Minerals Scheme

Corn

Test Material Code # 202153

Analyte Proficiency Testing Report

 # Labs Reporting: 33

 # Analytes Reported 16

Issue Date : 10/31/2021

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)	2302	409.5	21.00	919.6	52.67	36.50	21	-9.68	015.99	0
015	Aluminum (ppm)	0511	803.0	54.00	919.6	52.67	36.50	21	-2.21	015.43	0
015	Aluminum (ppm)	0186	842.7	8.900	919.6	52.67	36.50	21	-1.46	015.52	0
015	Aluminum (ppm)	0510	843.5	5.000	919.6	52.67	36.50	21	-1.44	015.43	0
015	Aluminum (ppm)	0098	847.5	33.40	919.6	52.67	36.50	21	-1.37	015.43	0
015	Aluminum (ppm)	0629	856.0	4.000	919.6	52.67	36.50	21	-1.21	015.43	0
015	Aluminum (ppm)	0042	862.5	49.00	919.6	52.67	36.50	21	-1.08	015.42	0
015	Aluminum (ppm)	0407	876.3	2.123	919.6	52.67	36.50	21	-0.82	015.41	0
015	Aluminum (ppm)	0407	879.0	58.15	919.6	52.67	36.50	21	-0.77	015.53	0
015	Aluminum (ppm)	2033	883.9	35.20	919.6	52.67	36.50	21	-0.68	015.43	0
015	Aluminum (ppm)	0160	897.5	15.00	919.6	52.67	36.50	21	-0.42	015.42	0
015	Aluminum (ppm)	0553	939.0	6.000	919.6	52.67	36.50	21	0.37	015.53	0
015	Aluminum (ppm)	0870	943.0	39.85	919.6	52.67	36.50	21	0.44	015.43	0
015	Aluminum (ppm)	0278	956.0	12.79	919.6	52.67	36.50	21	0.69	015.43	0
015	Aluminum (ppm)	0208	971.0	58.00	919.6	52.67	36.50	21	0.98	015.41	0
015	Aluminum (ppm)	0227	973.0	28.00	919.6	52.67	36.50	21	1.01	015.41	0
015	Aluminum (ppm)	2207	984.0	16.00	919.6	52.67	36.50	21	1.22	015.42	0
015	Aluminum (ppm)	0964	1,008	97.00	919.6	52.67	36.50	21	1.67	015.43	0
015	Aluminum (ppm)	0047	1,045	90.70	919.6	52.67	36.50	21	2.38	015.52	0
015	Aluminum (ppm)	0918	1,071	11.46	919.6	52.67	36.50	21	2.87	015.53	0
015	Aluminum (ppm)	0015	1,150	120.9	919.6	52.67	36.50	21	4.37	015.53	0
017	Boron (ppm)	0160	14.25	1.300	17.05	1.780	1.256	11	-1.57	017.42	0
017	Boron (ppm)	0098	15.45	1.870	17.05	1.780	1.256	11	-0.90	017.43	0
017	Boron (ppm)	0918	15.92	0.2400	17.05	1.780	1.256	11	-0.64	017.43	0
017	Boron (ppm)	2207	15.95	1.100	17.05	1.780	1.256	11	-0.62	017.42	0
017	Boron (ppm)	0407	16.00	0.1794	17.05	1.780	1.256	11	-0.59	017.41	0
017	Boron (ppm)	2033	16.40	0.4000	17.05	1.780	1.256	11	-0.37	017.43	0
017	Boron (ppm)	0510	17.50	1.000	17.05	1.780	1.256	11	0.25	017.43	0
017	Boron (ppm)	0407	17.60	2.515	17.05	1.780	1.256	11	0.31	017.53	0
017	Boron (ppm)	0629	17.85	0.1000	17.05	1.780	1.256	11	0.45	017.43	0
017	Boron (ppm)	0553	22.45	1.700	17.05	1.780	1.256	11	3.03	017.53	0
017	Boron (ppm)	0870	77.17	3.412	17.05	1.780	1.256	11	33.78	017.43	0
017	Boron (ppm)	0042	56.65	12.50	17.05	1.780	1.256	11	22.25	017.42	1

Test Material Code # 202153 | **Analyte Proficiency Testing Report** | **Issue Date : 10/31/2021**

