

Minerals Scheme

Alfalfa

Test Material Code # 202051

Analyte Proficiency Testing Report

Labs Reporting: 28

Analytes Reported 16

Issue Date : 04/30/2020

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
015	Aluminum (ppm)	0278	517.5	62.96	1,075	60.17	53.58	16	-9.27	015.43	0
015	Aluminum (ppm)	2207	613.5	89.00	1,075	60.17	53.58	16	-7.68	015.52	0
015	Aluminum (ppm)	0186	658.3	10.30	1,075	60.17	53.58	16	-6.93	015.52	0
015	Aluminum (ppm)	0042	881.5	139.0	1,075	60.17	53.58	16	-3.22	015.42	0
015	Aluminum (ppm)	0918	912.5	18.00	1,075	60.17	53.58	16	-2.71	015.53	0
015	Aluminum (ppm)	0098	920.3	5.600	1,075	60.17	53.58	16	-2.58	015.43	0
015	Aluminum (ppm)	0208	1,075	30.00	1,075	60.17	53.58	16	-0.01	015.41	0
015	Aluminum (ppm)	0407	1,126	14.23	1,075	60.17	53.58	16	0.85	015.41	0
015	Aluminum (ppm)	0510	1,136	4.000	1,075	60.17	53.58	16	1.01	015.43	0
015	Aluminum (ppm)	0227	1,210	40.00	1,075	60.17	53.58	16	2.24	015.41	0
015	Aluminum (ppm)	2299	1,240	20.00	1,075	60.17	53.58	16	2.74	015.43	0
015	Aluminum (ppm)	0629	1,278	5.000	1,075	60.17	53.58	16	3.36	015.43	0
015	Aluminum (ppm)	0015	1,290	125.2	1,075	60.17	53.58	16	3.57	015.53	0
015	Aluminum (ppm)	0553	1,315	70.00	1,075	60.17	53.58	16	3.98	015.53	0
015	Aluminum (ppm)	0964	1,399	19.97	1,075	60.17	53.58	16	5.38	015.43	0
015	Aluminum (ppm)	2292	1,672	204.0	1,075	60.17	53.58	16	9.92	015.99	0
015	Aluminum (ppm)	2033	1,572	321.2	1,075	60.17	53.58	16	8.26	015.43	1
017	Boron (ppm)	0629	68.20	1.900	84.60	6.940	5.471	11	-2.36	017.43	0
017	Boron (ppm)	0553	73.05	1.300	84.60	6.940	5.471	11	-1.66	017.53	0
017	Boron (ppm)	0918	74.99	0.0100	84.60	6.940	5.471	11	-1.39	017.43	0
017	Boron (ppm)	0407	78.94	2.528	84.60	6.940	5.471	11	-0.82	017.41	0
017	Boron (ppm)	0098	79.42	6.040	84.60	6.940	5.471	11	-0.75	017.43	0
017	Boron (ppm)	0510	79.50	1.000	84.60	6.940	5.471	11	-0.74	017.43	0
017	Boron (ppm)	2299	83.00	2.000	84.60	6.940	5.471	11	-0.23	017.43	0
017	Boron (ppm)	2207	89.00	6.000	84.60	6.940	5.471	11	0.63	017.52	0
017	Boron (ppm)	0870	98.63	6.020	84.60	6.940	5.471	11	2.02	017.43	0
017	Boron (ppm)	0015	100.7	13.88	84.60	6.940	5.471	11	2.32	017.53	0
017	Boron (ppm)	2033	105.3	19.50	84.60	6.940	5.471	11	2.98	017.43	0
021	Cobalt (ppm)	0278	8.735	1.090	13.65	1.473	0.7765	17	-3.33	021.43	0
021	Cobalt (ppm)	2113	8.775	0.5500	13.65	1.473	0.7765	17	-3.31	021.52	0
021	Cobalt (ppm)	2207	8.850	0.7000	13.65	1.473	0.7765	17	-3.26	021.52	0
021	Cobalt (ppm)	0918	10.97	1.605	13.65	1.473	0.7765	17	-1.82	021.53	0
