# AFPC Rock Check Program

Sample No. 2017-06

| | Method # | # of Anal. | Grand Median | Std Dev |
|---|---|---|---|---|
| ***Moisture*** | | | | |
| Ground Sample AFPC IX.2.A | 101 | 24 | 1.07 | 0.190 |
| Other (describe) | 102 | 2 | 0.68 | 0.073 |
| Method Group 100 | | 26 | 1.05 | 0.28 |
| ***$P_2O_5$*** | | | | |
| Gravimetric AFPC IX.3.B | 201 | 3 | 33.18 | 0.045 |
| ICP-inducted coupled plasma AFPC IX.3.D | 202 | 2 | 33.14 | 0.019 |
| Photometric-AFPC IX.3.C | 203 | 11 | 33.07 | 0.106 |
| Automated -AOAC 978.01-15th | 204 | 11 | 33.08 | 0.129 |
| Other(describe) | 205 | 3 | 33.13 | 0.489 |
| Method Group 200 | | 30 | 33.08 | 0.13 |
| ***$P_2O_5$ (on Dry Basis)*** | | | | |
| Gravimetric AFPC IX.3.B | 211 | 2 | 33.36 | 0.081 |
| ICP-inducted coupled plasma AFPC IX.3.D | 212 | 2 | 33.52 | 0.018 |
| Photometric-AFPC IX.3.C | 213 | 9 | 33.43 | 0.118 |
| Automated -AOAC 978.01-15th | 214 | 11 | 33.42 | 0.211 |
| Other(describe) | 215 | 2 | 33.19 | 0.472 |
| Method Group 210 | | 26 | 33.43 | 0.16 |
| ***$Fe_2O_3$*** | | | | |
| Atomic Absorption-AFPC IX.6.B | 301 | 2 | 0.99 | 0.071 |
| ICP-inducted coupled plasma-AFPC IX.6.C | 302 | 21 | 1.10 | 0.007 |
| Other(describe) | 303 | 5 | 1.10 | 0.179 |
| Method Group 300 | | 28 | 1.10 | 0.02 |
| ***$Al_2O_3$*** | | | | |
| Atomic Absorption-AFPC IX.7.B | 401 | 2 | 1.41 | 0.071 |
| ICP-inducted coupled plasma-AFPC IX.7.C | 402 | 21 | 1.40 | 0.041 |
| Other(describe) | 403 | 5 | 1.54 | 0.082 |
| Method Group 400 | | 28 | 1.40 | 0.11 |
| ***MgO*** | | | | |
| Atomic Absorption-AFPC IX.8.A | 501 | 2 | 0.33 | 0.009 |
| ICP-inducted coupled plasma-AFPC IX.8.B | 502 | 21 | 0.35 | 0.007 |
| Other(describe) | 503 | 5 | 0.36 | 0.004 |
| Method Group 500 | | 28 | 0.35 | 0.01 |
| ***Acid Insoluble*** | | | | |
| Insoluble-AFPC IX.4.A | 601 | 15 | 3.32 | 0.112 |
| Other(describe) | 602 | 4 | 4.11 | 1.088 |
| Method Group 600 | | 19 | 3.34 | 0.14 |
| ***Carbon Dioxide*** | | | | |
| Gasometric-AFPC IX.13.B | 651 | 15 | 3.52 | 0.073 |
| Other(describe) | 652 | 4 | 3.79 | 0.051 |
| Method Group 650 | | 19 | 3.56 | 0.14 |
| ***CaO*** | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 701 | | | |
| ICP-inducted coupled plasma-AFPC IX.12.D | 702 | 17 | 47.71 | 0.112 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 703 | | | |
| Permanganate | 704 | 1 | 46.91 | 0.000 |
| EDTA Volumetric-AFPC IX.12.C | 705 | | | |
| Other(describe) | 706 | 10 | 47.96 | 0.533 |
| Method Group 700 | | 28 | 47.77 | 0.35 |
| ***CaO (on Dry Basis)*** | | | | |
| Gravimetric sulfate-AFPC IX.12.A | 711 | | | |
| ICP-inducted coupled plasma-AFPC IX.12.D | 712 | 15 | 48.26 | 0.173 |
| Ceric Sulfate volumetric-AFPC IX.12.B | 713 | | | |
| Permanganate | 714 | 1 | 47.18 | 0.000 |
| EDTA Volumetric-AFPC IX.12.C | 715 | | | |
| Other(describe) | 716 | 9 | 48.32 | 0.416 |
| Method Group 710 | | 25 | 48.26 | 0.26 |

