



**AAFCO**  
Proficiency Testing Program



**Cat Food** **Minerals Scheme** **# Labs Reporting: 29**  
**Test Material Code # 201654** **Analyte Proficiency Testing Report** **Issue Date : 01/31/2017**

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 (mg / kg (ppm))	0918	62.976	1.3890	306.69	20.725	7.4982	16	-11.76	015.43	0
015	Aluminum (mg / kg (ppm))	2101	138.77	4.7500	306.69	20.725	7.4982	16	-8.10	015.42	0
015	Aluminum (mg / kg (ppm))	0510	207.50	5.0000	306.69	20.725	7.4982	16	-4.79	015.43	0
015	Aluminum (mg / kg (ppm))	2058	254.84	1.3200	306.69	20.725	7.4982	16	-2.50	015.43	0
015	Aluminum (mg / kg (ppm))	0870	257.60	7.4000	306.69	20.725	7.4982	16	-2.37	015.42	0
015	Aluminum (mg / kg (ppm))	0042	289.00	2.0000	306.69	20.725	7.4982	16	-0.85	015.42	0
015	Aluminum (mg / kg (ppm))	0098	289.90	17.600	306.69	20.725	7.4982	16	-0.81	015.43	0
015	Aluminum (mg / kg (ppm))	0047	305.35	8.9000	306.69	20.725	7.4982	16	-0.06	015.52	0
015	Aluminum (mg / kg (ppm))	2113	310.00	20.000	306.69	20.725	7.4982	16	0.16	015.52	0
015	Aluminum (mg / kg (ppm))	0964	345.04	3.1805	306.69	20.725	7.4982	16	1.85	015.41	0
015	Aluminum (mg / kg (ppm))	0407	353.74	0.83140	306.69	20.725	7.4982	16	2.27	015.41	0
015	Aluminum (mg / kg (ppm))	0227	365.50	1.0000	306.69	20.725	7.4982	16	2.84	015.41	0
015	Aluminum (mg / kg (ppm))	0208	367.00	6.0000	306.69	20.725	7.4982	16	2.91	015.41	0
015	Aluminum (mg / kg (ppm))	2033	375.00	2.0000	306.69	20.725	7.4982	16	3.30	015.43	0
015	Aluminum (mg / kg (ppm))	0553	402.00	34.000	306.69	20.725	7.4982	16	4.60	015.53	0
015	Aluminum (mg / kg (ppm))	0278	824.70	4.6000	306.69	20.725	7.4982	16	24.99	015.43	0
017	Boron (mg / kg (ppm))	0226	63.400	1.0000	70.659	5.9552	1.3921	10	-1.22	017.44	0
017	Boron (mg / kg (ppm))	0510	65.500	1.0000	70.659	5.9552	1.3921	10	-0.87	017.43	0
017	Boron (mg / kg (ppm))	0047	66.940	1.3600	70.659	5.9552	1.3921	10	-0.62	017.52	0
017	Boron (mg / kg (ppm))	0407	69.180	0.10100	70.659	5.9552	1.3921	10	-0.25	017.41	0
017	Boron (mg / kg (ppm))	0870	70.475	2.4500	70.659	5.9552	1.3921	10	-0.03	017.42	0
017	Boron (mg / kg (ppm))	2033	71.200	0.60000	70.659	5.9552	1.3921	10	0.09	017.43	0
017	Boron (mg / kg (ppm))	0918	73.160	2.7400	70.659	5.9552	1.3921	10	0.42	017.43	0
017	Boron (mg / kg (ppm))	2113	74.000	4.0000	70.659	5.9552	1.3921	10	0.56	017.52	0
017	Boron (mg / kg (ppm))	0098	74.335	0.37000	70.659	5.9552	1.3921	10	0.62	017.43	0
017	Boron (mg / kg (ppm))	0553	83.050	0.30000	70.659	5.9552	1.3921	10	2.08	017.53	0
021	Cobalt (mg / kg (ppm))	2101	15.370	0.94000	24.002	2.3798	1.4357	20	-3.63	021.42	0
021	Cobalt (mg / kg (ppm))	0870	20.270	0.54000	24.002	2.3798	1.4357	20	-1.57	021.42	0
021	Cobalt (mg / kg (ppm))	0510	20.435	0.21000	24.002	2.3798	1.4357	20	-1.50	021.43	0
021	Cobalt (mg / kg (ppm))	0042	20.950	0.90000	24.002	2.3798	1.4357	20	-1.28	021.32	0
