

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

# Methods: 39

Sample # 160511

Statistical Summary

# Labs Reporting: 82

Urea

Issue Date : 06/30/2016

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
005.00	Urea Nitrogen, Urease (as N) (%)	1		45.30									
005.99	Urea Nitrogen, Other (%)	4	4	45.32	1.679	45.32		1.679	0.8393	3.70%		1.974	2.25%
006.10	Biuret Nitrogen, Spectrophotometric (as N) (%)	3	3	0.6683	0.3062	0.6683		0.3062	0.1768	45.82%		0.0233	4.25%
006.99	Biuret Nitrogen, Other (%)	1		0.9500									
007.00	Urea, Urease (as Urea) (%)	2	2	46.22	0.0248								
007.99	Urea, Other (%)	1		46.29									
008.10	Biuret, Spectrophotometric (as Biuret) (%)	12	11	0.8007	0.2040	0.8395		0.1152	0.0347	13.73%		0.0163	4.11%
008.99	Biuret, Other (%)	4	4	0.9041	0.1850	0.9041		0.1850	0.0925	20.46%		0.0239	4.06%
010.11	Total Nitrogen, Modified Comprehensive (46%)	11	11	46.10	0.2043	46.10	0.8800	0.2316	0.0698	0.50%	0.95%	0.1036	2.25%
010.12	Total Nitrogen, Salicylic (46%)	2	2	45.71	0.3606								
010.60	Total Nitrogen, Combustion (46%)	54	54	46.24	0.5842	46.23	0.8800	0.3635	0.0495	0.79%	0.95%	0.1875	2.25%
010.99	Total Nitrogen, Other (46%)	11	11	46.06	0.3238	46.06	0.8800	0.3672	0.1107	0.80%	0.96%	0.0664	2.25%
041.50	Direct Available Phosphorus as P2O5, ICP (%)	1		0.1000									
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ... (%)	1		0.0160									
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	1		0.0100									
050.99	Soluble Potassium as K2O, Other (%)	1		0.1000									
060.00	Water (Free), Vacuum Oven (%)	7	7	0.1466	0.0715	0.1466		0.0810	0.0306	55.27%		0.0146	5.34%
060.20	Water (Free), Karl Fischer (%)	4	4	0.2413	0.0924	0.2413		0.0924	0.0462	38.30%		0.0125	4.95%
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours,... (%)	4	4	0.8963	0.8391	0.8963		0.8391	0.4196	93.63%		0.0325	4.07%
060.99	Water (Free), Other (%)	2	2	0.1753	0.0074								
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	1		0.0275									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (%)	1		0.0115									
148.99	Total Sulfur, Other (%)	1		0.0000									
151.30	Acid Soluble Arsenic, ICP (ppm)	1		0.0650									
165.30	Acid Soluble Boron, ICP, test portion in 982.01 (%)	2	2	0.5150	0.7212								
181.30	Acid Soluble Cadmium, ICP (ppm)	1		0.0100									
191.30	Acid Soluble Chromium, ICP (ppm)	1		1.445									
202.30	Acid Soluble Cobalt, ICP (ppm)	1		0.0100									
221.30	Acid Soluble Copper, ICP, test portion inorganic ... (%)	2	2	0.9473	1.333								
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (%)	1		0.0010									
251.30	Acid Soluble Lead, ICP (ppm)	1		0.0600									

Method Code	Analyte & Method	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	1		0.0000									
261.31	Acid Soluble Manganese , ICP, test portion 972.02b (%)	1		4.030									
281.30	Acid Soluble Mercury , ICP (ppm)	1		0.0550									
289.30	Acid Soluble Molybdenum , ICP (ppm)	1		0.0850									
291.30	Acid Soluble Nickel , ICP (ppm)	1		0.3150									
301.30	Acid Soluble Selenium , ICP (ppm)	1		0.0100									
311.99	Sodium, Other (%)	1		0.0415									
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (%)	2	1	20.94									