| | Method # | # of Anal. | Grand Median | Std Dev |
|---|---|---|---|---|
| ***Fluorine, F*** | | | | |
| Volumetric-AFPC IX.14.A | 801 | | | |
| Specific Ion Electrode-AFPC IX.14.B | 802 | 19 | 3.74 | 0.110 |
| Oher( describe) | 803 | 4 | 3.78 | 0.186 |
| Method Group 800 | | 23 | 3.74 | 0.13 |
| ***Arsenic, As*** | | | | |
| Atomic Absorption | 911 | | | |
| ICP-inducted coupled plasma-AFPC IX.15.B | 912 | 3 | 9.6 | 0.41 |
| Other(describe) | 913 | 3 | 9.0 | 0.41 |
| Method Group 900 | | 6 | 9.1 | 0.35 |
| ***Cadmium, Cd*** | | | | |
| Atomic Absorption-AFPC IX.11.A | 921 | 1 | 6 | 0.0 |
| ICP-inducted coupled plasma-AFPC IX.11.B | 922 | 6 | 5 | 0.8 |
| Other(describe) | 923 | 3 | 8 | 0.8 |
| Method Group 910 | | 10 | 6 | 2.0 |
| ***Cobalt, Co*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 931 | 1 | 3 | 0.0 |
| ICP-inducted coupled plasma-AFPC IX.16.A | 932 | 5 | 2 | 4.0 |
| Other(describe) | 933 | 3 | 4 | 0.7 |
| Method Group 920 | | 9 | 3 | 1.6 |
| ***Mercury, Hg*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 941 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 942 | | | |
| Other(describe) | 943 | 1 | 0.2 | 0.00 |
| Method Group 930 | | 1 | 0.2 | 0.00 |
| ***Molybdenum, Mo*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 951 | 1 | 6 | 0.0 |
| ICP-inducted coupled plasma-AFPC IX.16.A | 952 | 5 | 5 | 2.3 |
| Other(describe) | 953 | 1 | 8 | 0.0 |
| Method Group 940 | | 7 | 6 | 2.2 |
| ***Nickel, Ni*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 961 | 1 | 9 | 0.0 |
| ICP-inducted coupled plasma-AFPC IX.16.A | 962 | 6 | 20 | 15.5 |
| Other(describe) | 963 | 3 | 9 | 0.7 |
| Method Group 950 | | 10 | 10 | 12.1 |
| ***Lead, Pb*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 971 | 1 | 14 | 0.0 |
| ICP-inducted coupled plasma-AFPC IX.16.A | 972 | 3 | 9 | 1.3 |
| Other(describe) | 973 | 3 | 5 | 4.7 |
| Method Group 960 | | 7 | 9 | 4.7 |
| ***Selenium, Se*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 981 | | | |
| ICP-inducted coupled plasma-AFPC IX.16.A | 982 | | | |
| Other(describe) | 983 | 1 | 2 | 0.0 |
| Method Group 970 | | 1 | 2 | 0.0 |
| ***Zinc, Zn*** | | | | |
| Atomic Absorption-AFPC IX.16.B | 991 | 1 | 67 | 0 |
| ICP-inducted coupled plasma-AFPC IX.16.A | 992 | 6 | 102 | 33 |
| Other(describe) | 993 | 3 | 111 | 42 |
| Method Group 980 | | 10 | 97 | 39 |

| 101 | Ground Sample AFPC IX.2.A | | |
|---|---|---|---|
| Lab | % | $H_2O$ | |
| 9 | 1.28 | | -1.092 |
| Std Dev | 1.26 | | -1.000 |
| 21 | 1.21 | | -0.750 |
| 49 | 1.21 | | -0.750 |
| 21 | 1.21 | | -0.724 |
| 49 | 1.19 | | -0.619 |
| 26 | 1.16 | | -0.487 |
| 9 | 1.15 | | -0.435 |
| 10 | 1.15 | | -0.435 |
| 10 | 1.14 | | -0.382 |
| 24 | 1.12 | | -0.251 |
| 24 | 1.11 | | -0.198 |
| 6 | 1.07 | | -0.012 |
| Median | 1.07 | | 0.000 |
| 13 | 1.07 | | 0.012 |
| 15 | 1.04 | | 0.143 |
| 15 | 1.03 | | 0.196 |
| 6 | 1.00 | | 0.380 |
| 13 | 0.97 | | 0.511 |
| 52 | 0.93 | | 0.721 |
| Std Dev | 0.88 | | 1.000 |
| 55 | 0.80 | | 1.404 |
| 75 | 0.75 | | 1.667 |
| 75 | 0.75 | | 1.693 |
| 20 | 0.62 | | 2.377 |
| 77 | 0.51 | | 2.928 |
| 77 | 0.45 | | 3.244 |