021	Cobalt (mg / kg (ppm))	0918	21.693	1.9840	24.002	2.3798	1.4357	20	-0.97	021.53	0
021	Cobalt (mg / kg (ppm))	0208	22.050	1.7000	24.002	2.3798	1.4357	20	-0.82	021.31	0
021	Cobalt (mg / kg (ppm))	0407	22.594	0.00390	24.002	2.3798	1.4357	20	-0.59	021.41	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
021	Cobalt (mg / kg (ppm))	0033	22.950	2.3000	24.002	2.3798	1.4357	20	-0.44	021.53	0
021	Cobalt (mg / kg (ppm))	2113	24.000	4.0000	24.002	2.3798	1.4357	20	0.00	021.52	0
021	Cobalt (mg / kg (ppm))	0098	24.240	1.1400	24.002	2.3798	1.4357	20	0.10	021.43	0
021	Cobalt (mg / kg (ppm))	0964	24.512	0.89470	24.002	2.3798	1.4357	20	0.21	021.41	0
021	Cobalt (mg / kg (ppm))	0227	24.600	1.2000	24.002	2.3798	1.4357	20	0.25	021.31	0
021	Cobalt (mg / kg (ppm))	2033	24.700	0.80000	24.002	2.3798	1.4357	20	0.29	021.43	0
021	Cobalt (mg / kg (ppm))	0964	25.017	1.1844	24.002	2.3798	1.4357	20	0.43	021.43	0
021	Cobalt (mg / kg (ppm))	2141	25.785	0.49000	24.002	2.3798	1.4357	20	0.75	021.43	0
021	Cobalt (mg / kg (ppm))	0047	25.975	0.93000	24.002	2.3798	1.4357	20	0.83	021.52	0
021	Cobalt (mg / kg (ppm))	0563	26.500	1.0000	24.002	2.3798	1.4357	20	1.05	021.31	0
021	Cobalt (mg / kg (ppm))	0027	27.207	2.1970	24.002	2.3798	1.4357	20	1.35	021.43	0
021	Cobalt (mg / kg (ppm))	0553	31.150	5.5000	24.002	2.3798	1.4357	20	3.00	021.53	0
021	Cobalt (mg / kg (ppm))	0278	42.000	0.80000	24.002	2.3798	1.4357	20	7.56	021.43	0
022	Copper (mg / kg (ppm))	2101	170.12	11.270	249.90	17.415	15.213	26	-4.58	022.42	0
022	Copper (mg / kg (ppm))	0026	214.88	32.850	249.90	17.415	15.213	26	-2.01	022.42	0
022	Copper (mg / kg (ppm))	0098	223.60	11.000	249.90	17.415	15.213	26	-1.51	022.53	0
022	Copper (mg / kg (ppm))	0510	225.00	0.00000	249.90	17.415	15.213	26	-1.43	022.43	0
022	Copper (mg / kg (ppm))	0202	225.50	1.0000	249.90	17.415	15.213	26	-1.40	022.43	0
022	Copper (mg / kg (ppm))	0208	227.20	14.200	249.90	17.415	15.213	26	-1.30	022.41	0
022	Copper (mg / kg (ppm))	0407	234.34	1.0928	249.90	17.415	15.213	26	-0.89	022.41	0
022	Copper (mg / kg (ppm))	2058	237.58	13.170	249.90	17.415	15.213	26	-0.71	022.43	0
022	Copper (mg / kg (ppm))	0563	243.90	2.1566	249.90	17.415	15.213	26	-0.34	022.31	0
022	Copper (mg / kg (ppm))	2113	245.00	50.000	249.90	17.415	15.213	26	-0.28	022.52	0
022	Copper (mg / kg (ppm))	0918	248.40	17.600	249.90	17.415	15.213	26	-0.09	022.43	0
022	Copper (mg / kg (ppm))	0964	249.31	13.600	249.90	17.415	15.213	26	-0.03	022.41	0
022	Copper (mg / kg (ppm))	0668	253.00	4.0000	249.90	17.415	15.213	26	0.18	022.43	0
022	Copper (mg / kg (ppm))	0208	255.50	7.0000	249.90	17.415	15.213	26	0.32	022.31	0
022	Copper (mg / kg (ppm))	0010	257.00	12.000	249.90	17.415	15.213	26	0.41	022.33	0
022	Copper (mg / kg (ppm))	0227	258.00	6.0000	249.90	17.415	15.213	26	0.46	022.41	0