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 160511

### Method Precision Report

Issue Date : 06/30/2016

Urea

Method Code	Analyte & Method	# Tests Submitted	# Tests Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
008.10	Biuret, Spectrophotometric (as Biuret) (%)	12	10	0.8568	0.0884	0.0879	0.0133	0.0889	10.26%	1.55%	10.38%	6.686
010.11	Total Nitrogen, Modified Comprehensive (46%)	11	11	46.10	0.2043	0.1934	0.0929	0.2146	0.42%	0.20%	0.47%	2.310
010.60	Total Nitrogen, Combustion (46%)	54	50	46.27	0.4389	0.4209	0.1757	0.4561	0.91%	0.38%	0.99%	2.596
010.99	Total Nitrogen, Other (46%)	11	10	46.10	0.3204	0.3189	0.0434	0.3219	0.69%	0.09%	0.70%	7.423
060.00	Water (Free), Vacuum Oven (%)	7	7	0.1466	0.0714	0.0709	0.0128	0.0720	48.34%	8.75%	49.13%	5.617

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

# Methods: 39

Sample # 160511

Lab Values

# Labs Reporting: 82

Urea

Issue Date : 06/30/2016

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
005.00	Urea Nitrogen, Urease (as N) (%)	0389	45.30	1.000				1			0
005.99	Urea Nitrogen, Other (%)	0309	43.64	5.890	45.32	1.679	1.974	4	-1.01	2%	0
005.99	Urea Nitrogen, Other (%)	0394	44.17	1.675	45.32	1.679	1.974	4	-0.69	1%	0
005.99	Urea Nitrogen, Other (%)	0397	46.39	0.0600	45.32	1.679	1.974	4	0.64	1%	0
005.99	Urea Nitrogen, Other (%)	0300	47.10	0.2700	45.32	1.679	1.974	4	1.06	2%	0
006.10	Biuret Nitrogen, Spectrophotometric (as N) (%)	0371	0.3200	0.0200	0.6683	0.3062	0.0233	3	-1.14	26%	0
006.10	Biuret Nitrogen, Spectrophotometric (as N) (%)	0481	0.7900	0.0400	0.6683	0.3062	0.0233	3	0.40	9%	0
006.10	Biuret Nitrogen, Spectrophotometric (as N) (%)	0498	0.8950	0.0100	0.6683	0.3062	0.0233	3	0.74	17%	0
006.99	Biuret Nitrogen, Other (%)	0506	0.9500	0.0000				1			0
007.00	Urea, Urease (as Urea) (%)	0169	46.20	0.0600				2			0
007.00	Urea, Urease (as Urea) (%)	0486	46.24	0.2300				2			0
007.99	Urea, Other (%)	0356	46.29	0.1100				1			0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0520	0.2400	0.0200	0.8395	0.1152	0.0163	11	-5.20	36%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0397	0.7697	0.0094	0.8395	0.1152	0.0163	11	-0.61	4%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0513	0.7790	0.0180	0.8395	0.1152	0.0163	11	-0.52	4%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0415	0.7881	0.0363	0.8395	0.1152	0.0163	11	-0.45	3%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0456	0.7885	0.0270	0.8395	0.1152	0.0163	11	-0.44	3%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0510	0.8100	0.0200	0.8395	0.1152	0.0163	11	-0.26	2%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0493	0.8450	0.0100	0.8395	0.1152	0.0163	11	0.05	0%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0405	0.8525	0.0090	0.8395	0.1152	0.0163	11	0.11	1%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0450	0.9650	0.0100	0.8395	0.1152	0.0163	11	1.09	7%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0090	0.9700	0.0000	0.8395	0.1152	0.0163	11	1.13	8%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0200	1.000	0.0200	0.8395	0.1152	0.0163	11	1.39	10%	0