| 102 | Other (describe) | | |
|---|---|---|---|
| Lab | % | $H_2O$ | |
| 20 | 0.78 | | -1.340 |
| Std Dev | 0.75 | | -1.000 |
| Median | 0.68 | | 0.000 |
| Std Dev | 0.60 | | 1.000 |
| 241 | 0.58 | | 1.340 |

| 201 | Gravimetric AFPC IX.3.B | | |
|---|---|---|---|
| Lab | % | P2O5 | |
| 55 | 33.20 | | -0.558 |
| 56 | 33.18 | | 0.000 |
| Median | 33.18 | | 0.000 |
| Std Dev | 33.13 | | 1.000 |
| 77 | 33.08 | | 2.122 |

| 202 | ICP-inducted coupled plasma AFPC IX.3.D | | |
|---|---|---|---|
| Lab | % | P2O5 | |
| 10 | 33.16 | | -1.340 |
| Std Dev | 33.15 | | -1.000 |
| Median | 33.14 | | 0.000 |
| Std Dev | 33.12 | | 1.000 |
| 10 | 33.11 | | 1.340 |

| 203 | Photometric-AFPC IX.3.C | | |
|---|---|---|---|
| Lab | % | P2O5 | |
| 241 | 33.58 | | -4.796 |
| Std Dev | 33.18 | | -1.000 |
| 26 | 33.18 | | -0.987 |
| 49 | 33.16 | | -0.799 |
| 49 | 33.11 | | -0.376 |
| 6 | 33.09 | | -0.141 |
| 6 | 33.07 | | 0.000 |
| Median | 33.07 | | 0.000 |
| 92 | 33.02 | | 0.470 |
| 9 | 33.01 | | 0.564 |
| 92 | 32.97 | | 0.940 |
| Std Dev | 32.96 | | 1.000 |
| 9 | 32.90 | | 1.599 |
| 52 | 28.30 | | 44.855 |

| 204 | Automated -AOAC 978.01-15th | | |
|---|---|---|---|
| Lab | % | P2O5 | |
| 13 | 33.25 | | -1.321 |
| Std Dev | 33.20 | | -1.000 |
| 24 | 33.19 | | -0.854 |
| 24 | 33.13 | | -0.388 |
| 21 | 33.09 | | -0.078 |
| 13 | 33.08 | | 0.000 |
| 15 | 33.08 | | 0.000 |
| Median | 33.08 | | 0.000 |
| 15 | 33.04 | | 0.272 |
| Std Dev | 32.95 | | 1.000 |
| 77 | 32.94 | | 1.049 |
| 21 | 32.93 | | 1.165 |
| 75 | 29.69 | | 26.334 |
| 75 | 29.67 | | 26.450 |

| 205 | Other(describe) | | |
|---|---|---|---|
| Lab | % | P2O5 | |
| 20 | 33.61 | | -0.982 |
| 56 | 33.13 | | 0.000 |
| Median | 33.13 | | 0.000 |
| Std Dev | 32.64 | | 1.000 |
| 20 | 32.30 | | 1.698 |

| 211 | Gravimetric AFPC IX.3.B | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 55 | 33.47 | | -1.340 |
| Std Dev | 33.44 | | -1.000 |
| Median | 33.36 | | 0.000 |
| Std Dev | 33.28 | | 1.000 |
| 77 | 33.25 | | 1.340 |

| 212 | ICP-inducted coupled plasma AFPC IX.3.D | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 10 | 33.54 | | -1.340 |
| Std Dev | 33.54 | | -1.000 |
| Median | 33.52 | | 0.000 |
| Std Dev | 33.50 | | 1.000 |
| 10 | 33.50 | | 1.340 |

