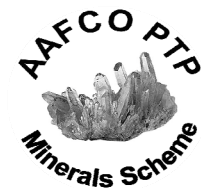




**AAFCO**  
Proficiency Testing Program



**Minerals Scheme**

**Llama Feed**

**Test Material Code # 202052**

**Analyte Proficiency Testing Report**

**# Labs Reporting: 28**

**# Analytes Reported 16**

**Issue Date : 07/31/2020**

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)	0047	226.1	6.700	303.4	20.53	16.66	18	-3.77	015.52	0
015	Aluminum (ppm)	2260	253.6	28.90	303.4	20.53	16.66	18	-2.43	015.33	0
015	Aluminum (ppm)	0186	253.9	5.800	303.4	20.53	16.66	18	-2.41	015.52	0
015	Aluminum (ppm)	0510	266.0	0.0000	303.4	20.53	16.66	18	-1.82	015.43	0
015	Aluminum (ppm)	0160	267.5	33.00	303.4	20.53	16.66	18	-1.75	015.99	0
015	Aluminum (ppm)	0870	275.3	4.300	303.4	20.53	16.66	18	-1.37	015.43	0
015	Aluminum (ppm)	0208	286.5	1.000	303.4	20.53	16.66	18	-0.82	015.41	0
015	Aluminum (ppm)	0278	297.6	10.06	303.4	20.53	16.66	18	-0.28	015.43	0
015	Aluminum (ppm)	0407	304.1	1.989	303.4	20.53	16.66	18	0.04	015.41	0
015	Aluminum (ppm)	0918	308.0	16.09	303.4	20.53	16.66	18	0.22	015.53	0
015	Aluminum (ppm)	2207	308.5	17.00	303.4	20.53	16.66	18	0.25	015.42	0
015	Aluminum (ppm)	0227	311.5	1.000	303.4	20.53	16.66	18	0.40	015.41	0
015	Aluminum (ppm)	0553	312.5	19.00	303.4	20.53	16.66	18	0.44	015.53	0
015	Aluminum (ppm)	0098	316.4	25.20	303.4	20.53	16.66	18	0.63	015.43	0
015	Aluminum (ppm)	0964	349.7	58.36	303.4	20.53	16.66	18	2.26	015.43	0
015	Aluminum (ppm)	2033	366.7	6.500	303.4	20.53	16.66	18	3.08	015.43	0
015	Aluminum (ppm)	2299	387.5	33.00	303.4	20.53	16.66	18	4.10	015.43	0
015	Aluminum (ppm)	0042	399.0	32.00	303.4	20.53	16.66	18	4.66	015.42	0
017	Boron (ppm)	0553	55.25	2.100	66.04	5.623	1.777	11	-1.92	017.53	0
017	Boron (ppm)	0870	58.00	2.000	66.04	5.623	1.777	11	-1.43	017.43	0
017	Boron (ppm)	0160	62.70	1.200	66.04	5.623	1.777	11	-0.59	017.99	0
017	Boron (ppm)	0407	63.93	0.3282	66.04	5.623	1.777	11	-0.38	017.41	0
017	Boron (ppm)	0510	64.50	1.000	66.04	5.623	1.777	11	-0.27	017.43	0
017	Boron (ppm)	0918	66.02	0.1900	66.04	5.623	1.777	11	0.00	017.43	0
017	Boron (ppm)	0098	68.03	0.0100	66.04	5.623	1.777	11	0.35	017.43	0
017	Boron (ppm)	2299	70.00	2.000	66.04	5.623	1.777	11	0.70	017.43	0
017	Boron (ppm)	2260	70.74	9.420	66.04	5.623	1.777	11	0.84	017.99	0
017	Boron (ppm)	2207	72.50	1.000	66.04	5.623	1.777	11	1.15	017.42	0
017	Boron (ppm)	2033	73.45	0.3000	66.04	5.623	1.777	11	1.32	017.43	0
017	Boron (ppm)	0042	100.2	15.60	66.04	5.623	1.777	11	6.08	017.42	1
021	Cobalt (ppm)	2260	2.089	0.2200	3.245	0.4348	0.2083	19	-2.66	021.33	0
021	Cobalt (ppm)	2207	2.450	0.1000	3.245	0.4348	0.2083	19	-1.83	021.52	0