008.10	Biuret, Spectrophotometric (as Biuret) (%)	0444	0.8900	0.1000	0.8395	0.1152	0.0163	11	0.44	3%	1
008.99	Biuret, Other (%)	0220	0.7700	0.0400	0.9041	0.1850	0.0239	4	-0.73	7%	0
008.99	Biuret, Other (%)	0356	0.7795	0.0450	0.9041	0.1850	0.0239	4	-0.67	7%	0
008.99	Biuret, Other (%)	0487	0.9000	0.0000	0.9041	0.1850	0.0239	4	-0.02	0%	0
008.99	Biuret, Other (%)	0394	1.167	0.0107	0.9041	0.1850	0.0239	4	1.42	15%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0200	45.76	0.0400	46.10	0.2316	0.1036	11	-1.39	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0114	45.81	0.0500	46.10	0.2316	0.1036	11	-1.21	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0500	45.86	0.0400	46.10	0.2316	0.1036	11	-0.98	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0456	46.03	0.1400	46.10	0.2316	0.1036	11	-0.28	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0371	46.13	0.0200	46.10	0.2316	0.1036	11	0.14	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010.11	Total Nitrogen, Modified Comprehensive (46%)	0416	46.16	0.1900	46.10	0.2316	0.1036	11	0.24	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0510	46.21	0.0300	46.10	0.2316	0.1036	11	0.45	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0090	46.25	0.1300	46.10	0.2316	0.1036	11	0.61	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0513	46.26	0.0600	46.10	0.2316	0.1036	11	0.67	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0309	46.28	0.2900	46.10	0.2316	0.1036	11	0.73	0%	0
010.11	Total Nitrogen, Modified Comprehensive (46%)	0105	46.35	0.1500	46.10	0.2316	0.1036	11	1.02	0%	0
010.12	Total Nitrogen, Salicylic (46%)	0498	45.45	0.1000				2			0
010.12	Total Nitrogen, Salicylic (46%)	0481	45.96	0.2200				2			0
010.60	Total Nitrogen, Combustion (46%)	0444	44.64*	0.3900	46.23	0.3635	0.1875	54	-4.40	2%	0
010.60	Total Nitrogen, Combustion (46%)	0377	44.65*	0.0100	46.23	0.3635	0.1875	54	-4.37	2%	0
010.60	Total Nitrogen, Combustion (46%)	0102	45.33	0.3400	46.23	0.3635	0.1875	54	-2.49	1%	0
010.60	Total Nitrogen, Combustion (46%)	0292	45.36	0.0800	46.23	0.3635	0.1875	54	-2.41	1%	0
010.60	Total Nitrogen, Combustion (46%)	0035	45.47	0.1400	46.23	0.3635	0.1875	54	-2.10	1%	0
010.60	Total Nitrogen, Combustion (46%)	0483	45.49	0.0320	46.23	0.3635	0.1875	54	-2.04	1%	0
010.60	Total Nitrogen, Combustion (46%)	0389	45.60	0.2000	46.23	0.3635	0.1875	54	-1.75	1%	0
010.60	Total Nitrogen, Combustion (46%)	0070	45.82	0.1600	46.23	0.3635	0.1875	54	-1.14	0%	0
010.60	Total Nitrogen, Combustion (46%)	0231	45.87	0.1400	46.23	0.3635	0.1875	54	-1.00	0%	0
010.60	Total Nitrogen, Combustion (46%)	0325	45.95	0.7000	46.23	0.3635	0.1875	54	-0.78	0%	0
010.60	Total Nitrogen, Combustion (46%)	0157	46.00	0.2000	46.23	0.3635	0.1875	54	-0.65	0%	0