| 213 | Photometric-AFPC IX.3.C | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 241 | 33.78 | | -2.944 |
| 26 | 33.56 | | -1.156 |
| 49 | 33.55 | | -1.057 |
| Std Dev | 33.55 | | -1.000 |
| 49 | 33.52 | | -0.744 |
| 6 | 33.43 | | 0.000 |
| Median | 33.43 | | 0.000 |
| 6 | 33.42 | | 0.085 |
| 9 | 33.39 | | 0.283 |
| 9 | 33.32 | | 0.867 |
| Std Dev | 33.31 | | 1.000 |
| 52 | 28.57 | | 41.086 |

| 214 | Automated -AOAC 978.01-15th | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 13 | 33.57 | | -0.700 |
| 24 | 33.56 | | -0.646 |
| 24 | 33.50 | | -0.343 |
| 21 | 33.49 | | -0.312 |
| 13 | 33.43 | | -0.040 |
| 15 | 33.42 | | 0.000 |
| Median | 33.42 | | 0.000 |
| 15 | 33.38 | | 0.183 |
| 21 | 33.33 | | 0.446 |
| Std Dev | 33.21 | | 1.000 |
| 77 | 33.09 | | 1.579 |
| 75 | 29.91 | | 16.628 |
| 75 | 29.89 | | 16.693 |

| 215 | Other(describe) | | |
|---|---|---|---|
| Lab | % | P2O5 | dB |
| 20 | 33.82 | | -1.340 |
| Std Dev | 33.66 | | -1.000 |
| Median | 33.19 | | 0.000 |
| Std Dev | 32.71 | | 1.000 |
| 20 | 32.55 | | 1.340 |

| 301 | Atomic Absorption-AFPC IX.6.B | | |
|---|---|---|---|
| Lab | % | Fe2O3 | |
| 241 | 1.08 | | -1.340 |
| Std Dev | 1.06 | | -1.000 |
| Median | 0.99 | | 0.000 |
| Std Dev | 0.91 | | 1.000 |
| 55 | 0.89 | | 1.340 |

| 302 | ICP-inducted coupled plasma-AFPC IX.6.C | | |
|---|---|---|---|
| Lab | % | Fe2O3 | |
| 75 | 1.14 | | -5.312 |
| 13 | 1.12 | | -2.010 |
| 21 | 1.12 | | -2.010 |
| 21 | 1.12 | | -2.010 |
| 75 | 1.11 | | -1.910 |
| Std Dev | 1.11 | | -1.000 |
| 6 | 1.10 | | 0.000 |
| 9 | 1.10 | | 0.000 |
| 9 | 1.10 | | 0.000 |
| 10 | 1.10 | | 0.000 |
| 10 | 1.10 | | 0.000 |
| 15 | 1.10 | | 0.000 |
| 49 | 1.10 | | 0.000 |
| Median | 1.10 | | 0.000 |
| 15 | 1.10 | | 0.670 |

| | | |
|---|---|---|
| Std Dev | 1.09 | 1.000 |
| 6 | 1.09 | 1.005 |
| 13 | 1.09 | 1.340 |
| 49 | 1.09 | 1.340 |
| 92 | 1.08 | 2.680 |
| 92 | 1.07 | 4.020 |
| 24 | 1.01 | 12.730 |
| 24 | 0.99 | 14.740 |
| 52 | 0.58 | 69.680 |

303 Other(describe)

| Lab | % | Fe2O3 |
|---|---|---|
| 77 | 1.25 | -0.838 |
| 77 | 1.24 | -0.782 |
| 56 | 1.10 | 0.000 |
| Median | 1.10 | 0.000 |
| 20 | 1.00 | 0.558 |
| Std Dev | 0.92 | 1.000 |
| 20 | 0.74 | 2.038 |

401 Atomic Absorption-AFPC IX.6.B

| Lab | % | Al2O3 |
|---|---|---|
| 241 | 1.50 | -1.340 |
| Std Dev | 1.48 | -1.000 |
| Median | 1.41 | 0.000 |
| Std Dev | 1.33 | 1.000 |
| 55 | 1.31 | 1.340 |

