



AAFCO
Proficiency Testing Program



Minerals Scheme

Soybean Hulls

Test Material Code # 202053

Labs Reporting: 33

Analytes Reported 16

Issue Date : 10/31/2020

Analyte Proficiency Testing Report

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)	0510	730.0	2.000	851.9	49.36	40.40	17	-2.47	015.43	0
015	Aluminum (ppm)	0160	740.0	74.00	851.9	49.36	40.40	17	-2.27	015.99	0
015	Aluminum (ppm)	2033	751.2	16.20	851.9	49.36	40.40	17	-2.04	015.43	0
015	Aluminum (ppm)	0870	780.7	7.651	851.9	49.36	40.40	17	-1.44	015.43	0
015	Aluminum (ppm)	0918	809.4	8.833	851.9	49.36	40.40	17	-0.86	015.53	0
015	Aluminum (ppm)	0208	822.5	55.00	851.9	49.36	40.40	17	-0.60	015.41	0
015	Aluminum (ppm)	0047	825.9	4.800	851.9	49.36	40.40	17	-0.53	015.52	0
015	Aluminum (ppm)	0227	833.0	6.000	851.9	49.36	40.40	17	-0.38	015.41	0
015	Aluminum (ppm)	0098	840.5	61.10	851.9	49.36	40.40	17	-0.23	015.43	0
015	Aluminum (ppm)	2207	840.5	1.000	851.9	49.36	40.40	17	-0.23	015.42	0
015	Aluminum (ppm)	0407	851.2	86.94	851.9	49.36	40.40	17	-0.01	015.41	0
015	Aluminum (ppm)	0278	858.7	19.20	851.9	49.36	40.40	17	0.14	015.43	0
015	Aluminum (ppm)	2299	875.0	70.00	851.9	49.36	40.40	17	0.47	015.43	0
015	Aluminum (ppm)	0042	932.0	92.00	851.9	49.36	40.40	17	1.62	015.42	0
015	Aluminum (ppm)	0553	1,026	89.00	851.9	49.36	40.40	17	3.52	015.53	0
015	Aluminum (ppm)	2260	1,034	58.00	851.9	49.36	40.40	17	3.69	015.33	0
015	Aluminum (ppm)	2292	1,893	35.00	851.9	49.36	40.40	17	21.08	015.99	0
015	Aluminum (ppm)	0021	895.0	210.0	851.9	49.36	40.40	17	0.87	015.43	1
017	Boron (ppm)	2207	29.00	0.0000	30.43	2.911	1.427	11	-0.49	017.42	0
017	Boron (ppm)	0407	29.22	1.352	30.43	2.911	1.427	11	-0.42	017.41	0
017	Boron (ppm)	2033	29.35	0.3000	30.43	2.911	1.427	11	-0.37	017.43	0
017	Boron (ppm)	0047	29.73	0.0500	30.43	2.911	1.427	11	-0.24	017.52	0
017	Boron (ppm)	0918	29.99	0.0900	30.43	2.911	1.427	11	-0.15	017.43	0
017	Boron (ppm)	0098	30.24	2.430	30.43	2.911	1.427	11	-0.07	017.43	0
017	Boron (ppm)	0160	30.30	5.800	30.43	2.911	1.427	11	-0.04	017.99	0
017	Boron (ppm)	0021	31.00	4.000	30.43	2.911	1.427	11	0.20	017.43	0
017	Boron (ppm)	0510	31.50	1.000	30.43	2.911	1.427	11	0.37	017.43	0
017	Boron (ppm)	2299	32.00	0.0000	30.43	2.911	1.427	11	0.54	017.43	0
017	Boron (ppm)	0870	38.43	0.6750	30.43	2.911	1.427	11	2.75	017.43	0
021	Cobalt (ppm)	0098	19.49	0.3500	23.40	2.329	1.815	22	-1.68	021.53	0
021	Cobalt (ppm)	2033	20.11	0.0400	23.40	2.329	1.815	22	-1.41	021.43	0
021	Cobalt (ppm)	0160	20.75	3.900	23.40	2.329	1.815	22	-1.14	021.99	0
021	Cobalt (ppm)	0042	21.05	3.900	23.40	2.329	1.815	22	-1.01	021.42	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)	2113	21.50	1.000	23.40	2.329	1.815	22	-0.81	021.52	0
021	Cobalt (ppm)	0047	21.63	1.430	23.40	2.329	1.815	22	-0.76	021.52	0
021	Cobalt (ppm)	2141	22.23	2.150	23.40	2.329	1.815	22	-0.50	021.43	0
