# AFPC Rock Check Program

Sample No. 2014-04

| | Method # | # of Anal. | Grand Median | Std Dev |
|---|---|---|---|---|
| ***Moisture*** | | | | |
| Ground Sample AFPC IX.2.A | 101 | 27 | 0.49 | 0.050 |
| Other (describe) | 102 | | | |
| Method Group 100 | | 27 | 0.49 | 0.05 |
| ***$P_2O_5$*** | | | | |
| Gravimetric AFPC IX.3.B | 201 | 4 | 30.37 | 0.059 |
| ICP-inducted coupled plasma AFPC IX.3.D | 202 | 5 | 30.22 | 0.030 |
| Photometric-AFPC IX.3.C | 203 | 13 | 30.23 | 0.131 |
| Automated -AOAC 978.01-15th | 204 | 11 | 30.25 | 0.125 |
| Other(describe) | 205 | 4 | 29.85 | 0.320 |
| Method Group 200 | | 37 | 30.23 | 0.14 |
| ***$P_2O_5$ (on Dry Basis)*** | | | | |
| Gravimetric AFPC IX.3.B | 211 | 2 | 30.42 | 0.061 |
| ICP-inducted coupled plasma AFPC IX.3.D | 212 | 5 | 30.37 | 0.028 |
| Photometric-AFPC IX.3.C | 213 | 7 | 30.49 | 0.080 |
| Automated -AOAC 978.01-15th | 214 | 11 | 30.40 | 0.089 |
| Other(describe) | 215 | 2 | 29.97 | 0.096 |
| Method Group 210 | | 27 | 30.40 | 0.11 |
| ***$Fe_2O_3$*** | | | | |
| Atomic Absorption-AFPC IX.6.B | 301 | 1 | 0.91 | 0.000 |
| ICP-inducted coupled plasma-AFPC IX.6.C | 302 | 27 | 0.90 | 0.047 |
| Other(describe) | 303 | 4 | 1.03 | 0.034 |
| Method Group 300 | | 32 | 0.90 | 0.05 |
| ***$Al_2O_3$*** | | | | |
| Atomic Absorption-AFPC IX.7.B | 401 | 1 | 1.42 | 0.000 |
| ICP-inducted coupled plasma-AFPC IX.7.C | 402 | 27 | 1.26 | 0.042 |
| Other(describe) | 403 | 4 | 1.61 | 0.057 |
| Method Group 400 | | 32 | 1.27 | 0.13 |
| ***MgO*** | | | | |
| Atomic Absorption-AFPC IX.8.A | 501 | 3 | 0.42 | 0.034 |
| ICP-inducted coupled plasma-AFPC IX.8.B | 502 | 27 | 0.39 | 0.007 |
| Other(describe) | 503 | 4 | 0.35 | 0.032 |
| Method Group 500 | | 34 | 0.39 | 0.02 |
| ***Acid Insoluble*** | | | | |
| Insoluble-AFPC IX.4.A | 601 | 21 | 11.39 | 0.119 |
| Other(describe) | 602 | 2 | 12.40 | 0.149 |
| Method Group 600 | | 23 | 11.40 | 0.12 |
| ***Carbon Dioxide*** | | | | |
| Gasometric-AFPC IX.13.B | 651 | 14 | 3.44 | 0.155 |
| Other(describe) | 652 | 5 | 3.54 | 1.989 |
| Method Group 650 | | 19 | 3.45 | 0.18 |
| ***CaO*** | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 701 | | | |
| ICP-inducted coupled plasma-AFPC IX.12.D | 702 | 22 | 44.23 | 0.569 |
| | 703 | | | |
| Permanganate | 704 | 3 | 43.09 | 0.638 |
| EDTA Volumetric-AFPC IX.12.C | 705 | 3 | 44.90 | 0.194 |
| Other(describe) | 706 | 8 | 44.49 | 0.177 |
| Method Group 700 | | 36 | 44.36 | 0.50 |
| ***CaO (on Dry Basis)*** | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 711 | | | |
| ICP-inducted coupled plasma-AFPC IX.12.D | 712 | 16 | 44.39 | 0.416 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 713 | | | |
| Permanganate | 714 | 2 | 43.61 | 0.669 |
| EDTA Volumetric-AFPC IX.12.C | 715 | 3 | 45.12 | 0.248 |
| Other(describe) | 716 | 6 | 44.72 | 0.045 |
| Method Group 710 | | 27 | 44.62 | 0.36 |

