



AAFCO
Association of American Feed Control Officials



Minerals Scheme

Swine Finisher

Test Material Code # 202551

Analyte Proficiency Testing Report

Labs Reporting: 36

Analytes Reported 17

Issue Date : 04/30/2025

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests			
015	Aluminum (ppm)	2292	339.0	2.000	476.6	30.14	10.40	17	-4.56	015.99	0
015	Aluminum (ppm)	0407	419.3	1.246	476.6	30.14	10.40	17	-1.90	015.43	0
015	Aluminum (ppm)	0407	420.0	5.654	476.6	30.14	10.40	17	-1.88	015.41	0
015	Aluminum (ppm)	0511	428.0	10.00	476.6	30.14	10.40	17	-1.61	015.43	0
015	Aluminum (ppm)	0186	455.4	0.4900	476.6	30.14	10.40	17	-0.70	015.52	0
015	Aluminum (ppm)	0510	455.5	1.000	476.6	30.14	10.40	17	-0.70	015.43	0
015	Aluminum (ppm)	0160	469.5	13.00	476.6	30.14	10.40	17	-0.23	015.42	0
015	Aluminum (ppm)	0148	471.7	20.47	476.6	30.14	10.40	17	-0.16	015.43	0
015	Aluminum (ppm)	2468	484.5	5.480	476.6	30.14	10.40	17	0.26	015.52	0
015	Aluminum (ppm)	0227	487.0	18.00	476.6	30.14	10.40	17	0.35	015.43	0
015	Aluminum (ppm)	0407	488.1	24.09	476.6	30.14	10.40	17	0.38	015.53	0
015	Aluminum (ppm)	0870	496.1	27.75	476.6	30.14	10.40	17	0.65	015.43	0
015	Aluminum (ppm)	0098	500.7	13.50	476.6	30.14	10.40	17	0.80	015.43	0
015	Aluminum (ppm)	0964	509.0	6.000	476.6	30.14	10.40	17	1.08	015.43	0
015	Aluminum (ppm)	0553	514.0	2.000	476.6	30.14	10.40	17	1.24	015.53	0
015	Aluminum (ppm)	0042	566.0	28.00	476.6	30.14	10.40	17	2.97	015.42	0
015	Aluminum (ppm)	0918	737.4	0.4400	476.6	30.14	10.40	17	8.66	015.53	0
017	Boron (ppm)	0047	16.76	0.0600	18.71	1.926	0.6091	10	-1.01	017.52	0
017	Boron (ppm)	0407	17.38	0.0418	18.71	1.926	0.6091	10	-0.69	017.43	0
017	Boron (ppm)	0407	17.76	0.2036	18.71	1.926	0.6091	10	-0.49	017.41	0
017	Boron (ppm)	0407	18.06	1.057	18.71	1.926	0.6091	10	-0.34	017.53	0
017	Boron (ppm)	0918	18.58	0.2700	18.71	1.926	0.6091	10	-0.07	017.43	0
017	Boron (ppm)	0160	18.85	0.5000	18.71	1.926	0.6091	10	0.07	017.42	0
017	Boron (ppm)	0510	19.00	0.0000	18.71	1.926	0.6091	10	0.15	017.43	0
017	Boron (ppm)	0098	19.71	0.7400	18.71	1.926	0.6091	10	0.52	017.43	0
017	Boron (ppm)	0870	20.12	1.209	18.71	1.926	0.6091	10	0.73	017.43	0
017	Boron (ppm)	0553	21.70	1.400	18.71	1.926	0.6091	10	1.55	017.53	0
017	Boron (ppm)	2468	< 105		18.71	1.926	0.6091	10		017.52	5
021	Cobalt (ppm)	0511	16.00	2.000	18.61	1.918	0.9676	24	-1.36	021.43	0
021	Cobalt (ppm)	0563	16.23	0.6330	18.61	1.918	0.9676	24	-1.24	021.31	0
021	Cobalt (ppm)	0407	16.68	0.8411	18.61	1.918	0.9676	24	-1.01	021.43	0
021	Cobalt (ppm)	2433	16.90	0.6570	18.61	1.918	0.9676	24	-0.90	021.42	0
021	Cobalt (ppm)	0407	17.03	0.1666	18.61	1.918	0.9676	24	-0.83	021.41	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests			
021	Cobalt (ppm)	0160	17.20	2.400	18.61	1.918	0.9676	24	-0.74	021.42	0
021	Cobalt (ppm)	2404	17.47	0.1800	18.61	1.918	0.9676	24	-0.60	021.43	0