021	Cobalt (ppm)	0186	11.49	0.0600	13.65	1.473	0.7765	17	-1.46	021.52	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
021	Cobalt (ppm)	0042	11.50	1.800	13.65	1.473	0.7765	17	-1.46	021.42	0
021	Cobalt (ppm)	0629	13.08	1.050	13.65	1.473	0.7765	17	-0.39	021.43	0
021	Cobalt (ppm)	0407	13.54	0.4720	13.65	1.473	0.7765	17	-0.07	021.41	0
021	Cobalt (ppm)	2141	14.18	0.5000	13.65	1.473	0.7765	17	0.36	021.43	0
021	Cobalt (ppm)	0098	14.84	1.030	13.65	1.473	0.7765	17	0.81	021.43	0
021	Cobalt (ppm)	0208	15.45	1.500	13.65	1.473	0.7765	17	1.22	021.31	0
021	Cobalt (ppm)	0510	15.84	0.2000	13.65	1.473	0.7765	17	1.49	021.43	0
021	Cobalt (ppm)	0227	16.00	0.0000	13.65	1.473	0.7765	17	1.60	021.31	0
021	Cobalt (ppm)	0015	16.89	0.9700	13.65	1.473	0.7765	17	2.20	021.53	0
021	Cobalt (ppm)	0553	17.05	0.1000	13.65	1.473	0.7765	17	2.31	021.53	0
021	Cobalt (ppm)	0964	17.31	0.5736	13.65	1.473	0.7765	17	2.49	021.43	0
021	Cobalt (ppm)	2299	17.50	1.000	13.65	1.473	0.7765	17	2.62	021.43	0
021	Cobalt (ppm)	2033	19.92	4.650	13.65	1.473	0.7765	17	4.26	021.43	1
022	Copper (ppm)	0010	0.0012	0.0000	11.25	1.250	0.7288	25	-9.00	022.33	0
022	Copper (ppm)	0278	8.650	0.3000	11.25	1.250	0.7288	25	-2.08	022.42	0
022	Copper (ppm)	0015	9.020	3.520	11.25	1.250	0.7288	25	-1.78	022.53	0
022	Copper (ppm)	0017	9.596	1.889	11.25	1.250	0.7288	25	-1.32	022.43	0
022	Copper (ppm)	0629	9.665	0.0300	11.25	1.250	0.7288	25	-1.27	022.43	0
022	Copper (ppm)	0510	10.00	0.0000	11.25	1.250	0.7288	25	-1.00	022.43	0
022	Copper (ppm)	2113	10.25	0.6400	11.25	1.250	0.7288	25	-0.80	022.52	0
022	Copper (ppm)	0098	10.37	0.4100	11.25	1.250	0.7288	25	-0.71	022.53	0
022	Copper (ppm)	0553	10.60	0.0000	11.25	1.250	0.7288	25	-0.52	022.53	0
022	Copper (ppm)	0918	10.63	0.1500	11.25	1.250	0.7288	25	-0.50	022.43	0
022	Copper (ppm)	2114	10.90	0.4900	11.25	1.250	0.7288	25	-0.29	022.99	0
022	Copper (ppm)	0208	11.12	0.7100	11.25	1.250	0.7288	25	-0.11	022.41	0
022	Copper (ppm)	0186	11.26	0.0900	11.25	1.250	0.7288	25	0.00	022.52	0
022	Copper (ppm)	2141	11.58	0.5900	11.25	1.250	0.7288	25	0.26	022.43	0
022	Copper (ppm)	0407	11.71	0.0570	11.25	1.250	0.7288	25	0.36	022.41	0
022	Copper (ppm)	0208	11.75	0.3000	11.25	1.250	0.7288	25	0.40	022.31	0
022	Copper (ppm)	0227	12.00	0.0000	11.25	1.250	0.7288	25	0.60	022.41	0
022	Copper (ppm)	0964	12.16	0.2339	11.25	1.250	0.7288	25	0.73	022.43	0
022	Copper (ppm)	0186	12.43	0.7100	11.25	1.250	0.7288	25	0.94	022.42	0
022	Copper (ppm)	2299	12.50	1.000	11.25	1.250	0.7288	25	1.00	022.43	0
022	Copper (ppm)	2207	12.50	1.000	11.25	1.250	0.7288	25	1.00	022.52	0