022	Copper (mg / kg (ppm))	0504	258.25	10.900	249.90	17.415	15.213	26	0.48	022.32	0
022	Copper (mg / kg (ppm))	0226	259.00	10.000	249.90	17.415	15.213	26	0.52	022.41	0
022	Copper (mg / kg (ppm))	0870	259.20	16.200	249.90	17.415	15.213	26	0.53	022.42	0
022	Copper (mg / kg (ppm))	0964	260.40	10.346	249.90	17.415	15.213	26	0.60	022.43	0
022	Copper (mg / kg (ppm))	0042	260.50	47.000	249.90	17.415	15.213	26	0.61	022.42	0
022	Copper (mg / kg (ppm))	2033	263.50	9.0000	249.90	17.415	15.213	26	0.78	022.43	0
022	Copper (mg / kg (ppm))	0047	278.34	14.720	249.90	17.415	15.213	26	1.63	022.52	0
022	Copper (mg / kg (ppm))	2141	278.60	24.540	249.90	17.415	15.213	26	1.65	022.43	0
022	Copper (mg / kg (ppm))	0027	279.81	14.883	249.90	17.415	15.213	26	1.72	022.43	0
022	Copper (mg / kg (ppm))	0553	283.50	41.000	249.90	17.415	15.213	26	1.93	022.53	0
023	Fluorine (mg / kg (ppm))	2033	26.250	0.10000			0.80000	2		023.01	0
023	Fluorine (mg / kg (ppm))	0208	29.350	1.5000			0.80000	2		023.01	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
024	Iodine (mg / kg (ppm))	2033	29.550	1.5000	32.737	3.0978	1.2533	3		024.53	0
024	Iodine (mg / kg (ppm))	0208	31.500	0.92000	32.737	3.0978	1.2533	3		024.53	0
024	Iodine (mg / kg (ppm))	2058	37.160	1.3400	32.737	3.0978	1.2533	3		024.53	0
034	Selenium (mg / kg (ppm))	2101	0.21200	0.00000	0.73529	0.12319	0.10594	18	-4.25	034.42	0
034	Selenium (mg / kg (ppm))	0964	0.47765	0.00270	0.73529	0.12319	0.10594	18	-2.09	034.43	0
034	Selenium (mg / kg (ppm))	0563	0.52000	0.02000	0.73529	0.12319	0.10594	18	-1.75	034.04	0
034	Selenium (mg / kg (ppm))	0033	0.56000	0.08000	0.73529	0.12319	0.10594	18	-1.42	034.53	0
034	Selenium (mg / kg (ppm))	0644	0.57000	0.00000	0.73529	0.12319	0.10594	18	-1.34	034.53	0
034	Selenium (mg / kg (ppm))	0553	0.64950	0.01500	0.73529	0.12319	0.10594	18	-0.70	034.53	0
034	Selenium (mg / kg (ppm))	2033	0.65500	0.03000	0.73529	0.12319	0.10594	18	-0.65	034.53	0
034	Selenium (mg / kg (ppm))	0208	0.66700	0.01400	0.73529	0.12319	0.10594	18	-0.55	034.52	0
034	Selenium (mg / kg (ppm))	0010	0.67000	0.10000	0.73529	0.12319	0.10594	18	-0.53	034.53	0
034	Selenium (mg / kg (ppm))	2058	0.74000	0.08000	0.73529	0.12319	0.10594	18	0.04	034.53	0
034	Selenium (mg / kg (ppm))	0918	0.76465	0.00630	0.73529	0.12319	0.10594	18	0.24	034.53	0
034	Selenium (mg / kg (ppm))	0227	0.78000	0.28000	0.73529	0.12319	0.10594	18	0.36	034.04	0
034	Selenium (mg / kg (ppm))	0047	0.81000	0.10000	0.73529	0.12319	0.10594	18	0.61	034.52	0
034	Selenium (mg / kg (ppm))	0098	0.83750	0.08700	0.73529	0.12319	0.10594	18	0.83	034.53	0
034	Selenium (mg / kg (ppm))	2113	0.88500	0.09000	0.73529	0.12319	0.10594	18	1.22	034.52	0
034	Selenium (mg / kg (ppm))	0278	1.5250	0.17000	0.73529	0.12319	0.10594	18	6.41	034.43	0