010.60	Total Nitrogen, Combustion (46%)	0105	46.01	0.0370	46.23	0.3635	0.1875	54	-0.62	0%	0
010.60	Total Nitrogen, Combustion (46%)	0043	46.02	0.0900	46.23	0.3635	0.1875	54	-0.60	0%	0
010.60	Total Nitrogen, Combustion (46%)	0457	46.02	0.0830	46.23	0.3635	0.1875	54	-0.59	0%	0
010.60	Total Nitrogen, Combustion (46%)	0073	46.03	0.0100	46.23	0.3635	0.1875	54	-0.58	0%	0
010.60	Total Nitrogen, Combustion (46%)	0481	46.07	0.0200	46.23	0.3635	0.1875	54	-0.45	0%	0
010.60	Total Nitrogen, Combustion (46%)	0234	46.09	0.0900	46.23	0.3635	0.1875	54	-0.41	0%	0
010.60	Total Nitrogen, Combustion (46%)	0037	46.11	0.0900	46.23	0.3635	0.1875	54	-0.36	0%	0
010.60	Total Nitrogen, Combustion (46%)	0095	46.11	0.0700	46.23	0.3635	0.1875	54	-0.36	0%	0
010.60	Total Nitrogen, Combustion (46%)	0402	46.11	0.3000	46.23	0.3635	0.1875	54	-0.34	0%	0
010.60	Total Nitrogen, Combustion (46%)	0451	46.15	0.1000	46.23	0.3635	0.1875	54	-0.23	0%	0
010.60	Total Nitrogen, Combustion (46%)	0041	46.19	0.6000	46.23	0.3635	0.1875	54	-0.12	0%	0
010.60	Total Nitrogen, Combustion (46%)	0029	46.20	0.0100	46.23	0.3635	0.1875	54	-0.11	0%	0
010.60	Total Nitrogen, Combustion (46%)	0260	46.20	0.4430	46.23	0.3635	0.1875	54	-0.10	0%	0
010.60	Total Nitrogen, Combustion (46%)	0096	46.20	0.0200	46.23	0.3635	0.1875	54	-0.10	0%	0
010.60	Total Nitrogen, Combustion (46%)	0086	46.20	0.1440	46.23	0.3635	0.1875	54	-0.09	0%	0
010.60	Total Nitrogen, Combustion (46%)	0405	46.21	0.0100	46.23	0.3635	0.1875	54	-0.08	0%	0
010.60	Total Nitrogen, Combustion (46%)	0291	46.23	0.0100	46.23	0.3635	0.1875	54	-0.03	0%	0
010.60	Total Nitrogen, Combustion (46%)	0233	46.23	0.4700	46.23	0.3635	0.1875	54	-0.03	0%	0
010.60	Total Nitrogen, Combustion (46%)	0360	46.27	0.1600	46.23	0.3635	0.1875	54	0.10	0%	0
010.60	Total Nitrogen, Combustion (46%)	0324	46.30	0.0000	46.23	0.3635	0.1875	54	0.18	0%	0
010.60	Total Nitrogen, Combustion (46%)	0452	46.31	0.0100	46.23	0.3635	0.1875	54	0.19	0%	0
010.60	Total Nitrogen, Combustion (46%)	0472	46.37	0.4100	46.23	0.3635	0.1875	54	0.36	0%	0
010.60	Total Nitrogen, Combustion (46%)	0177	46.37	0.2800	46.23	0.3635	0.1875	54	0.37	0%	0
010.60	Total Nitrogen, Combustion (46%)	0042	46.37	0.3400	46.23	0.3635	0.1875	54	0.37	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (46%)	0136	46.39	0.4400	46.23	0.3635	0.1875	54	0.43	0%	0
010.60	Total Nitrogen, Combustion (46%)	0354	46.39	0.0000	46.23	0.3635	0.1875	54	0.43	0%	0
010.60	Total Nitrogen, Combustion (46%)	0034	46.40	0.0800	46.23	0.3635	0.1875	54	0.46	0%	0
010.60	Total Nitrogen, Combustion (46%)	0025	46.41	0.0100	46.23	0.3635	0.1875	54	0.47	0%	0
010.60	Total Nitrogen, Combustion (46%)	0055	46.42	0.2300	46.23	0.3635	0.1875	54	0.50	0%	0
010.60	Total Nitrogen, Combustion (46%)	0023	46.49	0.0690	46.23	0.3635	0.1875	54	0.71	0%	0
010.60	Total Nitrogen, Combustion (46%)	0390	46.50	0.4000	46.23	0.3635	0.1875	54	0.73	0%	0
010.60	Total Nitrogen, Combustion (46%)	0450	46.50	0.0000	46.23	0.3635	0.1875	54	0.73	0%	0
