



Analyte Proficiency Testing Report Minerals Program

Sample # 201652
Lamb Feed, Medicated

Labs Reporting: 24
Issue Date : 07/31/2016

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs	Z Score	Method	
015	Aluminum (mg / kg (ppm))	0425	233.15	4.8300	282.31	19.316	8.6654	11	-2.55	015.43	0
015	Aluminum (mg / kg (ppm))	0510	243.50	1.0000	282.31	19.316	8.6654	11	-2.01	015.43	0
015	Aluminum (mg / kg (ppm))	0098	264.75	2.9000	282.31	19.316	8.6654	11	-0.91	015.43	0
015	Aluminum (mg / kg (ppm))	0042	273.00	8.0000	282.31	19.316	8.6654	11	-0.48	015.42	0
015	Aluminum (mg / kg (ppm))	0918	278.07	15.622	282.31	19.316	8.6654	11	-0.22	015.43	0
015	Aluminum (mg / kg (ppm))	0278	280.90	12.400	282.31	19.316	8.6654	11	-0.07	015.43	0
015	Aluminum (mg / kg (ppm))	0407	281.29	0.66700	282.31	19.316	8.6654	11	-0.05	015.41	0
015	Aluminum (mg / kg (ppm))	0208	306.50	21.000	282.31	19.316	8.6654	11	1.25	015.41	0
015	Aluminum (mg / kg (ppm))	0047	306.85	0.90000	282.31	19.316	8.6654	11	1.27	015.52	0
015	Aluminum (mg / kg (ppm))	0553	311.00	28.000	282.31	19.316	8.6654	11	1.49	015.53	0
015	Aluminum (mg / kg (ppm))	2033	326.00	0.00000	282.31	19.316	8.6654	11	2.26	015.43	0
017	Boron (mg / kg (ppm))	0047	52.150	3.9000	60.093	5.1897	1.8913	10	-1.53	017.52	0
017	Boron (mg / kg (ppm))	0208	56.300	0.40000	60.093	5.1897	1.8913	10	-0.73	017.44	0
017	Boron (mg / kg (ppm))	0918	57.555	0.77000	60.093	5.1897	1.8913	10	-0.49	017.43	0
017	Boron (mg / kg (ppm))	0510	58.500	1.0000	60.093	5.1897	1.8913	10	-0.31	017.43	0
017	Boron (mg / kg (ppm))	0098	58.930	0.90000	60.093	5.1897	1.8913	10	-0.22	017.43	0
017	Boron (mg / kg (ppm))	0407	59.138	1.1234	60.093	5.1897	1.8913	10	-0.18	017.41	0
017	Boron (mg / kg (ppm))	0168	59.650	0.90000	60.093	5.1897	1.8913	10	-0.09	017.43	0
017	Boron (mg / kg (ppm))	2033	60.600	0.00000	60.093	5.1897	1.8913	10	0.10	017.43	0
017	Boron (mg / kg (ppm))	0226	69.980	3.2200	60.093	5.1897	1.8913	10	1.91	017.44	0
017	Boron (mg / kg (ppm))	0042	78.150	6.7000	60.093	5.1897	1.8913	10	3.48	017.42	0
021	Cobalt (mg / kg (ppm))	0619	1.4100	0.02000	2.3044	0.32511	0.14953	15	-2.75	021.41	0
021	Cobalt (mg / kg (ppm))	0278	1.6545	0.02300	2.3044	0.32511	0.14953	15	-2.00	021.43	0
021	Cobalt (mg / kg (ppm))	0407	1.9659	0.04470	2.3044	0.32511	0.14953	15	-1.04	021.41	0
021	Cobalt (mg / kg (ppm))	0208	2.1950	0.67000	2.3044	0.32511	0.14953	15	-0.34	021.31	0
021	Cobalt (mg / kg (ppm))	0510	2.2350	0.07000	2.3044	0.32511	0.14953	15	-0.21	021.43	0
021	Cobalt (mg / kg (ppm))	0042	2.2800	0.64000	2.3044	0.32511	0.14953	15	-0.08	021.42	0
021	Cobalt (mg / kg (ppm))	2033	2.3100	0.00000	2.3044	0.32511	0.14953	15	0.02	021.43	0