022	Copper (ppm)	0202	12.78	1.500	11.25	1.250	0.7288	25	1.22	022.43	0
022	Copper (ppm)	2292	13.50	1.000	11.25	1.250	0.7288	25	1.80	022.99	0
022	Copper (ppm)	0529	14.05	0.5000	11.25	1.250	0.7288	25	2.24	022.31	0
022	Copper (ppm)	2033	15.55	3.100	11.25	1.250	0.7288	25	3.44	022.43	0
022	Copper (ppm)	0870	15.60	5.350	11.25	1.250	0.7288	25	3.47	022.43	1
023	Fluorine (ppm)	2299	134.5	3.000				1		023.99	0
023	Fluorine (ppm)	0227	< 15					1		023.01	5
024	Iodine (ppm)	2033	330.0	0.0000	343.3	22.81	17.00	4		024.53	0

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024	Iodine (ppm)	0208	343.0	24.00	343.3	22.81	17.00	4		024.99	0
024	Iodine (ppm)	0186	350.0	24.00	343.3	22.81	17.00	4		024.52	0
024	Iodine (ppm)	2299	350.0	20.00	343.3	22.81	17.00	4		024.99	0
034	Selenium (ppm)	0227	4.465	0.0500	5.254	0.6548	0.3140	16	-1.21	034.51	0
034	Selenium (ppm)	0098	4.595	0.1440	5.254	0.6548	0.3140	16	-1.01	034.53	0
034	Selenium (ppm)	0407	4.875	0.0900	5.254	0.6548	0.3140	16	-0.58	034.41	0
034	Selenium (ppm)	2141	4.880	0.7600	5.254	0.6548	0.3140	16	-0.57	034.43	0
034	Selenium (ppm)	0629	4.910	0.1400	5.254	0.6548	0.3140	16	-0.53	034.43	0
034	Selenium (ppm)	0553	4.955	0.3900	5.254	0.6548	0.3140	16	-0.46	034.53	0
034	Selenium (ppm)	0186	5.067	0.0650	5.254	0.6548	0.3140	16	-0.29	034.52	0
034	Selenium (ppm)	0964	5.169	0.0881	5.254	0.6548	0.3140	16	-0.13	034.43	0
034	Selenium (ppm)	2207	5.200	0.6000	5.254	0.6548	0.3140	16	-0.08	034.52	0
034	Selenium (ppm)	0010	5.500	1.000	5.254	0.6548	0.3140	16	0.38	034.53	0
034	Selenium (ppm)	0015	5.505	0.6100	5.254	0.6548	0.3140	16	0.38	034.53	0
034	Selenium (ppm)	0208	5.560	0.2600	5.254	0.6548	0.3140	16	0.47	034.52	0
034	Selenium (ppm)	0918	5.567	0.1365	5.254	0.6548	0.3140	16	0.48	034.53	0
034	Selenium (ppm)	2033	5.690	0.2600	5.254	0.6548	0.3140	16	0.67	034.53	0
034	Selenium (ppm)	0870	6.525	0.4300	5.254	0.6548	0.3140	16	1.94	034.43	0
034	Selenium (ppm)	2299	7.000	0.0000	5.254	0.6548	0.3140	16	2.67	034.43	0
034	Selenium (ppm)	0042	< 16		5.254	0.6548	0.3140	16		034.42	5
036	Sulfur (%)	2292	0.2620	0.0180	0.3205	0.0152	0.0339	17	-3.84	036.99	0
036	Sulfur (%)	2141	0.2799	0.0072	0.3205	0.0152	0.0339	17	-2.67	036.43	0
036	Sulfur (%)	0278	0.2800	0.0200	0.3205	0.0152	0.0339	17	-2.66	036.42	0
036	Sulfur (%)	0918	0.3015	0.0030	0.3205	0.0152	0.0339	17	-1.25	036.43	0
036	Sulfur (%)	0407	0.3055	0.0030	0.3205	0.0152	0.0339	17	-0.98	036.42	0
036	Sulfur (%)	2299	0.3100	0.0000	0.3205	0.0152	0.0339	17	-0.69	036.43	0
036	Sulfur (%)	0208	0.3135	0.0010	0.3205	0.0152	0.0339	17	-0.46	036.00	0