010.60	Total Nitrogen, Combustion (46%)	0482	46.55	0.5000	46.23	0.3635	0.1875	54	0.87	0%	0
010.60	Total Nitrogen, Combustion (46%)	0072	46.56	0.1400	46.23	0.3635	0.1875	54	0.90	0%	0
010.60	Total Nitrogen, Combustion (46%)	0307	46.58	0.0400	46.23	0.3635	0.1875	54	0.95	0%	0
010.60	Total Nitrogen, Combustion (46%)	0007	46.60	0.4000	46.23	0.3635	0.1875	54	1.01	0%	0
010.60	Total Nitrogen, Combustion (46%)	0040	46.60	0.6000	46.23	0.3635	0.1875	54	1.01	0%	0
010.60	Total Nitrogen, Combustion (46%)	0516	46.60	0.0000	46.23	0.3635	0.1875	54	1.01	0%	0
010.60	Total Nitrogen, Combustion (46%)	0422	47.13	0.0720	46.23	0.3635	0.1875	54	2.46	1%	0
010.60	Total Nitrogen, Combustion (46%)	0230	47.30	0.4000	46.23	0.3635	0.1875	54	2.93	1%	0
010.60	Total Nitrogen, Combustion (46%)	0485	47.34	0.1600	46.23	0.3635	0.1875	54	3.04	1%	0
010.60	Total Nitrogen, Combustion (46%)	0368	47.43	0.3070	46.23	0.3635	0.1875	54	3.29	1%	0
010.60	Total Nitrogen, Combustion (46%)	0406	48.09	0.0900	46.23	0.3635	0.1875	54	5.09	2%	0
010.99	Total Nitrogen, Other (46%)	0519	45.60	0.0500	46.06	0.3672	0.0664	11	-1.22	1%	0
010.99	Total Nitrogen, Other (46%)	0487	45.60	0.0000	46.06	0.3672	0.0664	11	-1.20	1%	0
010.99	Total Nitrogen, Other (46%)	0211	45.73	0.2300	46.06	0.3672	0.0664	11	-0.88	0%	0
010.99	Total Nitrogen, Other (46%)	0520	45.83	0.0300	46.06	0.3672	0.0664	11	-0.62	0%	0
010.99	Total Nitrogen, Other (46%)	0420	46.09	0.0700	46.06	0.3672	0.0664	11	0.06	0%	0
010.99	Total Nitrogen, Other (46%)	0506	46.10	0.0000	46.06	0.3672	0.0664	11	0.10	0%	0
010.99	Total Nitrogen, Other (46%)	0508	46.26	0.0200	46.06	0.3672	0.0664	11	0.52	0%	0
010.99	Total Nitrogen, Other (46%)	0493	46.30	0.1000	46.06	0.3672	0.0664	11	0.62	0%	0
010.99	Total Nitrogen, Other (46%)	0513	46.34	0.0500	46.06	0.3672	0.0664	11	0.71	0%	0
010.99	Total Nitrogen, Other (46%)	0027	46.35	0.1000	46.06	0.3672	0.0664	11	0.75	0%	0
010.99	Total Nitrogen, Other (46%)	0220	46.50	0.0800	46.06	0.3672	0.0664	11	1.14	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (%)	0325	0.1000	0.0000				1			0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (%)	0354	0.0160	0.0000				1			0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0354	0.0100	0.0000				1			0
050.99	Soluble Potassium as K2O, Other (%)	0325	0.1000	0.0000				1			0
060.00	Water (Free), Vacuum Oven (%)	0007	0.0400	0.0200	0.1466	0.0810	0.0146	7	-1.23	36%	0
060.00	Water (Free), Vacuum Oven (%)	0405	0.0850	0.0300	0.1466	0.0810	0.0146	7	-0.71	21%	0
060.00	Water (Free), Vacuum Oven (%)	0220	0.1200	0.0200	0.1466	0.0810	0.0146	7	-0.31	9%	0
060.00	Water (Free), Vacuum Oven (%)	0096	0.1600	0.0000	0.1466	0.0810	0.0146	7	0.15	5%	0
060.00	Water (Free), Vacuum Oven (%)	0456	0.1650	0.0100	0.1466	0.0810	0.0146	7	0.21	6%	0
060.00	Water (Free), Vacuum Oven (%)	0416	0.2062	0.0224	0.1466	0.0810	0.0146	7	0.69	20%	0
060.00	Water (Free), Vacuum Oven (%)	0090	0.2500	0.0000	0.1466	0.0810	0.0146	7	1.19	35%	0
