

AFPC Rock Check Program

Sample No. 2014-09

| | Method # | # of Anal. | Grand Median | Std Dev |
|--|----------|------------|--------------|-------------|
| Moisture | | | | |
| Ground Sample AFPC IX.2.A | 101 | 30 | 0.84 | 0.109 |
| Other (describe) | 102 | | | |
| Method Group 100 | | 30 | 0.84 | 0.11 |
| P₂O₅ | | | | |
| Gravimetric AFPC IX.3.B | 201 | 3 | 31.24 | 0.142 |
| ICP-induced coupled plasma AFPC IX.3.D | 202 | 5 | 31.26 | 0.052 |
| Photometric-AFPC IX.3.C | 203 | 17 | 31.21 | 0.209 |
| Automated -AOAC 978.01-15th | 204 | 11 | 31.08 | 0.228 |
| Other(describe) | 205 | | | |
| Method Group 200 | | 36 | 31.19 | 0.19 |
| P₂O₅ (on Dry Basis) | | | | |
| Gravimetric AFPC IX.3.B | 211 | 3 | 31.46 | 0.093 |
| ICP-induced coupled plasma AFPC IX.3.D | 212 | 5 | 31.54 | 0.069 |
| Photometric-AFPC IX.3.C | 213 | 10 | 31.51 | 0.067 |
| Automated -AOAC 978.01-15th | 214 | 11 | 31.35 | 0.198 |
| Other(describe) | 215 | | | |
| Method Group 210 | | 29 | 31.48 | 0.17 |
| Fe₂O₃ | | | | |
| Atomic Absorption-AFPC IX.6.B | 301 | 4 | 1.01 | 0.069 |
| ICP-induced coupled plasma-AFPC IX.6.C | 302 | 28 | 1.02 | 0.035 |
| Other(describe) | 303 | 2 | 1.32 | 0.004 |
| Method Group 300 | | 34 | 1.02 | 0.04 |
| Al₂O₃ | | | | |
| Atomic Absorption-AFPC IX.7.B | 401 | 3 | 1.09 | 0.067 |
| ICP-induced coupled plasma-AFPC IX.7.C | 402 | 28 | 1.11 | 0.043 |
| Other(describe) | 403 | 2 | 1.63 | 0.007 |
| Method Group 400 | | 33 | 1.11 | 0.07 |
| MgO | | | | |
| Atomic Absorption-AFPC IX.8.A | 501 | 7 | 0.42 | 0.033 |
| ICP-induced coupled plasma-AFPC IX.8.B | 502 | 26 | 0.41 | 0.009 |
| Other(describe) | 503 | 2 | 0.42 | 0.030 |
| Method Group 500 | | 35 | 0.41 | 0.01 |
| Acid Insoluble | | | | |
| Insoluble-AFPC IX.4.A | 601 | 22 | 7.63 | 0.118 |
| Other(describe) | 602 | 3 | 7.22 | 0.244 |
| Method Group 600 | | 25 | 7.62 | 0.18 |
| Carbon Dioxide | | | | |
| Gasometric-AFPC IX.13.B | 651 | 15 | 3.62 | 0.261 |
| Other(describe) | 652 | 7 | 4.00 | 1.554 |
| Method Group 650 | | 22 | 3.74 | 0.33 |
| CaO | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 701 | | | |
| ICP-induced coupled plasma-AFPC IX.12.D | 702 | 21 | 45.70 | 0.243 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 703 | | | |
| Permanganate | 704 | 4 | 45.42 | 0.184 |
| EDTA Volumetric-AFPC IX.12.C | 705 | 4 | 45.50 | 0.244 |
| Other(describe) | 706 | 7 | 46.11 | 0.576 |
| Method Group 700 | | 36 | 45.68 | 0.44 |
| CaO (on Dry Basis) | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 711 | | | |
| ICP-induced coupled plasma-AFPC IX.12.D | 712 | 15 | 46.13 | 0.130 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 713 | | | |
| Permanganate | 714 | 3 | 45.73 | 0.344 |
| EDTA Volumetric-AFPC IX.12.C | 715 | 4 | 45.93 | 0.167 |
| Other(describe) | 716 | 7 | 46.34 | 0.606 |
| Method Group 710 | | 28 | 46.10 | 0.34 |