036	Sulfur (%)	0553	0.3145	0.0170	0.3205	0.0152	0.0339	17	-0.39	036.53	0
036	Sulfur (%)	0015	0.3150	0.0100	0.3205	0.0152	0.0339	17	-0.36	036.53	0
036	Sulfur (%)	0629	0.3200	0.0200	0.3205	0.0152	0.0339	17	-0.03	036.43	0
036	Sulfur (%)	2207	0.3250	0.0300	0.3205	0.0152	0.0339	17	0.30	036.42	0
036	Sulfur (%)	0202	0.3350	0.0300	0.3205	0.0152	0.0339	17	0.96	036.43	0
036	Sulfur (%)	0098	0.3365	0.0330	0.3205	0.0152	0.0339	17	1.05	036.43	0
036	Sulfur (%)	0510	0.3450	0.0100	0.3205	0.0152	0.0339	17	1.61	036.43	0
036	Sulfur (%)	0964	0.3549	0.0017	0.3205	0.0152	0.0339	17	2.26	036.43	0
036	Sulfur (%)	2033	0.4150	0.0700	0.3205	0.0152	0.0339	17	6.22	036.43	0
036	Sulfur (%)	0870	0.4564	0.3020	0.3205	0.0152	0.0339	17	8.94	036.42	0
036	Sulfur (%)	0227	3,057	81.00	0.3205	0.0152	0.0339	17	200908.07	036.42	2
038	Molybdenum (ppm)	2113	2.370	0.0400	2.927	0.3984	0.1505	18	-1.40	038.52	0
038	Molybdenum (ppm)	0042	2.460	0.1200	2.927	0.3984	0.1505	18	-1.17	038.42	0
038	Molybdenum (ppm)	0918	2.469	0.0632	2.927	0.3984	0.1505	18	-1.15	038.53	0
038	Molybdenum (ppm)	2207	2.600	0.2000	2.927	0.3984	0.1505	18	-0.82	038.52	0

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038	Molybdenum (ppm)	0629	2.665	0.3700	2.927	0.3984	0.1505	18	-0.66	038.43	0
038	Molybdenum (ppm)	0407	2.742	0.1510	2.927	0.3984	0.1505	18	-0.47	038.41	0
038	Molybdenum (ppm)	0208	2.755	0.0500	2.927	0.3984	0.1505	18	-0.43	038.41	0
038	Molybdenum (ppm)	0278	2.845	0.2700	2.927	0.3984	0.1505	18	-0.21	038.42	0
038	Molybdenum (ppm)	0227	2.960	0.2400	2.927	0.3984	0.1505	18	0.08	038.53	0
038	Molybdenum (ppm)	0098	3.053	0.0050	2.927	0.3984	0.1505	18	0.31	038.53	0
038	Molybdenum (ppm)	0964	3.076	0.0999	2.927	0.3984	0.1505	18	0.37	038.43	0
038	Molybdenum (ppm)	0015	3.130	0.2800	2.927	0.3984	0.1505	18	0.51	038.53	0
038	Molybdenum (ppm)	0510	3.150	0.1000	2.927	0.3984	0.1505	18	0.56	038.43	0
038	Molybdenum (ppm)	2141	3.155	0.2100	2.927	0.3984	0.1505	18	0.57	038.43	0
038	Molybdenum (ppm)	0553	3.165	0.0700	2.927	0.3984	0.1505	18	0.60	038.53	0
038	Molybdenum (ppm)	0186	3.250	0.1400	2.927	0.3984	0.1505	18	0.81	038.52	0
038	Molybdenum (ppm)	2299	3.400	0.2000	2.927	0.3984	0.1505	18	1.19	038.43	0
038	Molybdenum (ppm)	0010	3.450	0.1000	2.927	0.3984	0.1505	18	1.31	038.53	0
038	Molybdenum (ppm)	2033	4.345	0.8500	2.927	0.3984	0.1505	18	3.56	038.43	1
041	Vanadium (ppm)	0278	9.645	0.0900	11.65	1.288	0.3133	9	-1.56	041.43	0
041	Vanadium (ppm)	0208	10.25	0.3000	11.65	1.288	0.3133	9	-1.09	041.41	0
041	Vanadium (ppm)	0629	10.93	0.4500	11.65	1.288	0.3133	9	-0.56	041.43	0