021	Cobalt (ppm)	0510	22.72	0.0400	23.40	2.329	1.815	22	-0.29	021.43	0
021	Cobalt (ppm)	0278	22.75	1.670	23.40	2.329	1.815	22	-0.28	021.43	0
021	Cobalt (ppm)	0227	23.00	0.0000	23.40	2.329	1.815	22	-0.17	021.31	0
021	Cobalt (ppm)	0918	23.11	0.2545	23.40	2.329	1.815	22	-0.12	021.53	0
021	Cobalt (ppm)	2260	23.60	1.160	23.40	2.329	1.815	22	0.09	021.33	0
021	Cobalt (ppm)	0033	23.70	0.0000	23.40	2.329	1.815	22	0.13	021.53	0
021	Cobalt (ppm)	0407	23.88	0.8104	23.40	2.329	1.815	22	0.21	021.41	0
021	Cobalt (ppm)	0208	24.10	0.8000	23.40	2.329	1.815	22	0.30	021.31	0
021	Cobalt (ppm)	0021	25.00	4.000	23.40	2.329	1.815	22	0.69	021.43	0
021	Cobalt (ppm)	0870	25.26	1.775	23.40	2.329	1.815	22	0.80	021.43	0
021	Cobalt (ppm)	2207	25.30	0.6000	23.40	2.329	1.815	22	0.82	021.52	0
021	Cobalt (ppm)	0555	25.49	0.7400	23.40	2.329	1.815	22	0.90	021.52	0
021	Cobalt (ppm)	0964	26.25	5.300	23.40	2.329	1.815	22	1.23	021.43	0
021	Cobalt (ppm)	2299	26.50	5.000	23.40	2.329	1.815	22	1.33	021.43	0
021	Cobalt (ppm)	0553	29.90	5.000	23.40	2.329	1.815	22	2.79	021.53	0
021	Cobalt (ppm)	0021	25.00	14.00	23.40	2.329	1.815	22	0.69	021.53	1
022	Copper (ppm)	0529	0.1325	0.0110	12.37	1.355	0.8270	28	-9.03	022.31	0
022	Copper (ppm)	0098	10.89	0.2300	12.37	1.355	0.8270	28	-1.09	022.53	0
022	Copper (ppm)	0510	11.00	0.0000	12.37	1.355	0.8270	28	-1.01	022.43	0
022	Copper (ppm)	0918	11.20	0.0900	12.37	1.355	0.8270	28	-0.87	022.43	0
022	Copper (ppm)	0160	11.50	0.8000	12.37	1.355	0.8270	28	-0.64	022.99	0
022	Copper (ppm)	2114	11.81	0.4130	12.37	1.355	0.8270	28	-0.41	022.41	0
022	Copper (ppm)	2207	11.85	0.3000	12.37	1.355	0.8270	28	-0.38	022.52	0
022	Copper (ppm)	2033	11.90	0.2000	12.37	1.355	0.8270	28	-0.34	022.43	0
022	Copper (ppm)	0208	11.92	0.8600	12.37	1.355	0.8270	28	-0.33	022.41	0
022	Copper (ppm)	0407	11.97	1.060	12.37	1.355	0.8270	28	-0.30	022.41	0
022	Copper (ppm)	0227	12.00	0.0000	12.37	1.355	0.8270	28	-0.27	022.41	0
022	Copper (ppm)	2113	12.00	4.000	12.37	1.355	0.8270	28	-0.27	022.52	0
022	Copper (ppm)	0202	12.05	0.1000	12.37	1.355	0.8270	28	-0.23	022.43	0
022	Copper (ppm)	0208	12.20	3.400	12.37	1.355	0.8270	28	-0.12	022.31	0
022	Copper (ppm)	0870	12.29	0.2449	12.37	1.355	0.8270	28	-0.06	022.43	0
022	Copper (ppm)	0047	12.35	0.3400	12.37	1.355	0.8270	28	-0.01	022.52	0
022	Copper (ppm)	0010	12.50	1.000	12.37	1.355	0.8270	28	0.10	022.33	0
022	Copper (ppm)	2299	12.50	1.000	12.37	1.355	0.8270	28	0.10	022.43	0
022	Copper (ppm)	0553	12.65	1.100	12.37	1.355	0.8270	28	0.21	022.53	0
022	Copper (ppm)	0964	12.73	0.4667	12.37	1.355	0.8270	28	0.27	022.43	0
022	Copper (ppm)	2141	12.95	1.400	12.37	1.355	0.8270	28	0.43	022.43	0
022	Copper (ppm)	2302	13.00	0.0000	12.37	1.355	0.8270	28	0.47	022.99	0
022	Copper (ppm)	0555	13.29	0.3400	12.37	1.355	0.8270	28	0.68	022.42	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
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022	Copper (ppm)	2306	13.50	1.000	12.37	1.355	0.8270	28	0.84	022.51	0