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

| Lab | % | Al2O3 |
|---|---|---|
| 52 | 2.18 | -19.004 |
| 92 | 1.58 | -4.385 |
| 92 | 1.55 | -3.655 |
| 24 | 1.46 | -1.462 |
| Std Dev | 1.44 | -1.000 |
| 6 | 1.41 | -0.244 |
| 10 | 1.41 | -0.244 |
| 24 | 1.41 | -0.244 |
| 49 | 1.41 | -0.122 |
| 6 | 1.40 | 0.000 |
| 9 | 1.40 | 0.000 |
| 10 | 1.40 | 0.000 |
| Median | 1.40 | 0.000 |
| 49 | 1.39 | 0.244 |
| 13 | 1.39 | 0.365 |
| 13 | 1.38 | 0.487 |
| 9 | 1.38 | 0.609 |
| Std Dev | 1.36 | 1.000 |
| 15 | 1.36 | 1.096 |
| 15 | 1.35 | 1.218 |
| 21 | 1.35 | 1.218 |
| 21 | 1.34 | 1.584 |
| 75 | 0.78 | 15.171 |
| 75 | 0.76 | 15.695 |

403 Other(describe)

| Lab | % | Al2O3 |
|---|---|---|
| 77 | 1.63 | -1.096 |
| Std Dev | 1.62 | -1.000 |
| 77 | 1.61 | -0.853 |
| 56 | 1.54 | 0.000 |
| Median | 1.54 | 0.000 |
| 20 | 1.50 | 0.487 |
| Std Dev | 1.46 | 1.000 |
| 20 | 0.92 | 7.553 |

501 Atomic Absorption-AFPC IX.8.A

| Lab | % | MgO |
|---|---|---|
| 241 | 0.34 | -1.340 |
| Std Dev | 0.34 | -1.000 |
| Median | 0.33 | 0.000 |
| Std Dev | 0.32 | 1.000 |
| 55 | 0.32 | 1.340 |

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

| Lab | % | MgO |
|---|---|---|
| 52 | 0.59 | -32.830 |
| 75 | 0.41 | -9.246 |
| 75 | 0.40 | -7.380 |
| 92 | 0.39 | -6.030 |
| Std Dev | 0.35 | -1.000 |
| 6 | 0.35 | -0.670 |
| 13 | 0.35 | -0.670 |
| 13 | 0.35 | -0.670 |
| 15 | 0.35 | -0.670 |
| 21 | 0.35 | -0.670 |
| 9 | 0.35 | 0.000 |
| 15 | 0.35 | 0.000 |
| 21 | 0.35 | 0.000 |
| Median | 0.35 | 0.000 |
| 6 | 0.34 | 0.670 |
| 9 | 0.34 | 0.670 |
| 10 | 0.34 | 0.670 |
| 10 | 0.34 | 0.670 |
| 24 | 0.34 | 0.670 |
| 24 | 0.34 | 0.670 |
| 49 | 0.34 | 0.670 |
| 49 | 0.34 | 0.670 |
| Std Dev | 0.34 | 1.000 |
| 92 | 0.33 | 2.010 |

503 Other(describe)

| Lab | % | MgO |
|---|---|---|
| 77 | 0.37 | -2.680 |
| 20 | 0.37 | -1.340 |
| Std Dev | 0.36 | -1.000 |
| 56 | 0.36 | 0.000 |
| 77 | 0.36 | 0.000 |
| Median | 0.36 | 0.000 |
| Std Dev | 0.36 | 1.000 |
| 20 | 0.31 | 13.400 |

601 Insoluble-AFPC IX.4.A

| Lab | % | Al |
|---|---|---|
| 55 | 3.80 | -4.333 |
| Std Dev | 3.43 | -1.000 |
| 15 | 3.40 | -0.759 |
| 15 | 3.38 | -0.536 |
| 49 | 3.36 | -0.357 |
| 10 | 3.35 | -0.313 |
| 13 | 3.35 | -0.313 |
| 9 | 3.34 | -0.223 |
| 49 | 3.32 | 0.000 |
| Median | 3.32 | 0.000 |
| 13 | 3.26 | 0.491 |
| 9 | 3.24 | 0.715 |
| 10 | 3.21 | 0.938 |
| Std Dev | 3.20 | 1.000 |
| 21 | 3.20 | 1.072 |
| 26 | 3.06 | 2.278 |
| 24 | 2.97 | 3.082 |
| 24 | 2.93 | 3.484 |

