



Minerals Scheme

Dog Feed

Test Material Code # 201954

Analyte Summary Report

Labs Reporting: 28

Analytes Reported: 16

Issue Date : 01/31/2020

| Analyte Group Code | Analyte and Method | Total # Tests Submitted | # Tests in Robust Calcs | Raw Mean | Raw SD | Assigned Value Robust Mean | Horwitz SD | Uncertainty (U) Robust | % RSD - Horwitz | Average Range (R-bar) | Thompson Horwitz %RSD |
|--------------------|----------------------|-------------------------|-------------------------|----------|--------|----------------------------|------------|------------------------|-----------------|-----------------------|-----------------------|
| 015 | Aluminum (ppm) | 14 | 14 | 65.07 | 19.87 | 64.76 | 5.530 | 6.512 | 8.54% | 5.167 | 8.54% |
| 017 | Boron (ppm) | 8 | 8 | 24.33 | 2.342 | 24.13 | 2.391 | 0.9587 | 9.91% | 1.441 | 9.91% |
| 021 | Cobalt (ppm) | 15 | 15 | 1.084 | 0.3004 | 1.084 | 0.1713 | 0.1100 | 15.80% | 0.1079 | 15.80% |
| 022 | Copper (ppm) | 27 | 26 | 20.52 | 1.753 | 20.67 | 2.096 | 0.3263 | 10.14% | 0.9304 | 10.14% |
| 023 | Fluorine (ppm) | 3 | 3 | 216.1 | 71.72 | 216.1 | 15.39 | 8.888 | 7.12% | 5.970 | 7.12% |
| 024 | Iodine (ppm) | 3 | 3 | 87.97 | 3.325 | 87.97 | 7.173 | 4.142 | 8.15% | 2.467 | 8.15% |
| 034 | Selenium (ppm) | 15 | 13 | 1.177 | 1.973 | 0.5846 | 0.1014 | 0.0434 | 17.34% | 0.1147 | 17.34% |
| 036 | Sulfur (%) | 15 | 15 | 0.3924 | 0.0267 | 0.3924 | 0.0181 | 0.0098 | 4.60% | 0.0153 | 4.60% |
| 038 | Molybdenum (ppm) | 16 | 15 | 2.286 | 0.1811 | 2.286 | 0.3228 | 0.0663 | 14.13% | 0.0940 | 14.13% |
| 041 | Vanadium (ppm) | 8 | 8 | 10.57 | 2.728 | 10.91 | 1.218 | 0.9675 | 11.16% | 0.5661 | 11.16% |
| 516 | Arsenic, Total (ppm) | 21 | 20 | 28.01 | 4.807 | 28.62 | 2.763 | 0.7446 | 9.66% | 2.191 | 9.66% |
| 518 | Cadmium (ppm) | 22 | 20 | 10.38 | 0.7821 | 10.37 | 1.167 | 0.2314 | 11.25% | 0.3921 | 11.25% |
| 520 | Chromium (ppm) | 18 | 17 | 2.690 | 1.437 | 2.560 | 0.3554 | 0.3964 | 13.89% | 0.3280 | 13.89% |
| 526 | Lead (ppm) | 21 | 21 | 3.651 | 0.6802 | 3.740 | 0.4906 | 0.1194 | 13.12% | 0.2000 | 13.12% |
| 529 | Mercury (ppb) | 13 | 12 | 114.2 | 144.5 | 83.24 | 18.31 | 22.65 | 22.00% | 6.277 | 22.00% |
| 539 | Nickel (ppm) | 16 | 15 | 3.371 | 0.4905 | 3.318 | 0.4431 | 0.1236 | 13.36% | 0.3279 | 13.36% |

Notes: Robust statistics not used if < 6 labs reporting. In this case Means and SD's may be reported based on Raw Data with obvious blunders removed. Robust Assigned Values indicated in bold font. Horwitz and Revised Horwitz SD's assigned regardless of participant number.