 0.0000 | 0.0000 | 0.7476 | 0.8232 | 0.2116 | 10 | | 191.30 | 4 |
| 191 | Acid Soluble Chromium (ppm) | 0515 | 0.1617 | 0.3234 | 0.7476 | 0.8232 | 0.2116 | 10 | | 191.34 | 4 |
| 191 | Acid Soluble Chromium (ppm) | 0515 | 2.357 | 4.714 | 0.7476 | 0.8232 | 0.2116 | 10 | | 191.33 | 4 |
| 202 | Acid Soluble Cobalt (ppm) | 0377 | 0.2000 | 0.0000 | 0.3364 | 0.1879 | 0.0442 | 9 | -0.67 | 202.30 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0476 | 0.2025 | 0.0022 | 0.3364 | 0.1879 | 0.0442 | 9 | -0.66 | 202.99 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0255 | 0.2260 | 0.0920 | 0.3364 | 0.1879 | 0.0442 | 9 | -0.54 | 202.99 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0519 | 0.2400 | 0.0400 | 0.3364 | 0.1879 | 0.0442 | 9 | -0.47 | 202.99 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0501 | 0.2470 | 0.0200 | 0.3364 | 0.1879 | 0.0442 | 9 | -0.44 | 202.34 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0527 | 0.2575 | 0.0170 | 0.3364 | 0.1879 | 0.0442 | 9 | -0.39 | 202.33 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0524 | 0.4862 | 0.0023 | 0.3364 | 0.1879 | 0.0442 | 9 | 0.74 | 202.30 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0368 | 0.5500 | 0.1000 | 0.3364 | 0.1879 | 0.0442 | 9 | 1.05 | 202.30 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0035 | 0.6970 | 0.1240 | 0.3364 | 0.1879 | 0.0442 | 9 | 1.77 | 202.30 | 0 |
| 202 | Acid Soluble Cobalt (ppm) | 0515 | 0.0000 | 0.0000 | 0.3364 | 0.1879 | 0.0442 | 9 | | 202.33 | 4 |
| 202 | Acid Soluble Cobalt (ppm) | 0515 | 0.0000 | 0.0000 | 0.3364 | 0.1879 | 0.0442 | 9 | | 202.34 | 4 |
| 221 | Acid Soluble Copper (%) | 0521 | 0.0001 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.84 | 221.32 | 0 |
| 221 | Acid Soluble Copper (%) | 0515 | 0.0002 | 0.0001 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.74 | 221.33 | 0 |
| 221 | Acid Soluble Copper (%) | 0043 | 0.0002 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.64 | 221.00 | 0 |
| 221 | Acid Soluble Copper (%) | 0531 | 0.0003 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.43 | 221.00 | 0 |
| 221 | Acid Soluble Copper (%) | 0394 | 0.0003 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.43 | 221.32 | 0 |
| 221 | Acid Soluble Copper (%) | 0377 | 0.0004 | 0.0001 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.33 | 221.30 | 0 |
| 221 | Acid Soluble Copper (%) | 0527 | 0.0004 | 0.0001 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.33 | 221.33 | 0 |
| 221 | Acid Soluble Copper (%) | 0368 | 0.0004 | 0.0002 | 0.0005 | 0.0005 | 0.0000 | 11 | -0.23 | 221.99 | 0 |
| 221 | Acid Soluble Copper (%) | 0255 | 0.0010 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | 0.98 | 221.30 | 0 |
| 221 | Acid Soluble Copper (%) | 0354 | 0.0020 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | 3.01 | 221.30 | 0 |
| 221 | Acid Soluble Copper (%) | 0519 | 0.0100 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | 19.23 | 221.99 | 0 |
| 221 | Acid Soluble Copper (%) | 0541 | 0.0000 | 0.0000 | 0.0005 | 0.0005 | 0.0000 | 11 | | 221.30 | 4 |
| 221 | Acid Soluble Copper (%) | 0515 | 0.0001 | 0.0002 | 0.0005 | 0.0005 | 0.0000 | 11 | | 221.99 | 4 |
| 241 | Acid Soluble Iron (%) | 0524 | 0.0005 | 0.0000 | 0.0017 | 0.0013 | 0.0010 | 7 | -0.86 | 241.99 | 0 |