034	Selenium (mg / kg (ppm))	0870	2.4630	0.08200	0.73529	0.12319	0.10594	18	14.02	034.42	0
034	Selenium (mg / kg (ppm))	2141	3.6150	0.75000	0.73529	0.12319	0.10594	18	23.38	034.43	0
036	Sulfur (%)	0202	0.94500	0.03000	1.0330	0.04112	0.03939	16	-2.14	036.43	0
036	Sulfur (%)	0407	0.97600	0.01040	1.0330	0.04112	0.03939	16	-1.39	036.42	0
036	Sulfur (%)	0668	0.98000	0.00200	1.0330	0.04112	0.03939	16	-1.29	036.43	0
036	Sulfur (%)	2141	0.98500	0.01000	1.0330	0.04112	0.03939	16	-1.17	036.43	0
036	Sulfur (%)	0208	0.98800	0.00400	1.0330	0.04112	0.03939	16	-1.09	036.00	0
036	Sulfur (%)	0227	1.0000	0.02000	1.0330	0.04112	0.03939	16	-0.80	036.43	0
036	Sulfur (%)	0510	1.0000	0.02000	1.0330	0.04112	0.03939	16	-0.80	036.43	0
036	Sulfur (%)	0870	1.0117	0.03860	1.0330	0.04112	0.03939	16	-0.52	036.42	0
036	Sulfur (%)	0098	1.0200	0.00000	1.0330	0.04112	0.03939	16	-0.32	036.43	0
036	Sulfur (%)	2101	1.0395	0.00300	1.0330	0.04112	0.03939	16	0.16	036.42	0
036	Sulfur (%)	0918	1.0510	0.00000	1.0330	0.04112	0.03939	16	0.44	036.43	0
036	Sulfur (%)	0964	1.0673	0.08230	1.0330	0.04112	0.03939	16	0.83	036.43	0
036	Sulfur (%)	0226	1.1000	0.02000	1.0330	0.04112	0.03939	16	1.63	036.04	0
036	Sulfur (%)	0553	1.1000	0.04000	1.0330	0.04112	0.03939	16	1.63	036.53	0
036	Sulfur (%)	2033	1.1500	0.10000	1.0330	0.04112	0.03939	16	2.85	036.43	0
036	Sulfur (%)	0504	4.6450	0.25000	1.0330	0.04112	0.03939	16	87.85	036.00	0
038	Molybdenum (mg / kg (ppm))	0563	111.49	4.8100	133.15	10.202	8.6793	21	-2.12	038.34	0
038	Molybdenum (mg / kg (ppm))	0870	113.75	5.7000	133.15	10.202	8.6793	21	-1.90	038.42	0
038	Molybdenum (mg / kg (ppm))	0042	116.50	3.0000	133.15	10.202	8.6793	21	-1.63	038.42	0
038	Molybdenum (mg / kg (ppm))	2101	116.87	6.6290	133.15	10.202	8.6793	21	-1.60	038.42	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
038	Molybdenum (mg / kg (ppm))	0033	122.50	7.0000	133.15	10.202	8.6793	21	-1.04	038.53	0
038	Molybdenum (mg / kg (ppm))	2033	124.50	19.000	133.15	10.202	8.6793	21	-0.85	038.43	0
038	Molybdenum (mg / kg (ppm))	2141	125.79	0.91000	133.15	10.202	8.6793	21	-0.72	038.43	0
038	Molybdenum (mg / kg (ppm))	0510	128.20	2.4000	133.15	10.202	8.6793	21	-0.49	038.43	0
038	Molybdenum (mg / kg (ppm))	0226	128.50	5.0000	133.15	10.202	8.6793	21	-0.46	038.41	0
038	Molybdenum (mg / kg (ppm))	0964	129.45	0.13740	133.15	10.202	8.6793	21	-0.36	038.43	0
038	Molybdenum (mg / kg (ppm))	0010	133.05	25.100	133.15	10.202	8.6793	21	-0.01	038.53	0
038	Molybdenum (mg / kg (ppm))	0407	133.61	0.14710	133.15	10.202	8.6793	21	0.04	038.41	0
038	Molybdenum (mg / kg (ppm))	0098	134.45	7.1000	133.15	10.202	8.6793	21	0.13	038.53	0
038	Molybdenum (mg / kg (ppm))	0964	136.54	2.0410	133.15	10.202	8.6793	21	0.33	038.41	0
038	Molybdenum (mg / kg (ppm))	0208	138.00	12.000	133.15	10.202	8.6793	21	0.47	038.41	0