| | Method # | # of Anal. | Grand Median | Std Dev |
|---|----------|------------|--------------|-------------|
| Fluorine, F | | | | |
| Volumetric-AFPC IX.14.A | 801 | | | |
| Specific Ion Electrode-AFPC IX.14.B | 802 | 21 | 3.60 | 0.160 |
| Other (describe) | 803 | 2 | 3.62 | 0.000 |
| Method Group 800 | | 23 | 3.60 | 0.14 |
| Arsenic, As | | | | |
| Atomic Absorption | 911 | 2 | 6.2 | 1.34 |
| ICP-induced coupled plasma-AFPC IX.15.B | 912 | 9 | 8.2 | 2.09 |
| Other(describe) | 913 | 2 | 8.0 | 0.38 |
| Method Group 900 | | 13 | 8.0 | 2.09 |
| Cadmium, Cd | | | | |
| Atomic Absorption-AFPC IX.11.A | 921 | 1 | 7 | 0.0 |
| ICP-induced coupled plasma-AFPC IX.11.B | 922 | 12 | 4 | 0.6 |
| Other(describe) | 923 | 1 | 5 | 0.0 |
| Method Group 910 | | 14 | 5 | 0.7 |
| Cobalt, Co | | | | |
| Atomic Absorption-AFPC IX.16.B | 931 | 1 | 1 | 0.0 |
| ICP-induced coupled plasma-AFPC IX.16.A | 932 | 11 | 5 | 0.8 |
| Other(describe) | 933 | 1 | 5 | 0.0 |
| Method Group 920 | | 13 | 5 | 0.9 |
| Mercury, Hg | | | | |
| Atomic Absorption-AFPC IX.16.B | 941 | 3 | 0.0 | 0.06 |
| ICP-induced coupled plasma-AFPC IX.16.A | 942 | 2 | 0.4 | 0.18 |
| Other(describe) | 943 | 1 | 0.5 | 0.00 |
| Method Group 930 | | 6 | 0.2 | 0.30 |
| Molybdenum, Mo | | | | |
| Atomic Absorption-AFPC IX.16.B | 951 | 1 | 20 | 0.0 |
| ICP-induced coupled plasma-AFPC IX.16.A | 952 | 7 | 6 | 0.8 |
| Other(describe) | 953 | 1 | 6 | 0.0 |
| Method Group 940 | | 9 | 6 | 0.7 |
| Nickel, Ni | | | | |
| Atomic Absorption-AFPC IX.16.B | 961 | 1 | 20 | 0.0 |
| ICP-induced coupled plasma-AFPC IX.16.A | 962 | 12 | 19 | 0.7 |
| Other(describe) | 963 | 1 | 22 | 0.0 |
| Method Group 950 | | 14 | 19 | 0.4 |
| Lead, Pb | | | | |
| Atomic Absorption-AFPC IX.16.B | 971 | 1 | 9 | 0.0 |
| ICP-induced coupled plasma-AFPC IX.16.A | 972 | 10 | 13 | 5.6 |
| Other(describe) | 973 | 1 | 12 | 0.0 |
| Method Group 960 | | 12 | 12 | 5.2 |
| Selenium, Se | | | | |
| Atomic Absorption-AFPC IX.16.B | 981 | 2 | 4 | 1.2 |
| ICP-induced coupled plasma-AFPC IX.16.A | 982 | 3 | 2 | 0.7 |
| Other(describe) | 983 | 1 | 3 | 0.0 |
| Method Group 970 | | 6 | 3 | 1.4 |
| Zinc, Zn | | | | |
| Atomic Absorption-AFPC IX.16.B | 991 | 2 | 101 | 13 |
| ICP-induced coupled plasma-AFPC IX.16.A | 992 | 12 | 79 | 7 |
| Other(describe) | 993 | 1 | 74 | 0 |
| Method Group 980 | | 15 | 80 | 7 |

| 101 | Ground Sample AFPC IX.2.A | |
|----------------|---------------------------|------------------|
| Lab | % | H ₂ O |
| 266 | 1.20 | -3.276 |
| 21 | 1.04 | -1.810 |
| 13 | 1.02 | -1.626 |
| 10 | 0.99 | -1.306 |
| Std Dev | 0.95 | -1.000 |
| 16 | 0.94 | -0.893 |
| 13 | 0.93 | -0.802 |
| 9 | 0.92 | -0.664 |
| 16 | 0.92 | -0.664 |
| 10 | 0.91 | -0.573 |
| 6 | 0.88 | -0.344 |
| 6 | 0.87 | -0.252 |
| 49 | 0.86 | -0.160 |
| 26 | 0.86 | -0.133 |
| 21 | 0.86 | -0.115 |
| 75 | 0.85 | -0.069 |
| Median | 0.84 | 0.000 |
| 15 | 0.84 | 0.069 |
| 15 | 0.82 | 0.252 |
| 9 | 0.80 | 0.389 |
| 55 | 0.80 | 0.389 |
| 30 | 0.79 | 0.481 |
| 75 | 0.79 | 0.527 |
| 24 | 0.77 | 0.664 |
| 24 | 0.77 | 0.710 |
| 35 | 0.74 | 0.985 |
| Std Dev | 0.73 | 1.000 |
| 241 | 0.72 | 1.168 |
| 275 | 0.65 | 1.764 |
| 77 | 0.38 | 4.238 |
| 77 | 0.30 | 4.971 |
| 27 | 0.29 | 5.062 |
| 35 | 0.25 | 5.429 |

| 102 | Other (describe) | |
|---------------|------------------|------------------|
| Lab | % | H ₂ O |
| Median | 0.00 | 0.000 |

| 201 | Gravimetric AFPC IX.3.B | |
|----------------|-------------------------|---------------|
| Lab | % | P2O5 |
| 77 | 31.48 | -1.693 |
| Std Dev | 31.38 | -1.000 |

| | | |
|---------------|--------------|--------------|
| 241 | 31.24 | 0.000 |
| Median | 31.24 | 0.000 |
| 55 | 31.10 | 0.987 |

| 202 | ICP-induced coupled plasma AFPC IX.3.D | | |
|----------------|--|---------------|--|
| Lab | % | P2O5 | |
| 266 | 34.55 | -63.076 | |
| Std Dev | 31.31 | -1.000 | |
| 10 | 31.27 | -0.287 | |
| 10 | 31.26 | 0.000 | |
| Median | 31.26 | 0.000 | |
| Std Dev | 31.20 | 1.000 | |
| 16 | 31.20 | 1.053 | |
| 16 | 31.18 | 1.531 | |

