

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

### Method Proficiency For All Labs (Lab Values)

Sample # 150111

Grade 18-46-0 (DAP)

### Statistical Summary

Issue Date : 02/28/2015

Method Code	Analyte & Method	Total # Labs Submitting	# Labs 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
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	6	5	17.25	0.2872	17.25		0.2871	0.0908	1.66%		0.0100	2.61%
001.99	Ammoniacal Nitrogen, Other (%)	9	9	17.59	0.4259	17.59		0.4830	0.1138	2.75%		0.0869	2.60%
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	3	3	17.70	0.1769	17.70		0.1769	0.0722	1.00%		0.0833	2.60%
010.11	Total Nitrogen, Modified Comprehensive (18%)	11	11	17.51	0.4109	17.57	0.6961	0.2029	0.0433	1.15%	1.98%	0.0564	2.60%
010.12	Total Nitrogen, Salicylic (18%)	3	3	17.58	0.5061	17.58	0.6961	0.5061	0.2066	2.88%	1.98%	0.1000	2.60%
010.17	Total Nitrogen, Comprehensive (18%)	1		17.95									
010.60	Total Nitrogen, Combustion (18%)	45	44	17.75	0.2505	17.77	0.6961	0.2074	0.0221	1.17%	1.96%	0.0913	2.59%
010.99	Total Nitrogen, Other (18%)	7	7	17.89	0.3389	17.84	0.6961	0.2666	0.0713	1.49%	1.95%	0.0886	2.59%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ... (%)	8	7	46.84	0.4739	46.97		0.1204	0.0322	0.26%		0.0633	2.24%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb... (%)	17	16	46.54	0.5771	46.51		0.4736	0.0837	1.02%		0.2088	2.24%
020.40	Total Phosphorus as P2O5, Automated (%)	6	6	46.67	0.2645	46.69		0.2639	0.0762	0.57%		0.0767	2.24%
020.50	Total Phosphorus as P2O5, ICP (%)	12	12	46.17	0.9533	46.23		0.8166	0.1667	1.77%		0.7227	2.25%
020.99	Total Phosphorus as P2O5, Other (%)	3	3	46.18	0.6904	46.18		0.6904	0.2818	1.50%		0.1400	2.25%
030.20	Citrate Insoluble Phosphorus as P2O5, Spectrophoto... (%)	1		0.0650									
030.40	Citrate Insoluble Phosphorus as P2O5, Automated, t... (%)	1		0.0400									
030.50	Citrate Insoluble Phosphorus as P2O5, ICP, test po... (%)	1		0.0850									
040.20	Indirect Available Phosphorus as P2O5, Spectr... (46%)	1		46.38									
040.40	Indirect Available Phosphorus as P2O5, Automated (46%)	2	2	46.74	0.0601								
040.50	Indirect Available Phosphorus as P2O5, ICP (46%)	1		46.74									
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	8	8	46.60	0.2999	46.65	1.0083	0.2332	0.0583	0.50%	1.08%	0.1353	2.24%
041.20	Direct Available Phosphorus as P2O5, Spectrop... (46%)	3	3	46.96	1.670	46.96	1.0083	1.670	0.6819	3.56%	1.07%	0.4033	2.24%
041.40	Direct Available Phosphorus as P2O5, Automated (46%)	1		46.00									
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	11	11	46.15	1.227	46.24	1.0083	1.172	0.2499	2.54%	1.09%	0.3882	2.25%
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	11	10	46.09	2.151	46.53	1.0083	0.7138	0.1596	1.53%	1.08%	0.3629	2.24%
041.99	Direct Available Phosphorus as P2O5, Other (46%)	3	3	47.14	1.327	47.14	1.0083	1.327	0.5416	2.81%	1.07%	0.1600	2.24%
048.20	Water Soluble Phosphorus as P2O5, Spectrophotometric (%)	2	2	42.69	0.5480								
048.99	Water Soluble Phosphorus as P2O5, Other (%)	1		43.68									
050.30	Soluble Potassium as K2O, AA (%)	1		0.0810									
050.31	Soluble Potassium as K2O, AA (%)	1		0.4100									
050.50	Soluble Potassium as K2O, ICP (%)	2	2	0.2145	0.0347								
050.51	Soluble Potassium as K2O, ICP (%)	4	4	0.2118	0.0422	0.2118	0.4100	0.0422	0.0149	19.92%	96.81%	0.0250	5.05%