021	Cobalt (mg / kg (ppm))	0047	2.3300	0.08000	2.3044	0.32511	0.14953	15	0.08	021.52	0
021	Cobalt (mg / kg (ppm))	0098	2.3355	0.15900	2.3044	0.32511	0.14953	15	0.10	021.43	0
021	Cobalt (mg / kg (ppm))	0918	2.3548	0.06210	2.3044	0.32511	0.14953	15	0.15	021.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
021	Cobalt (mg / kg (ppm))	0033	2.3600	0.08000	2.3044	0.32511	0.14953	15	0.17	021.53	0
021	Cobalt (mg / kg (ppm))	0553	2.4350	0.25000	2.3044	0.32511	0.14953	15	0.40	021.53	0
021	Cobalt (mg / kg (ppm))	0027	2.5850	0.11000	2.3044	0.32511	0.14953	15	0.86	021.43	0
021	Cobalt (mg / kg (ppm))	0168	2.7550	0.02200	2.3044	0.32511	0.14953	15	1.39	021.43	0
021	Cobalt (mg / kg (ppm))	0563	3.6942	0.01220	2.3044	0.32511	0.14953	15	4.27	021.31	0
022	Copper (mg / kg (ppm))	0208	21.565	2.0100	24.028	2.3821	0.62446	17	-1.03	022.41	0
022	Copper (mg / kg (ppm))	0098	21.565	0.91000	24.028	2.3821	0.62446	17	-1.03	022.53	0
022	Copper (mg / kg (ppm))	0407	21.589	0.03580	24.028	2.3821	0.62446	17	-1.02	022.41	0
022	Copper (mg / kg (ppm))	0918	22.435	1.6300	24.028	2.3821	0.62446	17	-0.67	022.43	0
022	Copper (mg / kg (ppm))	0510	23.000	0.00000	24.028	2.3821	0.62446	17	-0.43	022.43	0
022	Copper (mg / kg (ppm))	0619	23.050	0.10000	24.028	2.3821	0.62446	17	-0.41	022.41	0
022	Copper (mg / kg (ppm))	0208	23.400	0.40000	24.028	2.3821	0.62446	17	-0.26	022.31	0
022	Copper (mg / kg (ppm))	0047	23.750	0.70000	24.028	2.3821	0.62446	17	-0.12	022.52	0
022	Copper (mg / kg (ppm))	0425	24.190	0.00000	24.028	2.3821	0.62446	17	0.07	022.43	0
022	Copper (mg / kg (ppm))	0027	24.395	0.83000	24.028	2.3821	0.62446	17	0.15	022.43	0
022	Copper (mg / kg (ppm))	0010	24.500	1.0000	24.028	2.3821	0.62446	17	0.20	022.33	0
022	Copper (mg / kg (ppm))	0042	24.750	0.90000	24.028	2.3821	0.62446	17	0.30	022.42	0
022	Copper (mg / kg (ppm))	0563	25.000	0.20000	24.028	2.3821	0.62446	17	0.41	022.31	0
022	Copper (mg / kg (ppm))	0553	25.350	1.9000	24.028	2.3821	0.62446	17	0.55	022.53	0
022	Copper (mg / kg (ppm))	0226	26.000	0.00000	24.028	2.3821	0.62446	17	0.83	022.41	0
022	Copper (mg / kg (ppm))	0202	28.000	0.00000	24.028	2.3821	0.62446	17	1.67	022.42	0
022	Copper (mg / kg (ppm))	2033	48.100	0.00000	24.028	2.3821	0.62446	17	10.11	022.43	0
022	Copper (mg / kg (ppm))	0168	25.410	3.4200	24.028	2.3821	0.62446	17	0.58	022.43	1
023	Fluorine (mg / kg (ppm))	0619	35.300	1.8000	40.300	3.6960	1.2750		-1.35	023.01	0
023	Fluorine (mg / kg (ppm))	0208	39.950	1.9000	40.300	3.6960	1.2750		-0.09	023.01	0
023	Fluorine (mg / kg (ppm))	2033	43.100	0.00000	40.300	3.6960	1.2750		0.76	023.01	0