| | Method # | # of Anal. | Grand Median | Std Dev |
|---|---|---|---|---|
| ***Fluorine, F*** | | | | |
| Volumetric-AFPC IX.14.A | 801 | | | |
| Specific Ion Electrode-AFPC IX.14.B | 802 | 18 | 3.51 | 0.177 |
| Oher( describe) | 803 | 3 | 3.50 | 0.056 |
| Method Group 800 | | 21 | 3.51 | 0.11 |
| ***Arsenic, As*** | | | | |
| Atomic Absorption | 911 | | | |
| ICP-inducted coupled plasma-AFPC IX.15.B | 912 | 9 | 9.2 | 1.98 |
| Other(describe) | 913 | 1 | 7.0 | 0.00 |
| Method Group 900 | | 10 | 9.0 | 1.99 |
| ***Cadmium, Cd*** | | | | |
| Atomic Absorption-AFPC IX.11.A | 921 | | | |
| ICP-inducted coupled plasma-AFPC IX.11.B | 922 | 12 | 6 | 0.7 |
| Other(describe) | 923 | | | |
| Method Group 910 | | 12 | 6 | 0.7 |
| ***Cobalt, Co*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 931 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 932 | 12 | 17 | 8.4 |
| Other(describe) | 933 | | | |
| Method Group 920 | | 12 | 17 | 8.4 |
| ***Mercury, Hg*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 941 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 942 | 1 | 0.1 | 0.00 |
| Other(describe) | 943 | | | |
| Method Group 930 | | 1 | 0.1 | 0.00 |
| ***Molybdenum, Mo*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 951 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 952 | 10 | 20 | 0.7 |
| Other(describe) | 953 | | | |
| Method Group 940 | | 10 | 20 | 0.7 |
| ***Nickel, Ni*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 961 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 962 | 12 | 25 | 1.7 |
| Other(describe) | 963 | 1 | 31 | 0.0 |
| Method Group 950 | | 13 | 25 | 1.5 |
| ***Lead, Pb*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 971 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 972 | 10 | 11 | 6.1 |
| Other(describe) | 973 | | | |
| Method Group 960 | | 10 | 11 | 6.1 |
| ***Selenium, Se*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 981 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 982 | 3 | 1 | 0.7 |
| Other(describe) | 983 | | | |
| Method Group 970 | | 3 | 1 | 0.7 |
| ***Zinc, Zn*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 991 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 992 | 12 | 73 | 11 |
| Other(describe) | 993 | 2 | 66 | 2 |
| Method Group 980 | | 14 | 72 | 12 |

| 101 | Ground Sample AFPC IX.2.A | |
|---|---|---|
| Lab | % | $H_2O$ |
| 266 | 0.80 | -6.154 |
| 24 | 0.56 | -1.290 |
| Std Dev | 0.54 | -1.000 |
| 10 | 0.53 | -0.794 |
| 10 | 0.53 | -0.794 |
| 16 | 0.52 | -0.596 |
| 24 | 0.52 | -0.596 |
| 16 | 0.51 | -0.397 |
| 30 | 0.51 | -0.397 |
| 21 | 0.51 | -0.298 |
| 13 | 0.50 | -0.199 |
| 75 | 0.50 | -0.199 |
| 13 | 0.49 | 0.000 |
| 35 | 0.49 | 0.000 |
| 35 | 0.49 | 0.000 |
| Median | 0.49 | 0.000 |
| 6 | 0.49 | 0.099 |
| 9 | 0.49 | 0.099 |
| 61 | 0.48 | 0.298 |
| 75 | 0.48 | 0.298 |
| 9 | 0.47 | 0.397 |
| 49 | 0.45 | 0.794 |
| Std Dev | 0.44 | 1.000 |
| 21 | 0.44 | 1.092 |
| 15 | 0.39 | 1.985 |
| 15 | 0.39 | 1.985 |
| 241 | 0.34 | 2.978 |
| 61 | 0.32 | 3.474 |
| 77 | 0.20 | 5.757 |
| 77 | 0.09 | 7.941 |

| 102 | Other (describe) | |
|---|---|---|
| Lab | % | $H_2O$ |
| Median | 0.00 | 0.000 |

| 201 | Gravimetric AFPC IX.3.B | |
|---|---|---|
| Lab | % | P2O5 |
| 77 | 30.47 | -1.744 |
| Std Dev | 30.43 | -1.000 |
| 55 | 30.38 | -0.213 |
| Median | 30.37 | 0.000 |
| 241 | 30.36 | 0.213 |
| Std Dev | 30.31 | 1.000 |
| 241 | 30.23 | 2.340 |