Method Code	Analyte & Method	Total # Labs Submitting	# Labs 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
050.60	Soluble Potassium as K2O, Flame Photometric (%)	1		1.750									
050.61	Soluble Potassium as K2O, Flame Photometric (%)	1		0.2300									
050.99	Soluble Potassium as K2O, Other (%)	4	4	0.2163	0.0256	0.2163	0.4100	0.0256	0.0091	11.85%	94.80%	0.0875	5.04%
060.00	Water (%)	4	4	1.291	0.0715	1.291		0.0715	0.0253	5.54%		0.0531	3.85%
060.10	Water (%)	1		1.135									
060.20	Water (%)	1		0.7950									
060.99	Water (%)	1		1.195									
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (%)	1		0.1927									
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	11	10	0.4587	0.0880	0.4407		0.0295	0.0066	6.69%		0.0130	4.52%
101.99	Acid Soluble Calcium, Other (%)	1		0.4500									
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (%)	1		1.130									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (%)	11	11	1.098	0.1041	1.083		0.0408	0.0087	3.77%		0.0199	3.95%
121.99	Acid Soluble Magnesium, Other (%)	1		1.075									
131.70	Water Soluble Magnesium, Titrimetric (%)	1		1.530									
144.01	Sulfur, Gravimetric (%)	1		2.604									
144.02	Sulfur, Gravimetric (%)	1		2.235									
144.70	Sulfur, Spectrometric (%)	1		2.165									
144.99	Sulfur, Other (%)	8	8	2.101	0.0631	2.103		0.0604	0.0151	2.87%		0.0196	3.58%
151.00	Acid Soluble Arsenic , AA, test portion as in 200... (ppm)	3	3	1.645	0.3280	1.645		0.3280	0.1339	19.94%		0.0967	14.84%
151.30	Acid Soluble Arsenic , ICP (ppm)	4	4	2.768	1.286	2.768		1.286	0.4548	46.48%		0.0300	13.72%
165.00	Acid Soluble Boron , Spectrophotometric (%)	1		0.0154									
165.99	Acid Soluble Boron , Other (%)	3	3	0.0222	0.0134	0.0222		0.0134	0.0055	60.37%		0.0010	7.10%
181.00	Acid Soluble Cadmium , AA, test portion as in 200... (ppm)	4	4	21.12	14.26	21.12		14.26	5.042	67.54%		0.4725	10.11%
181.30	Acid Soluble Cadmium , ICP (ppm)	13	12	28.98	4.338	29.44		3.783	0.7721	12.85%		0.3310	9.62%
181.99	Acid Soluble Cadmium , Other (ppm)	1		29.60									
191.00	Acid Soluble Chromium , AA, test portion as in 20... (ppm)	3	3	211.6	48.89	211.6		48.89	19.96	23.10%		8.727	7.15%
191.30	Acid Soluble Chromium , ICP (ppm)	10	10	237.3	13.14	239.7		10.02	2.240	4.18%		6.265	7.01%
202.30	Acid Soluble Cobalt , ICP (ppm)	4	4	1.429	0.5145	1.429		0.5144	0.1819	36.00%		0.0330	15.16%
221.30	Acid Soluble Copper , ICP, test portion inorganic... (%)	4	2	1.758	1.262	1.758		1.262	0.6311	71.82%		0.6650	3.67%
221.99	Acid Soluble Copper , Other (%)	2	2	1.925	0.4596								
241.00	Acid Soluble Iron , AA, inorganic 965.09 (%)	1		0.6190									
241.30	Acid Soluble Iron , ICP, test portion inorganic 965.09 (%)	12	12	0.6304	0.0435	0.6316		0.0336	0.0068	5.31%		0.0082	4.29%
241.99	Acid Soluble Iron , Other (%)	1		0.6055									
251.00	Acid Soluble Lead , AA, test portion as in 2006.0... (ppm)	2	2	2.253	1.771								
251.30	Acid Soluble Lead , ICP (ppm)	3	3	4.633	4.669	4.633		4.669	1.906	100.78%		0.8000	12.70%
261.11	Acid Soluble Manganese , AA, total Mn (%)	1		0.0051									
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	10	9	0.0058	0.0019	0.0055		0.0008	0.0002	15.22%		0.0001	8.75%
261.99	Acid Soluble Manganese , Other (%)	1		0.0049									
281.00	Acid Soluble Mercury , AA (ppm)	1		189.5									
289.00	Acid Soluble Molybdenum , AA, test portion in 200... (ppm)	2	2	4.270	1.138								
289.30	Acid Soluble Molybdenum , ICP (ppm)	7	7	3.739	1.503	3.791		1.583	0.4231	41.77%		0.3229	13.09%
291.00	Acid Soluble Nickel , AA, test portion as in 2006... (ppm)	5	5	21.10	4.954	21.10		4.954	1.567	23.48%		0.8080	10.11%

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291.30	Acid Soluble Nickel , ICP (ppm)	11	11	20.54	3.085	20.88		1.558	0.3322	7.46%		0.5722	10.13%
301.99	Acid Soluble Selenium , Other (ppm)	1		0.0296									
311.30	Sodium, Flame Photometric (%)	1		0.2300									
311.99	Sodium, Other (%)	6	6	0.2238	0.0238	0.2218		0.0226	0.0065	10.18%		0.0043	5.02%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	5	5	0.0427	0.0036	0.0427		0.0036	0.0012	8.53%		0.0011	6.43%
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (%)	17	16	0.0416	0.0073	0.0414		0.0034	0.0006	8.13%		0.0004	6.46%
321.99	Acid Soluble Zinc , Other (%)	2	2	0.0398	0.0003								