038	Molybdenum (mg / kg (ppm))	0227	145.00	4.0000	133.15	10.202	8.6793	21	1.16	038.31	0
038	Molybdenum (mg / kg (ppm))	0027	147.89	1.1880	133.15	10.202	8.6793	21	1.44	038.43	0
038	Molybdenum (mg / kg (ppm))	0047	147.95	3.5000	133.15	10.202	8.6793	21	1.45	038.52	0
038	Molybdenum (mg / kg (ppm))	2113	150.00	20.000	133.15	10.202	8.6793	21	1.65	038.52	0
038	Molybdenum (mg / kg (ppm))	0918	172.79	4.6035	133.15	10.202	8.6793	21	3.89	038.53	0
038	Molybdenum (mg / kg (ppm))	0553	187.00	48.000	133.15	10.202	8.6793	21	5.28	038.53	0
041	Vanadium (mg / kg (ppm))	0047	1.1250	0.19000	41.277	3.7720	1.9579	10	-10.64	041.52	0
041	Vanadium (mg / kg (ppm))	2101	34.351	3.3790	41.277	3.7720	1.9579	10	-1.84	041.42	0
041	Vanadium (mg / kg (ppm))	0208	34.500	1.4000	41.277	3.7720	1.9579	10	-1.80	041.41	0
041	Vanadium (mg / kg (ppm))	0870	35.295	0.53000	41.277	3.7720	1.9579	10	-1.59	041.42	0
041	Vanadium (mg / kg (ppm))	2033	38.400	3.6000	41.277	3.7720	1.9579	10	-0.76	041.43	0
041	Vanadium (mg / kg (ppm))	2113	38.500	3.0000	41.277	3.7720	1.9579	10	-0.74	041.52	0
041	Vanadium (mg / kg (ppm))	0098	43.870	0.84000	41.277	3.7720	1.9579	10	0.69	041.43	0
041	Vanadium (mg / kg (ppm))	0563	51.150	3.0400	41.277	3.7720	1.9579	10	2.62	041.34	0
041	Vanadium (mg / kg (ppm))	0553	54.150	3.5000	41.277	3.7720	1.9579	10	3.41	041.53	0
041	Vanadium (mg / kg (ppm))	0278	93.850	0.10000	41.277	3.7720	1.9579	10	13.94	041.43	0
516	Arsenic, total (mg / kg (ppm))	0563	20.584	0.79670	27.541	2.6748	2.6896	19	-2.60	516.00	0
516	Arsenic, total (mg / kg (ppm))	0870	22.265	1.2100	27.541	2.6748	2.6896	19	-1.97	516.42	0
516	Arsenic, total (mg / kg (ppm))	2141	23.840	9.3000	27.541	2.6748	2.6896	19	-1.38	516.43	0
516	Arsenic, total (mg / kg (ppm))	2058	24.600	0.16000	27.541	2.6748	2.6896	19	-1.10	516.53	0
516	Arsenic, total (mg / kg (ppm))	2033	24.950	5.1000	27.541	2.6748	2.6896	19	-0.97	516.53	0
516	Arsenic, total (mg / kg (ppm))	0918	24.982	1.2280	27.541	2.6748	2.6896	19	-0.96	516.53	0
516	Arsenic, total (mg / kg (ppm))	2101	24.994	1.4920	27.541	2.6748	2.6896	19	-0.95	516.42	0
516	Arsenic, total (mg / kg (ppm))	0033	25.200	3.6000	27.541	2.6748	2.6896	19	-0.88	516.53	0
516	Arsenic, total (mg / kg (ppm))	0644	26.100	0.00000	27.541	2.6748	2.6896	19	-0.54	516.53	0
516	Arsenic, total (mg / kg (ppm))	0027	26.941	3.4760	27.541	2.6748	2.6896	19	-0.22	516.43	0
516	Arsenic, total (mg / kg (ppm))	0964	27.697	1.3805	27.541	2.6748	2.6896	19	0.06	516.43	0
516	Arsenic, total (mg / kg (ppm))	0098	28.920	5.8600	27.541	2.6748	2.6896	19	0.52	516.53	0
516	Arsenic, total (mg / kg (ppm))	2113	29.000	2.0000	27.541	2.6748	2.6896	19	0.55	516.52	0
516	Arsenic, total (mg / kg (ppm))	0047	29.010	0.30000	27.541	2.6748	2.6896	19	0.55	516.52	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
516	Arsenic, total (mg / kg (ppm))	0208	30.100	1.2000	27.541	2.6748	2.6896	19	0.96	516.52	0