021	Cobalt (ppm)	2113	2.600	0.2000	3.245	0.4348	0.2083	19	-1.48	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)	0160	2.755	0.6500	3.245	0.4348	0.2083	19	-1.13	021.99	0
021	Cobalt (ppm)	0278	2.845	0.1500	3.245	0.4348	0.2083	19	-0.92	021.43	0
021	Cobalt (ppm)	0186	2.870	0.0200	3.245	0.4348	0.2083	19	-0.86	021.52	0
021	Cobalt (ppm)	0042	2.980	0.4800	3.245	0.4348	0.2083	19	-0.61	021.42	0
021	Cobalt (ppm)	0918	2.994	0.0609	3.245	0.4348	0.2083	19	-0.58	021.53	0
021	Cobalt (ppm)	0098	3.000	0.5300	3.245	0.4348	0.2083	19	-0.56	021.53	0
021	Cobalt (ppm)	2141	3.046	0.0030	3.245	0.4348	0.2083	19	-0.46	021.43	0
021	Cobalt (ppm)	0553	3.355	0.1900	3.245	0.4348	0.2083	19	0.25	021.53	0
021	Cobalt (ppm)	0407	3.433	0.3162	3.245	0.4348	0.2083	19	0.43	021.41	0
021	Cobalt (ppm)	0208	3.475	0.1700	3.245	0.4348	0.2083	19	0.53	021.31	0
021	Cobalt (ppm)	0510	3.590	0.0400	3.245	0.4348	0.2083	19	0.79	021.43	0
021	Cobalt (ppm)	0964	3.618	0.4167	3.245	0.4348	0.2083	19	0.86	021.43	0
021	Cobalt (ppm)	2299	3.950	0.1000	3.245	0.4348	0.2083	19	1.62	021.43	0
021	Cobalt (ppm)	2033	3.965	0.0700	3.245	0.4348	0.2083	19	1.66	021.43	0
021	Cobalt (ppm)	0870	4.520	0.1400	3.245	0.4348	0.2083	19	2.93	021.43	0
021	Cobalt (ppm)	0227	4.750	0.1000	3.245	0.4348	0.2083	19	3.46	021.31	0
022	Copper (ppm)	0227	119.5	1.000	183.1	13.37	9.229	23	-4.76	022.41	0
022	Copper (ppm)	0529	125.9	8.500	183.1	13.37	9.229	23	-4.28	022.31	0
022	Copper (ppm)	0870	152.2	2.100	183.1	13.37	9.229	23	-2.31	022.43	0
022	Copper (ppm)	0407	157.0	5.781	183.1	13.37	9.229	23	-1.95	022.41	0
022	Copper (ppm)	0918	168.1	6.960	183.1	13.37	9.229	23	-1.12	022.43	0
022	Copper (ppm)	0042	172.5	1.000	183.1	13.37	9.229	23	-0.79	022.42	0
022	Copper (ppm)	0278	175.0	3.600	183.1	13.37	9.229	23	-0.60	022.42	0
022	Copper (ppm)	0208	181.1	14.80	183.1	13.37	9.229	23	-0.15	022.41	0
022	Copper (ppm)	0202	181.6	15.60	183.1	13.37	9.229	23	-0.11	022.43	0
022	Copper (ppm)	0208	184.0	30.00	183.1	13.37	9.229	23	0.07	022.31	0
022	Copper (ppm)	0964	184.3	6.840	183.1	13.37	9.229	23	0.09	022.43	0
022	Copper (ppm)	2141	184.3	12.89	183.1	13.37	9.229	23	0.09	022.43	0
022	Copper (ppm)	2113	185.0	10.00	183.1	13.37	9.229	23	0.14	022.52	0
022	Copper (ppm)	0160	187.0	30.00	183.1	13.37	9.229	23	0.29	022.99	0
022	Copper (ppm)	2299	188.0	6.000	183.1	13.37	9.229	23	0.37	022.43	0
022	Copper (ppm)	0186	188.5	5.000	183.1	13.37	9.229	23	0.41	022.52	0
022	Copper (ppm)	2207	193.0	10.00	183.1	13.37	9.229	23	0.74	022.42	0
022	Copper (ppm)	0553	195.0	6.000	183.1	13.37	9.229	23	0.89	022.53	0
022	Copper (ppm)	0098	198.2	1.300	183.1	13.37	9.229	23	1.13	022.53	0
022	Copper (ppm)	0010	201.5	13.00	183.1	13.37	9.229	23	1.38	022.33	0