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Method Proficiency For All Labs (Lab Values)

Sample # 150111

Grade 18-46-0 (DAP)

### Method Precision Report

Issue Date : 02/28/2015

Method Code	Analyte & Method	Total # Labs Submitting	# Labs Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility SR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method	6	5	17.25	0.2871	0.2870	0.0114	0.2873	1.66%	0.07%	1.67%	25.19
001.99	Ammoniacal Nitrogen, Other	9	9	17.59	0.4259	0.4217	0.0847	0.4301	2.40%	0.48%	2.44%	5.079
010.11	Total Nitrogen, Modified Comprehensive	11	9	17.54	0.2225	0.2204	0.0429	0.2246	1.26%	0.24%	1.28%	5.229
010.60	Total Nitrogen, Combustion	45	43	17.77	0.2114	0.2007	0.0938	0.2216	1.13%	0.53%	1.25%	2.361
010.99	Total Nitrogen, Other	7	6	17.77	0.1703	0.1595	0.0848	0.1806	0.90%	0.48%	1.02%	2.131
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium MolybdoP	8	6	47.01	0.1452	0.1392	0.0585	0.1510	0.30%	0.12%	0.32%	2.583
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP	17	14	46.40	0.4379	0.4296	0.1200	0.4460	0.93%	0.26%	0.96%	3.718
020.40	Total Phosphorus as P2O5, Automated	6	6	46.67	0.2645	0.2606	0.0645	0.2684	0.56%	0.14%	0.58%	4.158
020.50	Total Phosphorus as P2O5, ICP	12	10	46.31	0.7034	0.6796	0.2564	0.7264	1.47%	0.55%	1.57%	2.833
041.10	Direct Available Phosphorus as P2O5, Gravimetric Quinolinium	8	8	46.60	0.2999	0.2886	0.1151	0.3108	0.62%	0.25%	0.67%	2.699
041.50	Direct Available Phosphorus as P2O5, ICP	11	10	46.29	1.197	1.181	0.2739	1.213	2.55%	0.59%	2.62%	4.428
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext.	11	9	46.72	0.8406	0.8260	0.2209	0.8550	1.77%	0.47%	1.83%	3.871
101.30	Acid Soluble Calcium, ICP, test portion inorganic 965.09	11	9	0.4346	0.0464	0.0453	0.0140	0.0474	10.43%	3.22%	10.92%	3.385
121.30	Acid Soluble Magnesium, ICP, test portion inorganic 965.09	11	10	1.073	0.0676	0.0668	0.0151	0.0685	6.22%	1.40%	6.38%	4.543
144.99	Sulfur, Other	8	7	2.103	0.0680	0.0675	0.0118	0.0685	3.21%	0.56%	3.26%	5.792
181.30	Acid Soluble Cadmium , ICP	13	11	29.88	3.137	3.129	0.3219	3.145	10.47%	1.08%	10.52%	9.772
191.30	Acid Soluble Chromium , ICP	10	9	237.6	13.90	13.63	3.820	14.16	5.74%	1.61%	5.96%	3.706
241.30	Acid Soluble Iron , ICP, test portion inorganic 965.09	12	12	0.6304	0.0435	0.0431	0.0075	0.0438	6.84%	1.18%	6.94%	5.871
261.30	Acid Soluble Manganese , ICP, test portion 972.02a	10	8	0.0053	0.0010	0.0010	0.0001	0.0010	19.70%	2.12%	19.81%	9.327
289.30	Acid Soluble Molybdenum , ICP	7	7	3.739	1.503	1.484	0.3300	1.521	39.71%	8.83%	40.68%	4.608
291.30	Acid Soluble Nickel , ICP	11	9	21.50	1.897	1.873	0.4265	1.921	8.71%	1.98%	8.93%	4.503
311.99	Sodium, Other	6	6	0.2238	0.0238	0.0236	0.0042	0.0240	10.56%	1.87%	10.73%	5.740
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09	17	14	0.0417	0.0032	0.0032	0.0005	0.0032	7.65%	1.10%	7.73%	7.041

# magruder fertilizer

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### Method Proficiency For All Labs (Lab Values)

Sample # 150111

### Lab Values

Grade 18-46-0 (DAP)