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)	2302	1.000	0.0000	22.63	2.264	0.7899	23	-9.55	021.99	0
021	Cobalt (ppm)	0629	19.85	0.5000	22.63	2.264	0.7899	23	-1.23	021.43	0
021	Cobalt (ppm)	0511	20.50	3.000	22.63	2.264	0.7899	23	-0.94	021.43	0
021	Cobalt (ppm)	0186	21.16	0.6800	22.63	2.264	0.7899	23	-0.65	021.52	0
021	Cobalt (ppm)	0098	21.32	2.100	22.63	2.264	0.7899	23	-0.58	021.53	0
021	Cobalt (ppm)	2113	22.00	0.0000	22.63	2.264	0.7899	23	-0.28	021.52	0
021	Cobalt (ppm)	0407	22.02	0.0126	22.63	2.264	0.7899	23	-0.27	021.41	0
021	Cobalt (ppm)	0870	22.02	0.4004	22.63	2.264	0.7899	23	-0.27	021.43	0
021	Cobalt (ppm)	2141	22.05	0.5200	22.63	2.264	0.7899	23	-0.26	021.43	0
021	Cobalt (ppm)	0278	22.09	1.770	22.63	2.264	0.7899	23	-0.24	021.43	0
021	Cobalt (ppm)	0033	22.35	0.1000	22.63	2.264	0.7899	23	-0.12	021.53	0
021	Cobalt (ppm)	0042	22.60	0.2000	22.63	2.264	0.7899	23	-0.01	021.42	0
021	Cobalt (ppm)	0227	23.00	0.0000	22.63	2.264	0.7899	23	0.16	021.31	0
021	Cobalt (ppm)	0510	23.06	0.0600	22.63	2.264	0.7899	23	0.19	021.43	0
021	Cobalt (ppm)	0553	23.50	0.6000	22.63	2.264	0.7899	23	0.39	021.53	0
021	Cobalt (ppm)	2207	23.52	0.5400	22.63	2.264	0.7899	23	0.39	021.52	0
021	Cobalt (ppm)	0918	23.63	0.1510	22.63	2.264	0.7899	23	0.44	021.53	0
021	Cobalt (ppm)	0964	23.80	2.000	22.63	2.264	0.7899	23	0.52	021.43	0
021	Cobalt (ppm)	0563	23.92	0.1474	22.63	2.264	0.7899	23	0.57	021.31	0
021	Cobalt (ppm)	2033	23.99	0.4000	22.63	2.264	0.7899	23	0.60	021.43	0
021	Cobalt (ppm)	0407	24.04	1.407	22.63	2.264	0.7899	23	0.62	021.53	0
021	Cobalt (ppm)	0910	24.21	1.790	22.63	2.264	0.7899	23	0.70	021.52	0
021	Cobalt (ppm)	0015	31.42	1.790	22.63	2.264	0.7899	23	3.88	021.53	0
022	Copper (ppm)	0511	4.000	0.0000	5.270	0.6565	0.2453	26	-1.94	022.43	0
022	Copper (ppm)	2113	4.500	0.0000	5.270	0.6565	0.2453	26	-1.17	022.52	0
022	Copper (ppm)	0918	4.520	0.1600	5.270	0.6565	0.2453	26	-1.14	022.43	0
022	Copper (ppm)	0098	4.677	0.5150	5.270	0.6565	0.2453	26	-0.90	022.53	0
022	Copper (ppm)	2141	4.745	0.3500	5.270	0.6565	0.2453	26	-0.80	022.43	0
022	Copper (ppm)	2114	4.755	0.1380	5.270	0.6565	0.2453	26	-0.79	022.99	0
022	Copper (ppm)	0629	4.755	0.1300	5.270	0.6565	0.2453	26	-0.78	022.43	0
022	Copper (ppm)	0553	4.925	0.5900	5.270	0.6565	0.2453	26	-0.53	022.53	0
022	Copper (ppm)	0870	4.936	0.0338	5.270	0.6565	0.2453	26	-0.51	022.43	0
022	Copper (ppm)	0010	5.000	0.0000	5.270	0.6565	0.2453	26	-0.41	022.33	0
022	Copper (ppm)	0910	5.000	0.0000	5.270	0.6565	0.2453	26	-0.41	022.41	0
022	Copper (ppm)	0510	5.000	0.0000	5.270	0.6565	0.2453	26	-0.41	022.43	0
022	Copper (ppm)	0033	5.045	0.0500	5.270	0.6565	0.2453	26	-0.34	022.53	0
022	Copper (ppm)	2033	5.100	0.0000	5.270	0.6565	0.2453	26	-0.26	022.43	0
022	Copper (ppm)	0160	5.250	0.5000	5.270	0.6565	0.2453	26	-0.03	022.42	0
022	Copper (ppm)	0208	5.310	0.0800	5.270	0.6565	0.2453	26	0.06	022.31	0
022	Copper (ppm)	0407	5.329	0.3312	5.270	0.6565	0.2453	26	0.09	022.41	0
022	Copper (ppm)	0186	5.435	0.0500	5.270	0.6565	0.2453	26	0.25	022.52	0
022	Copper (ppm)	2306	5.650	0.3000	5.270	0.6565	0.2453	26	0.58	022.51	0

Test Material Code # 202153 | **Analyte Proficiency Testing Report** | **Issue Date : 10/31/2021**