022	Copper (ppm)	0510	203.5	7.000	183.1	13.37	9.229	23	1.53	022.43	0
022	Copper (ppm)	0186	209.5	13.00	183.1	13.37	9.229	23	1.98	022.42	0
022	Copper (ppm)	2033	232.9	1.900	183.1	13.37	9.229	23	3.72	022.43	0
022	Copper (ppm)	2260	186.9	45.90	183.1	13.37	9.229	23	0.28	022.34	1
023	Fluorine (ppm)	2260	56.34	7.120	89.66	7.291	5.080	4		023.99	0
023	Fluorine (ppm)	2033	76.30	1.200	89.66	7.291	5.080	4		023.01	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			
023	Fluorine (ppm)	0227	81.00	2.000	89.66	7.291	5.080	4		023.01	0
023	Fluorine (ppm)	2299	145.0	10.00	89.66	7.291	5.080	4		023.99	0
024	Iodine (ppm)	2260	68.95	6.710	94.97	7.656	7.753	4		024.03	0
024	Iodine (ppm)	0160	95.45	7.300	94.97	7.656	7.753	4		024.99	0
024	Iodine (ppm)	0186	97.50	9.000	94.97	7.656	7.753	4		024.52	0
024	Iodine (ppm)	0208	118.0	8.000	94.97	7.656	7.753	4		024.99	0
024	Iodine (ppm)	2299	1,640	0.0000	94.97	7.656	7.753	4		024.99	2
034	Selenium (ppm)	0407	1.245	0.1700	1.844	0.2690	0.1311	15	-2.23	034.41	0
034	Selenium (ppm)	0047	1.450	0.0600	1.844	0.2690	0.1311	15	-1.46	034.52	0
034	Selenium (ppm)	0278	1.600	0.0400	1.844	0.2690	0.1311	15	-0.91	034.53	0
034	Selenium (ppm)	0553	1.615	0.0700	1.844	0.2690	0.1311	15	-0.85	034.53	0
034	Selenium (ppm)	0227	1.630	0.1000	1.844	0.2690	0.1311	15	-0.79	034.04	0
034	Selenium (ppm)	0186	1.665	0.0300	1.844	0.2690	0.1311	15	-0.66	034.52	0
034	Selenium (ppm)	0208	1.720	0.0200	1.844	0.2690	0.1311	15	-0.46	034.52	0
034	Selenium (ppm)	2207	1.800	0.2000	1.844	0.2690	0.1311	15	-0.16	034.52	0
034	Selenium (ppm)	2033	1.810	0.0000	1.844	0.2690	0.1311	15	-0.12	034.53	0
034	Selenium (ppm)	0098	2.019	0.2250	1.844	0.2690	0.1311	15	0.65	034.53	0
034	Selenium (ppm)	2141	2.059	0.5870	1.844	0.2690	0.1311	15	0.80	034.43	0
034	Selenium (ppm)	0918	2.074	0.0807	1.844	0.2690	0.1311	15	0.86	034.53	0
034	Selenium (ppm)	0964	2.124	0.1536	1.844	0.2690	0.1311	15	1.04	034.43	0
034	Selenium (ppm)	0870	2.465	0.0300	1.844	0.2690	0.1311	15	2.31	034.43	0
034	Selenium (ppm)	2299	2.800	0.2000	1.844	0.2690	0.1311	15	3.56	034.43	0
034	Selenium (ppm)	2260	5.251	0.9040	1.844	0.2690	0.1311	15	12.67	034.33	1
034	Selenium (ppm)	2302	< 0.01		1.844	0.2690	0.1311	15		034.99	5
034	Selenium (ppm)	0010	< 3		1.844	0.2690	0.1311	15		034.53	5
034	Selenium (ppm)	0160	< 10		1.844	0.2690	0.1311	15		034.99	5
034	Selenium (ppm)	0042	< 16		1.844	0.2690	0.1311	15		034.42	5
036	Sulfur (%)	2141	0.3707	0.0362	0.4220	0.0192	0.0186	19	-2.67	036.43	0
036	Sulfur (%)	0186	0.3804	0.0127	0.4220	0.0192	0.0186	19	-2.17	036.52	0
036	Sulfur (%)	0870	0.3828	0.0087	0.4220	0.0192	0.0186	19	-2.04	036.42	0