Issue Date : 02/28/2015

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Labs	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	16.97	0.0000	17.25	0.2871	0.0100	5	-0.97	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0258	17.01	0.0300	17.25	0.2871	0.0100	5	-0.85	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0456	17.17	0.0200	17.25	0.2871	0.0100	5	-0.28	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0090	17.50	0.0000	17.25	0.2871	0.0100	5	0.87	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0416	17.60	0.0000	17.25	0.2871	0.0100	5	1.22	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0169	17.42	0.1800	17.25	0.2871	0.0100	5	0.60	0%	1
001.99	Ammoniacal Nitrogen, Other (%)	0420	17.05	0.0700	17.59	0.4830	0.0869	9	-1.13	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0487	17.14	0.0000	17.59	0.4830	0.0869	9	-0.94	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0027	17.27	0.1700	17.59	0.4830	0.0869	9	-0.68	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0397	17.39	0.0900	17.59	0.4830	0.0869	9	-0.43	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0500	17.50	0.0000	17.59	0.4830	0.0869	9	-0.19	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	17.79	0.0400	17.59	0.4830	0.0869	9	0.41	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0510	17.89	0.0400	17.59	0.4830	0.0869	9	0.62	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0506	18.05	0.1000	17.59	0.4830	0.0869	9	0.95	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0307	18.26	0.2720	17.59	0.4830	0.0869	9	1.39	2%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0090	17.56	0.0800	17.70	0.1769	0.0833	3	-0.80	0%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0444	17.65	0.0700	17.70	0.1769	0.0833	3	-0.32	0%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0497	17.90	0.1000	17.70	0.1769	0.0833	3	1.12	1%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0415	16.58*	0.0000	17.57	0.2029	0.0564	11	-4.90	3%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0309	17.04*	0.0000	17.57	0.2029	0.0564	11	-2.61	2%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0455	17.45	0.1000	17.57	0.2029	0.0564	11	-0.58	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0114	17.49	0.0100	17.57	0.2029	0.0564	11	-0.41	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0211	17.53	0.0300	17.57	0.2029	0.0564	11	-0.22	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0474	17.57	0.0300	17.57	0.2029	0.0564	11	-0.02	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0137	17.57	0.1200	17.57	0.2029	0.0564	11	0.01	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0105	17.68	0.0200	17.57	0.2029	0.0564	11	0.55	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0371	17.72	0.0800	17.57	0.2029	0.0564	11	0.75	0%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0470	17.83	0.0100	17.57	0.2029	0.0564	11	1.26	1%	0
010.11	Total Nitrogen, Modified Comprehensive (18%)	0510	18.15	0.2200	17.57	0.2029	0.0564	11	2.87	2%	0
010.12	Total Nitrogen, Salicylic (18%)	0498	17.00*	0.2000	17.58	0.5061	0.1000	3	-1.15	2%	0
010.12	Total Nitrogen, Salicylic (18%)	0504	17.85	0.0100	17.58	0.5061	0.1000	3	0.52	1%	0
010.12	Total Nitrogen, Salicylic (18%)	0481	17.91	0.0900	17.58	0.5061	0.1000	3	0.64	1%	0
010.17	Total Nitrogen, Comprehensive (18%)	0117	17.95	0.1000			0.1000	1			