602 Other(describe)

| Lab | % | Al |
|---|---|---|
| 20 | 4.83 | -0.667 |
| 20 | 4.78 | -0.621 |
| Median | 4.11 | 0.000 |
| 6 | 3.43 | 0.621 |
| 6 | 3.05 | 0.970 |

651 Gasometric-AFPC IX.13.B

| Lab | % | CO2 |
|---|---|---|
| 13 | 3.72 | -2.680 |
| 13 | 3.69 | -2.268 |
| 9 | 3.67 | -2.062 |
| 15 | 3.60 | -1.099 |
| Std Dev | 3.59 | -1.000 |
| 15 | 3.59 | -0.962 |
| 9 | 3.56 | -0.550 |
| 6 | 3.54 | -0.206 |
| 21 | 3.52 | 0.000 |
| Median | 3.52 | 0.000 |
| 24 | 3.50 | 0.275 |
| 24 | 3.50 | 0.275 |
| 52 | 3.50 | 0.275 |
| 49 | 3.50 | 0.344 |
| 49 | 3.45 | 0.962 |
| Std Dev | 3.45 | 1.000 |
| 6 | 3.45 | 1.031 |
| 77 | 3.38 | 1.924 |

652 Other(describe)

| Lab | % | CO2 |
|---|---|---|
| 20 | 3.91 | -2.241 |
| Std Dev | 3.84 | -1.000 |
| 55 | 3.80 | -0.195 |
| Median | 3.79 | 0.000 |
| 20 | 3.78 | 0.195 |
| Std Dev | 3.74 | 1.000 |
| 56 | 3.69 | 1.949 |

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 | |
| 13 | 48.19 | | -4.333 |
| 92 | 48.10 | | -3.529 |
| 21 | 48.06 | | -3.127 |
| 49 | 47.83 | | -1.072 |
| Std Dev | 47.82 | | -1.000 |
| 92 | 47.81 | | -0.938 |
| 10 | 47.80 | | -0.849 |
| 6 | 47.79 | | -0.782 |
| 13 | 47.75 | | -0.402 |
| 6 | 47.71 | | 0.000 |
| 9 | 47.71 | | 0.000 |
| Median | 47.71 | | 0.000 |
| 10 | 47.69 | | 0.134 |
| 49 | 47.69 | | 0.179 |
| 21 | 47.66 | | 0.402 |
| Std Dev | 47.59 | | 1.000 |
| 9 | 47.41 | | 2.680 |
| 75 | 42.09 | | 50.152 |
| 75 | 41.78 | | 52.966 |
| 52 | 38.00 | | 86.698 |

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

| 704 | Permanganate | | |
|---|---|---|---|
| Lab | % | CaO | |
| 241 | 46.91 | | 0.000 |
| Median | 46.91 | | 0.000 |

| 705 | EDTA Volumetric-AFPC IX.12.C | | |
|---|---|---|---|
| Lab | % | CaO | |
| Median | 0.00 | | 0.000 |

| 706 | Other(describe) | | |
|---|---|---|---|
| Lab | % | CaO | |
| 77 | 48.60 | | -1.211 |
| 20 | 48.50 | | -1.023 |
| Std Dev | 48.49 | | -1.000 |
| 77 | 48.40 | | -0.835 |
| 20 | 48.30 | | -0.648 |
| 56 | 48.11 | | -0.291 |
| Median | 47.96 | | 0.000 |
| 55 | 47.80 | | 0.291 |
| 24 | 47.79 | | 0.319 |
| 15 | 47.62 | | 0.629 |
| 15 | 47.53 | | 0.807 |
| 24 | 47.53 | | 0.807 |

| 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 |
| 13 | 48.66 | | -2.324 |
| 21 | 48.64 | | -2.217 |
| Std Dev | 48.43 | | -1.000 |
| 49 | 48.40 | | -0.801 |
| 10 | 48.36 | | -0.556 |
| 6 | 48.31 | | -0.284 |
| 49 | 48.27 | | -0.052 |
| 13 | 48.26 | | -0.023 |
| 9 | 48.26 | | 0.000 |
| Median | 48.26 | | 0.000 |
| 21 | 48.24 | | 0.108 |
| 10 | 48.24 | | 0.116 |
| 6 | 48.18 | | 0.437 |
| Std Dev | 48.09 | | 1.000 |
| 9 | 48.02 | | 1.403 |
| 75 | 42.41 | | 33.835 |
| 75 | 42.09 | | 35.657 |
| 52 | 38.36 | | 57.248 |