022	Copper (ppm)	0278	13.70	0.2000	12.37	1.355	0.8270	28	0.98	022.42	0
022	Copper (ppm)	2260	14.39	1.600	12.37	1.355	0.8270	28	1.49	022.34	0
022	Copper (ppm)	0186	22.00	2.000	12.37	1.355	0.8270	28	7.11	022.52	0
022	Copper (ppm)	2292	28.50	1.000	12.37	1.355	0.8270	28	11.91	022.99	0
022	Copper (ppm)	0021	13.50	5.000	12.37	1.355	0.8270	28	0.84	022.53	1
022	Copper (ppm)	0021	< 25		12.37	1.355	0.8270	28		022.43	5
023	Fluorine (ppm)	2260	53.70	0.9300	133.9	10.25	4.908	5		023.99	0
023	Fluorine (ppm)	2146	139.5	2.610	133.9	10.25	4.908	5		023.01	0
023	Fluorine (ppm)	0227	145.0	10.00	133.9	10.25	4.908	5		023.01	0
023	Fluorine (ppm)	2033	148.5	5.000	133.9	10.25	4.908	5		023.01	0
023	Fluorine (ppm)	2299	183.0	6.000	133.9	10.25	4.908	5		023.99	0
024	Iodine (ppm)	2299	165.0	10.00				1		024.99	0
024	Iodine (ppm)	2260	< 2					1		024.03	5
034	Selenium (ppm)	0407	0.1600	0.0000	0.2182	0.0439	0.0166	15	-1.33	034.41	0
034	Selenium (ppm)	2114	0.1665	0.0030	0.2182	0.0439	0.0166	15	-1.18	034.41	0
034	Selenium (ppm)	0278	0.1850	0.0100	0.2182	0.0439	0.0166	15	-0.76	034.53	0
034	Selenium (ppm)	0227	0.1910	0.0220	0.2182	0.0439	0.0166	15	-0.62	034.04	0
034	Selenium (ppm)	2033	0.2000	0.0200	0.2182	0.0439	0.0166	15	-0.42	034.53	0
034	Selenium (ppm)	0010	0.2050	0.0700	0.2182	0.0439	0.0166	15	-0.30	034.53	0
034	Selenium (ppm)	0208	0.2055	0.0010	0.2182	0.0439	0.0166	15	-0.29	034.52	0
034	Selenium (ppm)	0021	0.2100	0.0400	0.2182	0.0439	0.0166	15	-0.19	034.53	0
034	Selenium (ppm)	0553	0.2130	0.0040	0.2182	0.0439	0.0166	15	-0.12	034.53	0
034	Selenium (ppm)	0555	0.2200	0.0000	0.2182	0.0439	0.0166	15	0.04	034.52	0
034	Selenium (ppm)	0098	0.2255	0.0610	0.2182	0.0439	0.0166	15	0.17	034.53	0
034	Selenium (ppm)	0918	0.2292	0.0001	0.2182	0.0439	0.0166	15	0.25	034.53	0
034	Selenium (ppm)	0047	0.2950	0.0100	0.2182	0.0439	0.0166	15	1.75	034.52	0
034	Selenium (ppm)	0186	0.3795	0.0070	0.2182	0.0439	0.0166	15	3.67	034.52	0
034	Selenium (ppm)	0870	0.4995	0.0010	0.2182	0.0439	0.0166	15	6.41	034.43	0
034	Selenium (ppm)	2260	2.028	0.5380	0.2182	0.0439	0.0166	15	41.23	034.33	1
034	Selenium (ppm)	2302	< 0.01		0.2182	0.0439	0.0166	15		034.99	5
034	Selenium (ppm)	2207	< 0.1		0.2182	0.0439	0.0166	15		034.52	5
034	Selenium (ppm)	2299	< 0.8		0.2182	0.0439	0.0166	15		034.43	5
034	Selenium (ppm)	0964	< 0.96		0.2182	0.0439	0.0166	15		034.43	5
034	Selenium (ppm)	2141	< 1		0.2182	0.0439	0.0166	15		034.43	5
034	Selenium (ppm)	0021	< 22		0.2182	0.0439	0.0166	15		034.43	5
036	Sulfur (%)	0160	0.3550	0.0420	0.4005	0.0184	0.0191	20	-2.47	036.99	0
036	Sulfur (%)	0918	0.3580	0.0160	0.4005	0.0184	0.0191	20	-2.31	036.43	0
036	Sulfur (%)	2033	0.3650	0.0100	0.4005	0.0184	0.0191	20	-1.93	036.43	0
036	Sulfur (%)	0208	0.3670	0.0040	0.4005	0.0184	0.0191	20	-1.82	036.00	0
036	Sulfur (%)	2141	0.3688	0.0031	0.4005	0.0184	0.0191	20	-1.73	036.43	0