| 241 | Acid Soluble Iron (%) | 0521 | 0.0006 | 0.0000 | 0.0017 | 0.0013 | 0.0010 | 7 | -0.79 | 241.32 | 0 |
| 241 | Acid Soluble Iron (%) | 0354 | 0.0010 | 0.0000 | 0.0017 | 0.0013 | 0.0010 | 7 | -0.51 | 241.30 | 0 |
| 241 | Acid Soluble Iron (%) | 0035 | 0.0016 | 0.0008 | 0.0017 | 0.0013 | 0.0010 | 7 | -0.09 | 241.30 | 0 |
| 241 | Acid Soluble Iron (%) | 0531 | 0.0023 | 0.0001 | 0.0017 | 0.0013 | 0.0010 | 7 | 0.36 | 241.00 | 0 |
| 241 | Acid Soluble Iron (%) | 0494 | 0.0026 | 0.0004 | 0.0017 | 0.0013 | 0.0010 | 7 | 0.60 | 241.33 | 0 |
| 241 | Acid Soluble Iron (%) | 0515 | 0.0036 | 0.0056 | 0.0017 | 0.0013 | 0.0010 | 7 | 1.30 | 241.33 | 0 |
| 241 | Acid Soluble Iron (%) | 0105 | 0.0003 | 0.0005 | 0.0017 | 0.0013 | 0.0010 | 7 | | 241.00 | 4 |
| 241 | Acid Soluble Iron (%) | 0515 | 0.0030 | 0.0060 | 0.0017 | 0.0013 | 0.0010 | 7 | | 241.99 | 4 |
| 251 | Acid Soluble Lead (ppm) | 0501 | 0.0335 | 0.0030 | 0.1720 | 0.1368 | 0.0992 | 8 | -0.93 | 251.30 | 0 |
| 251 | Acid Soluble Lead (ppm) | 0527 | 0.0360 | 0.0020 | 0.1720 | 0.1368 | 0.0992 | 8 | -0.91 | 251.33 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|-------------------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 251 | Acid Soluble Lead (ppm) | 0255 | 0.0920 | 0.0460 | 0.1720 | 0.1368 | 0.0992 | 8 | -0.54 | 251.30 | 0 |
| 251 | Acid Soluble Lead (ppm) | 0524 | 0.1724 | 0.0724 | 0.1720 | 0.1368 | 0.0992 | 8 | 0.00 | 251.30 | 0 |
| 251 | Acid Soluble Lead (ppm) | 0394 | 0.1750 | 0.0300 | 0.1720 | 0.1368 | 0.0992 | 8 | 0.02 | 251.30 | 0 |
| 251 | Acid Soluble Lead (ppm) | 0519 | 0.1950 | 0.0500 | 0.1720 | 0.1368 | 0.0992 | 8 | 0.15 | 251.99 | 0 |
| 251 | Acid Soluble Lead (ppm) | 0541 | 0.2950 | 0.3900 | 0.1720 | 0.1368 | 0.0992 | 8 | 0.82 | 251.30 | 0 |
| 251 | Acid Soluble Lead (ppm) | 0481 | 3.900 | 0.2000 | 0.1720 | 0.1368 | 0.0992 | 8 | 24.93 | 251.00 | 0 |
| 251 | Acid Soluble Lead (ppm) | 0515 | 0.0000 | 0.0000 | 0.1720 | 0.1368 | 0.0992 | 8 | | 251.33 | 4 |
| 251 | Acid Soluble Lead (ppm) | 0515 | 0.0000 | 0.0000 | 0.1720 | 0.1368 | 0.0992 | 8 | | 251.34 | 4 |
| 251 | Acid Soluble Lead (ppm) | 0368 | 0.4500 | 0.9000 | 0.1720 | 0.1368 | 0.0992 | 8 | | 251.30 | 4 |
| 261 | Acid Soluble Manganese (%) | 0531 | 0.0006 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | -1.47 | 261.12 | 0 |
| 261 | Acid Soluble Manganese (%) | 0527 | 0.0010 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | -0.88 | 261.35 | 0 |
| 261 | Acid Soluble Manganese (%) | 0521 | 0.0012 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | -0.58 | 261.34 | 0 |
| 261 | Acid Soluble Manganese (%) | 0096 | 0.0014 | 0.0001 | 0.0016 | 0.0007 | 0.0001 | 10 | -0.36 | 261.30 | 0 |
| 261 | Acid Soluble Manganese (%) | 0524 | 0.0015 | 0.0001 | 0.0016 | 0.0007 | 0.0001 | 10 | -0.21 | 261.99 | 0 |
| 261 | Acid Soluble Manganese (%) | 0494 | 0.0016 | 0.0002 | 0.0016 | 0.0007 | 0.0001 | 10 | 0.01 | 261.35 | 0 |
| 261 | Acid Soluble Manganese (%) | 0035 | 0.0020 | 0.0002 | 0.0016 | 0.0007 | 0.0001 | 10 | 0.61 | 261.30 | 0 |
| 261 | Acid Soluble Manganese (%) | 0501 | 0.0020 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | 0.61 | 261.99 | 0 |
| 261 | Acid Soluble Manganese (%) | 0105 | 0.0021 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | 0.76 | 261.15 | 0 |