021	Cobalt (ppm)	0186	17.87	0.9400	18.61	1.918	0.9676	24	-0.39	021.52	0
021	Cobalt (ppm)	0354	18.05	0.6240	18.61	1.918	0.9676	24	-0.30	021.43	0
021	Cobalt (ppm)	0227	18.50	1.000	18.61	1.918	0.9676	24	-0.06	021.43	0
021	Cobalt (ppm)	0098	18.53	0.3400	18.61	1.918	0.9676	24	-0.04	021.53	0
021	Cobalt (ppm)	0278	18.56	0.6170	18.61	1.918	0.9676	24	-0.03	021.43	0
021	Cobalt (ppm)	0510	18.72	0.2300	18.61	1.918	0.9676	24	0.05	021.43	0
021	Cobalt (ppm)	2141	18.76	0.3660	18.61	1.918	0.9676	24	0.08	021.43	0
021	Cobalt (ppm)	2404	18.95	0.4500	18.61	1.918	0.9676	24	0.17	021.53	0
021	Cobalt (ppm)	0033	19.40	0.0000	18.61	1.918	0.9676	24	0.41	021.53	0
021	Cobalt (ppm)	0407	19.74	1.073	18.61	1.918	0.9676	24	0.59	021.53	0
021	Cobalt (ppm)	0870	19.86	0.0062	18.61	1.918	0.9676	24	0.65	021.43	0
021	Cobalt (ppm)	0148	19.93	0.0200	18.61	1.918	0.9676	24	0.69	021.43	0
021	Cobalt (ppm)	2113	20.00	4.000	18.61	1.918	0.9676	24	0.72	021.52	0
021	Cobalt (ppm)	0918	20.08	1.290	18.61	1.918	0.9676	24	0.76	021.53	0
021	Cobalt (ppm)	0553	20.40	5.000	18.61	1.918	0.9676	24	0.93	021.53	0
021	Cobalt (ppm)	0042	20.65	4.300	18.61	1.918	0.9676	24	1.06	021.42	0
021	Cobalt (ppm)	0047	21.44	1.530	18.61	1.918	0.9676	24	1.47	021.52	0
021	Cobalt (ppm)	2468	26.26	10.78	18.61	1.918	0.9676	24	3.99	021.52	1
022	Copper (ppm)	0511	15.50	1.000	19.27	1.975	1.245	29	-1.91	022.43	0
022	Copper (ppm)	0918	16.88	0.1100	19.27	1.975	1.245	29	-1.21	022.43	0
022	Copper (ppm)	0870	17.15	0.6174	19.27	1.975	1.245	29	-1.07	022.43	0
022	Copper (ppm)	0278	17.20	0.2000	19.27	1.975	1.245	29	-1.05	022.42	0
022	Copper (ppm)	0407	17.33	1.360	19.27	1.975	1.245	29	-0.98	022.43	0
022	Copper (ppm)	2113	17.50	3.000	19.27	1.975	1.245	29	-0.89	022.52	0
022	Copper (ppm)	0563	17.85	0.4183	19.27	1.975	1.245	29	-0.72	022.31	0
022	Copper (ppm)	0407	17.98	0.6032	19.27	1.975	1.245	29	-0.65	022.41	0
022	Copper (ppm)	0227	18.00	0.0000	19.27	1.975	1.245	29	-0.64	022.43	0
022	Copper (ppm)	0148	18.32	2.204	19.27	1.975	1.245	29	-0.48	022.43	0
022	Copper (ppm)	0098	18.48	1.500	19.27	1.975	1.245	29	-0.40	022.53	0
022	Copper (ppm)	0208	18.69	0.6600	19.27	1.975	1.245	29	-0.29	022.41	0
022	Copper (ppm)	0017	18.92	0.5580	19.27	1.975	1.245	29	-0.18	022.43	0
022	Copper (ppm)	0553	18.95	1.300	19.27	1.975	1.245	29	-0.16	022.53	0
022	Copper (ppm)	0510	19.00	0.0000	19.27	1.975	1.245	29	-0.13	022.43	0
022	Copper (ppm)	2141	19.44	1.510	19.27	1.975	1.245	29	0.09	022.43	0
022	Copper (ppm)	0047	19.94	0.5300	19.27	1.975	1.245	29	0.34	022.52	0
022	Copper (ppm)	2404	19.98	1.440	19.27	1.975	1.245	29	0.36	022.53	0
022	Copper (ppm)	0504	20.15	1.500	19.27	1.975	1.245	29	0.45	022.42	0
022	Copper (ppm)	0407	20.15	2.760	19.27	1.975	1.245	29	0.45	022.53	0
022	Copper (ppm)	2404	20.36	0.5100	19.27	1.975	1.245	29	0.55	022.43	0
022	Copper (ppm)	0006	20.37	1.670	19.27	1.975	1.245	29	0.56	022.53	0