041	Vanadium (ppm)	2207	11.00	0.0000	11.65	1.288	0.3133	9	-0.51	041.52	0
041	Vanadium (ppm)	0098	11.19	0.1400	11.65	1.288	0.3133	9	-0.36	041.43	0
041	Vanadium (ppm)	0015	12.16	1.040	11.65	1.288	0.3133	9	0.40	041.53	0
041	Vanadium (ppm)	0553	12.75	0.1000	11.65	1.288	0.3133	9	0.85	041.53	0
041	Vanadium (ppm)	0870	12.89	0.7000	11.65	1.288	0.3133	9	0.96	041.43	0
041	Vanadium (ppm)	2299	17.00	0.0000	11.65	1.288	0.3133	9	4.15	041.43	0
041	Vanadium (ppm)	2033	17.63	3.140	11.65	1.288	0.3133	9	4.64	041.43	1
516	Arsenic, Total (ppm)	0629	1.255	0.0500	1.634	0.2428	0.0767	18	-1.56	516.53	0
516	Arsenic, Total (ppm)	0186	1.423	0.0730	1.634	0.2428	0.0767	18	-0.87	516.52	0
516	Arsenic, Total (ppm)	0015	1.465	0.1500	1.634	0.2428	0.0767	18	-0.70	516.53	0
516	Arsenic, Total (ppm)	0553	1.465	0.0500	1.634	0.2428	0.0767	18	-0.70	516.53	0
516	Arsenic, Total (ppm)	0918	1.505	0.0421	1.634	0.2428	0.0767	18	-0.53	516.53	0
516	Arsenic, Total (ppm)	2033	1.520	0.0600	1.634	0.2428	0.0767	18	-0.47	516.53	0
516	Arsenic, Total (ppm)	0227	1.525	0.0100	1.634	0.2428	0.0767	18	-0.45	516.53	0
516	Arsenic, Total (ppm)	0010	1.550	0.1000	1.634	0.2428	0.0767	18	-0.35	516.53	0
516	Arsenic, Total (ppm)	0208	1.570	0.0400	1.634	0.2428	0.0767	18	-0.26	516.52	0
516	Arsenic, Total (ppm)	0098	1.574	0.0450	1.634	0.2428	0.0767	18	-0.25	516.53	0
516	Arsenic, Total (ppm)	2146	1.575	0.0700	1.634	0.2428	0.0767	18	-0.24	516.52	0
516	Arsenic, Total (ppm)	2146	1.590	0.0200	1.634	0.2428	0.0767	18	-0.18	516.34	0
516	Arsenic, Total (ppm)	2207	1.650	0.3000	1.634	0.2428	0.0767	18	0.07	516.52	0
516	Arsenic, Total (ppm)	2113	1.855	0.0300	1.634	0.2428	0.0767	18	0.91	516.52	0
516	Arsenic, Total (ppm)	2114	1.860	0.1140	1.634	0.2428	0.0767	18	0.93	516.43	0
516	Arsenic, Total (ppm)	0870	2.055	0.0700	1.634	0.2428	0.0767	18	1.73	516.43	0
516	Arsenic, Total (ppm)	2285	2.080	0.0800	1.634	0.2428	0.0767	18	1.84	516.42	0

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516	Arsenic, Total (ppm)	0964	2.179	0.0765	1.634	0.2428	0.0767	18	2.25	516.43	0
516	Arsenic, Total (ppm)	0407	1.475	0.4720	1.634	0.2428	0.0767	18	-0.65	516.43	1
516	Arsenic, Total (ppm)	0425	< 0.5		1.634	0.2428	0.0767	18		516.34	5
516	Arsenic, Total (ppm)	2141	< 1		1.634	0.2428	0.0767	18		516.43	5
516	Arsenic, Total (ppm)	2299	< 2		1.634	0.2428	0.0767	18		516.43	5
516	Arsenic, Total (ppm)	0042	< 4		1.634	0.2428	0.0767	18		516.42	5
518	Cadmium (ppm)	0407	4.247	0.0470	9.185	1.052	0.4589	25	-4.69	518.41	0
518	Cadmium (ppm)	0015	7.230	1.900	9.185	1.052	0.4589	25	-1.86	518.53	0