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			
022	Copper (ppm)	0227	5.800	0.0000	5.270	0.6565	0.2453	26	0.81	022.41	0
022	Copper (ppm)	0407	5.865	0.2292	5.270	0.6565	0.2453	26	0.91	022.53	0
022	Copper (ppm)	0202	5.910	0.0200	5.270	0.6565	0.2453	26	0.97	022.43	0
022	Copper (ppm)	2207	6.400	1.600	5.270	0.6565	0.2453	26	1.72	022.42	0
022	Copper (ppm)	0051	6.640	1.100	5.270	0.6565	0.2453	26	2.09	022.44	0
022	Copper (ppm)	0278	7.400	0.2000	5.270	0.6565	0.2453	26	3.24	022.42	0
022	Copper (ppm)	2302	8.000	0.0000	5.270	0.6565	0.2453	26	4.16	022.99	0
022	Copper (ppm)	0042	8.840	1.780	5.270	0.6565	0.2453	26	5.44	022.42	1
022	Copper (ppm)	0964	< 1.65		5.270	0.6565	0.2453	26		022.43	5
022	Copper (ppm)	0529	< 9.6		5.270	0.6565	0.2453	26		022.31	5
023	Fluorine (ppm)	2033	91.40	0.4000				2		023.01	0
023	Fluorine (ppm)	0227	120.0	0.0000				2		023.01	0
024	Iodine (ppm)	0910	0.1800	0.0080				2		024.52	0
024	Iodine (ppm)	0160	0.1900	0.0200				2		024.52	0
034	Selenium, Total (Se) (ppm)	0278	0.1100	0.0000	0.1768	0.0367	0.0229	15	-1.82	034.53	0
034	Selenium, Total (Se) (ppm)	0047	0.1395	0.0150	0.1768	0.0367	0.0229	15	-1.02	034.52	0
034	Selenium, Total (Se) (ppm)	0033	0.1475	0.0030	0.1768	0.0367	0.0229	15	-0.80	034.53	0
034	Selenium, Total (Se) (ppm)	0098	0.1495	0.0050	0.1768	0.0367	0.0229	15	-0.74	034.53	0
034	Selenium, Total (Se) (ppm)	2207	0.1500	0.1000	0.1768	0.0367	0.0229	15	-0.73	034.52	0
034	Selenium, Total (Se) (ppm)	0553	0.1505	0.0030	0.1768	0.0367	0.0229	15	-0.72	034.53	0
034	Selenium, Total (Se) (ppm)	0227	0.1520	0.0020	0.1768	0.0367	0.0229	15	-0.68	034.04	0
034	Selenium, Total (Se) (ppm)	0208	0.1730	0.0140	0.1768	0.0367	0.0229	15	-0.10	034.52	0
034	Selenium, Total (Se) (ppm)	0918	0.1770	0.0020	0.1768	0.0367	0.0229	15	0.00	034.53	0
034	Selenium, Total (Se) (ppm)	0910	0.1800	0.0400	0.1768	0.0367	0.0229	15	0.09	034.52	0
034	Selenium, Total (Se) (ppm)	2033	0.1865	0.0310	0.1768	0.0367	0.0229	15	0.26	034.53	0
034	Selenium, Total (Se) (ppm)	0407	0.1885	0.0230	0.1768	0.0367	0.0229	15	0.32	034.53	0
034	Selenium, Total (Se) (ppm)	0563	0.2494	0.0506	0.1768	0.0367	0.0229	15	1.98	034.04	0
034	Selenium, Total (Se) (ppm)	0870	0.5952	0.0281	0.1768	0.0367	0.0229	15	11.39	034.43	0
034	Selenium, Total (Se) (ppm)	0186	0.6075	0.0270	0.1768	0.0367	0.0229	15	11.73	034.52	0
034	Selenium, Total (Se) (ppm)	0723	2.400	0.4000	0.1768	0.0367	0.0229	15	60.55	034.43	1
034	Selenium, Total (Se) (ppm)	2302	< 0.01		0.1768	0.0367	0.0229	15		034.99	5
034	Selenium, Total (Se) (ppm)	0629	< 0.5		0.1768	0.0367	0.0229	15		034.43	5
034	Selenium, Total (Se) (ppm)	0964	< 0.96		0.1768	0.0367	0.0229	15		034.43	5
034	Selenium, Total (Se) (ppm)	2141	< 5		0.1768	0.0367	0.0229	15		034.43	5
034	Selenium, Total (Se) (ppm)	0160	< 10		0.1768	0.0367	0.0229	15		034.42	5
034	Selenium, Total (Se) (ppm)	0042	< 16		0.1768	0.0367	0.0229	15		034.42	5
036	Sulfur (%)	2141	0.3190	0.0035	0.3872	0.0179	0.0039	20	-3.82	036.43	0
036	Sulfur (%)	0910	0.3381	0.0050	0.3872	0.0179	0.0039	20	-2.75	036.42	0
036	Sulfur (%)	2302	0.3400	0.0000	0.3872	0.0179	0.0039	20	-2.64	036.99	0
036	Sulfur (%)	0870	0.3618	0.0068	0.3872	0.0179	0.0039	20	-1.42	036.42	0
036	Sulfur (%)	0227	0.3650	0.0100	0.3872	0.0179	0.0039	20	-1.24	036.42	0
036	Sulfur (%)	0186	0.3666	0.0017	0.3872	0.0179	0.0039	20	-1.16	036.52	0