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022	Copper (ppm)	0042	20.60	2.000	19.27	1.975	1.245	29	0.68	022.42	0
022	Copper (ppm)	0186	20.97	1.870	19.27	1.975	1.245	29	0.86	022.52	0
022	Copper (ppm)	2292	21.00	2.000	19.27	1.975	1.245	29	0.88	022.99	0
022	Copper (ppm)	0010	21.40	1.600	19.27	1.975	1.245	29	1.08	022.43	0
022	Copper (ppm)	2468	21.57	0.8800	19.27	1.975	1.245	29	1.17	022.42	0
022	Copper (ppm)	0009	22.60	2.200	19.27	1.975	1.245	29	1.69	022.52	0
022	Copper (ppm)	2302	24.90	0.4320	19.27	1.975	1.245	29	2.85	022.99	0
023	Fluorine (ppm)	0227	110.0	20.00				1		023.01	0
024	Iodine (ppm)	0208	0.6080	0.1860				3		024.99	0
024	Iodine (ppm)	0186	1.840	0.3400				3		024.52	0
024	Iodine (ppm)	2468	4.000	4.000				3		024.52	0
034	Selenium, Total (Se) (ppm)	0563	0.3511	0.0166	0.5536	0.0968	0.0472	20	-2.09	034.04	0
034	Selenium, Total (Se) (ppm)	0186	0.3853	0.0475	0.5536	0.0968	0.0472	20	-1.74	034.52	0
034	Selenium, Total (Se) (ppm)	0208	0.4010	0.0800	0.5536	0.0968	0.0472	20	-1.58	034.52	0
034	Selenium, Total (Se) (ppm)	0553	0.4310	0.0240	0.5536	0.0968	0.0472	20	-1.27	034.53	0
034	Selenium, Total (Se) (ppm)	0278	0.4450	0.0100	0.5536	0.0968	0.0472	20	-1.12	034.53	0
034	Selenium, Total (Se) (ppm)	0227	0.4460	0.0560	0.5536	0.0968	0.0472	20	-1.11	034.53	0
034	Selenium, Total (Se) (ppm)	0148	0.4480	0.0240	0.5536	0.0968	0.0472	20	-1.09	034.42	0
034	Selenium, Total (Se) (ppm)	0098	0.4550	0.0240	0.5536	0.0968	0.0472	20	-1.02	034.53	0
034	Selenium, Total (Se) (ppm)	0033	0.4575	0.0110	0.5536	0.0968	0.0472	20	-0.99	034.53	0
034	Selenium, Total (Se) (ppm)	0009	0.4631	0.0135	0.5536	0.0968	0.0472	20	-0.94	034.53	0
034	Selenium, Total (Se) (ppm)	0047	0.4950	0.0100	0.5536	0.0968	0.0472	20	-0.61	034.52	0
034	Selenium, Total (Se) (ppm)	0010	0.5400	0.0600	0.5536	0.0968	0.0472	20	-0.14	034.53	0
034	Selenium, Total (Se) (ppm)	2404	0.5625	0.1110	0.5536	0.0968	0.0472	20	0.09	034.53	0
034	Selenium, Total (Se) (ppm)	0870	0.5630	0.0260	0.5536	0.0968	0.0472	20	0.10	034.43	0
034	Selenium, Total (Se) (ppm)	0918	0.6340	0.0520	0.5536	0.0968	0.0472	20	0.83	034.53	0
034	Selenium, Total (Se) (ppm)	0407	0.6779	0.0114	0.5536	0.0968	0.0472	20	1.28	034.53	0
034	Selenium, Total (Se) (ppm)	2404	0.8350	0.1900	0.5536	0.0968	0.0472	20	2.91	034.43	0
034	Selenium, Total (Se) (ppm)	2445	1.012	0.1220	0.5536	0.0968	0.0472	20	4.73	034.43	0
034	Selenium, Total (Se) (ppm)	2433	1.099	0.0290	0.5536	0.0968	0.0472	20	5.63	034.42	0
034	Selenium, Total (Se) (ppm)	0964	1.615	0.1900	0.5536	0.0968	0.0472	20	10.96	034.53	0
034	Selenium, Total (Se) (ppm)	2468	< 0.5		0.5536	0.0968	0.0472	20		034.52	5
034	Selenium, Total (Se) (ppm)	2141	< 5		0.5536	0.0968	0.0472	20		034.43	5
034	Selenium, Total (Se) (ppm)	0160	< 10		0.5536	0.0968	0.0472	20		034.42	5
036	Sulfur (%)	2141	0.3806	0.0087	0.4341	0.0197	0.0111	16	-2.72	036.43	0
036	Sulfur (%)	2292	0.4010	0.0020	0.4341	0.0197	0.0111	16	-1.68	036.99	0
036	Sulfur (%)	0186	0.4037	0.0076	0.4341	0.0197	0.0111	16	-1.54	036.52	0
036	Sulfur (%)	0407	0.4045	0.0084	0.4341	0.0197	0.0111	16	-1.50	036.43	0
036	Sulfur (%)	0407	0.4172	0.0323	0.4341	0.0197	0.0111	16	-0.86	036.42	0
036	Sulfur (%)	0918	0.4325	0.0070	0.4341	0.0197	0.0111	16	-0.08	036.43	0
036	Sulfur (%)	0278	0.4350	0.0100	0.4341	0.0197	0.0111	16	0.05	036.42	0
036	Sulfur (%)	0510	0.4400	0.0000	0.4341	0.0197	0.0111	16	0.30	036.43	0