023	Fluorine (mg / kg (ppm))	0563	60.600	1.4000	40.300	3.6960	1.2750		5.49	023.01	0
024	Iodine (mg / kg (ppm))	0208	4.8850	0.89000			0.44500	2		024.99	0
024	Iodine (mg / kg (ppm))	2033	65.300	0.00000			0.44500	2		024.53	0
034	Selenium (mg / kg (ppm))	2033	2.6000	0.00000	4.0825	0.52846	0.39082	13	-2.81	034.53	0
034	Selenium (mg / kg (ppm))	0644	2.9150	0.01000	4.0825	0.52846	0.39082	13	-2.21	034.53	0
034	Selenium (mg / kg (ppm))	0563	3.4360	0.16900	4.0825	0.52846	0.39082	13	-1.22	034.04	0
034	Selenium (mg / kg (ppm))	0033	3.8050	0.13000	4.0825	0.52846	0.39082	13	-0.53	034.53	0
034	Selenium (mg / kg (ppm))	0278	4.0180	0.29200	4.0825	0.52846	0.39082	13	-0.12	034.43	0
034	Selenium (mg / kg (ppm))	0553	4.0500	0.54000	4.0825	0.52846	0.39082	13	-0.06	034.53	0
034	Selenium (mg / kg (ppm))	0047	4.1800	0.14000	4.0825	0.52846	0.39082	13	0.18	034.52	0
034	Selenium (mg / kg (ppm))	0619	4.3950	0.27000	4.0825	0.52846	0.39082	13	0.59	034.43	0
034	Selenium (mg / kg (ppm))	0208	4.4550	0.17000	4.0825	0.52846	0.39082	13	0.70	034.04	0
034	Selenium (mg / kg (ppm))	0010	4.5000	1.0000	4.0825	0.52846	0.39082	13	0.79	034.53	0
034	Selenium (mg / kg (ppm))	0098	4.5215	0.74500	4.0825	0.52846	0.39082	13	0.83	034.53	0
034	Selenium (mg / kg (ppm))	0918	4.5365	0.18070	4.0825	0.52846	0.39082	13	0.86	034.43	0
034	Selenium (mg / kg (ppm))	0168	8.3160	1.4340	4.0825	0.52846	0.39082	13	8.01	034.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
036	Sulfur (%)	0168	0.34110	0.00180	0.38356	0.01772	0.00607	9	-2.40	036.04	0
036	Sulfur (%)	0227	0.34500	0.00000	0.38356	0.01772	0.00607	9	-2.18	036.42	0
036	Sulfur (%)	0918	0.36850	0.00700	0.38356	0.01772	0.00607	9	-0.85	036.43	0
036	Sulfur (%)	0010	0.37500	0.01000	0.38356	0.01772	0.00607	9	-0.48	036.43	0
036	Sulfur (%)	0407	0.38940	0.00180	0.38356	0.01772	0.00607	9	0.33	036.42	0
036	Sulfur (%)	0098	0.39300	0.01400	0.38356	0.01772	0.00607	9	0.53	036.43	0
036	Sulfur (%)	0202	0.40500	0.01000	0.38356	0.01772	0.00607	9	1.21	036.42	0
036	Sulfur (%)	0510	0.41000	0.00000	0.38356	0.01772	0.00607	9	1.49	036.43	0
036	Sulfur (%)	0226	0.42500	0.01000	0.38356	0.01772	0.00607	9	2.34	036.04	0
036	Sulfur (%)	0208	0.35050	0.07900	0.38356	0.01772	0.00607	9	-1.87	036.00	1
038	Molybdenum (mg / kg (ppm))	0563	27.235	0.12000	41.610	3.7978	1.5213	14	-3.79	038.34	0
038	Molybdenum (mg / kg (ppm))	0047	37.900	1.6000	41.610	3.7978	1.5213	14	-0.98	038.52	0
038	Molybdenum (mg / kg (ppm))	0208	38.900	2.6000	41.610	3.7978	1.5213	14	-0.71	038.41	0
038	Molybdenum (mg / kg (ppm))	0027	39.395	1.2500	41.610	3.7978	1.5213	14	-0.58	038.43	0