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

| 714 | Permanganate | | |
|---|---|---|---|
| Lab | % | CaO | dB |
| 241 | 47.18 | | 0.000 |
| Median | 47.18 | | 0.000 |

| 715 | EDTA Volumetric-AFPC IX.12.C | | |
|---|---|---|---|
| Lab | % | CaO | dB |
| Median | 0.00 | | 0.000 |

| 716 | Other(describe) | | |
|---|---|---|---|
| Lab | % | CaO | dB |
| 77 | 48.82 | | -1.193 |
| 20 | 48.80 | | -1.146 |
| Std Dev | 48.74 | | -1.000 |
| 20 | 48.68 | | -0.851 |
| 77 | 48.65 | | -0.780 |
| 24 | 48.32 | | 0.000 |
| Median | 48.32 | | 0.000 |
| 55 | 48.19 | | 0.333 |
| 15 | 48.12 | | 0.489 |
| 24 | 48.06 | | 0.644 |
| 15 | 48.02 | | 0.732 |

| 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 |
| 6 | 3.95 | -1.908 |
| 21 | 3.94 | -1.817 |
| 13 | 3.86 | -1.090 |
| Std Dev | 3.85 | -1.000 |
| 21 | 3.85 | -0.999 |
| 6 | 3.83 | -0.818 |
| 9 | 3.83 | -0.818 |
| 13 | 3.82 | -0.727 |
| 49 | 3.77 | -0.227 |
| 26 | 3.74 | 0.000 |
| 49 | 3.74 | 0.000 |
| Median | 3.74 | 0.000 |
| 9 | 3.73 | 0.091 |
| 24 | 3.73 | 0.091 |
| 24 | 3.72 | 0.182 |
| 15 | 3.72 | 0.227 |
| 15 | 3.65 | 0.818 |
| Std Dev | 3.63 | 1.000 |
| 75 | 3.40 | 3.134 |
| 55 | 3.39 | 3.180 |
| 75 | 3.34 | 3.634 |
| 52 | 2.47 | 11.538 |

| 803 | Oher( describe) | |
|---|---|---|
| Lab | % | Fluorine, F |
| 77 | 3.91 | -0.687 |
| 77 | 3.89 | -0.579 |
| Median | 3.78 | 0.000 |
| 20 | 3.68 | 0.579 |
| Std Dev | 3.60 | 1.000 |
| 20 | 3.56 | 1.199 |

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

| 912 | ICP-inducted coupled plasma-AFPC IX.15.I | |
|---|---|---|
| Lab | ppm | Arsenic, As |
| 52 | 10.3 | -1.827 |
| Std Dev | 10.0 | -1.000 |
| 24 | 9.6 | 0.000 |
| Median | 9.6 | 0.000 |
| 24 | 9.2 | 0.853 |

| 913 | Other(describe) | |
|---|---|---|
| Lab | ppm | Arsenic, As |
| 20 | 9.0 | 0.000 |
| 20 | 9.0 | 0.000 |
| Median | 9.0 | 0.000 |
| Std Dev | 8.6 | 1.000 |
| 13 | 7.9 | 2.680 |

| 921 | Atomic Absorption-AFPC IX.11.A | |
|---|---|---|
| Lab | ppm | Cadmium, Cd |
| 55 | 6 | 0.000 |
| Median | 6 | 0.000 |

| 922 | ICP-inducted coupled plasma-AFPC IX.11.I | |
|---|---|---|
| Lab | ppm | Cadmium, Cd |
| 52 | 99 | ####### |
| Std Dev | 6 | -1.000 |
| 24 | 6 | -0.542 |
| 24 | 5 | -0.422 |
| Median | 5 | 0.000 |
| 77 | 5 | 0.422 |
| 75 | 4 | 0.964 |
| Std Dev | 4 | 1.000 |

| | | |
|---|---|---|
| 75 | 4 | 1.084 |

| 923 | Other(describe) | |
|---|---|---|
| Lab | ppm | Cadmium, Cd |
| 20 | 8 | 0.000 |
| 20 | 8 | 0.000 |
| Median | 8 | 0.000 |
| Std Dev | 7 | 1.000 |
| 13 | 6 | 2.680 |