036	Sulfur (%)	2207	0.3700	0.0000	0.4005	0.0184	0.0191	20	-1.66	036.42	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
036	Sulfur (%)	0227	0.3800	0.0200	0.4005	0.0184	0.0191	20	-1.11	036.42	0
036	Sulfur (%)	0098	0.3820	0.0220	0.4005	0.0184	0.0191	20	-1.00	036.43	0
036	Sulfur (%)	2299	0.3900	0.0200	0.4005	0.0184	0.0191	20	-0.57	036.43	0
036	Sulfur (%)	0407	0.3920	0.0282	0.4005	0.0184	0.0191	20	-0.46	036.42	0
036	Sulfur (%)	0510	0.4050	0.0100	0.4005	0.0184	0.0191	20	0.25	036.43	0
036	Sulfur (%)	0964	0.4071	0.0350	0.4005	0.0184	0.0191	20	0.36	036.43	0
036	Sulfur (%)	0870	0.4073	0.0059	0.4005	0.0184	0.0191	20	0.37	036.42	0
036	Sulfur (%)	0202	0.4115	0.0030	0.4005	0.0184	0.0191	20	0.60	036.43	0
036	Sulfur (%)	0186	0.4163	0.0067	0.4005	0.0184	0.0191	20	0.86	036.52	0
036	Sulfur (%)	0555	0.4200	0.0200	0.4005	0.0184	0.0191	20	1.06	036.42	0
036	Sulfur (%)	0553	0.4415	0.0310	0.4005	0.0184	0.0191	20	2.23	036.53	0
036	Sulfur (%)	0278	0.4650	0.0100	0.4005	0.0184	0.0191	20	3.51	036.42	0
036	Sulfur (%)	2260	0.6492	0.0360	0.4005	0.0184	0.0191	20	13.53	036.02	0
036	Sulfur (%)	2292	0.7000	0.0600	0.4005	0.0184	0.0191	20	16.29	036.99	0
036	Sulfur (%)	0021	0.4250	0.1100	0.4005	0.0184	0.0191	20	1.33	036.43	1
038	Molybdenum (ppm)	0098	0.5245	0.0030	0.6091	0.1050	0.0451	16	-0.81	038.53	0
038	Molybdenum (ppm)	2113	0.5600	0.0200	0.6091	0.1050	0.0451	16	-0.47	038.52	0
038	Molybdenum (ppm)	0227	0.5695	0.0130	0.6091	0.1050	0.0451	16	-0.38	038.53	0
038	Molybdenum (ppm)	0964	0.5704	0.0578	0.6091	0.1050	0.0451	16	-0.37	038.43	0
038	Molybdenum (ppm)	0407	0.5707	0.0303	0.6091	0.1050	0.0451	16	-0.37	038.41	0
038	Molybdenum (ppm)	0918	0.5785	0.0210	0.6091	0.1050	0.0451	16	-0.29	038.53	0
038	Molybdenum (ppm)	2033	0.5950	0.0500	0.6091	0.1050	0.0451	16	-0.13	038.43	0
038	Molybdenum (ppm)	0510	0.6000	0.0000	0.6091	0.1050	0.0451	16	-0.09	038.43	0
038	Molybdenum (ppm)	0033	0.6000	0.0400	0.6091	0.1050	0.0451	16	-0.09	038.53	0
038	Molybdenum (ppm)	2299	0.6100	0.0800	0.6091	0.1050	0.0451	16	0.01	038.43	0
038	Molybdenum (ppm)	0047	0.6250	0.0100	0.6091	0.1050	0.0451	16	0.15	038.52	0
038	Molybdenum (ppm)	0010	0.6400	0.0400	0.6091	0.1050	0.0451	16	0.29	038.53	0
038	Molybdenum (ppm)	2207	0.6500	0.1000	0.6091	0.1050	0.0451	16	0.39	038.52	0
038	Molybdenum (ppm)	0553	0.6695	0.0770	0.6091	0.1050	0.0451	16	0.58	038.53	0
038	Molybdenum (ppm)	0870	0.6900	0.0201	0.6091	0.1050	0.0451	16	0.77	038.43	0
038	Molybdenum (ppm)	0021	0.6900	0.1600	0.6091	0.1050	0.0451	16	0.77	038.53	0
038	Molybdenum (ppm)	0278	0.7300	0.2400	0.6091	0.1050	0.0451	16	1.15	038.42	1
038	Molybdenum (ppm)	0555	< 0.8		0.6091	0.1050	0.0451	16		038.42	5
038	Molybdenum (ppm)	2141	< 1		0.6091	0.1050	0.0451	16		038.43	5
038	Molybdenum (ppm)	0021	< 4		0.6091	0.1050	0.0451	16		038.43	5
041	Vanadium (ppm)	0047	19.36	0.6800	42.43	3.861	8.036	12	-5.97	041.52	0