038	Molybdenum (mg / kg (ppm))	0510	39.500	1.0000	41.610	3.7978	1.5213	14	-0.56	038.43	0
038	Molybdenum (mg / kg (ppm))	0226	40.975	1.4900	41.610	3.7978	1.5213	14	-0.17	038.41	0
038	Molybdenum (mg / kg (ppm))	0407	41.362	3.1962	41.610	3.7978	1.5213	14	-0.07	038.41	0
038	Molybdenum (mg / kg (ppm))	0553	41.400	4.6000	41.610	3.7978	1.5213	14	-0.06	038.53	0
038	Molybdenum (mg / kg (ppm))	0098	42.585	0.21000	41.610	3.7978	1.5213	14	0.26	038.53	0
038	Molybdenum (mg / kg (ppm))	0010	42.800	0.20000	41.610	3.7978	1.5213	14	0.31	038.53	0
038	Molybdenum (mg / kg (ppm))	2033	43.600	0.00000	41.610	3.7978	1.5213	14	0.52	038.43	0
038	Molybdenum (mg / kg (ppm))	0918	44.945	2.9315	41.610	3.7978	1.5213	14	0.88	038.53	0
038	Molybdenum (mg / kg (ppm))	0168	46.010	2.0000	41.610	3.7978	1.5213	14	1.16	038.43	0
038	Molybdenum (mg / kg (ppm))	0033	46.750	0.10000	41.610	3.7978	1.5213	14	1.35	038.53	0
038	Molybdenum (mg / kg (ppm))	0042	36.550	7.7000	41.610	3.7978	1.5213	14	-1.33	038.42	1
041	Vanadium (mg / kg (ppm))	0098	0.41350	0.04300	0.66600	0.11326	0.01400		-2.23	041.43	0
041	Vanadium (mg / kg (ppm))	0047	0.42000	0.00000	0.66600	0.11326	0.01400		-2.17	041.52	0
041	Vanadium (mg / kg (ppm))	0553	0.44950	0.00700	0.66600	0.11326	0.01400		-1.91	041.53	0
041	Vanadium (mg / kg (ppm))	0278	0.71500	0.01000	0.66600	0.11326	0.01400		0.43	041.43	0
041	Vanadium (mg / kg (ppm))	0563	0.83500	0.01000	0.66600	0.11326	0.01400		1.49	041.34	0
041	Vanadium (mg / kg (ppm))	0619	0.00000	0.00000	0.66600	0.11326	0.01400		-5.88	041.41	4
516	Arsenic, total (mg / kg (ppm))	0619	0.03900	0.02800	1.0915	0.17232	0.08292	15	-6.11	516.43	0
516	Arsenic, total (mg / kg (ppm))	0425	0.31000	0.00000	1.0915	0.17232	0.08292	15	-4.54	516.34	0
516	Arsenic, total (mg / kg (ppm))	2033	0.91000	0.00000	1.0915	0.17232	0.08292	15	-1.05	516.53	0
516	Arsenic, total (mg / kg (ppm))	0278	0.91335	0.04990	1.0915	0.17232	0.08292	15	-1.03	516.43	0
516	Arsenic, total (mg / kg (ppm))	0553	1.0490	0.14200	1.0915	0.17232	0.08292	15	-0.25	516.53	0
516	Arsenic, total (mg / kg (ppm))	0227	1.0550	0.01000	1.0915	0.17232	0.08292	15	-0.21	516.53	0
516	Arsenic, total (mg / kg (ppm))	0033	1.0600	0.06000	1.0915	0.17232	0.08292	15	-0.18	516.53	0
516	Arsenic, total (mg / kg (ppm))	0644	1.0650	0.13000	1.0915	0.17232	0.08292	15	-0.15	516.53	0
516	Arsenic, total (mg / kg (ppm))	0208	1.1000	0.04000	1.0915	0.17232	0.08292	15	0.05	516.52	0
516	Arsenic, total (mg / kg (ppm))	0010	1.1500	0.10000	1.0915	0.17232	0.08292	15	0.34	516.53	0
516	Arsenic, total (mg / kg (ppm))	0047	1.1600	0.10000	1.0915	0.17232	0.08292	15	0.40	516.52	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