Test Material Code # 202153 | **Analyte Proficiency Testing Report** | **Issue Date : 10/31/2021**

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 (%)	0918	0.3860	0.0000	0.3872	0.0179	0.0039	20	-0.07	036.43	0
036	Sulfur (%)	0160	0.3900	0.0000	0.3872	0.0179	0.0039	20	0.16	036.42	0
036	Sulfur (%)	0278	0.3900	0.0000	0.3872	0.0179	0.0039	20	0.16	036.42	0
036	Sulfur (%)	0202	0.3900	0.0000	0.3872	0.0179	0.0039	20	0.16	036.43	0
036	Sulfur (%)	0407	0.3916	0.0001	0.3872	0.0179	0.0039	20	0.24	036.42	0
036	Sulfur (%)	2033	0.3950	0.0100	0.3872	0.0179	0.0039	20	0.44	036.43	0
036	Sulfur (%)	0553	0.3950	0.0000	0.3872	0.0179	0.0039	20	0.44	036.53	0
036	Sulfur (%)	0629	0.4000	0.0000	0.3872	0.0179	0.0039	20	0.72	036.43	0
036	Sulfur (%)	0015	0.4050	0.0100	0.3872	0.0179	0.0039	20	1.00	036.53	0
036	Sulfur (%)	0098	0.4070	0.0140	0.3872	0.0179	0.0039	20	1.11	036.43	0
036	Sulfur (%)	0208	0.4085	0.0050	0.3872	0.0179	0.0039	20	1.19	036.00	0
036	Sulfur (%)	2207	0.4100	0.0000	0.3872	0.0179	0.0039	20	1.28	036.42	0
036	Sulfur (%)	0042	0.4175	0.0010	0.3872	0.0179	0.0039	20	1.70	036.42	0
036	Sulfur (%)	0510	0.4350	0.0100	0.3872	0.0179	0.0039	20	2.68	036.43	0
036	Sulfur (%)	0964	0.4113	0.0574	0.3872	0.0179	0.0039	20	1.35	036.43	1
038	Molybdenum (ppm)	0510	0.4000	0.2000	0.6597	0.1123	0.0605	17	-2.31	038.43	0
038	Molybdenum (ppm)	0278	0.5200	0.1200	0.6597	0.1123	0.0605	17	-1.24	038.42	0
038	Molybdenum (ppm)	0186	0.6205	0.0050	0.6597	0.1123	0.0605	17	-0.35	038.52	0
038	Molybdenum (ppm)	0964	0.6350	0.2260	0.6597	0.1123	0.0605	17	-0.22	038.43	0
038	Molybdenum (ppm)	0910	0.6350	0.0700	0.6597	0.1123	0.0605	17	-0.22	038.52	0
038	Molybdenum (ppm)	0098	0.6360	0.0540	0.6597	0.1123	0.0605	17	-0.21	038.53	0
038	Molybdenum (ppm)	2207	0.6500	0.1000	0.6597	0.1123	0.0605	17	-0.09	038.52	0
038	Molybdenum (ppm)	0407	0.6581	0.0204	0.6597	0.1123	0.0605	17	-0.01	038.41	0
038	Molybdenum (ppm)	2113	0.6600	0.0600	0.6597	0.1123	0.0605	17	0.00	038.52	0
038	Molybdenum (ppm)	0407	0.6675	0.0151	0.6597	0.1123	0.0605	17	0.07	038.53	0
038	Molybdenum (ppm)	0629	0.6700	0.0000	0.6597	0.1123	0.0605	17	0.09	038.43	0
038	Molybdenum (ppm)	0553	0.6840	0.0360	0.6597	0.1123	0.0605	17	0.22	038.53	0
038	Molybdenum (ppm)	2033	0.6850	0.0100	0.6597	0.1123	0.0605	17	0.23	038.43	0
038	Molybdenum (ppm)	0033	0.6870	0.0020	0.6597	0.1123	0.0605	17	0.24	038.53	0
038	Molybdenum (ppm)	0010	0.7000	0.0000	0.6597	0.1123	0.0605	17	0.36	038.53	0
038	Molybdenum (ppm)	0918	0.7095	0.0010	0.6597	0.1123	0.0605	17	0.44	038.53	0
038	Molybdenum (ppm)	0227	0.7265	0.1090	0.6597	0.1123	0.0605	17	0.59	038.53	0
038	Molybdenum (ppm)	0160	< 1		0.6597	0.1123	0.0605	17		038.42	5
038	Molybdenum (ppm)	0042	< 1.4		0.6597	0.1123	0.0605	17		038.42	5
038	Molybdenum (ppm)	2141	< 5		0.6597	0.1123	0.0605	17		038.43	5
041	Vanadium (ppm)	0160	41.45	0.1000	46.69	4.188	2.050	14	-1.25	041.42	0
041	Vanadium (ppm)	0511	42.50	3.000	46.69	4.188	2.050	14	-1.00	041.43	0
041	Vanadium (ppm)	0098	42.70	1.730	46.69	4.188	2.050	14	-0.95	041.53	0
041	Vanadium (ppm)	0629	43.25	0.9000	46.69	4.188	2.050	14	-0.82	041.43	0
041	Vanadium (ppm)	0407	44.35	2.396	46.69	4.188	2.050	14	-0.56	041.53	0
041	Vanadium (ppm)	0870	45.18	3.099	46.69	4.188	2.050	14	-0.36	041.43	0
041	Vanadium (ppm)	2033	46.71	0.9600	46.69	4.188	2.050	14	0.01	041.43	0