| 202 | ICP-inducted coupled plasma AFPC IX.3.D | |
|---|---|---|
| Lab | % | P2O5 |
| 10 | 30.27 | -1.675 |
| Std Dev | 30.25 | -1.000 |
| 16 | 30.24 | -0.670 |
| 16 | 30.22 | 0.000 |
| Median | 30.22 | 0.000 |
| 10 | 30.20 | 0.670 |
| Std Dev | 30.19 | 1.000 |
| 266 | 29.82 | 13.400 |

| 203 | Photometric-AFPC IX.3.C | |
|---|---|---|
| Lab | % | P2O5 |
| 49 | 30.42 | -1.455 |
| 35 | 30.41 | -1.378 |
| Std Dev | 30.36 | -1.000 |
| 35 | 30.36 | -0.995 |
| 9 | 30.35 | -0.881 |
| 30 | 30.33 | -0.766 |
| 45 | 30.25 | -0.153 |
| 92 | 30.23 | 0.000 |
| Median | 30.23 | 0.000 |
| 9 | 30.23 | 0.038 |
| 45 | 30.20 | 0.230 |
| 92 | 30.17 | 0.459 |
| 6 | 30.16 | 0.574 |
| Std Dev | 30.10 | 1.000 |
| 78 | 29.94 | 2.221 |
| 78 | 29.88 | 2.718 |

| 204 | Automated -AOAC 978.01-15th | |
|---|---|---|
| Lab | % | P2O5 |
| 15 | 30.48 | -1.800 |
| 15 | 30.46 | -1.680 |
| 77 | 30.41 | -1.280 |
| Std Dev | 30.38 | -1.000 |
| 24 | 30.34 | -0.680 |
| 13 | 30.28 | -0.200 |
| 75 | 30.25 | 0.000 |
| Median | 30.25 | 0.000 |
| 75 | 30.23 | 0.160 |
| 13 | 30.21 | 0.320 |
| 24 | 30.20 | 0.400 |
| Std Dev | 30.13 | 1.000 |
| 21 | 30.02 | 1.840 |
| 21 | 29.99 | 2.120 |

| 205 | Other(describe) | |
|---|---|---|
| Lab | % | P2O5 |
| 55 | 30.03 | -0.570 |
| 61 | 30.00 | -0.477 |
| Median | 29.85 | 0.000 |
| 61 | 29.70 | 0.477 |
| Std Dev | 29.53 | 1.000 |
| 19 | 29.23 | 1.930 |

| 211 | Gravimetric AFPC IX.3.B | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 77 | 30.50 | | -1.340 |
| Std Dev | 30.48 | | -1.000 |
| Median | 30.42 | | 0.000 |
| Std Dev | 30.35 | | 1.000 |
| 241 | 30.33 | | 1.340 |

| 212 | ICP-inducted coupled plasma AFPC IX.3.D | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 10 | 30.43 | | -2.033 |
| Std Dev | 30.40 | | -1.000 |
| 16 | 30.40 | | -0.835 |
| 16 | 30.37 | | 0.000 |
| Median | 30.37 | | 0.000 |
| 10 | 30.36 | | 0.505 |
| Std Dev | 30.35 | | 1.000 |
| 266 | 30.06 | | 11.339 |

| 213 | Photometric-AFPC IX.3.C | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 35 | 30.56 | | -0.838 |
| 49 | 30.56 | | -0.810 |
| 35 | 30.51 | | -0.208 |
| 9 | 30.49 | | 0.000 |
| Median | 30.49 | | 0.000 |
| 30 | 30.49 | | 0.093 |
| Std Dev | 30.41 | | 1.000 |
| 9 | 30.37 | | 1.569 |
| 6 | 30.30 | | 2.393 |

| 214 | Automated -AOAC 978.01-15th | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 15 | 30.59 | | -2.173 |
| 15 | 30.58 | | -2.003 |
| 24 | 30.49 | | -1.034 |
| Std Dev | 30.49 | | -1.000 |
| 77 | 30.47 | | -0.779 |
| 13 | 30.43 | | -0.284 |
| 75 | 30.40 | | 0.000 |
| Median | 30.40 | | 0.000 |
| 75 | 30.37 | | 0.313 |
| 24 | 30.37 | | 0.378 |
| 13 | 30.36 | | 0.489 |
| Std Dev | 30.31 | | 1.000 |
| 21 | 30.17 | | 2.595 |
| 21 | 30.12 | | 3.231 |

| 215 | Other(describe) | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 61 | 30.09 | | -1.340 |
| Std Dev | 30.06 | | -1.000 |
| Median | 29.97 | | 0.000 |
| Std Dev | 29.87 | | 1.000 |
| 61 | 29.84 | | 1.340 |