516	Arsenic, total (mg / kg (ppm))	0010	30.950	4.7000	27.541	2.6748	2.6896	19	1.27	516.53	0
516	Arsenic, total (mg / kg (ppm))	0227	34.650	5.5000	27.541	2.6748	2.6896	19	2.66	516.53	0
516	Arsenic, total (mg / kg (ppm))	0553	40.750	3.7000	27.541	2.6748	2.6896	19	4.94	516.53	0
516	Arsenic, total (mg / kg (ppm))	0278	58.250	0.10000	27.541	2.6748	2.6896	19	11.48	516.43	0
518	Cadmium (mg / kg (ppm))	0563	0.38800	0.00600	0.56278	0.09816	0.04564	21	-1.78	518.31	0
518	Cadmium (mg / kg (ppm))	2101	0.42550	0.10500	0.56278	0.09816	0.04564	21	-1.40	518.42	0
518	Cadmium (mg / kg (ppm))	0407	0.46345	0.00610	0.56278	0.09816	0.04564	21	-1.01	518.41	0
518	Cadmium (mg / kg (ppm))	0964	0.46770	0.03620	0.56278	0.09816	0.04564	21	-0.97	518.43	0
518	Cadmium (mg / kg (ppm))	0425	0.47150	0.01500	0.56278	0.09816	0.04564	21	-0.93	518.43	0
518	Cadmium (mg / kg (ppm))	0010	0.51000	0.02000	0.56278	0.09816	0.04564	21	-0.54	518.53	0
518	Cadmium (mg / kg (ppm))	0208	0.51200	0.02000	0.56278	0.09816	0.04564	21	-0.52	518.52	0
518	Cadmium (mg / kg (ppm))	0644	0.52000	0.00000	0.56278	0.09816	0.04564	21	-0.44	518.53	0
518	Cadmium (mg / kg (ppm))	0553	0.52950	0.04700	0.56278	0.09816	0.04564	21	-0.34	518.53	0
518	Cadmium (mg / kg (ppm))	0047	0.53500	0.01000	0.56278	0.09816	0.04564	21	-0.28	518.52	0
518	Cadmium (mg / kg (ppm))	2113	0.54000	0.02000	0.56278	0.09816	0.04564	21	-0.23	518.52	0
518	Cadmium (mg / kg (ppm))	2141	0.55000	0.00000	0.56278	0.09816	0.04564	21	-0.13	518.43	0
518	Cadmium (mg / kg (ppm))	0098	0.55650	0.01100	0.56278	0.09816	0.04564	21	-0.06	518.53	0
518	Cadmium (mg / kg (ppm))	0033	0.56000	0.10000	0.56278	0.09816	0.04564	21	-0.03	518.53	0
518	Cadmium (mg / kg (ppm))	2033	0.62000	0.06000	0.56278	0.09816	0.04564	21	0.58	518.53	0
518	Cadmium (mg / kg (ppm))	0042	0.63050	0.25700	0.56278	0.09816	0.04564	21	0.69	518.42	0
518	Cadmium (mg / kg (ppm))	0227	0.65100	0.14200	0.56278	0.09816	0.04564	21	0.90	518.53	0
518	Cadmium (mg / kg (ppm))	0918	0.68160	0.02920	0.56278	0.09816	0.04564	21	1.21	518.53	0
518	Cadmium (mg / kg (ppm))	2058	0.74500	0.01000	0.56278	0.09816	0.04564	21	1.86	518.53	0
518	Cadmium (mg / kg (ppm))	0278	1.0350	0.05000	0.56278	0.09816	0.04564	21	4.81	518.43	0
518	Cadmium (mg / kg (ppm))	0870	1.0440	0.01400	0.56278	0.09816	0.04564	21	4.90	518.42	0
520	Chromium (mg / kg (ppm))	2101	0.82100	0.00000	3.1634	0.42551	0.39809	18	-5.50	520.42	0
520	Chromium (mg / kg (ppm))	2113	1.3000	0.20000	3.1634	0.42551	0.39809	18	-4.38	520.52	0
520	Chromium (mg / kg (ppm))	0047	1.4850	0.07000	3.1634	0.42551	0.39809	18	-3.94	520.52	0
520	Chromium (mg / kg (ppm))	2058	1.4900	0.06000	3.1634	0.42551	0.39809	18	-3.93	520.53	0
520	Chromium (mg / kg (ppm))	0918	2.2003	1.0705	3.1634	0.42551	0.39809	18	-2.26	520.53	0