Test Material Code # 202153 | **Analyte Proficiency Testing Report** | **Issue Date : 10/31/2021**

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			
041	Vanadium (ppm)	0278	46.96	4.730	46.69	4.188	2.050	14	0.06	041.43	0
041	Vanadium (ppm)	0553	47.30	5.000	46.69	4.188	2.050	14	0.15	041.53	0
041	Vanadium (ppm)	0208	48.30	0.4000	46.69	4.188	2.050	14	0.39	041.41	0
041	Vanadium (ppm)	0047	49.02	0.3000	46.69	4.188	2.050	14	0.56	041.52	0
041	Vanadium (ppm)	2207	49.90	3.200	46.69	4.188	2.050	14	0.77	041.52	0
041	Vanadium (ppm)	0015	56.92	0.8800	46.69	4.188	2.050	14	2.44	041.53	0
041	Vanadium (ppm)	0563	60.00	2.000	46.69	4.188	2.050	14	3.18	041.34	0
516	Arsenic, Total (As) (ppm)	0563	4.693	0.0430	9.442	1.077	0.3526	23	-4.41	516.00	0
516	Arsenic, Total (As) (ppm)	0629	6.620	0.0400	9.442	1.077	0.3526	23	-2.62	516.43	0
516	Arsenic, Total (As) (ppm)	0047	7.562	1.084	9.442	1.077	0.3526	23	-1.75	516.52	0
516	Arsenic, Total (As) (ppm)	0425	7.755	0.0240	9.442	1.077	0.3526	23	-1.57	516.34	0
516	Arsenic, Total (As) (ppm)	0870	8.110	0.5266	9.442	1.077	0.3526	23	-1.24	516.43	0
516	Arsenic, Total (As) (ppm)	0186	8.297	0.1160	9.442	1.077	0.3526	23	-1.06	516.52	0
516	Arsenic, Total (As) (ppm)	0511	8.500	1.000	9.442	1.077	0.3526	23	-0.87	516.43	0
516	Arsenic, Total (As) (ppm)	0033	9.010	0.2400	9.442	1.077	0.3526	23	-0.40	516.53	0
516	Arsenic, Total (As) (ppm)	0918	9.169	0.2740	9.442	1.077	0.3526	23	-0.25	516.53	0
516	Arsenic, Total (As) (ppm)	2141	9.180	0.3000	9.442	1.077	0.3526	23	-0.24	516.43	0
516	Arsenic, Total (As) (ppm)	0098	9.223	0.9960	9.442	1.077	0.3526	23	-0.20	516.53	0
516	Arsenic, Total (As) (ppm)	0208	9.455	0.1300	9.442	1.077	0.3526	23	0.01	516.52	0
516	Arsenic, Total (As) (ppm)	2207	9.500	0.4000	9.442	1.077	0.3526	23	0.05	516.52	0
516	Arsenic, Total (As) (ppm)	0407	9.514	0.1773	9.442	1.077	0.3526	23	0.07	516.53	0
516	Arsenic, Total (As) (ppm)	0227	9.535	0.4300	9.442	1.077	0.3526	23	0.09	516.53	0
516	Arsenic, Total (As) (ppm)	0910	9.795	0.8300	9.442	1.077	0.3526	23	0.33	516.52	0
516	Arsenic, Total (As) (ppm)	0010	9.900	0.4000	9.442	1.077	0.3526	23	0.43	516.53	0
516	Arsenic, Total (As) (ppm)	2306	10.05	0.2000	9.442	1.077	0.3526	23	0.56	516.53	0
516	Arsenic, Total (As) (ppm)	2033	10.98	0.2000	9.442	1.077	0.3526	23	1.43	516.53	0
516	Arsenic, Total (As) (ppm)	0723	11.90	0.6000	9.442	1.077	0.3526	23	2.28	516.43	0
516	Arsenic, Total (As) (ppm)	2113	12.00	0.0000	9.442	1.077	0.3526	23	2.37	516.52	0
516	Arsenic, Total (As) (ppm)	0964	12.10	0.0000	9.442	1.077	0.3526	23	2.47	516.43	0
516	Arsenic, Total (As) (ppm)	2114	15.28	0.1000	9.442	1.077	0.3526	23	5.42	516.43	0
516	Arsenic, Total (As) (ppm)	2302	< 0.01		9.442	1.077	0.3526	23		516.99	5
516	Arsenic, Total (As) (ppm)	0160	< 10		9.442	1.077	0.3526	23		516.42	5
518	Cadmium (ppm)	0629	2.100	0.0200	2.730	0.3754	0.1509	25	-1.68	518.43	0
518	Cadmium (ppm)	0425	2.274	0.2020	2.730	0.3754	0.1509	25	-1.21	518.34	0
518	Cadmium (ppm)	0278	2.370	0.2400	2.730	0.3754	0.1509	25	-0.96	518.43	0
518	Cadmium (ppm)	0407	2.474	0.0267	2.730	0.3754	0.1509	25	-0.68	518.41	0
518	Cadmium (ppm)	0160	2.600	0.2000	2.730	0.3754	0.1509	25	-0.35	518.42	0
518	Cadmium (ppm)	0098	2.635	0.1300	2.730	0.3754	0.1509	25	-0.25	518.53	0
518	Cadmium (ppm)	0186	2.644	0.0580	2.730	0.3754	0.1509	25	-0.23	518.52	0
518	Cadmium (ppm)	2207	2.705	0.0900	2.730	0.3754	0.1509	25	-0.07	518.52	0
518	Cadmium (ppm)	0407	2.708	0.2051	2.730	0.3754	0.1509	25	-0.06	518.53	0
518	Cadmium (ppm)	0227	2.715	0.3300	2.730	0.3754	0.1509	25	-0.04	518.53	0