036	Sulfur (%)	0160	0.4040	0.0180	0.4220	0.0192	0.0186	19	-0.94	036.99	0
036	Sulfur (%)	2033	0.4100	0.0000	0.4220	0.0192	0.0186	19	-0.63	036.43	0
036	Sulfur (%)	0227	0.4105	0.0170	0.4220	0.0192	0.0186	19	-0.60	036.42	0
036	Sulfur (%)	0553	0.4130	0.0380	0.4220	0.0192	0.0186	19	-0.47	036.53	0
036	Sulfur (%)	2207	0.4150	0.0100	0.4220	0.0192	0.0186	19	-0.37	036.42	0
036	Sulfur (%)	0208	0.4210	0.0220	0.4220	0.0192	0.0186	19	-0.05	036.00	0
036	Sulfur (%)	0278	0.4250	0.0500	0.4220	0.0192	0.0186	19	0.15	036.42	0
036	Sulfur (%)	2260	0.4260	0.0720	0.4220	0.0192	0.0186	19	0.21	036.02	0
036	Sulfur (%)	0186	0.4290	0.0193	0.4220	0.0192	0.0186	19	0.36	036.42	0
036	Sulfur (%)	0407	0.4352	0.0007	0.4220	0.0192	0.0186	19	0.68	036.42	0
036	Sulfur (%)	0202	0.4355	0.0030	0.4220	0.0192	0.0186	19	0.70	036.43	0
036	Sulfur (%)	0098	0.4380	0.0140	0.4220	0.0192	0.0186	19	0.83	036.43	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			
036	Sulfur (%)	2299	0.4450	0.0100	0.4220	0.0192	0.0186	19	1.19	036.43	0
036	Sulfur (%)	0918	0.4490	0.0040	0.4220	0.0192	0.0186	19	1.40	036.43	0
036	Sulfur (%)	0964	0.4541	0.0069	0.4220	0.0192	0.0186	19	1.67	036.43	0
036	Sulfur (%)	0510	0.4750	0.0100	0.4220	0.0192	0.0186	19	2.76	036.43	0
038	Molybdenum (ppm)	2113	46.50	5.000	53.02	4.666	2.722	19	-1.40	038.52	0
038	Molybdenum (ppm)	0918	47.91	1.295	53.02	4.666	2.722	19	-1.10	038.53	0
038	Molybdenum (ppm)	0278	49.05	3.560	53.02	4.666	2.722	19	-0.85	038.42	0
038	Molybdenum (ppm)	0160	49.50	3.400	53.02	4.666	2.722	19	-0.75	038.99	0
038	Molybdenum (ppm)	0010	51.00	1.800	53.02	4.666	2.722	19	-0.43	038.53	0
038	Molybdenum (ppm)	0964	51.12	2.534	53.02	4.666	2.722	19	-0.41	038.43	0
038	Molybdenum (ppm)	0227	51.25	1.700	53.02	4.666	2.722	19	-0.38	038.53	0
038	Molybdenum (ppm)	0407	52.07	2.470	53.02	4.666	2.722	19	-0.20	038.41	0
038	Molybdenum (ppm)	2207	53.15	0.5000	53.02	4.666	2.722	19	0.03	038.52	0
038	Molybdenum (ppm)	0510	53.45	0.9000	53.02	4.666	2.722	19	0.09	038.43	0
038	Molybdenum (ppm)	0208	53.65	3.500	53.02	4.666	2.722	19	0.13	038.41	0
038	Molybdenum (ppm)	0870	54.30	2.200	53.02	4.666	2.722	19	0.27	038.43	0
038	Molybdenum (ppm)	0186	54.40	0.4000	53.02	4.666	2.722	19	0.30	038.52	0
038	Molybdenum (ppm)	0098	54.54	3.130	53.02	4.666	2.722	19	0.32	038.53	0
038	Molybdenum (ppm)	0553	54.95	0.5000	53.02	4.666	2.722	19	0.41	038.53	0
038	Molybdenum (ppm)	0042	56.25	12.90	53.02	4.666	2.722	19	0.69	038.42	0
038	Molybdenum (ppm)	2141	57.26	1.207	53.02	4.666	2.722	19	0.91	038.43	0
038	Molybdenum (ppm)	2299	57.50	3.000	53.02	4.666	2.722	19	0.96	038.43	0
038	Molybdenum (ppm)	2033	60.02	1.730	53.02	4.666	2.722	19	1.50	038.43	0