516	Arsenic, total (mg / kg (ppm))	0918	1.2519	0.04490	1.0915	0.17232	0.08292	15	0.93	516.53	0
516	Arsenic, total (mg / kg (ppm))	0563	1.3871	0.05900	1.0915	0.17232	0.08292	15	1.72	516.00	0
516	Arsenic, total (mg / kg (ppm))	0168	1.4045	0.12500	1.0915	0.17232	0.08292	15	1.82	516.43	0
516	Arsenic, total (mg / kg (ppm))	0098	1.4515	0.35500	1.0915	0.17232	0.08292	15	2.09	516.53	0
516	Arsenic, total (mg / kg (ppm))	0596	49.880	6.6200	1.0915	0.17232	0.08292	15	283.13	516.34	2
518	Cadmium (mg / kg (ppm))	0619	6.1800	0.30000	9.0463	1.0388	0.40883	18	-2.76	518.41	0
518	Cadmium (mg / kg (ppm))	0278	6.6157	0.37340	9.0463	1.0388	0.40883	18	-2.34	518.43	0
518	Cadmium (mg / kg (ppm))	2033	6.7200	0.00000	9.0463	1.0388	0.40883	18	-2.24	518.53	0
518	Cadmium (mg / kg (ppm))	0407	8.0118	0.49480	9.0463	1.0388	0.40883	18	-1.00	518.41	0
518	Cadmium (mg / kg (ppm))	0042	8.3250	0.25000	9.0463	1.0388	0.40883	18	-0.69	518.42	0
518	Cadmium (mg / kg (ppm))	0047	8.7150	0.09000	9.0463	1.0388	0.40883	18	-0.32	518.52	0
518	Cadmium (mg / kg (ppm))	0208	8.8900	0.22000	9.0463	1.0388	0.40883	18	-0.15	518.52	0
518	Cadmium (mg / kg (ppm))	0098	9.0700	0.04000	9.0463	1.0388	0.40883	18	0.02	518.53	0
518	Cadmium (mg / kg (ppm))	0227	9.0800	0.26000	9.0463	1.0388	0.40883	18	0.03	518.53	0
518	Cadmium (mg / kg (ppm))	0918	9.3649	0.08280	9.0463	1.0388	0.40883	18	0.31	518.43	0
518	Cadmium (mg / kg (ppm))	0010	9.6500	1.5000	9.0463	1.0388	0.40883	18	0.58	518.53	0
518	Cadmium (mg / kg (ppm))	0644	9.7950	0.99000	9.0463	1.0388	0.40883	18	0.72	518.53	0
518	Cadmium (mg / kg (ppm))	0033	9.8550	0.69000	9.0463	1.0388	0.40883	18	0.78	518.53	0
518	Cadmium (mg / kg (ppm))	0425	9.9150	0.01000	9.0463	1.0388	0.40883	18	0.84	518.43	0
518	Cadmium (mg / kg (ppm))	0027	9.9450	0.35000	9.0463	1.0388	0.40883	18	0.87	518.43	0
518	Cadmium (mg / kg (ppm))	0563	9.9785	1.0390	9.0463	1.0388	0.40883	18	0.90	518.31	0
518	Cadmium (mg / kg (ppm))	0553	9.9900	0.62000	9.0463	1.0388	0.40883	18	0.91	518.53	0
518	Cadmium (mg / kg (ppm))	0168	9.9955	0.04900	9.0463	1.0388	0.40883	18	0.91	518.53	0
518	Cadmium (mg / kg (ppm))	0596	43.100	0.40000	9.0463	1.0388	0.40883	18	32.78	518.34	2
520	Chromium (mg / kg (ppm))	0047	1.3450	0.17000	2.7870	0.38210	0.34819	17	-3.77	520.52	0
520	Chromium (mg / kg (ppm))	2058	1.6700	0.06000	2.7870	0.38210	0.34819	17	-2.92	520.53	0
520	Chromium (mg / kg (ppm))	2033	1.8000	0.00000	2.7870	0.38210	0.34819	17	-2.58	520.43	0
520	Chromium (mg / kg (ppm))	0619	1.9050	0.05000	2.7870	0.38210	0.34819	17	-2.31	520.41	0
520	Chromium (mg / kg (ppm))	0918	1.9880	0.45200	2.7870	0.38210	0.34819	17	-2.09	520.53	0