| 301 | Atomic Absorption-AFPC IX.6.B | |
|---|---|---|
| Lab | % | Fe2O3 |
| 241 | 0.91 | 0.000 |
| Median | 0.91 | 0.000 |

| 302 | ICP-inducted coupled plasma-AFPC IX.6.C | |
|---|---|---|
| Lab | % | Fe2O3 |
| 266 | 1.05 | -3.160 |
| 61 | 1.02 | -2.528 |
| 78 | 1.01 | -2.212 |
| 78 | 1.00 | -2.001 |
| 15 | 0.95 | -1.053 |
| 61 | 0.95 | -1.053 |
| Std Dev | 0.95 | -1.000 |
| 15 | 0.95 | -0.948 |
| 75 | 0.94 | -0.889 |
| 21 | 0.94 | -0.737 |

| | | |
|---|---|---|
| 21 | 0.91 | -0.105 |
| 9 | 0.90 | 0.000 |
| 10 | 0.90 | 0.000 |
| 13 | 0.90 | 0.000 |
| 16 | 0.90 | 0.000 |
| Median | 0.90 | 0.000 |
| 75 | 0.90 | 0.083 |
| 10 | 0.90 | 0.105 |
| 13 | 0.90 | 0.105 |
| 6 | 0.89 | 0.211 |
| 9 | 0.89 | 0.211 |
| 16 | 0.89 | 0.211 |
| 45 | 0.87 | 0.632 |
| 45 | 0.87 | 0.632 |
| 49 | 0.87 | 0.632 |
| Std Dev | 0.85 | 1.000 |
| 92 | 0.84 | 1.264 |
| 92 | 0.83 | 1.475 |
| 24 | 0.79 | 2.422 |
| 24 | 0.77 | 2.738 |

303 Other(describe)

| Lab | % | Fe2O3 |
|---|---|---|
| 77 | 1.06 | -0.893 |
| 55 | 1.03 | 0.000 |
| 77 | 1.03 | 0.000 |
| Median | 1.03 | 0.000 |
| Std Dev | 1.00 | 1.000 |
| 19 | 0.88 | 4.467 |

401 Atomic Absorption-AFPC IX.6.B

| Lab | % | Al2O3 |
|---|---|---|
| 241 | 1.42 | 0.000 |
| Median | 1.42 | 0.000 |

402 ICP-inducted coupled plasma-AFPC IX.6.C

| Lab | % | Al2O3 |
|---|---|---|
| 266 | 1.74 | -11.362 |
| 78 | 1.63 | -8.758 |
| 78 | 1.63 | -8.758 |
| 61 | 1.45 | -4.497 |
| 61 | 1.44 | -4.142 |
| 92 | 1.33 | -1.657 |
| 92 | 1.31 | -1.184 |
| 75 | 1.30 | -1.023 |
| Std Dev | 1.30 | -1.000 |
| 24 | 1.29 | -0.710 |
| 24 | 1.28 | -0.473 |
| 75 | 1.27 | -0.229 |
| 13 | 1.27 | -0.118 |
| 9 | 1.26 | 0.000 |
| 9 | 1.26 | 0.000 |
| 13 | 1.26 | 0.000 |
| 21 | 1.26 | 0.000 |
| Median | 1.26 | 0.000 |
| 10 | 1.26 | 0.118 |
| 15 | 1.26 | 0.118 |
| 15 | 1.25 | 0.237 |
| 16 | 1.25 | 0.237 |
| 49 | 1.25 | 0.237 |
| 10 | 1.25 | 0.355 |
| 6 | 1.24 | 0.473 |
| 16 | 1.24 | 0.473 |
| 45 | 1.23 | 0.710 |
| Std Dev | 1.22 | 1.000 |
| 45 | 1.21 | 1.184 |
| 21 | 1.20 | 1.539 |

403 Other(describe)

| Lab | % | Al2O3 |
|---|---|---|
| 55 | 1.64 | -0.439 |
| 77 | 1.61 | 0.000 |
| 77 | 1.61 | 0.000 |
| Median | 1.61 | 0.000 |
| Std Dev | 1.55 | 1.000 |
| 19 | 1.33 | 4.921 |

501 Atomic Absorption-AFPC IX.8.A

| Lab | % | MgO |
|---|---|---|
| 35 | 0.46 | -1.191 |
| Std Dev | 0.45 | -1.000 |
| 35 | 0.42 | 0.000 |
| Median | 0.42 | 0.000 |
| Std Dev | 0.39 | 1.000 |
| 241 | 0.37 | 1.489 |