518	Cadmium (ppm)	0629	7.515	0.1700	9.185	1.052	0.4589	25	-1.59	518.43	0
518	Cadmium (ppm)	0278	8.090	0.9000	9.185	1.052	0.4589	25	-1.04	518.43	0
518	Cadmium (ppm)	2146	8.435	0.2900	9.185	1.052	0.4589	25	-0.71	518.52	0
518	Cadmium (ppm)	0010	8.500	1.400	9.185	1.052	0.4589	25	-0.65	518.53	0
518	Cadmium (ppm)	0227	8.640	0.4400	9.185	1.052	0.4589	25	-0.52	518.53	0
518	Cadmium (ppm)	0098	8.870	1.220	9.185	1.052	0.4589	25	-0.30	518.53	0
518	Cadmium (ppm)	2146	8.890	0.2200	9.185	1.052	0.4589	25	-0.28	518.34	0
518	Cadmium (ppm)	0042	9.045	0.9100	9.185	1.052	0.4589	25	-0.13	518.42	0
518	Cadmium (ppm)	2141	9.175	0.4300	9.185	1.052	0.4589	25	-0.01	518.43	0
518	Cadmium (ppm)	0208	9.190	0.0600	9.185	1.052	0.4589	25	0.00	518.52	0
518	Cadmium (ppm)	0186	9.255	0.0100	9.185	1.052	0.4589	25	0.07	518.42	0
518	Cadmium (ppm)	2285	9.255	0.0700	9.185	1.052	0.4589	25	0.07	518.42	0
518	Cadmium (ppm)	2033	9.260	0.2600	9.185	1.052	0.4589	25	0.07	518.53	0
518	Cadmium (ppm)	0186	9.307	0.0480	9.185	1.052	0.4589	25	0.12	518.52	0
518	Cadmium (ppm)	0918	9.321	0.5971	9.185	1.052	0.4589	25	0.13	518.53	0
518	Cadmium (ppm)	0553	9.875	0.1500	9.185	1.052	0.4589	25	0.66	518.53	0
518	Cadmium (ppm)	0425	9.985	0.3700	9.185	1.052	0.4589	25	0.76	518.34	0
518	Cadmium (ppm)	2299	10.00	0.0000	9.185	1.052	0.4589	25	0.77	518.43	0
518	Cadmium (ppm)	2113	10.06	0.3000	9.185	1.052	0.4589	25	0.83	518.52	0
518	Cadmium (ppm)	0964	10.10	0.1106	9.185	1.052	0.4589	25	0.87	518.43	0
518	Cadmium (ppm)	2207	10.15	1.100	9.185	1.052	0.4589	25	0.92	518.52	0
518	Cadmium (ppm)	0870	10.25	0.3600	9.185	1.052	0.4589	25	1.01	518.43	0
518	Cadmium (ppm)	2114	11.07	0.1100	9.185	1.052	0.4589	25	1.79	518.99	0
520	Chromium (ppm)	2113	5.720	0.4200	22.58	2.260	1.009	19	-7.46	520.52	0
520	Chromium (ppm)	2207	7.100	0.8000	22.58	2.260	1.009	19	-6.85	520.52	0
520	Chromium (ppm)	0918	10.31	0.0000	22.58	2.260	1.009	19	-5.43	520.53	0
520	Chromium (ppm)	0407	15.45	0.2390	22.58	2.260	1.009	19	-3.16	520.41	0
520	Chromium (ppm)	0186	18.08	1.180	22.58	2.260	1.009	19	-1.99	520.52	0
520	Chromium (ppm)	0278	19.90	1.610	22.58	2.260	1.009	19	-1.19	520.43	0
520	Chromium (ppm)	2141	22.85	1.960	22.58	2.260	1.009	19	0.12	520.43	0
520	Chromium (ppm)	0227	23.15	1.700	22.58	2.260	1.009	19	0.25	520.51	0
520	Chromium (ppm)	0098	23.30	1.200	22.58	2.260	1.009	19	0.32	520.43	0
520	Chromium (ppm)	0208	23.85	2.500	22.58	2.260	1.009	19	0.56	520.41	0
520	Chromium (ppm)	0010	25.00	0.0000	22.58	2.260	1.009	19	1.07	520.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