520	Chromium (mg / kg (ppm))	0563	2.1942	0.27220	2.7870	0.38210	0.34819	17	-1.55	520.31	0
520	Chromium (mg / kg (ppm))	0553	2.8650	0.21000	2.7870	0.38210	0.34819	17	0.20	520.53	0
520	Chromium (mg / kg (ppm))	0098	2.8950	0.59000	2.7870	0.38210	0.34819	17	0.28	520.43	0
520	Chromium (mg / kg (ppm))	0278	2.9500	0.10000	2.7870	0.38210	0.34819	17	0.43	520.43	0
520	Chromium (mg / kg (ppm))	0027	2.9850	0.17000	2.7870	0.38210	0.34819	17	0.52	520.43	0
520	Chromium (mg / kg (ppm))	0510	3.1200	0.00000	2.7870	0.38210	0.34819	17	0.87	520.43	0
520	Chromium (mg / kg (ppm))	0033	3.3050	0.21000	2.7870	0.38210	0.34819	17	1.36	520.53	0
520	Chromium (mg / kg (ppm))	0208	3.4000	1.3600	2.7870	0.38210	0.34819	17	1.60	520.41	0
520	Chromium (mg / kg (ppm))	0644	3.5100	0.22000	2.7870	0.38210	0.34819	17	1.89	520.53	0
520	Chromium (mg / kg (ppm))	0168	3.5235	0.34500	2.7870	0.38210	0.34819	17	1.93	520.53	0
520	Chromium (mg / kg (ppm))	0042	3.6950	0.71000	2.7870	0.38210	0.34819	17	2.38	520.42	0
520	Chromium (mg / kg (ppm))	0010	5.5000	1.0000	2.7870	0.38210	0.34819	17	7.10	520.53	0
526	Lead (mg / kg (ppm))	0596	0.96500	0.11000	87.600	7.1480	3.1658	18	-12.12	526.34	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
526	Lead (mg / kg (ppm))	0278	56.231	0.37810	87.600	7.1480	3.1658	18	-4.39	526.43	0
526	Lead (mg / kg (ppm))	0619	69.250	1.5000	87.600	7.1480	3.1658	18	-2.57	526.41	0
526	Lead (mg / kg (ppm))	0042	78.850	6.7000	87.600	7.1480	3.1658	18	-1.22	526.42	0
526	Lead (mg / kg (ppm))	0407	79.789	3.5309	87.600	7.1480	3.1658	18	-1.09	526.41	0
526	Lead (mg / kg (ppm))	0047	80.500	0.80000	87.600	7.1480	3.1658	18	-0.99	526.52	0
526	Lead (mg / kg (ppm))	0553	89.400	7.2000	87.600	7.1480	3.1658	18	0.25	526.53	0
526	Lead (mg / kg (ppm))	0563	89.405	0.67980	87.600	7.1480	3.1658	18	0.25	526.31	0
526	Lead (mg / kg (ppm))	0227	90.350	6.7000	87.600	7.1480	3.1658	18	0.38	526.53	0
526	Lead (mg / kg (ppm))	0098	90.950	4.1000	87.600	7.1480	3.1658	18	0.47	526.53	0
526	Lead (mg / kg (ppm))	0208	91.400	4.6000	87.600	7.1480	3.1658	18	0.53	526.52	0
526	Lead (mg / kg (ppm))	0010	91.600	2.6000	87.600	7.1480	3.1658	18	0.56	526.53	0
526	Lead (mg / kg (ppm))	0033	93.450	2.5000	87.600	7.1480	3.1658	18	0.82	526.53	0
526	Lead (mg / kg (ppm))	0027	94.615	1.8700	87.600	7.1480	3.1658	18	0.98	526.43	0
526	Lead (mg / kg (ppm))	0918	95.672	5.3149	87.600	7.1480	3.1658	18	1.13	526.53	0
526	Lead (mg / kg (ppm))	0425	96.050	1.5600	87.600	7.1480	3.1658	18	1.18	526.34	0
526	Lead (mg / kg (ppm))	0644	101.24	6.8400	87.600	7.1480	3.1658	18	1.91	526.53	0
526	Lead (mg / kg (ppm))	2033	135.00	0.00000	87.600	7.1480	3.1658	18	6.63	526.53	0