502 ICP-inducted coupled plasma-AFPC IX.8.B

| Lab | % | MgO |
|---|---|---|
| 61 | 0.41 | -2.680 |
| 13 | 0.40 | -1.340 |
| 21 | 0.40 | -1.340 |
| Std Dev | 0.40 | -1.000 |
| 15 | 0.40 | -0.670 |
| 15 | 0.40 | -0.670 |
| 61 | 0.40 | -0.670 |
| 13 | 0.39 | 0.000 |
| 16 | 0.39 | 0.000 |
| 16 | 0.39 | 0.000 |
| 21 | 0.39 | 0.000 |
| 49 | 0.39 | 0.000 |
| 78 | 0.39 | 0.000 |
| 78 | 0.39 | 0.000 |
| 92 | 0.39 | 0.000 |
| 92 | 0.39 | 0.000 |
| 266 | 0.39 | 0.000 |
| Median | 0.39 | 0.000 |
| 9 | 0.39 | 0.670 |
| 9 | 0.39 | 0.670 |
| 10 | 0.39 | 0.670 |
| Std Dev | 0.38 | 1.000 |
| 6 | 0.38 | 1.340 |
| 10 | 0.38 | 1.340 |
| 24 | 0.38 | 2.010 |
| 24 | 0.37 | 2.680 |
| 45 | 0.37 | 2.680 |
| 45 | 0.37 | 2.680 |
| 75 | 0.36 | 3.671 |
| 75 | 0.36 | 4.271 |

503 Other(describe)

| Lab | % | MgO |
|---|---|---|
| 77 | 0.44 | -2.838 |
| Std Dev | 0.38 | -1.000 |
| 77 | 0.36 | -0.315 |
| Median | 0.35 | 0.000 |
| 55 | 0.34 | 0.315 |
| 19 | 0.33 | 0.631 |

601 Insoluble-AFPC IX.4.A

| Lab | % | AI |
|---|---|---|
| 21 | 11.81 | -3.476 |
| 21 | 11.72 | -2.764 |
| 16 | 11.54 | -1.256 |
| 49 | 11.51 | -1.005 |
| Std Dev | 11.51 | -1.000 |
| 6 | 11.50 | -0.921 |
| 10 | 11.49 | -0.837 |
| 16 | 11.49 | -0.837 |
| 24 | 11.49 | -0.796 |
| 9 | 11.40 | -0.084 |
| 9 | 11.40 | -0.042 |
| 45 | 11.39 | 0.000 |
| Median | 11.39 | 0.000 |
| 13 | 11.39 | 0.042 |
| 15 | 11.37 | 0.209 |
| 35 | 11.36 | 0.251 |
| 24 | 11.35 | 0.335 |
| 10 | 11.33 | 0.503 |
| 13 | 11.28 | 0.921 |
| Std Dev | 11.27 | 1.000 |
| 30 | 11.26 | 1.089 |
| 35 | 11.21 | 1.508 |
| 45 | 11.06 | 2.764 |
| 15 | 10.23 | 9.757 |

602 Other(describe)

| Lab | % | AI |
|---|---|---|
| 266 | 12.60 | -1.340 |
| Std Dev | 12.55 | -1.000 |
| Median | 12.40 | 0.000 |
| Std Dev | 12.25 | 1.000 |
| 19 | 12.20 | 1.340 |

651 Gasometric-AFPC IX.13.B

| Lab | % | CO2 |
|---|---|---|
| 77 | 3.96 | -3.374 |
| 21 | 3.68 | -1.566 |
| 21 | 3.66 | -1.437 |
| Std Dev | 3.59 | -1.000 |
| 24 | 3.58 | -0.920 |
| 49 | 3.55 | -0.727 |
| 30 | 3.54 | -0.662 |
| 24 | 3.45 | -0.048 |
| Median | 3.44 | 0.000 |
| 13 | 3.43 | 0.048 |
| 13 | 3.43 | 0.081 |

| | | |
|---|---|---|
| 6 | 3.41 | 0.178 |
| 9 | 3.35 | 0.565 |
| 9 | 3.35 | 0.565 |
| Std Dev | 3.28 | 1.000 |
| 15 | 3.10 | 2.180 |
| 15 | 3.10 | 2.180 |

652 Other(describe)

| Lab | % | CO2 |
|---|---|---|
| 35 | 6.13 | -1.302 |
| 35 | 6.09 | -1.282 |
| Std Dev | 5.53 | -1.000 |
| 78 | 3.54 | 0.000 |
| Median | 3.54 | 0.000 |
| 78 | 3.43 | 0.058 |
| 266 | 2.95 | 0.297 |

