



Minerals Scheme

Tortoise Feed

Test Material Code # 202154

Analyte Summary Report

Labs Reporting: 31

Analytes Reported: 17

Issue Date : 01/31/2022

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)	19	19	183.4	27.06	187.3	13.63	5.078	7.28%	5.022	7.28%
017	Boron (ppm)	11	11	163.4	12.98	163.2	12.13	5.449	7.43%	7.944	7.43%
021	Cobalt (ppm)	22	20	1.206	0.2525	1.211	0.1882	0.0772	15.54%	0.0408	15.54%
022	Copper (ppm)	29	29	473.7	22.37	473.6	29.98	4.995	6.33%	15.03	6.33%
023	Fluorine (ppm)	2	2	29.25	5.303						
024	Iodine (ppm)	2	1	1.320							
034	Selenium, Total (Se) (ppm)	23	19	4.441	5.985	3.084	0.4165	0.1603	13.50%	0.1402	13.50%
036	Sulfur (%)	19	17	0.2223	0.0170	0.2212	0.0111	0.0050	5.02%	0.0032	5.02%
038	Molybdenum (ppm)	25	25	141.0	25.71	137.4	10.48	2.479	7.62%	7.226	7.62%
041	Vanadium (ppm)	11	8	1.825	0.2063	1.824	0.2665	0.0957	14.61%	0.0353	14.61%
516	Arsenic, Total (As) (ppm)	27	26	27.76	5.812	28.92	2.788	0.5010	9.64%	1.160	9.64%
518	Cadmium (ppm)	27	24	0.4479	0.1676	0.4196	0.0765	0.0215	18.23%	0.0260	18.23%
520	Chromium, Total (Cr) (ppm)	25	22	5.722	0.7241	5.765	0.7085	0.1936	12.29%	0.2025	12.29%
526	Lead (ppm)	28	26	4.446	0.9423	4.532	0.5775	0.1651	12.74%	0.1415	12.74%
529	Mercury (ppb)	19	16	93.43	107.8	63.45	13.96	8.583	22.00%	3.561	22.00%
539	Nickel (ppm)	21	21	232.3	15.73	232.0	16.35	3.487	7.05%	9.305	7.05%
542	Arsenic, Inorganic (iAs) (ppm)	1	1	16.20							

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.