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			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (18%)	0102	16.85*	0.1000	17.77	0.2074	0.0913	44	-4.41	3%	0
010.60	Total Nitrogen, Combustion (18%)	0049	17.17	0.0000	17.77	0.2074	0.0913	44	-2.87	2%	0
010.60	Total Nitrogen, Combustion (18%)	0444	17.42	0.0300	17.77	0.2074	0.0913	44	-1.69	1%	0
010.60	Total Nitrogen, Combustion (18%)	0157	17.45	0.1000	17.77	0.2074	0.0913	44	-1.52	1%	0
010.60	Total Nitrogen, Combustion (18%)	0402	17.45	0.3000	17.77	0.2074	0.0913	44	-1.52	1%	0
010.60	Total Nitrogen, Combustion (18%)	0095	17.46	0.3300	17.77	0.2074	0.0913	44	-1.49	1%	0
010.60	Total Nitrogen, Combustion (18%)	0356	17.47	0.0800	17.77	0.2074	0.0913	44	-1.42	1%	0
010.60	Total Nitrogen, Combustion (18%)	0489	17.54	0.0100	17.77	0.2074	0.0913	44	-1.11	1%	0
010.60	Total Nitrogen, Combustion (18%)	0086	17.59	0.2210	17.77	0.2074	0.0913	44	-0.86	1%	0
010.60	Total Nitrogen, Combustion (18%)	0325	17.60	0.0000	17.77	0.2074	0.0913	44	-0.80	0%	0
010.60	Total Nitrogen, Combustion (18%)	0390	17.60	0.2000	17.77	0.2074	0.0913	44	-0.80	0%	0
010.60	Total Nitrogen, Combustion (18%)	0423	17.64	0.1300	17.77	0.2074	0.0913	44	-0.63	0%	0
010.60	Total Nitrogen, Combustion (18%)	0247	17.70	0.0100	17.77	0.2074	0.0913	44	-0.34	0%	0
010.60	Total Nitrogen, Combustion (18%)	0007	17.70	0.0000	17.77	0.2074	0.0913	44	-0.31	0%	0
010.60	Total Nitrogen, Combustion (18%)	0028	17.70	0.1400	17.77	0.2074	0.0913	44	-0.31	0%	0
010.60	Total Nitrogen, Combustion (18%)	0443	17.70	0.0000	17.77	0.2074	0.0913	44	-0.31	0%	0
010.60	Total Nitrogen, Combustion (18%)	0405	17.71	0.0700	17.77	0.2074	0.0913	44	-0.29	0%	0
010.60	Total Nitrogen, Combustion (18%)	0043	17.74	0.0300	17.77	0.2074	0.0913	44	-0.14	0%	0
010.60	Total Nitrogen, Combustion (18%)	0105	17.75	0.0100	17.77	0.2074	0.0913	44	-0.10	0%	0
010.60	Total Nitrogen, Combustion (18%)	0482	17.75	0.3000	17.77	0.2074	0.0913	44	-0.07	0%	0
010.60	Total Nitrogen, Combustion (18%)	0377	17.76	0.1800	17.77	0.2074	0.0913	44	-0.02	0%	0
010.60	Total Nitrogen, Combustion (18%)	0292	17.79	0.0100	17.77	0.2074	0.0913	44	0.10	0%	0
010.60	Total Nitrogen, Combustion (18%)	0035	17.79	0.0400	17.77	0.2074	0.0913	44	0.12	0%	0
010.60	Total Nitrogen, Combustion (18%)	0230	17.80	0.2000	17.77	0.2074	0.0913	44	0.17	0%	0
010.60	Total Nitrogen, Combustion (18%)	0324	17.80	0.2000	17.77	0.2074	0.0913	44	0.17	0%	0
010.60	Total Nitrogen, Combustion (18%)	0494	17.81	0.0400	17.77	0.2074	0.0913	44	0.22	0%	0
010.60	Total Nitrogen, Combustion (18%)	0233	17.82	0.0200	17.77	0.2074	0.0913	44	0.27	0%	0
010.60	Total Nitrogen, Combustion (18%)	0360	17.83	0.0600	17.77	0.2074	0.0913	44	0.31	0%	0
010.60	Total Nitrogen, Combustion (18%)	0483	17.84	0.0100	17.77	0.2074	0.0913	44	0.34	0%	0
010.60	Total Nitrogen, Combustion (18%)	0096	17.84	0.0200	17.77	0.2074	0.0913	44	0.36	0%	0
010.60	Total Nitrogen, Combustion (18%)	0451	17.85	0.2200	17.77	0.2074	0.0913	44	0.41	0%	0
010.60	Total Nitrogen, Combustion (18%)	0368	17.88	0.0600	17.77	0.2074	0.0913	44	0.55	0%	0
010.60	Total Nitrogen, Combustion (18%)	0029	17.90	0.2800	17.77	0.2074	0.0913	44	0.65	0%	0
010.60	Total Nitrogen, Combustion (18%)	0291	17.92	0.0100	17.77	0.2074	0.0913	44	0.72	0%	0
010.60	Total Nitrogen, Combustion (18%)	0023	17.94	0.0080	17.77	0.2074	0.0913	44	0.85	0%	0
010.60	Total Nitrogen, Combustion (18%)	0452	17.95	0.0100	17.77	0.2074	0.0913	44	0.87	1%	0
010.60	Total Nitrogen, Combustion (18%)	0040	17.95	0.1000	17.77	0.2074	0.0913	44	0.89	1%	0
010.60	Total Nitrogen, Combustion (18%)	0025	17.96	0.0500	17.77	0.2074	0.0913	44	0.92	1%	0
010.60	Total Nitrogen, Combustion (18%)	0485	17.99	0.1100	17.77	0.2074	0.0913	44	1.06	1%	0
010.60	Total Nitrogen, Combustion (18%)	0354	18.03	0.1930	17.77	0.2074	0.0913	44	1.27	1%	0
010.60	Total Nitrogen, Combustion (18%)	0055	18.04	0.0100	17.77	0.2074	0.0913	44	1.30	1%	0
010.60	Total Nitrogen, Combustion (18%)	0136	18.04	0.0300	17.77	0.2074	0.0913	44	1.30	1%	0
010.60	Total Nitrogen, Combustion (18%)	0472	18.17	0.0200	17.77	0.2074	0.0913	44	1.95	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Labs	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (18%)	0351	18.21	0.0740	17.77	0.2074	0.0913	44	2.13	1%	0
010.60	Total Nitrogen, Combustion (18%)	0162	18.19	0.5720	17.77	0.2074	0.0913	44	2.04	1%	1
010.99	Total Nitrogen, Other (18%)	0420	17.59	0.1100	17.84	0.2666	0.0886	7	-0.96	1%	0
010.99	Total Nitrogen, Other (18%)	0500	17.60	0.0000	17.84	0.2666	0.0886	7	-0.90	1%	0
010.99	Total Nitrogen, Other (18%)	0300	17.79	0.2100	17.84	0.2666	0.0886	7	-0.21	0%	0
010.99	Total Nitrogen, Other (18%)	0493	17.80	0.1000	17.84	0.2666	0.0886	7	-0.15	0%	0
010.99	Total Nitrogen, Other (18%)	0504	17.82	0.1000	17.84	0.2666	0.0886	7	-0.07	0%	0
010.99	Total Nitrogen, Other (18%)	0506	18.05	0.1000	17.84	0.2666	0.0886	7	0.79	1%	0