701 Gravimetric sulfate-AFPC IX.12.A

| Lab | % | CaO |
|---|---|---|
| Median | 0.00 | 0.000 |

702 ICP-inducted coupled plasma-AFPC IX.12.D

| Lab | % | CaO |
|---|---|---|
| 92 | 46.25 | -3.553 |
| 92 | 45.89 | -2.921 |
| 61 | 45.43 | -2.113 |
| 61 | 45.10 | -1.533 |
| 78 | 44.95 | -1.269 |
| Std Dev | 44.80 | -1.000 |
| 78 | 44.77 | -0.953 |
| 75 | 44.61 | -0.674 |
| 9 | 44.56 | -0.584 |
| 49 | 44.52 | -0.514 |
| 13 | 44.32 | -0.163 |
| 9 | 44.24 | -0.022 |
| Median | 44.23 | 0.000 |
| 10 | 44.22 | 0.022 |
| 21 | 44.11 | 0.215 |
| 10 | 44.09 | 0.250 |
| 21 | 44.05 | 0.312 |
| 45 | 43.99 | 0.417 |
| 13 | 43.96 | 0.470 |
| 6 | 43.95 | 0.488 |
| 16 | 43.91 | 0.558 |
| 16 | 43.86 | 0.646 |
| 45 | 43.69 | 0.944 |
| Std Dev | 43.66 | 1.000 |
| 75 | 42.91 | 2.315 |

703 Ceric Sulfate volumetric-AFPC IX.12.B

| Lab | % | CaO |
|---|---|---|
| Median | 0.00 | 0.000 |

704 Permanganate

| Lab | % | CaO |
|---|---|---|
| 30 | 44.28 | -1.873 |
| Std Dev | 43.72 | -1.000 |
| 241 | 43.09 | 0.000 |
| Median | 43.09 | 0.000 |
| 241 | 42.57 | 0.807 |

705 EDTA Volumetric-AFPC IX.12.C

| Lab | % | CaO |
|---|---|---|
| 266 | 44.92 | -0.103 |
| 35 | 44.90 | 0.000 |
| Median | 44.90 | 0.000 |
| Std Dev | 44.71 | 1.000 |
| 35 | 44.40 | 2.577 |

706 Other(describe)

| Lab | % | CaO |
|---|---|---|
| 77 | 45.00 | -2.892 |
| Std Dev | 44.66 | -1.000 |
| 77 | 44.60 | -0.635 |
| 15 | 44.59 | -0.578 |
| 15 | 44.50 | -0.071 |
| Median | 44.49 | 0.000 |
| 24 | 44.48 | 0.071 |
| 24 | 44.48 | 0.071 |
| Std Dev | 44.31 | 1.000 |
| 55 | 44.00 | 2.779 |
| 19 | 43.60 | 5.007 |

711 Gravimetric sulfate-AFPC IX.12.A

| Lab | % | CaO | dB |
|---|---|---|---|
| Median | 0.00 | | 0.000 |

712 ICP-inducted coupled plasma-AFPC IX.12.D

| Lab | % | CaO | dB |
|---|---|---|---|
| 61 | 45.65 | | -3.036 |
| 61 | 45.24 | | -2.063 |
| 75 | 44.84 | | -1.083 |
| Std Dev | 44.80 | | -1.000 |
| 9 | 44.77 | | -0.927 |
| 49 | 44.72 | | -0.809 |
| 13 | 44.54 | | -0.368 |
| 9 | 44.46 | | -0.169 |
| 10 | 44.45 | | -0.157 |
| Median | 44.39 | | 0.000 |
| 10 | 44.32 | | 0.157 |
| 21 | 44.30 | | 0.211 |
| 21 | 44.27 | | 0.269 |
| 13 | 44.18 | | 0.492 |
| 6 | 44.16 | | 0.532 |
| 16 | 44.14 | | 0.602 |
| 16 | 44.09 | | 0.712 |
| Std Dev | 43.97 | | 1.000 |
| 75 | 43.11 | | 3.057 |

713 Ceric Sulfate volumetric-AFPC IX.12.B

| Lab | % | CaO | dB |
|---|---|---|---|
| Median | 0.00 | | 0.000 |

714 Permanganate

| Lab | % | CaO | dB |
|---|---|---|---|
| 30 | 44.51 | | -1.340 |
| Std Dev | 44.28 | | -1.000 |
| Median | 43.61 | | 0.000 |
| Std Dev | 42.94 | | 1.000 |
| 241 | 42.72 | | 1.340 |