041	Vanadium (ppm)	0098	34.74	4.070	42.43	3.861	8.036	12	-1.99	041.53	0
041	Vanadium (ppm)	2033	37.65	5.190	42.43	3.861	8.036	12	-1.24	041.43	0
041	Vanadium (ppm)	0208	37.80	6.000	42.43	3.861	8.036	12	-1.20	041.41	0
041	Vanadium (ppm)	2260	38.15	3.070	42.43	3.861	8.036	12	-1.11	041.33	0
041	Vanadium (ppm)	0870	41.08	2.279	42.43	3.861	8.036	12	-0.35	041.43	0
041	Vanadium (ppm)	0278	42.41	0.3400	42.43	3.861	8.036	12	-0.01	041.43	0

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041	Vanadium (ppm)	2207	42.50	3.000	42.43	3.861	8.036	12	0.02	041.52	0
041	Vanadium (ppm)	0021	47.50	25.00	42.43	3.861	8.036	12	1.31	041.43	0
041	Vanadium (ppm)	0553	50.50	5.800	42.43	3.861	8.036	12	2.09	041.53	0
041	Vanadium (ppm)	0021	52.00	36.00	42.43	3.861	8.036	12	2.48	041.53	0
041	Vanadium (ppm)	2299	56.50	5.000	42.43	3.861	8.036	12	3.64	041.43	0
516	Arsenic, Total (ppm)	2302	0.0100	0.0000	9.499	1.083	0.7849	26	-8.76	516.99	0
516	Arsenic, Total (ppm)	0047	4.290	0.2400	9.499	1.083	0.7849	26	-4.81	516.52	0
516	Arsenic, Total (ppm)	0042	7.845	0.8100	9.499	1.083	0.7849	26	-1.53	516.42	0
516	Arsenic, Total (ppm)	0425	8.000	0.1000	9.499	1.083	0.7849	26	-1.38	516.34	0
516	Arsenic, Total (ppm)	0407	8.061	0.8670	9.499	1.083	0.7849	26	-1.33	516.43	0
516	Arsenic, Total (ppm)	0098	8.100	0.1100	9.499	1.083	0.7849	26	-1.29	516.53	0
516	Arsenic, Total (ppm)	0870	8.395	0.0151	9.499	1.083	0.7849	26	-1.02	516.43	0
516	Arsenic, Total (ppm)	2285	8.845	0.9700	9.499	1.083	0.7849	26	-0.60	516.42	0
516	Arsenic, Total (ppm)	0186	8.855	0.1300	9.499	1.083	0.7849	26	-0.59	516.52	0
516	Arsenic, Total (ppm)	2207	8.950	0.7000	9.499	1.083	0.7849	26	-0.51	516.52	0
516	Arsenic, Total (ppm)	0033	8.955	0.1900	9.499	1.083	0.7849	26	-0.50	516.53	0
516	Arsenic, Total (ppm)	2033	9.090	0.8000	9.499	1.083	0.7849	26	-0.38	516.53	0
516	Arsenic, Total (ppm)	0918	9.282	0.1703	9.499	1.083	0.7849	26	-0.20	516.53	0
516	Arsenic, Total (ppm)	0010	9.450	1.500	9.499	1.083	0.7849	26	-0.05	516.53	0
516	Arsenic, Total (ppm)	0208	9.515	0.2900	9.499	1.083	0.7849	26	0.01	516.52	0
516	Arsenic, Total (ppm)	0021	9.850	2.300	9.499	1.083	0.7849	26	0.32	516.43	0
516	Arsenic, Total (ppm)	0227	10.20	1.010	9.499	1.083	0.7849	26	0.64	516.53	0
516	Arsenic, Total (ppm)	2114	10.34	0.3100	9.499	1.083	0.7849	26	0.78	516.43	0
516	Arsenic, Total (ppm)	0964	10.35	0.5000	9.499	1.083	0.7849	26	0.79	516.43	0
516	Arsenic, Total (ppm)	2141	10.41	0.7800	9.499	1.083	0.7849	26	0.84	516.43	0
516	Arsenic, Total (ppm)	0553	10.70	0.8000	9.499	1.083	0.7849	26	1.11	516.53	0
516	Arsenic, Total (ppm)	0555	11.09	0.6400	9.499	1.083	0.7849	26	1.47	516.42	0
516	Arsenic, Total (ppm)	2299	11.50	1.000	9.499	1.083	0.7849	26	1.85	516.43	0
516	Arsenic, Total (ppm)	2113	11.50	1.000	9.499	1.083	0.7849	26	1.85	516.52	0
516	Arsenic, Total (ppm)	2260	11.57	3.575	9.499	1.083	0.7849	26	1.91	516.00	0
516	Arsenic, Total (ppm)	2306	11.80	1.600	9.499	1.083	0.7849	26	2.13	516.34	0