520	Chromium (ppm)	2033	25.39	1.230	22.58	2.260	1.009	19	1.24	520.43	0
520	Chromium (ppm)	0629	26.18	0.3500	22.58	2.260	1.009	19	1.59	520.43	0
520	Chromium (ppm)	0553	26.25	2.300	22.58	2.260	1.009	19	1.62	520.53	0
520	Chromium (ppm)	0015	26.45	1.860	22.58	2.260	1.009	19	1.71	520.53	0
520	Chromium (ppm)	0510	27.29	0.0100	22.58	2.260	1.009	19	2.08	520.43	0
520	Chromium (ppm)	2299	27.50	1.000	22.58	2.260	1.009	19	2.18	520.43	0
520	Chromium (ppm)	0964	27.76	0.5764	22.58	2.260	1.009	19	2.29	520.43	0
520	Chromium (ppm)	0870	30.47	0.2400	22.58	2.260	1.009	19	3.49	520.43	0
520	Chromium (ppm)	0042	16.30	6.600	22.58	2.260	1.009	19	-2.78	520.42	1
526	Lead (ppm)	0407	24.19	0.9670	32.57	3.084	1.219	24	-2.72	526.41	0
526	Lead (ppm)	0629	25.48	0.3500	32.57	3.084	1.219	24	-2.30	526.43	0
526	Lead (ppm)	0278	26.38	0.2200	32.57	3.084	1.219	24	-2.01	526.43	0
526	Lead (ppm)	0227	29.05	0.5000	32.57	3.084	1.219	24	-1.14	526.53	0
526	Lead (ppm)	2146	30.60	2.740	32.57	3.084	1.219	24	-0.64	526.52	0
526	Lead (ppm)	2285	31.35	1.300	32.57	3.084	1.219	24	-0.39	526.42	0
526	Lead (ppm)	2033	31.77	1.610	32.57	3.084	1.219	24	-0.26	526.53	0
526	Lead (ppm)	0098	32.00	0.4000	32.57	3.084	1.219	24	-0.18	526.53	0
526	Lead (ppm)	0918	32.11	0.0613	32.57	3.084	1.219	24	-0.15	526.53	0
526	Lead (ppm)	0186	32.35	1.030	32.57	3.084	1.219	24	-0.07	526.52	0
526	Lead (ppm)	2113	32.70	2.330	32.57	3.084	1.219	24	0.04	526.52	0
526	Lead (ppm)	0208	32.70	1.400	32.57	3.084	1.219	24	0.04	526.52	0
526	Lead (ppm)	2114	32.83	0.1000	32.57	3.084	1.219	24	0.09	526.99	0
526	Lead (ppm)	2141	32.86	0.3300	32.57	3.084	1.219	24	0.09	526.43	0
526	Lead (ppm)	0042	33.35	1.900	32.57	3.084	1.219	24	0.25	526.42	0
526	Lead (ppm)	0553	33.35	0.1000	32.57	3.084	1.219	24	0.25	526.53	0
526	Lead (ppm)	0010	33.65	0.3000	32.57	3.084	1.219	24	0.35	526.53	0
526	Lead (ppm)	0015	33.91	1.270	32.57	3.084	1.219	24	0.43	526.53	0
526	Lead (ppm)	2146	34.20	2.610	32.57	3.084	1.219	24	0.53	526.34	0
526	Lead (ppm)	0870	34.23	1.510	32.57	3.084	1.219	24	0.54	526.43	0
526	Lead (ppm)	2207	34.95	1.700	32.57	3.084	1.219	24	0.77	526.52	0
526	Lead (ppm)	0964	35.05	3.966	32.57	3.084	1.219	24	0.81	526.43	0
526	Lead (ppm)	0425	35.29	1.570	32.57	3.084	1.219	24	0.88	526.34	0
526	Lead (ppm)	2299	35.50	1.000	32.57	3.084	1.219	24	0.95	526.43	0
529	Mercury (ppb)	0425	0.0406	0.0005	918.0	148.8	42.90	16	-6.17	529.00	0
529	Mercury (ppb)	0186	0.9635	0.0210	918.0	148.8	42.90	16	-6.16	529.99	0
529	Mercury (ppb)	2285	696.5	19.00	918.0	148.8	42.90	16	-1.49	529.00	0
529	Mercury (ppb)	0629	760.0	40.00	918.0	148.8	42.90	16	-1.06	529.99	0