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036	Sulfur (%)	0043	0.4405	0.0030	0.4341	0.0197	0.0111	16	0.33	036.53	0
036	Sulfur (%)	0964	0.4413	0.0309	0.4341	0.0197	0.0111	16	0.37	036.43	0
036	Sulfur (%)	0870	0.4442	0.0044	0.4341	0.0197	0.0111	16	0.52	036.42	0
036	Sulfur (%)	0553	0.4475	0.0170	0.4341	0.0197	0.0111	16	0.68	036.53	0
036	Sulfur (%)	0042	0.4505	0.0110	0.4341	0.0197	0.0111	16	0.84	036.42	0
036	Sulfur (%)	0227	0.4550	0.0100	0.4341	0.0197	0.0111	16	1.06	036.53	0
036	Sulfur (%)	0098	0.4640	0.0260	0.4341	0.0197	0.0111	16	1.52	036.43	0
036	Sulfur (%)	2468	0.4891	0.0008	0.4341	0.0197	0.0111	16	2.80	036.52	0
038	Molybdenum (ppm)	0407	0.6744	0.1064	1.400	0.2129	0.0653	19	-3.41	038.43	0
038	Molybdenum (ppm)	0407	0.9420	0.1719	1.400	0.2129	0.0653	19	-2.15	038.41	0
038	Molybdenum (ppm)	0160	1.200	0.0000	1.400	0.2129	0.0653	19	-0.94	038.42	0
038	Molybdenum (ppm)	0510	1.300	0.0000	1.400	0.2129	0.0653	19	-0.47	038.43	0
038	Molybdenum (ppm)	0186	1.325	0.0300	1.400	0.2129	0.0653	19	-0.35	038.52	0
038	Molybdenum (ppm)	0227	1.325	0.0300	1.400	0.2129	0.0653	19	-0.35	038.53	0
038	Molybdenum (ppm)	0278	1.340	0.0000	1.400	0.2129	0.0653	19	-0.28	038.42	0
038	Molybdenum (ppm)	0553	1.340	0.0000	1.400	0.2129	0.0653	19	-0.28	038.53	0
038	Molybdenum (ppm)	0407	1.397	0.0533	1.400	0.2129	0.0653	19	-0.01	038.53	0
038	Molybdenum (ppm)	2113	1.400	0.0000	1.400	0.2129	0.0653	19	0.00	038.52	0
038	Molybdenum (ppm)	0006	1.400	0.0800	1.400	0.2129	0.0653	19	0.00	038.53	0
038	Molybdenum (ppm)	0098	1.414	0.0190	1.400	0.2129	0.0653	19	0.06	038.53	0
038	Molybdenum (ppm)	0563	1.426	0.1190	1.400	0.2129	0.0653	19	0.12	038.34	0
038	Molybdenum (ppm)	0047	1.430	0.0200	1.400	0.2129	0.0653	19	0.14	038.52	0
038	Molybdenum (ppm)	0033	1.500	0.0800	1.400	0.2129	0.0653	19	0.47	038.53	0
038	Molybdenum (ppm)	0918	1.595	0.0300	1.400	0.2129	0.0653	19	0.92	038.53	0
038	Molybdenum (ppm)	0010	1.610	0.0400	1.400	0.2129	0.0653	19	0.99	038.53	0
038	Molybdenum (ppm)	0870	1.742	0.0129	1.400	0.2129	0.0653	19	1.61	038.43	0
038	Molybdenum (ppm)	0042	2.385	0.1500	1.400	0.2129	0.0653	19	4.63	038.42	0
038	Molybdenum (ppm)	0148	< 2.2		1.400	0.2129	0.0653	19		038.43	5
038	Molybdenum (ppm)	2468	< 2.43		1.400	0.2129	0.0653	19		038.52	5
038	Molybdenum (ppm)	2141	< 5		1.400	0.2129	0.0653	19		038.43	5
041	Vanadium (ppm)	0160	29.45	0.1000	32.28	3.061	1.238	9	-0.92	041.42	0
041	Vanadium (ppm)	0511	29.50	1.000	32.28	3.061	1.238	9	-0.91	041.43	0
041	Vanadium (ppm)	0563	31.14	3.015	32.28	3.061	1.238	9	-0.37	041.34	0
041	Vanadium (ppm)	0098	31.54	0.2700	32.28	3.061	1.238	9	-0.24	041.53	0
041	Vanadium (ppm)	0553	32.05	1.300	32.28	3.061	1.238	9	-0.08	041.53	0
041	Vanadium (ppm)	0870	33.65	0.6714	32.28	3.061	1.238	9	0.45	041.43	0
041	Vanadium (ppm)	2468	34.00	4.070	32.28	3.061	1.238	9	0.56	041.52	0
041	Vanadium (ppm)	0278	34.20	0.7400	32.28	3.061	1.238	9	0.63	041.43	0
041	Vanadium (ppm)	0407	35.00	0.9509	32.28	3.061	1.238	9	0.89	041.53	0
516	Arsenic, Total (As) (ppm)	2445	6.356	0.0050	9.247	1.058	0.3231	26	-2.73	516.43	0
516	Arsenic, Total (As) (ppm)	0148	6.957	0.0670	9.247	1.058	0.3231	26	-2.16	516.43	0
516	Arsenic, Total (As) (ppm)	0860	7.910	0.0600	9.247	1.058	0.3231	26	-1.26	516.43	0