516	Arsenic, Total (ppm)	0021	10.95	4.100	9.499	1.083	0.7849	26	1.34	516.53	1
518	Cadmium (ppm)	2302	0.0200	0.0000	2.661	0.3674	0.2577	26	-7.19	518.99	0
518	Cadmium (ppm)	0047	1.175	0.1100	2.661	0.3674	0.2577	26	-4.05	518.52	0
518	Cadmium (ppm)	0407	1.597	0.0741	2.661	0.3674	0.2577	26	-2.90	518.41	0
518	Cadmium (ppm)	0098	2.150	0.1600	2.661	0.3674	0.2577	26	-1.39	518.53	0
518	Cadmium (ppm)	2285	2.295	0.2100	2.661	0.3674	0.2577	26	-1.00	518.42	0
518	Cadmium (ppm)	0278	2.340	0.3000	2.661	0.3674	0.2577	26	-0.87	518.43	0
518	Cadmium (ppm)	2141	2.535	0.1500	2.661	0.3674	0.2577	26	-0.34	518.43	0
518	Cadmium (ppm)	2207	2.600	0.2000	2.661	0.3674	0.2577	26	-0.17	518.52	0
518	Cadmium (ppm)	2033	2.605	0.0900	2.661	0.3674	0.2577	26	-0.15	518.53	0
518	Cadmium (ppm)	0042	2.665	0.5500	2.661	0.3674	0.2577	26	0.01	518.42	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			
518	Cadmium (ppm)	0918	2.680	0.0287	2.661	0.3674	0.2577	26	0.05	518.53	0
518	Cadmium (ppm)	0227	2.690	0.5400	2.661	0.3674	0.2577	26	0.08	518.53	0
518	Cadmium (ppm)	2113	2.700	0.4000	2.661	0.3674	0.2577	26	0.10	518.52	0
518	Cadmium (ppm)	0033	2.725	0.3700	2.661	0.3674	0.2577	26	0.17	518.53	0
518	Cadmium (ppm)	0208	2.735	0.4100	2.661	0.3674	0.2577	26	0.20	518.52	0
518	Cadmium (ppm)	0870	2.738	0.1695	2.661	0.3674	0.2577	26	0.21	518.43	0
518	Cadmium (ppm)	0010	2.750	0.1000	2.661	0.3674	0.2577	26	0.24	518.53	0
518	Cadmium (ppm)	0021	2.800	1.000	2.661	0.3674	0.2577	26	0.38	518.43	0
518	Cadmium (ppm)	2260	2.809	0.4690	2.661	0.3674	0.2577	26	0.40	518.33	0
518	Cadmium (ppm)	2146	2.860	0.2600	2.661	0.3674	0.2577	26	0.54	518.34	0
518	Cadmium (ppm)	0555	2.865	0.0500	2.661	0.3674	0.2577	26	0.55	518.42	0
518	Cadmium (ppm)	0186	2.865	0.0900	2.661	0.3674	0.2577	26	0.55	518.52	0
518	Cadmium (ppm)	0425	2.975	0.1500	2.661	0.3674	0.2577	26	0.85	518.34	0
518	Cadmium (ppm)	2299	3.000	0.4000	2.661	0.3674	0.2577	26	0.92	518.43	0
518	Cadmium (ppm)	2114	3.342	0.0200	2.661	0.3674	0.2577	26	1.85	518.99	0
518	Cadmium (ppm)	0553	3.470	0.4000	2.661	0.3674	0.2577	26	2.20	518.53	0
518	Cadmium (ppm)	0021	2.850	1.300	2.661	0.3674	0.2577	26	0.51	518.53	1
520	Chromium (ppm)	2207	0.9000	0.0000	2.371	0.3331	0.1058	21	-4.42	520.52	0
520	Chromium (ppm)	0047	1.190	0.0200	2.371	0.3331	0.1058	21	-3.55	520.52	0
520	Chromium (ppm)	0918	1.273	0.1070	2.371	0.3331	0.1058	21	-3.30	520.53	0
520	Chromium (ppm)	0407	1.673	0.2121	2.371	0.3331	0.1058	21	-2.09	520.41	0
520	Chromium (ppm)	0555	1.736	0.0180	2.371	0.3331	0.1058	21	-1.91	520.42	0
520	Chromium (ppm)	2113	1.900	0.0000	2.371	0.3331	0.1058	21	-1.41	520.52	0
520	Chromium (ppm)	0186	2.030	0.0400	2.371	0.3331	0.1058	21	-1.02	520.52	0
520	Chromium (ppm)	0553	2.345	0.0300	2.371	0.3331	0.1058	21	-0.08	520.53	0
520	Chromium (ppm)	0227	2.365	0.0900	2.371	0.3331	0.1058	21	-0.02	520.31	0
520	Chromium (ppm)	2141	2.445	0.1100	2.371	0.3331	0.1058	21	0.22	520.43	0