| 261 | Acid Soluble Manganese (%) | 0105 | 0.0027 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | 1.65 | 261.12 | 0 |
| 261 | Acid Soluble Manganese (%) | 0354 | 0.0015 | 0.0010 | 0.0016 | 0.0007 | 0.0001 | 10 | -0.13 | 261.30 | 1 |
| 261 | Acid Soluble Manganese (%) | 0515 | 0.0000 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | | 261.35 | 4 |
| 261 | Acid Soluble Manganese (%) | 0515 | 0.0000 | 0.0000 | 0.0016 | 0.0007 | 0.0001 | 10 | | 261.99 | 4 |
| 281 | Acid Soluble Mercury (ppm) | 0527 | 0.0025 | 0.0010 | 0.0062 | 0.0038 | 0.0010 | 3 | -0.98 | 281.30 | 0 |
| 281 | Acid Soluble Mercury (ppm) | 0394 | 0.0060 | 0.0020 | 0.0062 | 0.0038 | 0.0010 | 3 | -0.04 | 281.30 | 0 |
| 281 | Acid Soluble Mercury (ppm) | 0519 | 0.0100 | 0.0000 | 0.0062 | 0.0038 | 0.0010 | 3 | 1.02 | 281.99 | 0 |
| 281 | Acid Soluble Mercury (ppm) | 0515 | 0.0000 | 0.0000 | 0.0062 | 0.0038 | 0.0010 | 3 | | 281.30 | 4 |
| 281 | Acid Soluble Mercury (ppm) | 0541 | 0.3000 | 0.6000 | 0.0062 | 0.0038 | 0.0010 | 3 | | 281.30 | 4 |
| 289 | Acid Soluble Molybdenum (ppm) | 0433 | 0.3360 | 0.0320 | 1.327 | 0.3498 | 0.0841 | 18 | -2.83 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0368 | 0.8000 | 0.0000 | 1.327 | 0.3498 | 0.0841 | 18 | -1.51 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0106 | 1.000 | 0.0000 | 1.327 | 0.3498 | 0.0841 | 18 | -0.94 | 289.33 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0494 | 1.074 | 0.0776 | 1.327 | 0.3498 | 0.0841 | 18 | -0.72 | 289.33 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0035 | 1.215 | 0.0700 | 1.327 | 0.3498 | 0.0841 | 18 | -0.32 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0377 | 1.215 | 0.2500 | 1.327 | 0.3498 | 0.0841 | 18 | -0.32 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0394 | 1.221 | 0.1700 | 1.327 | 0.3498 | 0.0841 | 18 | -0.30 | 289.32 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0521 | 1.229 | 0.0000 | 1.327 | 0.3498 | 0.0841 | 18 | -0.28 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0524 | 1.295 | 0.0191 | 1.327 | 0.3498 | 0.0841 | 18 | -0.09 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0476 | 1.305 | 0.0338 | 1.327 | 0.3498 | 0.0841 | 18 | -0.06 | 289.99 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0096 | 1.350 | 0.1000 | 1.327 | 0.3498 | 0.0841 | 18 | 0.07 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0527 | 1.364 | 0.0660 | 1.327 | 0.3498 | 0.0841 | 18 | 0.11 | 289.33 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0037 | 1.476 | 0.0710 | 1.327 | 0.3498 | 0.0841 | 18 | 0.42 | 289.33 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0501 | 1.488 | 0.0710 | 1.327 | 0.3498 | 0.0841 | 18 | 0.46 | 289.34 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0519 | 1.600 | 0.0400 | 1.327 | 0.3498 | 0.0841 | 18 | 0.78 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0220 | 1.750 | 0.1000 | 1.327 | 0.3498 | 0.0841 | 18 | 1.21 | 289.99 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|-------------------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 289 | Acid Soluble Molybdenum (ppm) | 0541 | 1.905 | 0.4100 | 1.327 | 0.3498 | 0.0841 | 18 | 1.65 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0255 | 2.779 | 0.0040 | 1.327 | 0.3498 | 0.0841 | 18 | 4.15 | 289.30 | 0 |