038	Molybdenum (ppm)	2260	85.85	17.86	53.02	4.666	2.722	19	7.04	038.33	1
041	Vanadium (ppm)	0047	2.375	0.2500	3.057	0.4133	0.4391	8	-1.65	041.52	0
041	Vanadium (ppm)	0553	2.495	0.1100	3.057	0.4133	0.4391	8	-1.36	041.53	0
041	Vanadium (ppm)	0098	2.771	0.0130	3.057	0.4133	0.4391	8	-0.69	041.53	0
041	Vanadium (ppm)	0160	2.785	0.7500	3.057	0.4133	0.4391	8	-0.66	041.99	0
041	Vanadium (ppm)	2299	3.200	0.0000	3.057	0.4133	0.4391	8	0.35	041.43	0
041	Vanadium (ppm)	2033	3.340	0.0400	3.057	0.4133	0.4391	8	0.69	041.43	0
041	Vanadium (ppm)	2207	3.500	1.000	3.057	0.4133	0.4391	8	1.07	041.52	0
041	Vanadium (ppm)	2260	7.483	1.350	3.057	0.4133	0.4391	8	10.71	041.33	0
041	Vanadium (ppm)	0278	< 0.01		3.057	0.4133	0.4391	8		041.43	5
516	Arsenic, Total (ppm)	2260	1.672	0.6240	2.480	0.3460	0.2087	21	-2.33	516.00	0
516	Arsenic, Total (ppm)	0656	1.800	0.0000	2.480	0.3460	0.2087	21	-1.96	516.34	0
516	Arsenic, Total (ppm)	0870	2.165	0.0900	2.480	0.3460	0.2087	21	-0.91	516.43	0
516	Arsenic, Total (ppm)	0047	2.165	0.2300	2.480	0.3460	0.2087	21	-0.91	516.52	0
516	Arsenic, Total (ppm)	0186	2.195	0.1680	2.480	0.3460	0.2087	21	-0.82	516.52	0
516	Arsenic, Total (ppm)	0918	2.268	0.0535	2.480	0.3460	0.2087	21	-0.61	516.53	0
516	Arsenic, Total (ppm)	2141	2.318	0.0610	2.480	0.3460	0.2087	21	-0.47	516.43	0
516	Arsenic, Total (ppm)	0425	2.345	0.5900	2.480	0.3460	0.2087	21	-0.39	516.34	0
516	Arsenic, Total (ppm)	0553	2.430	0.2600	2.480	0.3460	0.2087	21	-0.14	516.53	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			
516	Arsenic, Total (ppm)	2207	2.450	0.5000	2.480	0.3460	0.2087	21	-0.09	516.52	0
516	Arsenic, Total (ppm)	0010	2.450	0.3000	2.480	0.3460	0.2087	21	-0.09	516.53	0
516	Arsenic, Total (ppm)	0227	2.505	0.0500	2.480	0.3460	0.2087	21	0.07	516.53	0
516	Arsenic, Total (ppm)	2285	2.520	0.1400	2.480	0.3460	0.2087	21	0.12	516.42	0
516	Arsenic, Total (ppm)	0208	2.565	0.0300	2.480	0.3460	0.2087	21	0.25	516.52	0
516	Arsenic, Total (ppm)	2033	2.590	0.1200	2.480	0.3460	0.2087	21	0.32	516.53	0
516	Arsenic, Total (ppm)	0407	2.696	0.0150	2.480	0.3460	0.2087	21	0.62	516.43	0
516	Arsenic, Total (ppm)	0098	2.759	0.3730	2.480	0.3460	0.2087	21	0.81	516.53	0
516	Arsenic, Total (ppm)	0964	2.782	0.3792	2.480	0.3460	0.2087	21	0.87	516.43	0
516	Arsenic, Total (ppm)	2113	2.950	0.3000	2.480	0.3460	0.2087	21	1.36	516.52	0
516	Arsenic, Total (ppm)	2306	3.050	0.1000	2.480	0.3460	0.2087	21	1.65	516.34	0
516	Arsenic, Total (ppm)	2302	3.100	0.0000	2.480	0.3460	0.2087	21	1.79	516.99	0
516	Arsenic, Total (ppm)	2299	< 2		2.480	0.3460	0.2087	21		516.43	5
516	Arsenic, Total (ppm)	0160	< 10		2.480	0.3460	0.2087	21		516.99	5