520	Chromium (mg / kg (ppm))	2033	2.4000	0.60000	3.1634	0.42551	0.39809	18	-1.79	520.43	0
520	Chromium (mg / kg (ppm))	0870	2.6850	0.10600	3.1634	0.42551	0.39809	18	-1.12	520.42	0
520	Chromium (mg / kg (ppm))	0098	2.7800	0.72000	3.1634	0.42551	0.39809	18	-0.90	520.43	0
520	Chromium (mg / kg (ppm))	0227	3.0000	0.00000	3.1634	0.42551	0.39809	18	-0.38	520.31	0
520	Chromium (mg / kg (ppm))	2141	3.5900	0.76000	3.1634	0.42551	0.39809	18	1.00	520.43	0
520	Chromium (mg / kg (ppm))	0042	3.6200	1.1000	3.1634	0.42551	0.39809	18	1.07	520.32	0
520	Chromium (mg / kg (ppm))	0510	3.6700	0.14000	3.1634	0.42551	0.39809	18	1.19	520.43	0
520	Chromium (mg / kg (ppm))	0033	3.9950	0.03000	3.1634	0.42551	0.39809	18	1.95	520.53	0
520	Chromium (mg / kg (ppm))	0010	4.2000	0.80000	3.1634	0.42551	0.39809	18	2.44	520.53	0
520	Chromium (mg / kg (ppm))	0964	4.2438	0.03910	3.1634	0.42551	0.39809	18	2.54	520.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
520	Chromium (mg / kg (ppm))	0644	4.4100	0.00000	3.1634	0.42551	0.39809	18	2.93	520.53	0
520	Chromium (mg / kg (ppm))	0208	5.8800	1.0800	3.1634	0.42551	0.39809	18	6.38	520.41	0
520	Chromium (mg / kg (ppm))	0278	7.8950	0.39000	3.1634	0.42551	0.39809	18	11.12	520.43	0
526	Lead (mg / kg (ppm))	2101	3.4956	0.97120	4.6004	0.58489	0.37553	22	-1.89	526.42	0
526	Lead (mg / kg (ppm))	0033	3.8000	0.26000	4.6004	0.58489	0.37553	22	-1.37	526.53	0
526	Lead (mg / kg (ppm))	0870	3.8215	0.21100	4.6004	0.58489	0.37553	22	-1.33	526.42	0
526	Lead (mg / kg (ppm))	2058	3.8250	0.14000	4.6004	0.58489	0.37553	22	-1.33	526.53	0
526	Lead (mg / kg (ppm))	2141	4.0350	0.07000	4.6004	0.58489	0.37553	22	-0.97	526.43	0
526	Lead (mg / kg (ppm))	2113	4.1500	0.70000	4.6004	0.58489	0.37553	22	-0.77	526.52	0
526	Lead (mg / kg (ppm))	0047	4.2650	0.31000	4.6004	0.58489	0.37553	22	-0.57	526.52	0
526	Lead (mg / kg (ppm))	0407	4.3191	0.09150	4.6004	0.58489	0.37553	22	-0.48	526.41	0
526	Lead (mg / kg (ppm))	2033	4.4050	0.03000	4.6004	0.58489	0.37553	22	-0.33	526.53	0
526	Lead (mg / kg (ppm))	0425	4.4450	0.01000	4.6004	0.58489	0.37553	22	-0.27	526.34	0
526	Lead (mg / kg (ppm))	0027	4.5315	0.24100	4.6004	0.58489	0.37553	22	-0.12	526.43	0
526	Lead (mg / kg (ppm))	0010	4.7000	0.80000	4.6004	0.58489	0.37553	22	0.17	526.53	0
526	Lead (mg / kg (ppm))	0964	4.7330	0.21290	4.6004	0.58489	0.37553	22	0.23	526.43	0
526	Lead (mg / kg (ppm))	0098	4.7450	0.03000	4.6004	0.58489	0.37553	22	0.25	526.53	0
526	Lead (mg / kg (ppm))	0208	4.7650	0.31000	4.6004	0.58489	0.37553	22	0.28	526.52	0
526	Lead (mg / kg (ppm))	0644	5.0400	0.00000	4.6004	0.58489	0.37553	22	0.75	526.53	0
526	Lead (mg / kg (ppm))	0227	5.0550	0.97000	4.6004	0.58489	0.37553	22	0.78	526.53	0
526	Lead (mg / kg (ppm))	0042	5.0900	2.0000	4.6004	0.58489	0.37553	22	0.84	526.32	0
526	Lead (mg / kg (ppm))	0918	5.2480	0.32400	4.6004	0.58489	0.37553	22	1.11	526.53	0