715 EDTA Volumetric-AFPC IX.12.C

| Lab | % | CaO | dB |
|---|---|---|---|
| 266 | 45.28 | | -0.651 |
| 35 | 45.12 | | 0.000 |
| Median | 45.12 | | 0.000 |
| Std Dev | 44.87 | | 1.000 |
| 35 | 44.62 | | 2.029 |

716 Other(describe)

| Lab | % | CaO | dB |
|---|---|---|---|
| 77 | 45.04 | | -7.222 |
| 15 | 44.76 | | -1.093 |
| Std Dev | 44.76 | | -1.000 |
| 24 | 44.72 | | -0.175 |
| Median | 44.72 | | 0.000 |
| 24 | 44.71 | | 0.175 |
| 77 | 44.69 | | 0.577 |
| 15 | 44.67 | | 0.913 |

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 | 3.79 | -1.580 |
| 35 | 3.70 | -1.072 |
| Std Dev | 3.69 | -1.000 |
| 21 | 3.61 | -0.564 |
| 21 | 3.58 | -0.395 |
| 6 | 3.55 | -0.226 |
| 13 | 3.55 | -0.226 |
| 49 | 3.53 | -0.113 |
| 9 | 3.52 | -0.056 |
| 13 | 3.52 | -0.028 |
| Median | 3.51 | 0.000 |
| 9 | 3.51 | 0.028 |
| 24 | 3.49 | 0.113 |
| 30 | 3.48 | 0.169 |
| 24 | 3.41 | 0.564 |
| Std Dev | 3.33 | 1.000 |
| 266 | 3.28 | 1.298 |
| 15 | 3.28 | 1.326 |
| 15 | 3.27 | 1.354 |
| 75 | 3.13 | 2.144 |
| 75 | 3.09 | 2.398 |

803 Oher( describe)

| Lab | % | Fluorine, F |
|---|---|---|
| 77 | 3.55 | -0.893 |
| 77 | 3.50 | 0.000 |
| Median | 3.50 | 0.000 |
| Std Dev | 3.44 | 1.000 |
| 19 | 3.40 | 1.787 |

| 911 | Atomic Absorption-AFPC | |
|---|---|---|
| Lab | ppm | Arsenic, As |
| Median | 0.0 | 0.000 |

| 912 | ICP-inducted coupled plasma-AFPC IX.15.B | |
|---|---|---|
| Lab | ppm | Arsenic, As |
| 61 | 13.9 | -2.377 |
| 78 | 11.9 | -1.340 |
| Std Dev | 11.2 | -1.000 |
| 78 | 10.1 | -0.455 |
| 6 | 10.0 | -0.405 |
| 61 | 9.2 | 0.000 |
| Median | 9.2 | 0.000 |
| 266 | 8.7 | 0.253 |
| 24 | 7.5 | 0.885 |
| 24 | 7.4 | 0.910 |
| Std Dev | 7.2 | 1.000 |
| 77 | 7.0 | 1.112 |

| 913 | Other(describe) | |
|---|---|---|
| Lab | ppm | Arsenic, As |
| 77 | 7.0 | 0.000 |
| Median | 7.0 | 0.000 |

| 921 | Atomic Absorption-AFPC IX.11.A | |
|---|---|---|
| Lab | ppm | Cadmium, Cd |
| Median | 0 | 0.000 |

| 922 | ICP-inducted coupled plasma-AFPC IX.11.B | |
|---|---|---|
| Lab | ppm | Cadmium, Cd |
| 78 | 8 | -3.524 |
| 78 | 8 | -3.074 |
| 61 | 6 | -1.084 |
| Std Dev | 6 | -1.000 |
| 75 | 6 | -0.147 |
| 61 | 6 | -0.074 |
| 75 | 6 | -0.074 |
| Median | 6 | 0.000 |
| 6 | 6 | 0.074 |
| 266 | 5 | 0.811 |
| 77 | 5 | 0.958 |
| 77 | 5 | 0.958 |
| Std Dev | 5 | 1.000 |
| 24 | 3 | 3.391 |
| 24 | 3 | 3.465 |

| 923 | Other(describe) | |
|---|---|---|
| Lab | ppm | Cadmium, Cd |
| Median | 0 | 0.000 |

| 931 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Cobalt, Co |
| Median | 0 | 0.000 |

| 932 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Cobalt, Co |
| 78 | 41 | -2.781 |
| 78 | 40 | -2.722 |
| 266 | 32 | -1.734 |
| Std Dev | 26 | -1.000 |
| 24 | 20 | -0.390 |
| 6 | 18 | -0.104 |
| 61 | 18 | -0.104 |
| Median | 17 | 0.000 |
| 24 | 16 | 0.104 |
| 77 | 12 | 0.610 |
| 77 | 12 | 0.610 |
| 75 | 12 | 0.628 |
| 75 | 12 | 0.663 |
| Std Dev | 9 | 1.000 |
| 61 | 0 | 2.012 |