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516	Arsenic, Total (As) (ppm)	0208	7.975	0.0900	9.247	1.058	0.3231	26	-1.20	516.52	0
516	Arsenic, Total (As) (ppm)	0043	8.350	0.1000	9.247	1.058	0.3231	26	-0.85	516.53	0
516	Arsenic, Total (As) (ppm)	0042	8.480	1.400	9.247	1.058	0.3231	26	-0.72	516.42	0
516	Arsenic, Total (As) (ppm)	0964	8.560	0.8200	9.247	1.058	0.3231	26	-0.65	516.43	0
516	Arsenic, Total (As) (ppm)	0186	8.565	0.0300	9.247	1.058	0.3231	26	-0.64	516.52	0
516	Arsenic, Total (As) (ppm)	0553	8.710	0.6000	9.247	1.058	0.3231	26	-0.51	516.53	0
516	Arsenic, Total (As) (ppm)	0723	8.900	0.0000	9.247	1.058	0.3231	26	-0.33	516.43	0
516	Arsenic, Total (As) (ppm)	0006	8.900	0.8000	9.247	1.058	0.3231	26	-0.33	516.53	0
516	Arsenic, Total (As) (ppm)	2141	9.075	0.3570	9.247	1.058	0.3231	26	-0.16	516.43	0
516	Arsenic, Total (As) (ppm)	0098	9.190	0.1170	9.247	1.058	0.3231	26	-0.05	516.53	0
516	Arsenic, Total (As) (ppm)	0033	9.210	0.2800	9.247	1.058	0.3231	26	-0.03	516.53	0
516	Arsenic, Total (As) (ppm)	2322	9.260	0.0001	9.247	1.058	0.3231	26	0.01	516.43	0
516	Arsenic, Total (As) (ppm)	2468	9.370	0.5400	9.247	1.058	0.3231	26	0.12	516.52	0
516	Arsenic, Total (As) (ppm)	2404	9.500	0.0800	9.247	1.058	0.3231	26	0.24	516.53	0
516	Arsenic, Total (As) (ppm)	0278	9.735	0.1100	9.247	1.058	0.3231	26	0.46	516.53	0
516	Arsenic, Total (As) (ppm)	2404	9.765	0.2900	9.247	1.058	0.3231	26	0.49	516.43	0
516	Arsenic, Total (As) (ppm)	0870	9.930	0.6510	9.247	1.058	0.3231	26	0.65	516.43	0
516	Arsenic, Total (As) (ppm)	0010	10.01	0.2300	9.247	1.058	0.3231	26	0.72	516.53	0
516	Arsenic, Total (As) (ppm)	0407	10.51	0.2036	9.247	1.058	0.3231	26	1.20	516.53	0
516	Arsenic, Total (As) (ppm)	0918	10.53	0.3500	9.247	1.058	0.3231	26	1.21	516.53	0
516	Arsenic, Total (As) (ppm)	2113	13.00	0.0000	9.247	1.058	0.3231	26	3.55	516.52	0
516	Arsenic, Total (As) (ppm)	0563	13.24	1.171	9.247	1.058	0.3231	26	3.77	516.00	0
516	Arsenic, Total (As) (ppm)	2292	15.00	0.0000	9.247	1.058	0.3231	26	5.44	516.99	0
516	Arsenic, Total (As) (ppm)	0227	10.87	2.070	9.247	1.058	0.3231	26	1.53	516.53	1
516	Arsenic, Total (As) (ppm)	0160	< 10		9.247	1.058	0.3231	26		516.42	5
518	Cadmium (ppm)	0407	4.576	0.1283	5.678	0.6994	0.1883	30	-1.58	518.41	0
518	Cadmium (ppm)	0407	4.602	0.0713	5.678	0.6994	0.1883	30	-1.54	518.43	0
518	Cadmium (ppm)	0563	4.738	0.1170	5.678	0.6994	0.1883	30	-1.34	518.31	0
518	Cadmium (ppm)	2322	4.755	0.0300	5.678	0.6994	0.1883	30	-1.32	518.43	0
518	Cadmium (ppm)	2433	5.223	0.0070	5.678	0.6994	0.1883	30	-0.65	518.42	0
518	Cadmium (ppm)	0043	5.350	0.3000	5.678	0.6994	0.1883	30	-0.47	518.53	0
518	Cadmium (ppm)	2404	5.365	0.0100	5.678	0.6994	0.1883	30	-0.45	518.43	0
518	Cadmium (ppm)	0160	5.400	0.2000	5.678	0.6994	0.1883	30	-0.40	518.42	0
518	Cadmium (ppm)	0723	5.413	0.0000	5.678	0.6994	0.1883	30	-0.38	518.43	0
518	Cadmium (ppm)	0098	5.505	0.1100	5.678	0.6994	0.1883	30	-0.25	518.53	0
518	Cadmium (ppm)	2141	5.510	0.2200	5.678	0.6994	0.1883	30	-0.24	518.43	0
518	Cadmium (ppm)	0208	5.565	0.0900	5.678	0.6994	0.1883	30	-0.16	518.52	0