| 203 | Photometric-AFPC IX.3.C | | |
|----------------|-------------------------|---------------|--|
| Lab | % | P2O5 | |
| 35 | 31.46 | -1.196 | |
| Std Dev | 31.42 | -1.000 | |
| 35 | 31.40 | -0.909 | |
| 9 | 31.39 | -0.837 | |
| 45 | 31.35 | -0.670 | |
| 30 | 31.33 | -0.574 | |
| 9 | 31.29 | -0.383 | |
| 49 | 31.27 | -0.287 | |
| 6 | 31.21 | 0.000 | |
| 6 | 31.21 | 0.000 | |
| Median | 31.21 | 0.000 | |
| 78 | 31.20 | 0.072 | |
| 45 | 31.06 | 0.718 | |
| 92 | 31.06 | 0.718 | |
| 26 | 31.05 | 0.766 | |
| 92 | 31.02 | 0.909 | |
| Std Dev | 31.00 | 1.000 | |
| 78 | 30.88 | 1.603 | |
| 60 | 30.55 | 3.159 | |
| 27 | 29.78 | 6.844 | |

| 204 | Automated -AOAC 978.01-15th | | |
|----------------|-----------------------------|---------------|--|
| Lab | % | P2O5 | |
| 13 | 31.40 | -1.384 | |
| Std Dev | 31.31 | -1.000 | |
| 13 | 31.30 | -0.945 | |
| 24 | 31.19 | -0.461 | |

| | | |
|----------------|--------------|--------------|
| 24 | 31.18 | -0.417 |
| 75 | 31.14 | -0.242 |
| 75 | 31.08 | 0.000 |
| Median | 31.08 | 0.000 |
| 21 | 30.97 | 0.483 |
| 15 | 30.95 | 0.593 |
| Std Dev | 30.85 | 1.000 |
| 15 | 30.81 | 1.208 |
| 21 | 30.79 | 1.274 |
| 77 | 30.18 | 3.954 |

| 205 | Other(describe) | | |
|---------------|-----------------|--------------|--|
| Lab | % | P2O5 | |
| Median | 0.00 | 0.000 | |

| 211 | Gravimetric AFPC IX.3.B | | | |
|----------------|-------------------------|---------------|----|--|
| Lab | % | P2O5 | dB | |
| 77 | 31.60 | -1.453 | | |
| Std Dev | 31.56 | -1.000 | | |
| 241 | 31.46 | 0.000 | | |
| Median | 31.46 | 0.000 | | |
| Std Dev | 31.37 | 1.000 | | |
| 55 | 31.35 | 1.227 | | |

| 212 | ICP-induced coupled plasma AFPC IX.3.D | | | |
|----------------|--|---------------|----|--|
| Lab | % | P2O5 | dB | |
| 266 | 34.97 | -49.433 | | |
| Std Dev | 31.61 | -1.000 | | |
| 10 | 31.58 | -0.586 | | |
| 10 | 31.54 | 0.000 | | |
| Median | 31.54 | 0.000 | | |
| 16 | 31.49 | 0.754 | | |
| Std Dev | 31.47 | 1.000 | | |
| 16 | 31.47 | 1.004 | | |

| 213 | Photometric-AFPC IX.3.C | | | |
|----------------|-------------------------|---------------|----|--|
| Lab | % | P2O5 | dB | |
| 35 | 31.69 | -2.656 | | |
| 9 | 31.67 | -2.387 | | |
| Std Dev | 31.58 | -1.000 | | |
| 30 | 31.58 | -0.970 | | |
| 9 | 31.54 | -0.418 | | |
| 49 | 31.54 | -0.402 | | |
| Median | 31.51 | 0.000 | | |

| | | |
|----------------|--------------|--------------|
| 6 | 31.49 | 0.402 |
| 6 | 31.48 | 0.450 |
| 35 | 31.48 | 0.527 |
| Std Dev | 31.45 | 1.000 |
| 26 | 31.32 | 2.909 |
| 27 | 29.87 | 24.478 |

| 214 | Automated -AOAC 978.01-15th | | | |
|----------------|-----------------------------|---------------|----|--|
| Lab | % | P2O5 | dB | |
| 13 | 31.72 | -1.883 | | |
| 13 | 31.59 | -1.227 | | |
| Std Dev | 31.54 | -1.000 | | |
| 24 | 31.43 | -0.400 | | |
| 24 | 31.42 | -0.357 | | |
| 75 | 31.38 | -0.177 | | |
| 75 | 31.35 | 0.000 | | |
| Median | 31.35 | 0.000 | | |
| 21 | 31.24 | 0.554 | | |
| 15 | 31.20 | 0.745 | | |
| Std Dev | 31.15 | 1.000 | | |
| 21 | 31.11 | 1.179 | | |
| 15 | 31.06 | 1.428 | | |
| 77 | 30.27 | 5.445 | | |

| 215 | Other(describe) | | | |
|---------------|-----------------|--------------|----|--|
| Lab | % | P2O5 | dB | |
| Median | 0.00 | 0.000 | | |

| 301 | Atomic Absorption-AFPC IX.6.B | | |
|----------------|-------------------------------|---------------|--|
| Lab | % | Fe2O3 | |
| 55 | 1.25 | -3.477 | |
| Std Dev | 1.08 | -1.000 | |
| 30 | 1.01 | 0.000 | |
| 241 | 1.01 | 0.000 | |
| Median | 1.01 | 0.000 | |
| Std Dev | 0.94 | 1.000 | |
| 60 | 0.88 | 1.883 | |

| 302 | ICP-induced coupled plasma-AFPC IX.6.C | | |
|-----|--|--------|--|
| Lab | % | Fe2O3 | |
| 266 | 1.29 | -7.823 | |
| 35 | 1.18 | -4.636 | |
| 78 | 1.18 | -4.636 | |
| 78 | 1.15 | -3.622 | |