518	Cadmium (ppm)	2302	0.1750	0.0300	0.6908	0.1168	0.0404	23	-4.42	518.99	0
518	Cadmium (ppm)	2260	0.4285	0.0190	0.6908	0.1168	0.0404	23	-2.25	518.33	0
518	Cadmium (ppm)	0278	0.4550	0.0100	0.6908	0.1168	0.0404	23	-2.02	518.43	0
518	Cadmium (ppm)	0656	0.5004	0.0000	0.6908	0.1168	0.0404	23	-1.63	518.34	0
518	Cadmium (ppm)	0407	0.5049	0.0335	0.6908	0.1168	0.0404	23	-1.59	518.41	0
518	Cadmium (ppm)	0160	0.5850	0.0900	0.6908	0.1168	0.0404	23	-0.91	518.99	0
518	Cadmium (ppm)	2285	0.6415	0.0870	0.6908	0.1168	0.0404	23	-0.42	518.42	0
518	Cadmium (ppm)	0047	0.6550	0.0100	0.6908	0.1168	0.0404	23	-0.31	518.52	0
518	Cadmium (ppm)	0964	0.6875	0.0180	0.6908	0.1168	0.0404	23	-0.03	518.43	0
518	Cadmium (ppm)	0918	0.7066	0.0543	0.6908	0.1168	0.0404	23	0.13	518.53	0
518	Cadmium (ppm)	0186	0.7170	0.0600	0.6908	0.1168	0.0404	23	0.22	518.52	0
518	Cadmium (ppm)	2033	0.7200	0.0400	0.6908	0.1168	0.0404	23	0.25	518.53	0
518	Cadmium (ppm)	0208	0.7345	0.0370	0.6908	0.1168	0.0404	23	0.37	518.52	0
518	Cadmium (ppm)	2113	0.7400	0.0400	0.6908	0.1168	0.0404	23	0.42	518.52	0
518	Cadmium (ppm)	2306	0.7500	0.1000	0.6908	0.1168	0.0404	23	0.51	518.34	0
518	Cadmium (ppm)	2207	0.7500	0.1000	0.6908	0.1168	0.0404	23	0.51	518.52	0
518	Cadmium (ppm)	0227	0.7725	0.0330	0.6908	0.1168	0.0404	23	0.70	518.53	0
518	Cadmium (ppm)	0098	0.7800	0.0340	0.6908	0.1168	0.0404	23	0.76	518.53	0
518	Cadmium (ppm)	0553	0.7980	0.0380	0.6908	0.1168	0.0404	23	0.92	518.53	0
518	Cadmium (ppm)	0425	0.8200	0.0200	0.6908	0.1168	0.0404	23	1.11	518.34	0
518	Cadmium (ppm)	0042	0.8520	0.0260	0.6908	0.1168	0.0404	23	1.38	518.42	0
518	Cadmium (ppm)	2299	0.8850	0.0300	0.6908	0.1168	0.0404	23	1.66	518.43	0
518	Cadmium (ppm)	0870	1.010	0.0200	0.6908	0.1168	0.0404	23	2.73	518.43	0
518	Cadmium (ppm)	2141	< 1		0.6908	0.1168	0.0404	23		518.43	5
518	Cadmium (ppm)	0010	< 1		0.6908	0.1168	0.0404	23		518.53	5
520	Chromium (ppm)	0407	39.99	1.407	58.49	5.072	3.462	21	-3.65	520.41	0
520	Chromium (ppm)	2113	50.00	0.0000	58.49	5.072	3.462	21	-1.67	520.52	0
520	Chromium (ppm)	0918	50.44	2.426	58.49	5.072	3.462	21	-1.59	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)	0042	51.30	6.600	58.49	5.072	3.462	21	-1.42	520.42	0
520	Chromium (ppm)	0278	52.17	1.560	58.49	5.072	3.462	21	-1.25	520.43	0
520	Chromium (ppm)	2141	53.73	2.249	58.49	5.072	3.462	21	-0.94	520.43	0
520	Chromium (ppm)	2207	54.30	12.20	58.49	5.072	3.462	21	-0.83	520.52	0
520	Chromium (ppm)	0227	55.10	4.200	58.49	5.072	3.462	21	-0.67	520.31	0
520	Chromium (ppm)	0047	55.75	0.0000	58.49	5.072	3.462	21	-0.54	520.52	0
520	Chromium (ppm)	0208	58.10	0.2000	58.49	5.072	3.462	21	-0.08	520.41	0