| 289 | Acid Soluble Molybdenum (ppm) | 0515 | 3.527 | 5.013 | 1.327 | 0.3498 | 0.0841 | 18 | 6.29 | 289.34 | 1 |
| 289 | Acid Soluble Molybdenum (ppm) | 0515 | 0.8985 | 1.797 | 1.327 | 0.3498 | 0.0841 | 18 | | 289.33 | 4 |
| 291 | Acid Soluble Nickel (ppm) | 0521 | 0.0384 | 0.0000 | 0.5518 | 0.3414 | 0.1184 | 13 | -1.50 | 291.30 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0377 | 0.2500 | 0.1000 | 0.5518 | 0.3414 | 0.1184 | 13 | -0.88 | 291.30 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0476 | 0.2767 | 0.0129 | 0.5518 | 0.3414 | 0.1184 | 13 | -0.81 | 291.99 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0501 | 0.3665 | 0.0450 | 0.5518 | 0.3414 | 0.1184 | 13 | -0.54 | 291.34 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0527 | 0.4270 | 0.0060 | 0.5518 | 0.3414 | 0.1184 | 13 | -0.37 | 291.33 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0220 | 0.4500 | 0.1000 | 0.5518 | 0.3414 | 0.1184 | 13 | -0.30 | 291.99 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0394 | 0.5700 | 0.0600 | 0.5518 | 0.3414 | 0.1184 | 13 | 0.05 | 291.30 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0519 | 0.6000 | 0.0600 | 0.5518 | 0.3414 | 0.1184 | 13 | 0.14 | 291.99 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0524 | 0.6171 | 0.0219 | 0.5518 | 0.3414 | 0.1184 | 13 | 0.19 | 291.30 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0037 | 0.6635 | 0.0530 | 0.5518 | 0.3414 | 0.1184 | 13 | 0.33 | 291.33 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0541 | 0.7850 | 0.2300 | 0.5518 | 0.3414 | 0.1184 | 13 | 0.68 | 291.30 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0368 | 1.250 | 0.3000 | 0.5518 | 0.3414 | 0.1184 | 13 | 2.05 | 291.30 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0506 | 4.265 | 0.5500 | 0.5518 | 0.3414 | 0.1184 | 13 | 10.88 | 291.99 | 0 |
| 291 | Acid Soluble Nickel (ppm) | 0035 | 1.625 | 1.090 | 0.5518 | 0.3414 | 0.1184 | 13 | 3.14 | 291.30 | 1 |
| 291 | Acid Soluble Nickel (ppm) | 0515 | 0.0000 | 0.0000 | 0.5518 | 0.3414 | 0.1184 | 13 | | 291.33 | 4 |
| 291 | Acid Soluble Nickel (ppm) | 0255 | 0.0015 | 0.0030 | 0.5518 | 0.3414 | 0.1184 | 13 | | 291.99 | 4 |
| 291 | Acid Soluble Nickel (ppm) | 0515 | 0.1334 | 0.2668 | 0.5518 | 0.3414 | 0.1184 | 13 | | 291.34 | 4 |
| 301 | Acid Soluble Selenium (ppm) | 0501 | 0.0075 | 0.0010 | 0.5745 | 0.6460 | 0.3434 | 7 | -0.79 | 301.30 | 0 |
| 301 | Acid Soluble Selenium (ppm) | 0255 | 0.1585 | 0.0530 | 0.5745 | 0.6460 | 0.3434 | 7 | -0.58 | 301.99 | 0 |
| 301 | Acid Soluble Selenium (ppm) | 0527 | 0.2675 | 0.0550 | 0.5745 | 0.6460 | 0.3434 | 7 | -0.43 | 301.33 | 0 |
| 301 | Acid Soluble Selenium (ppm) | 0519 | 0.2700 | 0.0200 | 0.5745 | 0.6460 | 0.3434 | 7 | -0.43 | 301.99 | 0 |
| 301 | Acid Soluble Selenium (ppm) | 0515 | 0.6315 | 0.1710 | 0.5745 | 0.6460 | 0.3434 | 7 | 0.08 | 301.34 | 0 |
| 301 | Acid Soluble Selenium (ppm) | 0515 | 1.143 | 1.644 | 0.5745 | 0.6460 | 0.3434 | 7 | 0.80 | 301.33 | 0 |
| 301 | Acid Soluble Selenium (ppm) | 0524 | 1.550 | 0.4600 | 0.5745 | 0.6460 | 0.3434 | 7 | 1.37 | 301.30 | 0 |
| 301 | Acid Soluble Selenium (ppm) | 0506 | 112.0 | 6.000 | 0.5745 | 0.6460 | 0.3434 | 7 | 155.95 | 301.99 | 2 |