Test Material Code # 202153 | **Analyte Proficiency Testing Report** | **Issue Date : 10/31/2021**

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)	0964	2.725	0.1700	2.730	0.3754	0.1509	25	-0.01	518.43	0
518	Cadmium (ppm)	0918	2.737	0.0090	2.730	0.3754	0.1509	25	0.02	518.53	0
518	Cadmium (ppm)	0033	2.745	0.0500	2.730	0.3754	0.1509	25	0.04	518.53	0
518	Cadmium (ppm)	0010	2.750	0.3000	2.730	0.3754	0.1509	25	0.05	518.53	0
518	Cadmium (ppm)	0870	2.755	0.0604	2.730	0.3754	0.1509	25	0.07	518.43	0
518	Cadmium (ppm)	0208	2.765	0.1500	2.730	0.3754	0.1509	25	0.09	518.52	0
518	Cadmium (ppm)	0042	2.795	0.0700	2.730	0.3754	0.1509	25	0.17	518.42	0
518	Cadmium (ppm)	0723	2.795	0.4700	2.730	0.3754	0.1509	25	0.17	518.43	0
518	Cadmium (ppm)	0910	2.805	0.2500	2.730	0.3754	0.1509	25	0.20	518.52	0
518	Cadmium (ppm)	0553	2.815	0.0300	2.730	0.3754	0.1509	25	0.23	518.53	0
518	Cadmium (ppm)	2113	2.850	0.1000	2.730	0.3754	0.1509	25	0.32	518.52	0
518	Cadmium (ppm)	2114	2.897	0.0518	2.730	0.3754	0.1509	25	0.45	518.99	0
518	Cadmium (ppm)	2306	2.910	0.0800	2.730	0.3754	0.1509	25	0.48	518.53	0
518	Cadmium (ppm)	2033	3.130	0.0400	2.730	0.3754	0.1509	25	1.07	518.53	0
518	Cadmium (ppm)	0047	3.270	0.4400	2.730	0.3754	0.1509	25	1.44	518.52	0
518	Cadmium (ppm)	2302	< 0.01		2.730	0.3754	0.1509	25		518.99	5
518	Cadmium (ppm)	2141	< 5		2.730	0.3754	0.1509	25		518.43	5
520	Chromium, Total (Cr) (ppm)	0407	0.1697	0.0040	0.4617	0.0830	0.0454	12	-3.52	520.41	0
520	Chromium, Total (Cr) (ppm)	0553	0.2555	0.0510	0.4617	0.0830	0.0454	12	-2.49	520.53	0
520	Chromium, Total (Cr) (ppm)	0227	0.2780	0.0140	0.4617	0.0830	0.0454	12	-2.21	520.31	0
520	Chromium, Total (Cr) (ppm)	2113	0.2850	0.0900	0.4617	0.0830	0.0454	12	-2.13	520.52	0
520	Chromium, Total (Cr) (ppm)	0033	0.3355	0.0250	0.4617	0.0830	0.0454	12	-1.52	520.53	0
520	Chromium, Total (Cr) (ppm)	0278	0.3500	0.0200	0.4617	0.0830	0.0454	12	-1.35	520.43	0
520	Chromium, Total (Cr) (ppm)	2033	0.4150	0.0100	0.4617	0.0830	0.0454	12	-0.56	520.43	0
520	Chromium, Total (Cr) (ppm)	0015	0.5600	0.0200	0.4617	0.0830	0.0454	12	1.18	520.53	0
520	Chromium, Total (Cr) (ppm)	0407	0.5954	0.0008	0.4617	0.0830	0.0454	12	1.61	520.53	0
520	Chromium, Total (Cr) (ppm)	0918	0.5990	0.0600	0.4617	0.0830	0.0454	12	1.66	520.53	0
520	Chromium, Total (Cr) (ppm)	0047	1.270	0.2000	0.4617	0.0830	0.0454	12	9.74	520.52	0
520	Chromium, Total (Cr) (ppm)	0870	4.329	0.0495	0.4617	0.0830	0.0454	12	46.61	520.43	0
520	Chromium, Total (Cr) (ppm)	0186	3,095	10.00	0.4617	0.0830	0.0454	12	37299.24	520.52	2
520	Chromium, Total (Cr) (ppm)	2302	< 0.01		0.4617	0.0830	0.0454	12		520.99	5
520	Chromium, Total (Cr) (ppm)	0098	< 0.338		0.4617	0.0830	0.0454	12		520.53	5
520	Chromium, Total (Cr) (ppm)	0964	< 0.92		0.4617	0.0830	0.0454	12		520.43	5
520	Chromium, Total (Cr) (ppm)	0042	< 1		0.4617	0.0830	0.0454	12		520.42	5
520	Chromium, Total (Cr) (ppm)	0160	< 1		0.4617	0.0830	0.0454	12		520.42	5
520	Chromium, Total (Cr) (ppm)	2207	< 2		0.4617	0.0830	0.0454	12		520.52	5
520	Chromium, Total (Cr) (ppm)	2141	< 5		0.4617	0.0830	0.0454	12		520.43	5
526	Lead (ppm)	0964	1.870	0.1800	2.324	0.3274	0.1274	24	-1.39	526.43	0
526	Lead (ppm)	0629	1.950	0.0000	2.324	0.3274	0.1274	24	-1.14	526.43	0
526	Lead (ppm)	2114	1.982	0.0148	2.324	0.3274	0.1274	24	-1.04	526.99	0
526	Lead (ppm)	0407	2.015	0.0034	2.324	0.3274	0.1274	24	-0.94	526.41	0
526	Lead (ppm)	0425	2.020	0.1380	2.324	0.3274	0.1274	24	-0.93	526.34	0