520	Chromium (ppm)	0870	59.05	1.300	58.49	5.072	3.462	21	0.11	520.43	0
520	Chromium (ppm)	0010	59.50	10.40	58.49	5.072	3.462	21	0.20	520.53	0
520	Chromium (ppm)	0160	59.75	4.300	58.49	5.072	3.462	21	0.25	520.99	0
520	Chromium (ppm)	0510	60.19	0.3300	58.49	5.072	3.462	21	0.33	520.43	0
520	Chromium (ppm)	0964	61.88	1.379	58.49	5.072	3.462	21	0.67	520.43	0
520	Chromium (ppm)	0098	62.40	2.600	58.49	5.072	3.462	21	0.77	520.53	0
520	Chromium (ppm)	0186	63.05	6.300	58.49	5.072	3.462	21	0.90	520.52	0
520	Chromium (ppm)	2033	66.09	3.990	58.49	5.072	3.462	21	1.50	520.43	0
520	Chromium (ppm)	0553	69.10	1.000	58.49	5.072	3.462	21	2.09	520.53	0
520	Chromium (ppm)	2299	69.50	5.000	58.49	5.072	3.462	21	2.17	520.43	0
520	Chromium (ppm)	2260	69.73	5.260	58.49	5.072	3.462	21	2.22	520.33	0
520	Chromium (ppm)	2302	< 0.01		58.49	5.072	3.462	21		520.99	5
526	Lead (ppm)	2302	36.45	0.1000	99.17	7.942	8.265	25	-7.90	526.99	0
526	Lead (ppm)	0407	70.81	7.284	99.17	7.942	8.265	25	-3.57	526.41	0
526	Lead (ppm)	0278	75.61	5.290	99.17	7.942	8.265	25	-2.97	526.43	0
526	Lead (ppm)	2285	82.80	10.00	99.17	7.942	8.265	25	-2.06	526.42	0
526	Lead (ppm)	0870	88.50	0.4000	99.17	7.942	8.265	25	-1.34	526.43	0
526	Lead (ppm)	2113	91.00	18.00	99.17	7.942	8.265	25	-1.03	526.52	0
526	Lead (ppm)	0160	92.55	20.90	99.17	7.942	8.265	25	-0.83	526.99	0
526	Lead (ppm)	0425	93.29	3.650	99.17	7.942	8.265	25	-0.74	526.34	0
526	Lead (ppm)	2207	96.60	14.60	99.17	7.942	8.265	25	-0.32	526.52	0
526	Lead (ppm)	0918	97.07	0.7412	99.17	7.942	8.265	25	-0.26	526.53	0
526	Lead (ppm)	0964	97.83	7.866	99.17	7.942	8.265	25	-0.17	526.43	0
526	Lead (ppm)	0042	98.00	18.00	99.17	7.942	8.265	25	-0.15	526.42	0
526	Lead (ppm)	2299	100.0	0.0000	99.17	7.942	8.265	25	0.11	526.43	0
526	Lead (ppm)	0186	100.0	0.8000	99.17	7.942	8.265	25	0.11	526.52	0
526	Lead (ppm)	2141	100.1	7.592	99.17	7.942	8.265	25	0.12	526.43	0
526	Lead (ppm)	0010	102.2	9.800	99.17	7.942	8.265	25	0.38	526.53	0
526	Lead (ppm)	0656	102.9	0.0000	99.17	7.942	8.265	25	0.47	526.34	0
526	Lead (ppm)	0227	103.0	8.100	99.17	7.942	8.265	25	0.48	526.53	0
526	Lead (ppm)	0098	103.1	15.90	99.17	7.942	8.265	25	0.49	526.53	0
526	Lead (ppm)	0208	104.0	4.000	99.17	7.942	8.265	25	0.61	526.52	0
526	Lead (ppm)	2033	109.5	5.710	99.17	7.942	8.265	25	1.30	526.53	0
526	Lead (ppm)	0047	122.0	1.000	99.17	7.942	8.265	25	2.88	526.52	0
526	Lead (ppm)	2306	122.3	17.70	99.17	7.942	8.265	25	2.91	526.34	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
526	Lead (ppm)	0553	126.5	3.000	99.17	7.942	8.265	25	3.44	526.53	0
526	Lead (ppm)	2260	147.3	26.20	99.17	7.942	8.265	25	6.06	526.33	0