| 301 | Acid Soluble Selenium (ppm) | 0368 | 0.0000 | 0.0000 | 0.5745 | 0.6460 | 0.3434 | 7 | | 301.30 | 4 |
| 301 | Acid Soluble Selenium (ppm) | 0541 | 0.1500 | 0.3000 | 0.5745 | 0.6460 | 0.3434 | 7 | | 301.30 | 4 |
| 311 | Sodium (%) | 0494 | 0.0025 | 0.0008 | 0.0074 | 0.0059 | 0.0067 | 4 | -0.84 | 311.33 | 0 |
| 311 | Sodium (%) | 0521 | 0.0031 | 0.0000 | 0.0074 | 0.0059 | 0.0067 | 4 | -0.73 | 311.32 | 0 |
| 311 | Sodium (%) | 0354 | 0.0090 | 0.0160 | 0.0074 | 0.0059 | 0.0067 | 4 | 0.27 | 311.99 | 0 |
| 311 | Sodium (%) | 0096 | 0.0150 | 0.0100 | 0.0074 | 0.0059 | 0.0067 | 4 | 1.30 | 311.99 | 0 |
| 321 | Acid Soluble Zinc (%) | 0494 | 0.0001 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.80 | 321.33 | 0 |
| 321 | Acid Soluble Zinc (%) | 0501 | 0.0001 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.80 | 321.99 | 0 |
| 321 | Acid Soluble Zinc (%) | 0515 | 0.0002 | 0.0001 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.77 | 321.33 | 0 |
| 321 | Acid Soluble Zinc (%) | 0521 | 0.0003 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.66 | 321.32 | 0 |
| 321 | Acid Soluble Zinc (%) | 0105 | 0.0005 | 0.0007 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.55 | 321.00 | 0 |
| 321 | Acid Soluble Zinc (%) | 0394 | 0.0006 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.44 | 321.32 | 0 |
| 321 | Acid Soluble Zinc (%) | 0220 | 0.0008 | 0.0001 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.33 | 321.99 | 0 |
| 321 | Acid Soluble Zinc (%) | 0527 | 0.0010 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | -0.14 | 321.33 | 0 |

| Analyte Group | Analyte (Units) | Lab Code | Lab Data | | Method Values | | | # Tests | Magruder CS Z Score | Your Method | Flag |
|---------------|-----------------------|----------|----------|--------|---------------|--------|--------|---------|---------------------|-------------|------|
| | | | Value | Range | Rob Mean | Rob SD | R-bar | | | | |
| 321 | Acid Soluble Zinc (%) | 0354 | 0.0020 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | 0.59 | 321.30 | 0 |
| 321 | Acid Soluble Zinc (%) | 0531 | 0.0024 | 0.0002 | 0.0012 | 0.0014 | 0.0002 | 12 | 0.89 | 321.00 | 0 |
| 321 | Acid Soluble Zinc (%) | 0428 | 0.0033 | 0.0003 | 0.0012 | 0.0014 | 0.0002 | 12 | 1.51 | 321.00 | 0 |
| 321 | Acid Soluble Zinc (%) | 0043 | 0.0056 | 0.0005 | 0.0012 | 0.0014 | 0.0002 | 12 | 3.20 | 321.00 | 0 |
| 321 | Acid Soluble Zinc (%) | 0255 | 0.0000 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | | 321.30 | 4 |
| 321 | Acid Soluble Zinc (%) | 0377 | 0.0000 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | | 321.30 | 4 |
| 321 | Acid Soluble Zinc (%) | 0541 | 0.0000 | 0.0000 | 0.0012 | 0.0014 | 0.0002 | 12 | | 321.32 | 4 |
| 321 | Acid Soluble Zinc (%) | 0515 | 0.0001 | 0.0002 | 0.0012 | 0.0014 | 0.0002 | 12 | | 321.99 | 4 |
| 321 | Acid Soluble Zinc (%) | 0368 | 0.0008 | 0.0016 | 0.0012 | 0.0014 | 0.0002 | 12 | | 321.99 | 4 |

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier and a 4 flag indicates rejected due to 0 value submitted. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an astrix indicates that the value is lower than the Analyte value less the IA. Method or Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.