518	Cadmium (ppm)	0186	5.605	0.2500	5.678	0.6994	0.1883	30	-0.10	518.52	0
518	Cadmium (ppm)	0006	5.720	0.4400	5.678	0.6994	0.1883	30	0.06	518.53	0
518	Cadmium (ppm)	0354	5.735	0.1230	5.678	0.6994	0.1883	30	0.08	518.43	0
518	Cadmium (ppm)	0033	5.735	0.2100	5.678	0.6994	0.1883	30	0.08	518.53	0
518	Cadmium (ppm)	0870	5.742	0.2961	5.678	0.6994	0.1883	30	0.09	518.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests			
518	Cadmium (ppm)	2404	5.770	0.1400	5.678	0.6994	0.1883	30	0.13	518.53	0
518	Cadmium (ppm)	0407	5.831	0.2811	5.678	0.6994	0.1883	30	0.22	518.53	0
518	Cadmium (ppm)	0553	5.845	0.2100	5.678	0.6994	0.1883	30	0.24	518.53	0
518	Cadmium (ppm)	0860	5.935	0.0500	5.678	0.6994	0.1883	30	0.37	518.43	0
518	Cadmium (ppm)	0148	5.940	0.5000	5.678	0.6994	0.1883	30	0.37	518.43	0
518	Cadmium (ppm)	2468	5.945	0.4500	5.678	0.6994	0.1883	30	0.38	518.52	0
518	Cadmium (ppm)	2445	5.963	0.1710	5.678	0.6994	0.1883	30	0.41	518.43	0
518	Cadmium (ppm)	0227	6.000	0.4400	5.678	0.6994	0.1883	30	0.46	518.53	0
518	Cadmium (ppm)	2113	6.150	0.1000	5.678	0.6994	0.1883	30	0.67	518.52	0
518	Cadmium (ppm)	0010	6.225	0.0500	5.678	0.6994	0.1883	30	0.78	518.53	0
518	Cadmium (ppm)	0278	6.245	0.1700	5.678	0.6994	0.1883	30	0.81	518.43	0
518	Cadmium (ppm)	0918	6.255	0.6100	5.678	0.6994	0.1883	30	0.82	518.53	0
518	Cadmium (ppm)	0042	6.520	0.0600	5.678	0.6994	0.1883	30	1.20	518.42	0
520	Chromium, Total (Cr) (ppm)	0047	1.095	0.0300	2.360	0.3317	0.0993	26	-3.81	520.52	0
520	Chromium, Total (Cr) (ppm)	0407	1.572	0.0185	2.360	0.3317	0.0993	26	-2.37	520.41	0
520	Chromium, Total (Cr) (ppm)	0227	1.725	0.1700	2.360	0.3317	0.0993	26	-1.91	520.53	0
520	Chromium, Total (Cr) (ppm)	0723	1.811	0.0000	2.360	0.3317	0.0993	26	-1.65	520.43	0
520	Chromium, Total (Cr) (ppm)	0407	1.831	0.0081	2.360	0.3317	0.0993	26	-1.59	520.43	0
520	Chromium, Total (Cr) (ppm)	2113	1.850	0.3000	2.360	0.3317	0.0993	26	-1.54	520.52	0
520	Chromium, Total (Cr) (ppm)	2292	2.000	0.0000	2.360	0.3317	0.0993	26	-1.08	520.99	0
520	Chromium, Total (Cr) (ppm)	2468	2.105	0.0100	2.360	0.3317	0.0993	26	-0.77	520.52	0
520	Chromium, Total (Cr) (ppm)	0042	2.200	0.2000	2.360	0.3317	0.0993	26	-0.48	520.42	0
520	Chromium, Total (Cr) (ppm)	0186	2.245	0.0100	2.360	0.3317	0.0993	26	-0.35	520.52	0
520	Chromium, Total (Cr) (ppm)	0407	2.343	0.1510	2.360	0.3317	0.0993	26	-0.05	520.53	0
520	Chromium, Total (Cr) (ppm)	0098	2.350	0.0800	2.360	0.3317	0.0993	26	-0.03	520.53	0
520	Chromium, Total (Cr) (ppm)	0553	2.360	0.1000	2.360	0.3317	0.0993	26	0.00	520.53	0
520	Chromium, Total (Cr) (ppm)	0033	2.415	0.0500	2.360	0.3317	0.0993	26	0.17	520.53	0
520	Chromium, Total (Cr) (ppm)	0354	2.467	0.3890	2.360	0.3317	0.0993	26	0.32	520.43	0
520	Chromium, Total (Cr) (ppm)	0010	2.475	0.0700	2.360	0.3317	0.0993	26	0.35	520.53	0
520	Chromium, Total (Cr) (ppm)	0006	2.525	0.0700	2.360	0.3317	0.0993	26	0.50	520.53	0
520	Chromium, Total (Cr) (ppm)	0148	2.530	0.0400	2.360	0.3317	0.0993	26	0.51	520.43	0
520	Chromium, Total (Cr) (ppm)	0160	2.540	0.1600	2.360	0.3317	0.0993	26	0.54	520.42	0