| | | |
|---------|------|--------|
| 75 | 1.07 | -1.556 |
| 75 | 1.07 | -1.357 |
| Std Dev | 1.05 | -1.000 |
| 6 | 1.05 | -0.869 |
| 6 | 1.05 | -0.724 |
| 45 | 1.03 | -0.290 |
| 10 | 1.03 | -0.145 |
| 15 | 1.03 | -0.145 |
| 9 | 1.02 | 0.000 |
| 10 | 1.02 | 0.000 |
| 15 | 1.02 | 0.000 |
| 16 | 1.02 | 0.000 |
| 16 | 1.02 | 0.000 |
| 45 | 1.02 | 0.000 |
| Median | 1.02 | 0.000 |
| 13 | 1.02 | 0.145 |
| 13 | 1.02 | 0.145 |
| 9 | 1.01 | 0.290 |
| 21 | 1.00 | 0.579 |
| 21 | 1.00 | 0.579 |
| 35 | 1.00 | 0.579 |
| 92 | 0.99 | 0.869 |
| Std Dev | 0.99 | 1.000 |
| 49 | 0.98 | 1.159 |
| 92 | 0.98 | 1.159 |
| 24 | 0.92 | 2.897 |
| 24 | 0.89 | 3.766 |

| 303 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | Fe2O3 |
| 77 | 1.32 | -1.340 |
| Std Dev | 1.32 | -1.000 |
| Median | 1.32 | 0.000 |
| Std Dev | 1.31 | 1.000 |
| 77 | 1.31 | 1.340 |

| 401 Atomic Absorption-AFPC IX.6.B | | |
|-----------------------------------|------|--------|
| Lab | % | Al2O3 |
| 55 | 1.25 | -2.382 |
| Std Dev | 1.16 | -1.000 |
| 30 | 1.09 | 0.000 |
| Median | 1.09 | 0.000 |
| 241 | 1.07 | 0.298 |

| 402 ICP-induced coupled plasma-AFPC IX.6.C | | |
|--|------|---------|
| Lab | % | Al2O3 |
| 266 | 1.70 | -13.866 |
| 35 | 1.46 | -8.273 |
| 78 | 1.31 | -4.661 |
| 78 | 1.30 | -4.544 |
| 35 | 1.21 | -2.447 |
| 92 | 1.19 | -1.981 |
| 92 | 1.16 | -1.282 |
| 24 | 1.16 | -1.165 |
| 75 | 1.15 | -1.045 |
| Std Dev | 1.15 | -1.000 |
| 24 | 1.15 | -0.932 |
| 75 | 1.13 | -0.578 |
| 6 | 1.11 | -0.117 |
| 6 | 1.11 | 0.000 |
| 9 | 1.11 | 0.000 |
| 16 | 1.11 | 0.000 |
| 16 | 1.11 | 0.000 |
| 21 | 1.11 | 0.000 |
| Median | 1.11 | 0.000 |
| 9 | 1.10 | 0.117 |
| 10 | 1.10 | 0.117 |
| 10 | 1.10 | 0.117 |
| 45 | 1.10 | 0.117 |
| 13 | 1.10 | 0.233 |
| 21 | 1.09 | 0.350 |
| 49 | 1.09 | 0.350 |
| 13 | 1.08 | 0.583 |
| 45 | 1.08 | 0.583 |
| Std Dev | 1.06 | 1.000 |
| 15 | 1.03 | 1.864 |
| 15 | 1.02 | 1.981 |

| 403 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | Al2O3 |
| 77 | 1.64 | -1.340 |
| Std Dev | 1.64 | -1.000 |
| Median | 1.63 | 0.000 |
| Std Dev | 1.62 | 1.000 |
| 77 | 1.62 | 1.340 |

| 501 Atomic Absorption-AFPC IX.8.A | | |
|-----------------------------------|---|-----|
| Lab | % | MgO |

| | | |
|---------|------|--------|
| 30 | 0.48 | -1.807 |
| Std Dev | 0.45 | -1.000 |
| 35 | 0.45 | -0.903 |
| 55 | 0.44 | -0.602 |
| 35 | 0.42 | 0.000 |
| Median | 0.42 | 0.000 |
| 241 | 0.40 | 0.572 |
| 27 | 0.40 | 0.602 |
| Std Dev | 0.39 | 1.000 |
| 60 | 0.37 | 1.506 |

| 502 ICP-induced coupled plasma-AFPC IX.8.B | | |
|--|------|--------|
| Lab | % | MgO |
| 78 | 0.42 | -1.072 |
| Std Dev | 0.41 | -1.000 |
| 6 | 0.41 | -0.536 |
| 6 | 0.41 | -0.536 |
| 9 | 0.41 | -0.536 |
| 10 | 0.41 | -0.536 |
| 21 | 0.41 | -0.536 |
| 49 | 0.41 | -0.536 |
| 9 | 0.41 | 0.000 |
| 10 | 0.41 | 0.000 |
| 13 | 0.41 | 0.000 |
| 16 | 0.41 | 0.000 |
| 16 | 0.41 | 0.000 |
| 24 | 0.41 | 0.000 |
| 24 | 0.41 | 0.000 |
| Median | 0.41 | 0.000 |
| 13 | 0.40 | 0.536 |
| 21 | 0.40 | 0.536 |
| 45 | 0.40 | 0.536 |
| 45 | 0.40 | 0.536 |
| 266 | 0.40 | 0.536 |
| Std Dev | 0.40 | 1.000 |
| 78 | 0.40 | 1.072 |
| 15 | 0.39 | 1.608 |
| 75 | 0.39 | 2.039 |
| 75 | 0.39 | 2.136 |
| 15 | 0.39 | 2.144 |
| 92 | 0.37 | 3.752 |
| 92 | 0.37 | 3.752 |