Test Material Code # 202153 | **Analyte Proficiency Testing Report** | **Issue Date : 10/31/2021**

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)	0723	2.090	0.4600	2.324	0.3274	0.1274	24	-0.71	526.43	0
526	Lead (ppm)	0186	2.160	0.0260	2.324	0.3274	0.1274	24	-0.50	526.52	0
526	Lead (ppm)	0098	2.185	0.0100	2.324	0.3274	0.1274	24	-0.42	526.53	0
526	Lead (ppm)	2113	2.200	0.0000	2.324	0.3274	0.1274	24	-0.38	526.52	0
526	Lead (ppm)	0010	2.250	0.1000	2.324	0.3274	0.1274	24	-0.23	526.53	0
526	Lead (ppm)	0033	2.300	0.1200	2.324	0.3274	0.1274	24	-0.07	526.53	0
526	Lead (ppm)	0227	2.380	0.1800	2.324	0.3274	0.1274	24	0.17	526.53	0
526	Lead (ppm)	2207	2.400	0.2000	2.324	0.3274	0.1274	24	0.23	526.52	0
526	Lead (ppm)	2033	2.400	0.0000	2.324	0.3274	0.1274	24	0.23	526.53	0
526	Lead (ppm)	0870	2.406	0.0578	2.324	0.3274	0.1274	24	0.25	526.43	0
526	Lead (ppm)	0208	2.415	0.0100	2.324	0.3274	0.1274	24	0.28	526.52	0
526	Lead (ppm)	0553	2.430	0.0600	2.324	0.3274	0.1274	24	0.32	526.53	0
526	Lead (ppm)	0910	2.510	0.3400	2.324	0.3274	0.1274	24	0.57	526.52	0
526	Lead (ppm)	2306	2.515	0.1700	2.324	0.3274	0.1274	24	0.58	526.53	0
526	Lead (ppm)	0918	2.547	0.2560	2.324	0.3274	0.1274	24	0.68	526.53	0
526	Lead (ppm)	0047	2.589	0.1860	2.324	0.3274	0.1274	24	0.81	526.52	0
526	Lead (ppm)	0407	2.633	0.1154	2.324	0.3274	0.1274	24	0.94	526.53	0
526	Lead (ppm)	0278	2.835	0.2700	2.324	0.3274	0.1274	24	1.56	526.43	0
526	Lead (ppm)	0042	3.480	0.1600	2.324	0.3274	0.1274	24	3.53	526.42	0
526	Lead (ppm)	2302	< 0.01		2.324	0.3274	0.1274	24		526.99	5
526	Lead (ppm)	2141	< 5		2.324	0.3274	0.1274	24		526.43	5
529	Mercury (ppb)	0186	0.0980	0.0160	1,214	188.6	94.29	17	-6.44	529.99	0
529	Mercury (ppb)	0629	1.350	0.0000	1,214	188.6	94.29	17	-6.43	529.99	0
529	Mercury (ppb)	0910	1.725	0.3100	1,214	188.6	94.29	17	-6.43	529.99	0
529	Mercury (ppb)	0047	1.981	0.2080	1,214	188.6	94.29	17	-6.43	529.99	0
529	Mercury (ppb)	0042	160.5	53.00	1,214	188.6	94.29	17	-5.58	529.00	0
529	Mercury (ppb)	2114	1,426	37.28	1,214	188.6	94.29	17	1.13	529.99	0
529	Mercury (ppb)	0425	1,497	6.300	1,214	188.6	94.29	17	1.50	529.00	0
529	Mercury (ppb)	0553	1,530	20.00	1,214	188.6	94.29	17	1.68	529.99	0
529	Mercury (ppb)	0407	1,578	135.6	1,214	188.6	94.29	17	1.93	529.99	0