060.20	Water (Free), Karl Fischer (%)	0394	0.1500	0.0000	0.2413	0.0924	0.0125	4	-0.99	19%	0
060.20	Water (Free), Karl Fischer (%)	0371	0.2200	0.0200	0.2413	0.0924	0.0125	4	-0.23	4%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
060.20	Water (Free), Karl Fischer (%)	0493	0.2250	0.0100	0.2413	0.0924	0.0125	4	-0.18	3%	0
060.20	Water (Free), Karl Fischer (%)	0200	0.3700	0.0200	0.2413	0.0924	0.0125	4	1.39	27%	0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0506	0.3000	0.0000	0.8963	0.8391	0.0325	4	-0.71	33%	0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0394	0.3100	0.0000	0.8963	0.8391	0.0325	4	-0.70	33%	0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0520	0.8900	0.0000	0.8963	0.8391	0.0325	4	-0.01	0%	0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0481	2.085	0.1300	0.8963	0.8391	0.0325	4	1.42	66%	0
060.99	Water (Free), Other (%)	0510	0.1700	0.0200				2			0
060.99	Water (Free), Other (%)	0513	0.1805	0.0050				2			0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.0275	0.0050				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0354	0.0115	0.0030				1			0
148.99	Total Sulfur, Other (%)	0354	0.0000	0.0000				0			4
151.30	Acid Soluble Arsenic, ICP (ppm)	0519	0.0650	0.0100				1			0
165.30	Acid Soluble Boron, ICP, test portion in 982... (%)	0354	0.0050	0.0000				2			0
165.30	Acid Soluble Boron, ICP, test portion in 982... (%)	0234	1.025	0.0100				2			0
181.30	Acid Soluble Cadmium, ICP (ppm)	0519	0.0100	0.0000				1			0
191.30	Acid Soluble Chromium, ICP (ppm)	0519	1.445	0.0900				1			0
202.30	Acid Soluble Cobalt, ICP (ppm)	0519	0.0100	0.0000				1			0
221.30	Acid Soluble Copper, ICP, test portion inorg... (%)	0354	0.0045	0.0030				2			0
221.30	Acid Soluble Copper, ICP, test portion inorg... (%)	0234	1.890	0.1200				2			0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0354	0.0010	0.0000				1			0
251.30	Acid Soluble Lead, ICP (ppm)	0519	0.0600	0.0000				1			0
261.30	Acid Soluble Manganese, ICP, test portion 97... (%)	0354	0.0000	0.0000				0			4
261.31	Acid Soluble Manganese, ICP, test portion 97... (%)	0234	4.030	0.0200				1			0
281.30	Acid Soluble Mercury, ICP (ppm)	0519	0.0550	0.0100				1			0
289.30	Acid Soluble Molybdenum, ICP (ppm)	0519	0.0850	0.0100				1			0
291.30	Acid Soluble Nickel, ICP (ppm)	0519	0.3150	0.0300				1			0
301.30	Acid Soluble Selenium, ICP (ppm)	0519	0.0100	0.0000				1			0
311.99	Sodium, Other (%)	0354	0.0415	0.0150				1			0
321.30	Acid Soluble Zinc, ICP, test portion inorgan... (%)	0234	20.94	1.920				1			0
321.30	Acid Soluble Zinc, ICP, test portion inorgan... (%)	0354	0.0000	0.0000				1			4

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 extreme outlier and a 4 flag indicates rejected due to 0 value submitted. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an asterisk indicates that the value is lower than the Analyte value less the IA. Method or Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.