| 503 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | MgO |
| 77 | 0.46 | -1.340 |
| Std Dev | 0.45 | -1.000 |
| Median | 0.42 | 0.000 |
| Std Dev | 0.39 | 1.000 |
| 77 | 0.38 | 1.340 |

| 601 Insoluble-AFPC IX.4.A | | |
|---------------------------|------|--------|
| Lab | % | Al |
| 45 | 7.88 | -2.089 |
| 45 | 7.83 | -1.667 |
| 49 | 7.80 | -1.414 |
| Std Dev | 7.75 | -1.000 |
| 24 | 7.72 | -0.739 |
| 15 | 7.72 | -0.696 |
| 16 | 7.71 | -0.612 |
| 15 | 7.69 | -0.485 |
| 16 | 7.69 | -0.485 |
| 10 | 7.68 | -0.359 |
| 35 | 7.67 | -0.317 |
| 9 | 7.65 | -0.148 |
| Median | 7.63 | 0.000 |
| 13 | 7.62 | 0.148 |
| 35 | 7.59 | 0.359 |
| 24 | 7.58 | 0.443 |
| 13 | 7.56 | 0.612 |
| 30 | 7.55 | 0.696 |
| 10 | 7.54 | 0.781 |
| Std Dev | 7.51 | 1.000 |
| 21 | 7.46 | 1.456 |
| 9 | 7.44 | 1.625 |
| 26 | 7.43 | 1.709 |
| 55 | 7.25 | 3.229 |
| 21 | 7.12 | 4.368 |

| 602 Other(describe) | | |
|---------------------|------|--------|
| Lab | % | Al |
| 266 | 7.87 | -2.660 |
| Std Dev | 7.46 | -1.000 |
| 6 | 7.22 | 0.000 |
| Median | 7.22 | 0.000 |
| 6 | 7.22 | 0.020 |

| 651 Gasometric-AFPC IX.13.B | | | |
|-----------------------------|-------------|-----|---------------|
| Lab | % | CO2 | |
| 9 | 3.88 | | -1.015 |
| Std Dev | 3.88 | | -1.000 |
| 24 | 3.82 | | -0.766 |
| 13 | 3.81 | | -0.727 |
| 30 | 3.78 | | -0.632 |
| 9 | 3.77 | | -0.593 |
| 24 | 3.76 | | -0.555 |
| 13 | 3.73 | | -0.421 |
| 21 | 3.62 | | 0.000 |
| Median | 3.62 | | 0.000 |
| 49 | 3.59 | | 0.096 |
| 6 | 3.57 | | 0.191 |
| 21 | 3.46 | | 0.593 |
| 6 | 3.39 | | 0.861 |
| Std Dev | 3.35 | | 1.000 |
| 15 | 3.25 | | 1.397 |
| 15 | 3.23 | | 1.474 |
| 77 | 3.10 | | 1.972 |

| 652 Other(describe) | | | |
|---------------------|-------------|-----|---------------|
| Lab | % | CO2 | |
| 35 | 7.53 | | -2.275 |
| 35 | 7.50 | | -2.255 |
| Std Dev | 5.55 | | -1.000 |
| 55 | 4.06 | | -0.042 |
| 78 | 4.00 | | 0.000 |
| 78 | 4.00 | | 0.000 |
| Median | 4.00 | | 0.000 |
| 275 | 3.40 | | 0.383 |
| 266 | 3.31 | | 0.441 |

| 701 Gravimetric sulfate-AFPC IX.12.A | | | |
|--------------------------------------|-------------|-----|--------------|
| Lab | % | CaO | |
| Median | 0.00 | | 0.000 |

| 702 ICP-induced coupled plasma-AFPC IX.12.D | | | |
|---|-------|-----|--------|
| Lab | % | CaO | |
| 49 | 46.08 | | -1.583 |
| 21 | 46.05 | | -1.460 |
| 45 | 46.01 | | -1.295 |
| 92 | 46.01 | | -1.295 |
| 10 | 45.99 | | -1.212 |

| | | | |
|----------------|--------------|--|---------------|
| Std Dev | 45.94 | | -1.000 |
| 21 | 45.88 | | -0.738 |
| 10 | 45.84 | | -0.594 |
| 9 | 45.82 | | -0.491 |
| 6 | 45.77 | | -0.305 |
| 16 | 45.71 | | -0.058 |
| 75 | 45.70 | | 0.000 |
| Median | 45.70 | | 0.000 |
| 6 | 45.70 | | 0.004 |
| 16 | 45.66 | | 0.148 |
| 13 | 45.63 | | 0.272 |
| 13 | 45.61 | | 0.355 |
| 45 | 45.55 | | 0.602 |
| 9 | 45.55 | | 0.623 |
| Std Dev | 45.45 | | 1.000 |
| 92 | 45.26 | | 1.798 |
| 75 | 45.09 | | 2.482 |
| 78 | 43.35 | | 9.673 |
| 78 | 42.76 | | 12.126 |

| 703 Ceric Sulfate volumetric-AFPC IX.12.B | | | |
|---|-------------|-----|--------------|
| Lab | % | CaO | |
| Median | 0.00 | | 0.000 |