520	Chromium (ppm)	0278	2.470	0.2200	2.371	0.3331	0.1058	21	0.30	520.43	0
520	Chromium (ppm)	0098	2.595	0.1500	2.371	0.3331	0.1058	21	0.67	520.53	0
520	Chromium (ppm)	0033	2.610	0.2600	2.371	0.3331	0.1058	21	0.72	520.53	0
520	Chromium (ppm)	2033	2.650	0.1000	2.371	0.3331	0.1058	21	0.84	520.43	0
520	Chromium (ppm)	0208	2.715	0.1500	2.371	0.3331	0.1058	21	1.03	520.41	0
520	Chromium (ppm)	0964	2.803	0.1133	2.371	0.3331	0.1058	21	1.30	520.43	0
520	Chromium (ppm)	0010	3.000	0.4000	2.371	0.3331	0.1058	21	1.89	520.53	0
520	Chromium (ppm)	0021	3.050	0.1000	2.371	0.3331	0.1058	21	2.04	520.53	0
520	Chromium (ppm)	0510	3.070	0.0000	2.371	0.3331	0.1058	21	2.10	520.43	0
520	Chromium (ppm)	0870	3.199	0.0006	2.371	0.3331	0.1058	21	2.49	520.43	0
520	Chromium (ppm)	2299	3.250	0.1000	2.371	0.3331	0.1058	21	2.64	520.43	0
520	Chromium (ppm)	2260	17.35	1.210	2.371	0.3331	0.1058	21	44.96	520.33	1
520	Chromium (ppm)	2302	< 0.01		2.371	0.3331	0.1058	21		520.99	5
520	Chromium (ppm)	0021	< 22		2.371	0.3331	0.1058	21		520.43	5
526	Lead (ppm)	2302	0.0100	0.0000	1.918	0.2782	0.1823	25	-6.86	526.99	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			
526	Lead (ppm)	0047	0.9100	0.0600	1.918	0.2782	0.1823	25	-3.62	526.52	0
526	Lead (ppm)	2260	1.516	0.1110	1.918	0.2782	0.1823	25	-1.45	526.33	0
526	Lead (ppm)	2114	1.546	0.0220	1.918	0.2782	0.1823	25	-1.34	526.99	0
526	Lead (ppm)	2113	1.550	0.3000	1.918	0.2782	0.1823	25	-1.32	526.52	0
526	Lead (ppm)	2285	1.635	0.2700	1.918	0.2782	0.1823	25	-1.02	526.42	0
526	Lead (ppm)	0098	1.660	0.0800	1.918	0.2782	0.1823	25	-0.93	526.53	0
526	Lead (ppm)	0407	1.695	0.1493	1.918	0.2782	0.1823	25	-0.80	526.41	0
526	Lead (ppm)	2033	1.725	0.1700	1.918	0.2782	0.1823	25	-0.69	526.53	0
526	Lead (ppm)	2146	1.830	0.0600	1.918	0.2782	0.1823	25	-0.32	526.34	0
526	Lead (ppm)	0033	1.880	0.1400	1.918	0.2782	0.1823	25	-0.14	526.53	0
526	Lead (ppm)	2207	1.950	0.3000	1.918	0.2782	0.1823	25	0.11	526.52	0
526	Lead (ppm)	2141	1.960	0.1800	1.918	0.2782	0.1823	25	0.15	526.43	0
526	Lead (ppm)	0021	2.000	1.000	1.918	0.2782	0.1823	25	0.29	526.53	0
526	Lead (ppm)	0918	2.013	0.0316	1.918	0.2782	0.1823	25	0.34	526.53	0
526	Lead (ppm)	0010	2.050	0.1000	1.918	0.2782	0.1823	25	0.47	526.53	0
526	Lead (ppm)	0870	2.056	0.1193	1.918	0.2782	0.1823	25	0.49	526.43	0
526	Lead (ppm)	0186	2.080	0.0200	1.918	0.2782	0.1823	25	0.58	526.52	0
526	Lead (ppm)	0555	2.111	0.1150	1.918	0.2782	0.1823	25	0.69	526.42	0
526	Lead (ppm)	2299	2.150	0.1000	1.918	0.2782	0.1823	25	0.83	526.43	0
526	Lead (ppm)	0227	2.270	0.1400	1.918	0.2782	0.1823	25	1.26	526.53	0
526	Lead (ppm)	0208	2.295	0.2100	1.918	0.2782	0.1823	25	1.35	526.52	0
526	Lead (ppm)	0278	2.310	0.1800	1.918	0.2782	0.1823	25	1.41	526.43	0
526	Lead (ppm)	0553	2.605	0.0500	1.918	0.2782	0.1823	25	2.47	526.53	0
526	Lead (ppm)	0425	2.725	0.6500	1.918	0.2782	0.1823	25	2.90	526.34	0