010.99	Total Nitrogen, Other (18%)	0487	18.57	0.0000	17.84	0.2666	0.0886	7	2.74	2%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0322	45.80	0.0230	46.97	0.1204	0.0633	7	-9.70	1%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0470	46.81	0.0100	46.97	0.1204	0.0633	7	-1.39	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	46.95	0.1000	46.97	0.1204	0.0633	7	-0.18	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0090	46.99	0.1300	46.97	0.1204	0.0633	7	0.11	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0211	47.01	0.0200	46.97	0.1204	0.0633	7	0.31	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	47.05	0.0600	46.97	0.1204	0.0633	7	0.65	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	47.25	0.1000	46.97	0.1204	0.0633	7	2.31	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	46.58	0.3600	46.97	0.1204	0.0633	7	-3.26	0%	1
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	45.41	0.0000	46.51	0.4736	0.2088	16	-2.33	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0420	45.83	0.1300	46.51	0.4736	0.2088	16	-1.45	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0371	46.03	0.0700	46.51	0.4736	0.2088	16	-1.03	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0481	46.25	0.3000	46.51	0.4736	0.2088	16	-0.56	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0474	46.28	0.2500	46.51	0.4736	0.2088	16	-0.50	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	46.34	0.0100	46.51	0.4736	0.2088	16	-0.38	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0405	46.46	0.0400	46.51	0.4736	0.2088	16	-0.11	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0510	46.48	0.0800	46.51	0.4736	0.2088	16	-0.07	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0506	46.50	0.2000	46.51	0.4736	0.2088	16	-0.03	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	46.56	0.0800	46.51	0.4736	0.2088	16	0.10	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	46.70	0.4000	46.51	0.4736	0.2088	16	0.39	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0416	46.85	0.1000	46.51	0.4736	0.2088	16	0.71	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0489	46.92	0.0400	46.51	0.4736	0.2088	16	0.86	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	47.03	0.0500	46.51	0.4736	0.2088	16	1.08	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0497	47.04	0.9900	46.51	0.4736	0.2088	16	1.10	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	47.95	0.6000	46.51	0.4736	0.2088	16	3.03	2%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0258	46.99	1.550	46.51	0.4736	0.2088	16	1.00	1%	1
020.40	Total Phosphorus as P2O5, Automated (%)	0035	46.30	0.0600	46.69	0.2639	0.0767	6	-1.46	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0456	46.38	0.0900	46.69	0.2639	0.0767	6	-1.18	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	46.74	0.0900	46.69	0.2639	0.0767	6	0.19	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0470	46.77	0.0300	46.69	0.2639	0.0767	6	0.30	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	46.91	0.1700	46.69	0.2639	0.0767	6	0.83	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0247	46.91	0.0200	46.69	0.2639	0.0767	6	0.85	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0390	44.00	2.800	46.23	0.8166	0.7227	12	-2.73	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	45.16	0.3000	46.23	0.8166	0.7227	12	-1.31	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	45.85	0.1000	46.23	0.8166	0.7227	12	-0.47	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Labs	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020.50	Total Phosphorus as P2O5, ICP (%)	0025	45.90	0.2000	46.23	0.8166	0.7227	12	-0.41	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	46.03	0.2200	46.23	0.8166	0.7227	12	-0.25	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0307	46.09	0.8520	46.23	0.8166	0.7227	12	-0.18	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	46.22	0.5900	46.23	0.8166	0.7227	12	-0.02	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	46.22	0.1300	46.23	0.8166	0.7227	12	-0.02	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0247	46.82	0.0800	46.23	0.8166	0.7227	12	0.72	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	46.98	3.210	46.23	0.8166	0.7227	12	0.91	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	47.37	0.1700	46.23	0.8166	0.7227	12	1.39	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0291	47.42	0.0200	46.23	0.8166	0.7227	12	1.45	1%	0
020.99	Total Phosphorus as P2O5, Other (%)	0455	45.38	0.1600	46.18	0.6904	0.1400	3	-1.15	1%	0
020.99	Total Phosphorus as P2O5, Other (%)	0487	46.55	0.0600	46.18	0.6904	0.1400	3	0.54	0%	0
020.99	Total Phosphorus as P2O5, Other (%)	0500	46.60	0.2000	46.18	0.6904	0.1400	3	0.61	0%	0
030.20	Citrate Insoluble Phosphorus as P2O5, Spectro... (%)	0405	0.0650	0.0100			0.0100	1			
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.0400	0.0200			0.0200	1			