529	Mercury (ppb)	2114	870.2	19.29	918.0	148.8	42.90	16	-0.32	529.99	0
529	Mercury (ppb)	0098	914.0	38.00	918.0	148.8	42.90	16	-0.03	529.99	0
529	Mercury (ppb)	0553	933.5	13.00	918.0	148.8	42.90	16	0.10	529.99	0
529	Mercury (ppb)	0227	937.0	0.0000	918.0	148.8	42.90	16	0.13	529.99	0
529	Mercury (ppb)	0010	947.5	43.00	918.0	148.8	42.90	16	0.20	529.99	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
529	Mercury (ppb)	2033	954.1	18.68	918.0	148.8	42.90	16	0.24	529.99	0
529	Mercury (ppb)	2146	971.9	2.100	918.0	148.8	42.90	16	0.36	529.00	0
529	Mercury (ppb)	0918	973.5	23.00	918.0	148.8	42.90	16	0.37	529.99	0
529	Mercury (ppb)	2146	1,014	70.30	918.0	148.8	42.90	16	0.64	529.99	0
529	Mercury (ppb)	0208	1,100	200.0	918.0	148.8	42.90	16	1.22	529.99	0
529	Mercury (ppb)	2207	1,150	100.0	918.0	148.8	42.90	16	1.56	529.99	0
529	Mercury (ppb)	2299	1,250	100.0	918.0	148.8	42.90	16	2.23	529.99	0
529	Mercury (ppb)	0015	4,583	1,452	918.0	148.8	42.90	16	24.64	529.99	1
539	Nickel (ppm)	2113	3.475	0.1700	10.02	1.133	0.4029	17	-5.78	539.52	0
539	Nickel (ppm)	2207	4.450	0.5000	10.02	1.133	0.4029	17	-4.92	539.52	0
539	Nickel (ppm)	0918	6.039	0.1804	10.02	1.133	0.4029	17	-3.51	539.53	0
539	Nickel (ppm)	0407	8.389	0.0190	10.02	1.133	0.4029	17	-1.44	539.41	0
539	Nickel (ppm)	2292	9.000	0.0000	10.02	1.133	0.4029	17	-0.90	539.99	0
539	Nickel (ppm)	0629	9.340	0.2600	10.02	1.133	0.4029	17	-0.60	539.43	0
539	Nickel (ppm)	0186	9.509	0.4600	10.02	1.133	0.4029	17	-0.45	539.52	0
539	Nickel (ppm)	0278	9.650	0.5000	10.02	1.133	0.4029	17	-0.33	539.43	0
539	Nickel (ppm)	0098	10.50	0.4000	10.02	1.133	0.4029	17	0.42	539.53	0
539	Nickel (ppm)	2141	11.00	0.4600	10.02	1.133	0.4029	17	0.86	539.43	0
539	Nickel (ppm)	0010	11.00	0.0000	10.02	1.133	0.4029	17	0.86	539.53	0
539	Nickel (ppm)	0553	11.55	0.1000	10.02	1.133	0.4029	17	1.35	539.53	0
539	Nickel (ppm)	0015	11.87	1.060	10.02	1.133	0.4029	17	1.63	539.53	0
539	Nickel (ppm)	2033	12.24	0.9400	10.02	1.133	0.4029	17	1.96	539.43	0
539	Nickel (ppm)	0964	12.25	0.3191	10.02	1.133	0.4029	17	1.96	539.43	0
539	Nickel (ppm)	2299	12.50	1.000	10.02	1.133	0.4029	17	2.19	539.43	0
539	Nickel (ppm)	0870	13.45	0.4800	10.02	1.133	0.4029	17	3.03	539.43	0
539	Nickel (ppm)	0042	23.57	33.86	10.02	1.133	0.4029	17	11.96	539.42	1

Notes: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = Rejected for duplicates too far apart, 2 = Rejected as outlier, 5 = A reporting limit and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). Flag 3 indicates not used in statistics.