520	Chromium, Total (Cr) (ppm)	0510	2.540	0.0200	2.360	0.3317	0.0993	26	0.54	520.43	0
520	Chromium, Total (Cr) (ppm)	0870	2.590	0.1520	2.360	0.3317	0.0993	26	0.69	520.43	0
520	Chromium, Total (Cr) (ppm)	0278	2.765	0.1700	2.360	0.3317	0.0993	26	1.22	520.43	0
520	Chromium, Total (Cr) (ppm)	0918	3.075	0.2500	2.360	0.3317	0.0993	26	2.16	520.53	0
520	Chromium, Total (Cr) (ppm)	2445	3.333	0.1260	2.360	0.3317	0.0993	26	2.93	520.43	0
520	Chromium, Total (Cr) (ppm)	2322	4.385	0.0004	2.360	0.3317	0.0993	26	6.10	520.43	0
520	Chromium, Total (Cr) (ppm)	2404	4.724	0.0370	2.360	0.3317	0.0993	26	7.13	520.53	0
520	Chromium, Total (Cr) (ppm)	0563	< 5		2.360	0.3317	0.0993	26		520.31	5
520	Chromium, Total (Cr) (ppm)	2141	< 5		2.360	0.3317	0.0993	26		520.43	5
522	Hexavalent Chromium (Cr VI) (ppm)	2468	0.2071	0.3636				1		522.99	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests			
526	Lead (ppm)	0407	0.9401	0.0913	1.420	0.2154	0.1096	25	-2.23	526.43	0
526	Lead (ppm)	0723	1.067	0.0000	1.420	0.2154	0.1096	25	-1.64	526.43	0
526	Lead (ppm)	0407	1.113	0.0350	1.420	0.2154	0.1096	25	-1.42	526.41	0
526	Lead (ppm)	2404	1.215	0.0300	1.420	0.2154	0.1096	25	-0.95	526.43	0
526	Lead (ppm)	0186	1.225	0.0300	1.420	0.2154	0.1096	25	-0.90	526.52	0
526	Lead (ppm)	2113	1.250	0.1000	1.420	0.2154	0.1096	25	-0.79	526.52	0
526	Lead (ppm)	0043	1.250	0.3000	1.420	0.2154	0.1096	25	-0.79	526.53	0
526	Lead (ppm)	2404	1.260	0.0200	1.420	0.2154	0.1096	25	-0.74	526.53	0
526	Lead (ppm)	0033	1.275	0.1100	1.420	0.2154	0.1096	25	-0.67	526.53	0
526	Lead (ppm)	0553	1.295	0.1100	1.420	0.2154	0.1096	25	-0.58	526.53	0
526	Lead (ppm)	2433	1.301	0.1670	1.420	0.2154	0.1096	25	-0.55	526.42	0
526	Lead (ppm)	0227	1.325	0.1100	1.420	0.2154	0.1096	25	-0.44	526.53	0
526	Lead (ppm)	0407	1.356	0.0972	1.420	0.2154	0.1096	25	-0.29	526.53	0
526	Lead (ppm)	0918	1.360	0.0800	1.420	0.2154	0.1096	25	-0.28	526.53	0
526	Lead (ppm)	0006	1.380	0.1600	1.420	0.2154	0.1096	25	-0.18	526.53	0
526	Lead (ppm)	0278	1.410	0.1000	1.420	0.2154	0.1096	25	-0.04	526.43	0
526	Lead (ppm)	0098	1.455	0.1300	1.420	0.2154	0.1096	25	0.16	526.53	0
526	Lead (ppm)	2445	1.519	0.2350	1.420	0.2154	0.1096	25	0.46	526.43	0
526	Lead (ppm)	0010	1.530	0.1000	1.420	0.2154	0.1096	25	0.51	526.53	0
526	Lead (ppm)	0208	1.615	0.3300	1.420	0.2154	0.1096	25	0.91	526.52	0
526	Lead (ppm)	0870	1.832	0.0765	1.420	0.2154	0.1096	25	1.91	526.43	0
526	Lead (ppm)	0354	1.871	0.0690	1.420	0.2154	0.1096	25	2.09	526.43	0
526	Lead (ppm)	2468	1.910	0.2540	1.420	0.2154	0.1096	25	2.28	526.52	0
526	Lead (ppm)	2292	2.000	0.0000	1.420	0.2154	0.1096	25	2.69	526.99	0
526	Lead (ppm)	2322	2.141	0.0001	1.420	0.2154	0.1096	25	3.35	526.43	0
526	Lead (ppm)	0160	< 5		1.420	0.2154	0.1096	25		526.42	5
526	Lead (ppm)	2141	< 5		1.420	0.2154	0.1096	25		526.43	5
526	Lead (ppm)	0148	< 9.7		1.420	0.2154	0.1096	25		526.43	5
529	Mercury (ppb)	0918	1.742	0.1340	1,676	248.0	158.8	17	-6.75	529.99	0
529	Mercury (ppb)	2322	46.22	0.0100	1,676	248.0	158.8	17	-6.57	529.99	0
529	Mercury (ppb)	0186	968.9	78.00	1,676	248.0	158.8	17	-2.85	529.99	0
529	Mercury (ppb)	0160	1,275	410.0	1,676	248.0	158.8	17	-1.62	529.00	0