| 704 Permanganate | | | |
|------------------|--------------|-----|---------------|
| Lab | % | CaO | |
| 60 | 45.65 | | -1.265 |
| Std Dev | 45.60 | | -1.000 |
| 30 | 45.43 | | -0.068 |
| Median | 45.42 | | 0.000 |
| 241 | 45.41 | | 0.068 |
| Std Dev | 45.23 | | 1.000 |
| 27 | 44.74 | | 3.687 |

| 705 EDTA Volumetric-AFPC IX.12.C | | | |
|----------------------------------|--------------|-----|---------------|
| Lab | % | CaO | |
| 275 | 46.09 | | -2.414 |
| Std Dev | 45.74 | | -1.000 |
| 35 | 45.60 | | -0.409 |
| Median | 45.50 | | 0.000 |
| 35 | 45.40 | | 0.409 |
| 266 | 45.38 | | 0.491 |

| 706 Other(describe) | | | |
|---------------------|--------------|-----|---------------|
| Lab | % | CaO | |
| 55 | 48.25 | | -3.712 |
| Std Dev | 46.69 | | -1.000 |
| 77 | 46.20 | | -0.156 |
| 24 | 46.19 | | -0.130 |
| 24 | 46.11 | | 0.000 |
| Median | 46.11 | | 0.000 |
| 77 | 45.90 | | 0.364 |
| Std Dev | 45.53 | | 1.000 |
| 15 | 44.94 | | 2.030 |
| 15 | 44.79 | | 2.290 |

| 711 Gravimetric sulfate-AFPC IX.12.A | | | |
|--------------------------------------|-------------|-----|--------------|
| Lab | % | CaO | dB |
| Median | 0.00 | | 0.000 |

| 712 ICP-induced coupled plasma-AFPC IX.12.D | | | |
|---|--------------|-----|---------------|
| Lab | % | CaO | dB |
| 21 | 46.53 | | -3.093 |
| 49 | 46.48 | | -2.675 |
| 10 | 46.45 | | -2.427 |
| 21 | 46.27 | | -1.066 |
| Std Dev | 46.26 | | -1.000 |
| 10 | 46.26 | | -0.974 |
| 9 | 46.18 | | -0.403 |
| 6 | 46.17 | | -0.305 |
| 16 | 46.13 | | 0.000 |
| Median | 46.13 | | 0.000 |
| 6 | 46.10 | | 0.242 |
| 13 | 46.10 | | 0.245 |
| 16 | 46.09 | | 0.299 |
| 75 | 46.09 | | 0.341 |
| 13 | 46.04 | | 0.723 |
| Std Dev | 46.00 | | 1.000 |
| 9 | 45.97 | | 1.282 |
| 75 | 45.45 | | 5.243 |

| 713 Ceric Sulfate volumetric-AFPC IX.12.B | | | |
|---|-------------|-----|--------------|
| Lab | % | CaO | dB |
| Median | 0.00 | | 0.000 |

| 714 Permanganate | | | |
|------------------|---|-----|----|
| Lab | % | CaO | dB |

| | | | |
|----------------|--------------|--|--------------|
| 30 | 45.79 | | -0.174 |
| 241 | 45.73 | | 0.000 |
| Median | 45.73 | | 0.000 |
| Std Dev | 45.39 | | 1.000 |
| 27 | 44.87 | | 2.506 |

| 715 EDTA Volumetric-AFPC IX.12.C | | | | |
|----------------------------------|--------------|-----|----|---------------|
| Lab | % | CaO | dB | |
| 275 | 46.39 | | | -2.731 |
| Std Dev | 46.10 | | | -1.000 |
| 35 | 45.94 | | | -0.019 |
| Median | 45.93 | | | 0.000 |
| 266 | 45.93 | | | 0.019 |
| Std Dev | 45.77 | | | 1.000 |
| 35 | 45.51 | | | 2.513 |

| 716 Other(describe) | | | | |
|---------------------|--------------|-----|----|---------------|
| Lab | % | CaO | dB | |
| 55 | 48.64 | | | -3.795 |
| Std Dev | 46.95 | | | -1.000 |
| 24 | 46.54 | | | -0.337 |
| 24 | 46.47 | | | -0.209 |
| 77 | 46.34 | | | 0.000 |
| Median | 46.34 | | | 0.000 |
| 77 | 46.08 | | | 0.435 |
| Std Dev | 45.73 | | | 1.000 |
| 15 | 45.31 | | | 1.699 |
| 15 | 45.17 | | | 1.933 |

| 801 Volumetric-AFPC IX.14.A | | | | |
|-----------------------------|-------------|-------------|--|--------------|
| Lab | % | Fluorine, F | | |
| Median | 0.00 | | | 0.000 |

| 802 Specific Ion Electrode-AFPC IX.14.B | | | | |
|---|------|-------------|--|--------|
| Lab | % | Fluorine, F | | |
| 35 | 3.67 | | | -0.467 |
| 15 | 3.66 | | | -0.405 |
| 13 | 3.65 | | | -0.343 |
| 15 | 3.65 | | | -0.343 |
| 35 | 3.65 | | | -0.343 |
| 13 | 3.65 | | | -0.312 |
| 9 | 3.63 | | | -0.187 |
| 21 | 3.62 | | | -0.156 |
| 21 | 3.61 | | | -0.062 |