526	Lead (mg / kg (ppm))	0168	288.35	29.300	87.600	7.1480	3.1658	18	28.08	526.53	1
529	Mercury (µg / kg (ppb))	0047	1.1400	0.04000	1,461.4	220.80	110.42	13	-6.61	529.99	0
529	Mercury (µg / kg (ppb))	0168	1.8640	0.32200	1,461.4	220.80	110.42	13	-6.61	529.99	0
529	Mercury (µg / kg (ppb))	0563	189.57	3.2860	1,461.4	220.80	110.42	13	-5.76	529.99	0
529	Mercury (µg / kg (ppb))	2033	1,180.0	0.00000	1,461.4	220.80	110.42	13	-1.27	529.99	0
529	Mercury (µg / kg (ppb))	0644	1,525.0	10.000	1,461.4	220.80	110.42	13	0.29	529.99	0
529	Mercury (µg / kg (ppb))	0098	1,610.0	100.00	1,461.4	220.80	110.42	13	0.67	529.00	0
529	Mercury (µg / kg (ppb))	0034	1,611.1	29.400	1,461.4	220.80	110.42	13	0.68	529.99	0
529	Mercury (µg / kg (ppb))	0227	1,650.0	60.000	1,461.4	220.80	110.42	13	0.85	529.99	0
529	Mercury (µg / kg (ppb))	0033	1,812.0	458.00	1,461.4	220.80	110.42	13	1.59	529.99	0
529	Mercury (µg / kg (ppb))	0208	1,815.0	230.00	1,461.4	220.80	110.42	13	1.60	529.99	0
529	Mercury (µg / kg (ppb))	0010	1,868.0	296.00	1,461.4	220.80	110.42	13	1.84	529.99	0
529	Mercury (µg / kg (ppb))	0425	2,740.0	60.000	1,461.4	220.80	110.42	13	5.79	529.00	0
529	Mercury (µg / kg (ppb))	0918	2,994.7	188.38	1,461.4	220.80	110.42	13	6.94	529.99	0
539	Nickel (mg / kg (ppm))	0098	2.0300	0.34000	2.5988	0.36006	0.20938	13	-1.58	539.53	0
539	Nickel (mg / kg (ppm))	2033	2.0500	0.00000	2.5988	0.36006	0.20938	13	-1.52	539.43	0
539	Nickel (mg / kg (ppm))	0278	2.0550	0.03000	2.5988	0.36006	0.20938	13	-1.51	539.43	0
539	Nickel (mg / kg (ppm))	0425	2.1300	0.00000	2.5988	0.36006	0.20938	13	-1.30	539.43	0
539	Nickel (mg / kg (ppm))	0047	2.1350	0.09000	2.5988	0.36006	0.20938	13	-1.29	539.52	0
539	Nickel (mg / kg (ppm))	0918	2.3860	0.14940	2.5988	0.36006	0.20938	13	-0.59	539.53	0
539	Nickel (mg / kg (ppm))	0407	2.4598	0.01950	2.5988	0.36006	0.20938	13	-0.39	539.41	0
539	Nickel (mg / kg (ppm))	0042	2.4700	0.54000	2.5988	0.36006	0.20938	13	-0.36	539.42	0
539	Nickel (mg / kg (ppm))	0553	2.9500	0.50000	2.5988	0.36006	0.20938	13	0.98	539.53	0
539	Nickel (mg / kg (ppm))	0644	2.9750	0.17000	2.5988	0.36006	0.20938	13	1.04	539.53	0
539	Nickel (mg / kg (ppm))	0027	3.0800	0.66000	2.5988	0.36006	0.20938	13	1.34	539.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Labs			
539	Nickel (mg / kg (ppm))	0168	3.5235	0.22300	2.5988	0.36006	0.20938	13	2.57	539.53	0
539	Nickel (mg / kg (ppm))	0010	4.3000	0.00000	2.5988	0.36006	0.20938	13	4.72	539.53	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. Values in bold blue are calculated from the original sample and known spike. Z-scores are assessed against this value.