030.50	Citrate Insoluble Phosphorus as P2O5, ICP, te... (%)	0247	0.0850	0.0100			0.0100	1			
040.20	Indirect Available Phosphorus as P2O5, Spectr... (46%)	0405	46.38	0.0700			0.0700	1			
040.40	Indirect Available Phosphorus as P2O5, Automa... (46%)	0096	46.70	0.1100	46.74	0.0601	0.0650	2	-0.71	0%	0
040.40	Indirect Available Phosphorus as P2O5, Automa... (46%)	0247	46.78	0.0200	46.74	0.0601	0.0650	2	0.71	0%	0
040.50	Indirect Available Phosphorus as P2O5, ICP (46%)	0247	46.74	0.0700			0.0700	1			
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0055	46.01	0.0100	46.65	0.2332	0.1353	8	-2.75	1%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0049	46.42	0.2700	46.65	0.2332	0.1353	8	-0.99	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0185	46.53	0.2300	46.65	0.2332	0.1353	8	-0.52	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0086	46.62	0.1220	46.65	0.2332	0.1353	8	-0.11	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0041	46.72	0.1200	46.65	0.2332	0.1353	8	0.32	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0105	46.75	0.1300	46.65	0.2332	0.1353	8	0.43	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0040	46.80	0.2000	46.65	0.2332	0.1353	8	0.66	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (46%)	0102	47.00	0.0000	46.65	0.2332	0.1353	8	1.52	0%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (46%)	0504	45.03*	0.1200	46.96	1.670	0.4033	3	-1.15	2%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (46%)	0027	47.90	0.5900	46.96	1.670	0.4033	3	0.56	1%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (46%)	0498	47.95	0.5000	46.96	1.670	0.4033	3	0.59	1%	0
041.40	Direct Available Phosphorus as P2O5, Automate... (46%)	0095	46.00	0.0900			0.0900	1			
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0368	43.58*	0.3300	46.24	1.172	0.3882	11	-2.28	3%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0325	44.75*	1.500	46.24	1.172	0.3882	11	-1.27	2%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0007	45.45*	0.9000	46.24	1.172	0.3882	11	-0.68	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0043	45.62	0.1400	46.24	1.172	0.3882	11	-0.53	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0360	46.29	0.6500	46.24	1.172	0.3882	11	0.04	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0055	46.43	0.1300	46.24	1.172	0.3882	11	0.16	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0137	46.54	0.1700	46.24	1.172	0.3882	11	0.25	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0377	46.60	0.2000	46.24	1.172	0.3882	11	0.31	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0452	47.24	0.0200	46.24	1.172	0.3882	11	0.85	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0023	47.53	0.0000	46.24	1.172	0.3882	11	1.10	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (46%)	0423	47.62	0.2300	46.24	1.172	0.3882	11	1.17	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (46%)	0472	40.40*	1.600	46.53	0.7138	0.3629	10	-8.59	7%	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Labs	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0354	45.69	0.0110	46.53	0.7138	0.3629	10	-1.17	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0397	45.81	0.0900	46.53	0.7138	0.3629	10	-1.02	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0043	46.26	0.1200	46.53	0.7138	0.3629	10	-0.38	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0029	46.62	0.6300	46.53	0.7138	0.3629	10	0.12	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0105	46.69	0.0500	46.53	0.7138	0.3629	10	0.21	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0485	46.84	0.2100	46.53	0.7138	0.3629	10	0.42	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0117	47.00	0.2000	46.53	0.7138	0.3629	10	0.66	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0136	47.08	0.1200	46.53	0.7138	0.3629	10	0.77	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0034	48.54	0.5980	46.53	0.7138	0.3629	10	2.82	2%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (46%)	0494	51.63	10.09	46.53	0.7138	0.3629	10	7.14	5%	1
041.99	Direct Available Phosphorus as P2O5, Other (46%)	0506	46.15	0.1000	47.14	1.327	0.1600	3	-0.75	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (46%)	0105	46.63	0.2800	47.14	1.327	0.1600	3	-0.39	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (46%)	0230	48.65	0.1000	47.14	1.327	0.1600	3	1.14	2%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0420	42.30	0.3800	42.69	0.5480	0.2050	2	-0.71	0%	0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0096	43.08	0.0300	42.69	0.5480	0.2050	2	0.71	0%	0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0247	43.68	0.0400			0.0400	1			
050.30	Soluble Potassium as K2O, AA (Oxalate) (%)	0185	0.0810	0.1380			0.1380	1			
050.31	Soluble Potassium as K2O, AA (Citrate) (%)	0472	0.4100	0.0400			0.0400	1			