| | | |
|----------------|-------------|--------------|
| 27 | 3.60 | -0.031 |
| 9 | 3.60 | 0.000 |
| Median | 3.60 | 0.000 |
| 49 | 3.54 | 0.343 |
| 266 | 3.49 | 0.654 |
| 30 | 3.47 | 0.779 |
| 24 | 3.47 | 0.810 |
| Std Dev | 3.43 | 1.000 |
| 24 | 3.43 | 1.028 |
| 75 | 3.34 | 1.620 |
| 75 | 3.30 | 1.839 |
| 55 | 2.06 | 9.567 |
| 6 | 0.91 | 16.734 |
| 6 | 0.91 | 16.766 |

| | | |
|----------------------|-------------|--------------|
| 803 Other(describe) | | |
| Lab | % | Fluorine, F |
| 77 | 3.62 | 0.000 |
| 77 | 3.62 | 0.000 |
| Median | 3.62 | 0.000 |

| | | |
|----------------------------|------------|---------------|
| 911 Atomic Absorption-AFPC | | |
| Lab | ppm | Arsenic, As |
| 33 | 8.0 | -1.340 |
| Std Dev | 7.5 | -1.000 |
| Median | 6.2 | 0.000 |
| Std Dev | 4.9 | 1.000 |
| 55 | 4.4 | 1.340 |

| | | |
|---|-------------|---------------|
| 912 ICP-induced coupled plasma-AFPC IX.15.B | | |
| Lab | ppm | Arsenic, As |
| 6 | 10.8 | -1.268 |
| Std Dev | 10.2 | -1.000 |
| 266 | 8.7 | -0.263 |
| 24 | 8.4 | -0.096 |
| 24 | 8.4 | -0.096 |
| 78 | 8.2 | 0.000 |
| Median | 8.2 | 0.000 |
| 77 | 7.6 | 0.263 |
| Std Dev | 6.1 | 1.000 |
| 78 | 5.6 | 1.244 |
| 35 | 5.0 | 1.508 |
| 35 | 4.0 | 1.986 |

| | | |
|---------------------|------------|---------------|
| 913 Other(describe) | | |
| Lab | ppm | Arsenic, As |
| 13 | 8.5 | -1.340 |
| Std Dev | 8.4 | -1.000 |
| Median | 8.0 | 0.000 |
| Std Dev | 7.6 | 1.000 |
| 77 | 7.5 | 1.340 |

| | | |
|------------------------------------|----------|--------------|
| 921 Atomic Absorption-AFPC IX.11.A | | |
| Lab | ppm | Cadmium, Cd |
| 55 | 7 | 0.000 |
| Median | 7 | 0.000 |

| | | |
|---|----------|---------------|
| 922 ICP-induced coupled plasma-AFPC IX.11.B | | |
| Lab | ppm | Cadmium, Cd |
| 78 | 7 | -4.639 |
| 78 | 7 | -4.020 |
| 75 | 5 | -1.187 |
| Std Dev | 5 | -1.000 |
| 75 | 5 | -0.763 |
| 6 | 5 | -0.678 |
| 24 | 4 | -0.085 |
| Median | 4 | 0.000 |
| 24 | 4 | 0.085 |
| 77 | 4 | 0.339 |
| 266 | 4 | 0.458 |
| 35 | 4 | 0.509 |
| 35 | 4 | 0.509 |
| 77 | 4 | 0.678 |

| | | |
|---------------------|----------|--------------|
| 923 Other(describe) | | |
| Lab | ppm | Cadmium, Cd |
| 13 | 5 | 0.000 |
| Median | 5 | 0.000 |

| | | |
|------------------------------------|----------|--------------|
| 931 Atomic Absorption-AFPC IX.16.B | | |
| Lab | ppm | Cobalt, Co |
| 55 | 1 | 0.000 |
| Median | 1 | 0.000 |

| | | |
|---|-----|------------|
| 932 ICP-induced coupled plasma-AFPC IX.16.A | | |
| Lab | ppm | Cobalt, Co |
| 78 | 8 | -4.053 |
| 78 | 7 | -2.745 |

| | | |
|----------------|----------|---------------|
| Std Dev | 6 | -1.000 |
| 266 | 5 | -0.654 |
| 35 | 5 | -0.131 |
| 35 | 5 | -0.131 |
| 77 | 5 | 0.000 |
| Median | 5 | 0.000 |
| 77 | 5 | 0.131 |
| 24 | 4 | 0.850 |
| Std Dev | 4 | 1.000 |
| 24 | 4 | 1.046 |
| 75 | 4 | 1.177 |
| 75 | 4 | 1.177 |

| | | |
|---------------------|----------|--------------|
| 933 Other(describe) | | |
| Lab | ppm | Cobalt, Co |
| 13 | 5 | 0.000 |
| Median | 5 | 0.000 |

| | | |
|------------------------------------|------------|---------------|
| 941 Atomic Absorption-AFPC IX.16.B | | |
| Lab | ppm | Mercury, Hg |
| 55 | 0.2 | -2.680 |
| Std Dev | 0.1 | -1.000 |
| 275 | 0.0 | 0.000 |
| 275 | 0.0 | 0.000 |
| Median | 0.0 | 0.000 |

| | | |
|---|------------|---------------|
| 942 ICP-induced coupled plasma-AFPC IX.16.A | | |
| Lab | ppm | Mercury, Hg |
| 35 | 0.6 | -1.340 |
| Std Dev | 0.6 | -1.000 |
| Median | 0.4 | 0.000 |
| Std Dev | 0.2 | 1.000 |
| 266 | 0.1 | 1.340 |

| | | |
|---------------------|------------|--------------|
| 943 Other(describe) | | |
| Lab | ppm | Mercury, Hg |
| 13 | 0.5 | 0.000 |
| Median | 0.5 | 0.000 |