| 931 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Cobalt, Co |
| 55 | 3 | 0.000 |
| Median | 3 | 0.000 |

| 932 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Cobalt, Co |
| 75 | 7 | -1.328 |
| 75 | 7 | -1.241 |
| Std Dev | 6 | -1.000 |
| 77 | 2 | 0.000 |
| Median | 2 | 0.000 |
| 24 | 2 | 0.099 |
| 24 | 1 | 0.112 |

| 933 | Other(describe) | |
|---|---|---|
| Lab | ppm | Cobalt, Co |
| 20 | 4 | -0.610 |
| 13 | 4 | 0.000 |
| Median | 4 | 0.000 |
| Std Dev | 3 | 1.000 |
| 20 | 2 | 2.070 |

| 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 |
| Median | 0.0 | 0.000 |

| 943 | Other(describe) | |
|---|---|---|
| Lab | ppm | Mercury, Hg |
| 13 | 0.2 | 0.000 |
| Median | 0.2 | 0.000 |

| 951 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | lolybdenum, Mo |
| 55 | 6 | 0.000 |
| Median | 6 | 0.000 |

| 952 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | lolybdenum, Mo |
| 24 | 7 | -1.232 |
| 24 | 7 | -1.124 |
| Std Dev | 7 | -1.000 |
| 77 | 5 | 0.000 |
| Median | 5 | 0.000 |
| 20 | 4 | 0.216 |
| 20 | 3 | 0.648 |

| 953 | Other(describe) | |
|---|---|---|
| Lab | ppm | lolybdenum, Mo |
| 13 | 8 | 0.000 |
| Median | 8 | 0.000 |

| 961 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Nickel, Ni |
| 55 | 9 | 0.000 |
| Median | 9 | 0.000 |

| 962 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Nickel, Ni |
| 52 | 97 | -4.983 |
| Std Dev | 35 | -1.000 |
| 75 | 31 | -0.697 |
| 75 | 30 | -0.642 |
| Median | 20 | 0.000 |
| 24 | 10 | 0.642 |
| 24 | 10 | 0.662 |
| 77 | 8 | 0.768 |

| 963 | Other(describe) | |
|---|---|---|
| Lab | ppm | Nickel, Ni |
| 13 | 11 | -2.680 |
| Std Dev | 10 | -1.000 |
| 20 | 9 | 0.000 |
| 20 | 9 | 0.000 |
| Median | 9 | 0.000 |

| 971 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Lead, Pb |
| 55 | 14 | 0.000 |
| Median | 14 | 0.000 |

| 972 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Lead, Pb |
| 77 | 12 | -2.603 |
| Std Dev | 10 | -1.000 |
| 24 | 9 | 0.000 |
| Median | 9 | 0.000 |
| 24 | 9 | 0.077 |

| 973 | Other(describe) | |
|---|---|---|
| Lab | ppm | Lead, Pb |
| 13 | 17 | -2.466 |
| Std Dev | 10 | -1.000 |
| 20 | 5 | 0.000 |
| Median | 5 | 0.000 |
| 20 | 4 | 0.214 |

| 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 |
| Median | 0 | 0.000 |

| 983 | Other(describe) | |
|---|---|---|
| Lab | ppm | Selenium, Se |
| 13 | 2 | 0.000 |
| Median | 2 | 0.000 |

| 991 | Atomic Absorption-AFPC IX.16.B | |
|---|---|---|
| Lab | ppm | Zinc, Zn |
| 55 | 67 | 0.000 |
| Median | 67 | 0.000 |

| 992 | ICP-inducted coupled plasma-AFPC IX.16.A | |
|---|---|---|
| Lab | ppm | Zinc, Zn |
| 52 | 962 | -26.050 |
| Std Dev | 135 | -1.000 |
| 24 | 122 | -0.594 |
| 24 | 121 | -0.553 |
| Median | 102 | 0.000 |
| 75 | 84 | 0.553 |
| 75 | 75 | 0.824 |
| Std Dev | 69 | 1.000 |
| 77 | 67 | 1.068 |

| 993 | Other(describe) | |
|---|---|---|
| Lab | ppm | Zinc, Zn |
| 20 | 175 | -1.536 |
| Std Dev | 152 | -1.000 |
| 20 | 111 | 0.000 |
| Median | 111 | 0.000 |
| Std Dev | 69 | 1.000 |
| 13 | 62 | 1.144 |