526	Lead (ppm)	0042	3.305	2.530	1.918	0.2782	0.1823	25	4.99	526.42	1
526	Lead (ppm)	0021	< 6		1.918	0.2782	0.1823	25		526.43	5
529	Mercury (ppb)	2146	1,056	34.00	1,445	218.7	171.1	15	-1.78	529.00	0
529	Mercury (ppb)	2114	1,187	74.70	1,445	218.7	171.1	15	-1.18	529.99	0
529	Mercury (ppb)	2260	1,190	78.00	1,445	218.7	171.1	15	-1.17	529.00	0
529	Mercury (ppb)	2285	1,205	50.00	1,445	218.7	171.1	15	-1.10	529.00	0
529	Mercury (ppb)	2207	1,250	100.0	1,445	218.7	171.1	15	-0.89	529.99	0
529	Mercury (ppb)	0098	1,275	110.0	1,445	218.7	171.1	15	-0.78	529.99	0
529	Mercury (ppb)	0425	1,299	602.0	1,445	218.7	171.1	15	-0.67	529.00	0
529	Mercury (ppb)	0021	1,350	100.0	1,445	218.7	171.1	15	-0.43	529.99	0
529	Mercury (ppb)	0033	1,450	140.0	1,445	218.7	171.1	15	0.02	529.99	0
529	Mercury (ppb)	2033	1,458	79.01	1,445	218.7	171.1	15	0.06	529.99	0
529	Mercury (ppb)	0010	1,463	73.00	1,445	218.7	171.1	15	0.08	529.99	0
529	Mercury (ppb)	0553	1,765	450.0	1,445	218.7	171.1	15	1.46	529.99	0
529	Mercury (ppb)	0227	1,845	210.0	1,445	218.7	171.1	15	1.83	529.99	0
529	Mercury (ppb)	0555	2,072	266.0	1,445	218.7	171.1	15	2.87	529.99	0
529	Mercury (ppb)	2299	2,400	200.0	1,445	218.7	171.1	15	4.37	529.99	0
529	Mercury (ppb)	0407	5,053	1,085	1,445	218.7	171.1	15	16.50	529.99	1

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)	2302	< 0.01		1,445	218.7	171.1	15		529.99	5
539	Nickel (ppm)	2207	0.6500	0.1000	1.372	0.2092	0.2092	18	-3.45	539.52	0
539	Nickel (ppm)	0047	0.6950	0.0100	1.372	0.2092	0.2092	18	-3.23	539.52	0
539	Nickel (ppm)	0160	1.150	0.3000	1.372	0.2092	0.2092	18	-1.06	539.99	0
539	Nickel (ppm)	2033	1.195	0.1300	1.372	0.2092	0.2092	18	-0.84	539.43	0
539	Nickel (ppm)	2113	1.250	0.1000	1.372	0.2092	0.2092	18	-0.58	539.52	0
539	Nickel (ppm)	0553	1.255	0.0700	1.372	0.2092	0.2092	18	-0.56	539.53	0
539	Nickel (ppm)	0186	1.260	0.0200	1.372	0.2092	0.2092	18	-0.53	539.52	0
539	Nickel (ppm)	0407	1.331	0.6854	1.372	0.2092	0.2092	18	-0.20	539.41	0
539	Nickel (ppm)	0918	1.338	0.0811	1.372	0.2092	0.2092	18	-0.16	539.53	0
539	Nickel (ppm)	0964	1.360	0.0500	1.372	0.2092	0.2092	18	-0.06	539.43	0
539	Nickel (ppm)	0098	1.360	0.1400	1.372	0.2092	0.2092	18	-0.06	539.53	0
539	Nickel (ppm)	2141	1.420	0.2400	1.372	0.2092	0.2092	18	0.23	539.43	0
539	Nickel (ppm)	0278	1.435	0.4300	1.372	0.2092	0.2092	18	0.30	539.43	0
539	Nickel (ppm)	2299	1.500	0.2000	1.372	0.2092	0.2092	18	0.61	539.43	0
539	Nickel (ppm)	0021	1.650	0.3000	1.372	0.2092	0.2092	18	1.33	539.53	0
539	Nickel (ppm)	0010	1.700	0.5400	1.372	0.2092	0.2092	18	1.57	539.53	0
539	Nickel (ppm)	0870	1.874	0.1027	1.372	0.2092	0.2092	18	2.40	539.43	0
539	Nickel (ppm)	2260	1.995	0.2660	1.372	0.2092	0.2092	18	2.98	539.33	0
539	Nickel (ppm)	2292	17.50	1.000	1.372	0.2092	0.2092	18	77.08	539.99	2
539	Nickel (ppm)	0021	< 3		1.372	0.2092	0.2092	18		539.43	5

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.