529	Mercury (ppb)	0098	1,600	80.00	1,214	188.6	94.29	17	2.05	529.99	0
529	Mercury (ppb)	0033	1,610	320.0	1,214	188.6	94.29	17	2.10	529.99	0
529	Mercury (ppb)	2033	1,622	186.5	1,214	188.6	94.29	17	2.17	529.99	0
529	Mercury (ppb)	2306	1,705	50.00	1,214	188.6	94.29	17	2.61	529.99	0
529	Mercury (ppb)	0227	1,740	60.00	1,214	188.6	94.29	17	2.79	529.99	0
529	Mercury (ppb)	0010	1,743	242.0	1,214	188.6	94.29	17	2.81	529.99	0
529	Mercury (ppb)	0208	1,795	230.0	1,214	188.6	94.29	17	3.08	529.99	0
529	Mercury (ppb)	0563	3,382	181.6	1,214	188.6	94.29	17	11.50	529.99	0
529	Mercury (ppb)	2302	< 0.01		1,214	188.6	94.29	17		529.99	5
529	Mercury (ppb)	2207	< 10		1,214	188.6	94.29	17		529.99	5
539	Nickel (ppm)	0918	0.3205	0.0230	0.4429	0.0801	0.0457	14	-1.53	539.53	0
539	Nickel (ppm)	2113	0.3300	0.0200	0.4429	0.0801	0.0457	14	-1.41	539.52	0

Test Material Code # 202153 | **Analyte Proficiency Testing Report** | **Issue Date : 10/31/2021**

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			
539	Nickel (ppm)	0278	0.3600	0.0200	0.4429	0.0801	0.0457	14	**-1.04**	539.43	0
539	Nickel (ppm)	0553	0.3805	0.0710	0.4429	0.0801	0.0457	14	**-0.78**	539.53	0
539	Nickel (ppm)	2033	0.3950	0.0700	0.4429	0.0801	0.0457	14	**-0.60**	539.43	0
539	Nickel (ppm)	0186	0.3995	0.0430	0.4429	0.0801	0.0457	14	**-0.54**	539.52	0
539	Nickel (ppm)	0098	0.4065	0.0370	0.4429	0.0801	0.0457	14	**-0.46**	539.53	0
539	Nickel (ppm)	2207	0.4500	0.1000	0.4429	0.0801	0.0457	14	**0.09**	539.52	0
539	Nickel (ppm)	0964	0.4585	0.0030	0.4429	0.0801	0.0457	14	**0.19**	539.43	0
539	Nickel (ppm)	0047	0.4650	0.0500	0.4429	0.0801	0.0457	14	**0.28**	539.52	0
539	Nickel (ppm)	0407	0.5412	0.0805	0.4429	0.0801	0.0457	14	**1.23**	539.41	0
539	Nickel (ppm)	0015	0.5450	0.0100	0.4429	0.0801	0.0457	14	**1.27**	539.53	0
539	Nickel (ppm)	0407	0.5573	0.0212	0.4429	0.0801	0.0457	14	**1.43**	539.53	0
539	Nickel (ppm)	0870	1.004	0.0916	0.4429	0.0801	0.0457	14	**7.01**	539.43	0
539	Nickel (ppm)	0042	0.9925	0.2750	0.4429	0.0801	0.0457	14	**6.86**	539.42	1
539	Nickel (ppm)	0629	< 0.5		0.4429	0.0801	0.0457	14		539.43	5
539	Nickel (ppm)	0160	< 1		0.4429	0.0801	0.0457	14		539.42	5
539	Nickel (ppm)	2141	< 5		0.4429	0.0801	0.0457	14		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.