526	Lead (mg / kg (ppm))	0553	5.4150	0.57000	4.6004	0.58489	0.37553	22	1.39	526.53	0
526	Lead (mg / kg (ppm))	0563	7.0000	0.00000	4.6004	0.58489	0.37553	22	4.10	526.31	0
526	Lead (mg / kg (ppm))	0278	7.7550	0.01000	4.6004	0.58489	0.37553	22	5.39	526.43	0
529	Mercury (µg / kg (ppb))	0047	11.350	0.02000	9,351.3	1,068.5	753.27	11	-8.74	529.99	0
529	Mercury (µg / kg (ppb))	0553	14.500	3.0000	9,351.3	1,068.5	753.27	11	-8.74	529.99	0
529	Mercury (µg / kg (ppb))	0034	8,350.4	1,510.2	9,351.3	1,068.5	753.27	11	-0.94	529.99	0
529	Mercury (µg / kg (ppb))	0563	8,485.0	264.00	9,351.3	1,068.5	753.27	11	-0.81	529.99	0
529	Mercury (µg / kg (ppb))	0425	8,805.7	208.30	9,351.3	1,068.5	753.27	11	-0.51	529.00	0
529	Mercury (µg / kg (ppb))	2033	9,770.0	100.00	9,351.3	1,068.5	753.27	11	0.39	529.99	0
529	Mercury (µg / kg (ppb))	0033	9,970.0	460.00	9,351.3	1,068.5	753.27	11	0.58	529.99	0
529	Mercury (µg / kg (ppb))	0644	11,790	0.00000	9,351.3	1,068.5	753.27	11	2.28	529.99	0
529	Mercury (µg / kg (ppb))	0227	12,550	300.00	9,351.3	1,068.5	753.27	11	2.99	529.99	0
529	Mercury (µg / kg (ppb))	0010	13,152	802.00	9,351.3	1,068.5	753.27	11	3.56	529.99	0
529	Mercury (µg / kg (ppb))	0918	16,467	4,638.4	9,351.3	1,068.5	753.27	11	6.66	529.99	0
539	Nickel (mg / kg (ppm))	2101	0.53000	0.11000	1.3942	0.21215	0.17364	14	-4.07	539.42	0
539	Nickel (mg / kg (ppm))	0918	0.88605	0.15310	1.3942	0.21215	0.17364	14	-2.40	539.53	0
539	Nickel (mg / kg (ppm))	0098	0.97800	0.16400	1.3942	0.21215	0.17364	14	-1.96	539.53	0
539	Nickel (mg / kg (ppm))	0047	1.0400	0.04000	1.3942	0.21215	0.17364	14	-1.67	539.52	0
539	Nickel (mg / kg (ppm))	2113	1.0750	0.25000	1.3942	0.21215	0.17364	14	-1.50	539.52	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
539	Nickel (mg / kg (ppm))	2033	1.2200	0.28000	1.3942	0.21215	0.17364	14	-0.82	539.43	0
539	Nickel (mg / kg (ppm))	2141	1.3300	0.02000	1.3942	0.21215	0.17364	14	-0.30	539.43	0
539	Nickel (mg / kg (ppm))	0042	1.3650	0.51000	1.3942	0.21215	0.17364	14	-0.14	539.32	0
539	Nickel (mg / kg (ppm))	0227	1.4000	0.00000	1.3942	0.21215	0.17364	14	0.03	539.31	0
539	Nickel (mg / kg (ppm))	0407	1.5048	0.05070	1.3942	0.21215	0.17364	14	0.52	539.41	0
539	Nickel (mg / kg (ppm))	0870	1.5320	0.02000	1.3942	0.21215	0.17364	14	0.65	539.42	0
539	Nickel (mg / kg (ppm))	0964	2.0950	0.23310	1.3942	0.21215	0.17364	14	3.30	539.43	0
539	Nickel (mg / kg (ppm))	0010	2.3500	0.50000	1.3942	0.21215	0.17364	14	4.51	539.53	0
539	Nickel (mg / kg (ppm))	0278	3.8400	0.10000	1.3942	0.21215	0.17364	14	11.53	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, 8 = Analyst data exempt and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in this case the Z Scores may be included for information only (Grey, No Action!). Flag 3 indicates not used in statistics.