529	Mercury (ppb)	2445	1,405	500.5	1,676	248.0	158.8	17	-1.09	529.99	0
529	Mercury (ppb)	0043	1,705	91.00	1,676	248.0	158.8	17	0.12	529.99	0
529	Mercury (ppb)	0407	1,733	43.43	1,676	248.0	158.8	17	0.23	529.99	0
529	Mercury (ppb)	0208	1,810	120.0	1,676	248.0	158.8	17	0.54	529.99	0
529	Mercury (ppb)	0098	1,825	30.00	1,676	248.0	158.8	17	0.60	529.99	0
529	Mercury (ppb)	0148	1,846	151.5	1,676	248.0	158.8	17	0.69	529.99	0
529	Mercury (ppb)	0033	1,852	136.0	1,676	248.0	158.8	17	0.71	529.99	0
529	Mercury (ppb)	0042	1,885	210.0	1,676	248.0	158.8	17	0.84	529.00	0
529	Mercury (ppb)	0553	1,885	10.00	1,676	248.0	158.8	17	0.84	529.99	0
529	Mercury (ppb)	2468	1,910	254.0	1,676	248.0	158.8	17	0.95	529.99	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Robust* Analyte Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob. Mean	Horwitz SD	Rob. R-bar	# Tests			
529	Mercury (ppb)	0227	1,950	340.0	1,676	248.0	158.8	17	1.11	529.99	0
529	Mercury (ppb)	0010	2,029	253.0	1,676	248.0	158.8	17	1.42	529.99	0
529	Mercury (ppb)	0006	2,095	222.0	1,676	248.0	158.8	17	1.69	529.99	0
539	Nickel (ppm)	0407	7.482	0.0874	8.771	1.012	0.3001	20	-1.27	539.43	0
539	Nickel (ppm)	0407	7.753	0.1740	8.771	1.012	0.3001	20	-1.01	539.41	0
539	Nickel (ppm)	0160	7.950	0.5000	8.771	1.012	0.3001	20	-0.81	539.42	0
539	Nickel (ppm)	2113	8.200	0.2000	8.771	1.012	0.3001	20	-0.56	539.52	0
539	Nickel (ppm)	2433	8.205	0.0700	8.771	1.012	0.3001	20	-0.56	539.42	0
539	Nickel (ppm)	0010	8.295	0.2500	8.771	1.012	0.3001	20	-0.47	539.53	0
539	Nickel (ppm)	0098	8.530	0.1200	8.771	1.012	0.3001	20	-0.24	539.53	0
539	Nickel (ppm)	0870	8.628	0.1831	8.771	1.012	0.3001	20	-0.14	539.43	0
539	Nickel (ppm)	0148	8.650	0.2400	8.771	1.012	0.3001	20	-0.12	539.43	0
539	Nickel (ppm)	0047	8.690	0.0400	8.771	1.012	0.3001	20	-0.08	539.52	0
539	Nickel (ppm)	0553	8.765	0.0900	8.771	1.012	0.3001	20	-0.01	539.53	0
539	Nickel (ppm)	0186	8.770	0.0400	8.771	1.012	0.3001	20	0.00	539.52	0
539	Nickel (ppm)	0407	8.983	0.2736	8.771	1.012	0.3001	20	0.21	539.53	0
539	Nickel (ppm)	0918	9.135	0.2500	8.771	1.012	0.3001	20	0.36	539.53	0
539	Nickel (ppm)	2141	9.243	0.8540	8.771	1.012	0.3001	20	0.47	539.43	0
539	Nickel (ppm)	0042	9.250	1.040	8.771	1.012	0.3001	20	0.47	539.42	0
539	Nickel (ppm)	0006	9.345	0.7700	8.771	1.012	0.3001	20	0.57	539.53	0
539	Nickel (ppm)	2468	9.605	0.6900	8.771	1.012	0.3001	20	0.82	539.52	0
539	Nickel (ppm)	0278	9.915	0.3500	8.771	1.012	0.3001	20	1.13	539.43	0
539	Nickel (ppm)	2292	11.00	0.0000	8.771	1.012	0.3001	20	2.20	539.99	0

Note 1: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or between -2 and -3 (warning) and Green = Z <= 2 and >= -2 (OK at 95%). Horwitz SD's assigned based on Rob Mean only.

Note 2: Data Not Used Flags: 1=Rejected for duplicates too far apart, 2=Rejected as extreme outlier, 5=Reporting limit (<), 4=Zeros submitted as values and 3=Statistical problem. Flag 0 indicates data used in calculations.

Note 3: *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). A zero range is not included in robust R-bar calculation.