| 933 | Other(describe) | |
|---|---|---|
| Lab | ppm | Cobalt, Co |
| Median | 0 | 0.000 |

| 941 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Mercury, Hg |
| Median | 0.0 | 0.000 |

| 942 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Mercury, Hg |
| 266 | 0.1 | 0.000 |
| Median | 0.1 | 0.000 |

| 943 | Other(describe) | |
|---|---|---|
| Lab | ppm | Mercury, Hg |
| Median | 0.0 | 0.000 |

| 951 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Molybdenum, Mo |
| Median | 0 | 0.000 |

| 952 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Molybdenum, Mo |
| 61 | 22 | -3.015 |
| Std Dev | 21 | -1.000 |
| 266 | 21 | -0.938 |
| 6 | 20 | -0.268 |
| 61 | 20 | -0.268 |
| 78 | 20 | -0.268 |
| Median | 20 | 0.000 |
| 78 | 20 | 0.268 |
| Std Dev | 19 | 1.000 |
| 77 | 19 | 1.072 |
| 77 | 19 | 1.072 |
| 24 | 7 | 16.683 |
| 24 | 7 | 17.286 |

| 953 | Other(describe) | |
|---|---|---|
| Lab | ppm | Molybdenum, Mo |
| Median | 0 | 0.000 |

| 961 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Nickel, Ni |
| Median | 0 | 0.000 |

| 962 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Nickel, Ni |
| 266 | 38 | -7.742 |
| Std Dev | 26 | -1.000 |
| 6 | 26 | -0.893 |
| 61 | 25 | -0.298 |
| 78 | 25 | -0.298 |
| 61 | 25 | -0.238 |
| 75 | 25 | 0.000 |
| 78 | 25 | 0.000 |
| Median | 25 | 0.000 |
| 75 | 24 | 0.119 |
| 77 | 23 | 0.893 |
| Std Dev | 23 | 1.000 |
| 77 | 22 | 1.489 |
| 24 | 15 | 5.777 |
| 24 | 15 | 5.807 |

| 963 | Other(describe) | |
|---|---|---|
| Lab | ppm | Nickel, Ni |
| 19 | 31 | 0.000 |
| Median | 31 | 0.000 |

| 971 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Lead, Pb |
| Median | 0 | 0.000 |

| 972 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Lead, Pb |
| 6 | 15 | -0.655 |
| 266 | 15 | -0.573 |
| 61 | 14 | -0.499 |
| 61 | 14 | -0.491 |
| 77 | 11 | 0.000 |
| 77 | 11 | 0.000 |
| Median | 11 | 0.000 |
| 24 | 7 | 0.720 |
| 24 | 6 | 0.884 |
| Std Dev | 5 | 1.000 |
| 78 | 4 | 1.219 |
| 78 | 3 | 1.317 |

| 973 | Other(describe) | |
|---|---|---|
| Lab | ppm | Lead, Pb |
| Median | 0 | 0.000 |

| 981 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Selenium, Se |
| Median | 0 | 0.000 |

| 982 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Selenium, Se |
| 266 | 3 | -2.680 |
| Std Dev | 2 | -1.000 |
| 77 | 1 | 0.000 |
| 77 | 1 | 0.000 |
| Median | 1 | 0.000 |

| 983 | Other(describe) | |
|---|---|---|
| Lab | ppm | Selenium, Se |
| Median | 0 | 0.000 |

| 991 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Zinc, Zn |
| Median | 0 | 0.000 |

| 992 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Zinc, Zn |
| 78 | 93 | -1.785 |
| 78 | 93 | -1.785 |
| 24 | 86 | -1.203 |
| Std Dev | 84 | -1.000 |
| 24 | 83 | -0.937 |
| 61 | 74 | -0.061 |
| 266 | 74 | -0.061 |
| Median | 73 | 0.000 |
| 61 | 73 | 0.061 |
| 75 | 72 | 0.158 |
| 75 | 72 | 0.158 |
| 6 | 64 | 0.872 |
| Std Dev | 63 | 1.000 |
| 77 | 59 | 1.338 |
| 77 | 59 | 1.338 |

| 993 | Other(describe) | |
|---|---|---|
| Lab | ppm | Zinc, Zn |
| 19 | 69 | -1.340 |
| Std Dev | 68 | -1.000 |
| Median | 66 | 0.000 |
| Std Dev | 64 | 1.000 |
| 19 | 63 | 1.340 |