529	Mercury (ppb)	0186	0.1000	0.0060	109.2	24.03	17.37	15	-4.54	529.99	0
529	Mercury (ppb)	2299	0.6450	0.0500	109.2	24.03	17.37	15	-4.52	529.99	0
529	Mercury (ppb)	0160	39.05	27.50	109.2	24.03	17.37	15	-2.92	529.99	0
529	Mercury (ppb)	2285	91.85	11.30	109.2	24.03	17.37	15	-0.72	529.00	0
529	Mercury (ppb)	0553	107.5	3.000	109.2	24.03	17.37	15	-0.07	529.99	0
529	Mercury (ppb)	2306	110.0	20.00	109.2	24.03	17.37	15	0.03	529.00	0
529	Mercury (ppb)	0227	111.5	5.000	109.2	24.03	17.37	15	0.09	529.99	0
529	Mercury (ppb)	0208	114.5	15.00	109.2	24.03	17.37	15	0.22	529.99	0
529	Mercury (ppb)	0010	117.5	25.00	109.2	24.03	17.37	15	0.34	529.99	0
529	Mercury (ppb)	2033	117.8	6.640	109.2	24.03	17.37	15	0.36	529.99	0
529	Mercury (ppb)	0042	125.5	1.000	109.2	24.03	17.37	15	0.68	529.99	0
529	Mercury (ppb)	2207	128.0	12.00	109.2	24.03	17.37	15	0.78	529.99	0
529	Mercury (ppb)	0098	138.5	39.00	109.2	24.03	17.37	15	1.22	529.99	0
529	Mercury (ppb)	2260	261.0	75.00	109.2	24.03	17.37	15	6.31	529.00	0
529	Mercury (ppb)	0918	940.0	20.00	109.2	24.03	17.37	15	34.57	529.99	0
529	Mercury (ppb)	0425	352.0	146.0	109.2	24.03	17.37	15	10.10	529.00	1
529	Mercury (ppb)	2302	< 0.01		109.2	24.03	17.37	15		529.99	5
539	Nickel (ppm)	0278	23.67	0.6300	58.59	5.079	3.925	19	-6.88	539.43	0
539	Nickel (ppm)	0407	49.19	4.464	58.59	5.079	3.925	19	-1.85	539.41	0
539	Nickel (ppm)	0042	54.40	4.200	58.59	5.079	3.925	19	-0.82	539.42	0
539	Nickel (ppm)	0918	54.84	2.060	58.59	5.079	3.925	19	-0.74	539.53	0
539	Nickel (ppm)	2207	55.85	3.100	58.59	5.079	3.925	19	-0.54	539.52	0
539	Nickel (ppm)	0160	55.90	13.20	58.59	5.079	3.925	19	-0.53	539.99	0
539	Nickel (ppm)	0010	56.00	4.000	58.59	5.079	3.925	19	-0.51	539.53	0
539	Nickel (ppm)	2260	56.98	6.010	58.59	5.079	3.925	19	-0.32	539.33	0
539	Nickel (ppm)	0964	57.13	1.444	58.59	5.079	3.925	19	-0.29	539.43	0
539	Nickel (ppm)	0208	57.60	0.4000	58.59	5.079	3.925	19	-0.19	539.41	0
539	Nickel (ppm)	0047	57.62	3.590	58.59	5.079	3.925	19	-0.19	539.52	0
539	Nickel (ppm)	0186	58.15	2.300	58.59	5.079	3.925	19	-0.09	539.52	0
539	Nickel (ppm)	2113	60.50	5.000	58.59	5.079	3.925	19	0.38	539.52	0
539	Nickel (ppm)	2299	62.00	2.000	58.59	5.079	3.925	19	0.67	539.43	0
539	Nickel (ppm)	2141	62.64	0.2900	58.59	5.079	3.925	19	0.80	539.43	0
539	Nickel (ppm)	0553	64.15	6.100	58.59	5.079	3.925	19	1.09	539.53	0
539	Nickel (ppm)	0098	66.25	11.90	58.59	5.079	3.925	19	1.51	539.53	0
539	Nickel (ppm)	2033	66.43	2.880	58.59	5.079	3.925	19	1.54	539.43	0
539	Nickel (ppm)	0870	66.70	1.000	58.59	5.079	3.925	19	1.60	539.43	0

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.

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			