| | | |
|------------------------------------|-----------|----------------|
| 951 Atomic Absorption-AFPC IX.16.B | | |
| Lab | ppm | Molybdenum, Mo |
| 55 | 20 | 0.000 |
| Median | 20 | 0.000 |

| | | |
|--|----------|----------------|
| 952 ICP-induced coupled plasma-AFPC IX.16. | | |
| Lab | ppm | Iolybdenum, Mo |
| 266 | 7 | -1.695 |
| Std Dev | 7 | -1.000 |
| 78 | 6 | -0.748 |
| 78 | 6 | -0.561 |
| 24 | 6 | 0.000 |
| Median | 6 | 0.000 |
| 77 | 6 | 0.312 |
| Std Dev | 5 | 1.000 |
| 77 | 5 | 1.060 |
| 24 | 5 | 1.184 |

| | | |
|---------------------|----------|----------------|
| 953 Other(describe) | | |
| Lab | ppm | Iolybdenum, Mo |
| 13 | 6 | 0.000 |
| Median | 6 | 0.000 |

| | | |
|------------------------------------|-----------|--------------|
| 961 Atomic Absorption-AFPC IX.16.B | | |
| Lab | ppm | Nickel, Ni |
| 55 | 20 | 0.000 |
| Median | 20 | 0.000 |

| | | |
|--|-----------|---------------|
| 962 ICP-induced coupled plasma-AFPC IX.16. | | |
| Lab | ppm | Nickel, Ni |
| 266 | 31 | -17.491 |
| 75 | 20 | -1.411 |
| Std Dev | 20 | -1.000 |
| 75 | 20 | -0.705 |
| 78 | 20 | -0.705 |
| 6 | 19 | -0.353 |
| 35 | 19 | 0.000 |
| 77 | 19 | 0.000 |
| 77 | 19 | 0.000 |
| 78 | 19 | 0.000 |
| Median | 19 | 0.000 |
| Std Dev | 18 | 1.000 |
| 24 | 17 | 2.539 |
| 24 | 16 | 3.879 |
| 35 | 16 | 4.232 |

| | | |
|---------------------|-----|------------|
| 963 Other(describe) | | |
| Lab | ppm | Nickel, Ni |
| 13 | 22 | 0.000 |

| | | |
|--------|----|-------|
| Median | 22 | 0.000 |
|--------|----|-------|

| 971 | Atomic Absorption-AFPC IX.16.B | |
|--------|--------------------------------|----------|
| Lab | ppm | Lead, Pb |
| 55 | 9 | 0.000 |
| Median | 9 | 0.000 |

| 972 | ICP-induced coupled plasma-AFPC IX.16.A | |
|---------|---|----------|
| Lab | ppm | Lead, Pb |
| 77 | 15 | -0.444 |
| 6 | 15 | -0.426 |
| 266 | 15 | -0.408 |
| 77 | 14 | -0.266 |
| 35 | 13 | -0.089 |
| Median | 13 | 0.000 |
| 35 | 12 | 0.089 |
| 24 | 7 | 0.914 |
| 24 | 7 | 0.985 |
| Std Dev | 7 | 1.000 |
| 78 | 1 | 2.041 |
| 78 | 1 | 2.041 |

| 973 | Other(describe) | |
|--------|-----------------|----------|
| Lab | ppm | Lead, Pb |
| 13 | 12 | 0.000 |
| Median | 12 | 0.000 |

| 981 | Atomic Absorption-AFPC IX.16.B | |
|---------|--------------------------------|--------------|
| Lab | ppm | Selenium, Se |
| 55 | 5 | -1.340 |
| Std Dev | 5 | -1.000 |
| Median | 4 | 0.000 |
| Std Dev | 2 | 1.000 |
| 33 | 2 | 1.340 |

| 982 | ICP-induc coupled plasma-AFPC IX.16.A | |
|---------|---------------------------------------|--------------|
| Lab | ppm | Selenium, Se |
| 266 | 4 | -2.680 |
| Std Dev | 2 | -1.000 |
| 77 | 2 | 0.000 |
| 77 | 2 | 0.000 |
| Median | 2 | 0.000 |

| 983 | Other(describe) | |
|--------|-----------------|--------------|
| Lab | ppm | Selenium, Se |
| 13 | 3 | 0.000 |
| Median | 3 | 0.000 |

| 991 | Atomic Absorption-AFPC IX.16.B | |
|---------|--------------------------------|----------|
| Lab | ppm | Zinc, Zn |
| 60 | 118 | -1.340 |
| Std Dev | 114 | -1.000 |
| Median | 101 | 0.000 |
| Std Dev | 88 | 1.000 |
| 55 | 84 | 1.340 |

| 992 | ICP-induced coupled plasma-AFPC IX.16.A | |
|---------|---|----------|
| Lab | ppm | Zinc, Zn |
| 24 | 98 | -2.799 |
| 24 | 98 | -2.769 |
| Std Dev | 86 | -1.000 |
| 78 | 86 | -0.968 |
| 78 | 82 | -0.372 |
| 6 | 80 | -0.216 |
| 75 | 80 | -0.149 |
| Median | 79 | 0.000 |
| 75 | 78 | 0.149 |
| 35 | 77 | 0.298 |
| 266 | 77 | 0.298 |
| Std Dev | 72 | 1.000 |
| 35 | 63 | 2.382 |
| 77 | 63 | 2.382 |
| 77 | 62 | 2.531 |

| 993 | Other(describe) | |
|--------|-----------------|----------|
| Lab | ppm | Zinc, Zn |
| 13 | 74 | 0.000 |
| Median | 74 | 0.000 |