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	0292	0.1900	0.0000	0.2145	0.0346	0.0000	2	-0.71	6%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (%)	0420	0.2390	0.0000	0.2145	0.0346	0.0000	2	0.71	6%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0096	0.1900	0.0000	0.2118	0.0422	0.0250	4	-0.52	5%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0389	0.1900	0.0060	0.2118	0.0422	0.0250	4	-0.52	5%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0354	0.1920	0.0440	0.2118	0.0422	0.0250	4	-0.47	5%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0377	0.2750	0.0500	0.2118	0.0422	0.0250	4	1.50	15%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (%))	0510	1.750	0.1600			0.1600	1			
050.61	Soluble Potassium as K2O, Flame Photometric (... (%))	0105	0.2300	0.0600			0.0600	1			
050.99	Soluble Potassium as K2O, Other (%)	0474	0.1900	0.0000	0.2163	0.0256	0.0875	4	-1.02	6%	0
050.99	Soluble Potassium as K2O, Other (%)	0482	0.2000	0.0400	0.2163	0.0256	0.0875	4	-0.63	4%	0
050.99	Soluble Potassium as K2O, Other (%)	0325	0.2300	0.2200	0.2163	0.0256	0.0875	4	0.54	3%	0
050.99	Soluble Potassium as K2O, Other (%)	0105	0.2450	0.0900	0.2163	0.0256	0.0875	4	1.12	7%	0
060.00	Water (Free), Vacuum Oven (%)	0247	1.210	0.0000	1.291	0.0715	0.0531	4	-1.13	3%	0
060.00	Water (Free), Vacuum Oven (%)	0456	1.260	0.0200	1.291	0.0715	0.0531	4	-0.43	1%	0
060.00	Water (Free), Vacuum Oven (%)	0416	1.319	0.0023	1.291	0.0715	0.0531	4	0.39	1%	0
060.00	Water (Free), Vacuum Oven (%)	0096	1.375	0.1900	1.291	0.0715	0.0531	4	1.18	3%	0
060.10	Water (Free), Vacuum Desiccation (%)	0510	1.135	0.0300			0.0300	1			
060.20	Water (Free), Karl Fischer (%)	0504	0.7950	0.0100			0.0100	1			
060.99	Water (Free), Other (%)	0504	1.195	0.0100			0.0100	1			
101.00	Acid Soluble Calcium, AA, inorganic 965.09 (%)	0105	0.1927	0.0066			0.0066	1			
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0474	0.3400	0.0400	0.4407	0.0295	0.0130	10	-3.42	11%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0389	0.4200	0.0000	0.4407	0.0295	0.0130	10	-0.70	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0102	0.4205	0.0010	0.4407	0.0295	0.0130	10	-0.69	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.4250	0.0100	0.4407	0.0295	0.0130	10	-0.53	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.4360	0.0040	0.4407	0.0295	0.0130	10	-0.16	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Labs	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0472	0.4400	0.0400	0.4407	0.0295	0.0130	10	-0.03	0%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0390	0.4550	0.0080	0.4407	0.0295	0.0130	10	0.48	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0420	0.4575	0.0030	0.4407	0.0295	0.0130	10	0.57	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	0.5170	0.0120	0.4407	0.0295	0.0130	10	2.59	9%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0025	0.6760	0.0120	0.4407	0.0295	0.0130	10	7.98	27%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0041	0.5550	0.1700	0.4407	0.0295	0.0130	10	3.88	13%	1
101.99	Acid Soluble Calcium, Other (%)	0247	0.4500	0.0000			0.0000	1			
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (%)	0105	1.130	0.0110			0.0110	1			
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0354	0.9435	0.0150	1.083	0.0408	0.0199	11	-3.42	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0474	1.010	0.0000	1.083	0.0408	0.0199	11	-1.79	3%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0420	1.050	0.0200	1.083	0.0408	0.0199	11	-0.81	2%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0102	1.062	0.0040	1.083	0.0408	0.0199	11	-0.51	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0096	1.075	0.0100	1.083	0.0408	0.0199	11	-0.19	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0390	1.085	0.0300	1.083	0.0408	0.0199	11	0.05	0%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0035	1.100	0.0200	1.083	0.0408	0.0199	11	0.42	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0247	1.100	0.0000	1.083	0.0408	0.0199	11	0.42	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0482	1.100	0.0400	1.083	0.0408	0.0199	11	0.42	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0041	1.205	0.0300	1.083	0.0408	0.0199	11	2.99	6%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0472	1.345	0.0500	1.083	0.0408	0.0199	11	6.42	12%	0
121.99	Acid Soluble Magnesium, Other (%)	0105	1.075	0.0200			0.0200	1			
131.70	Water Soluble Magnesium, Titrimetric (EDTA) (%)	0510	1.530	0.0800			0.0800	1			
144.01	Sulfur, Gravimetric (%)	0233	2.604	0.0010			0.0010	1			
144.02	Sulfur, Gravimetric (%)	0292	2.235	0.0100			0.0100	1			
144.70	Sulfur, Spectrometric (%)	0474	2.165	0.0100			0.0100	1			
144.99	Sulfur, Other (Identify) (%)	0354	1.985	0.0060	2.103	0.0604	0.0196	8	-1.95	3%	0
144.99	Sulfur, Other (Identify) (%)	0096	2.070	0.0200	2.103	0.0604	0.0196	8	-0.54	1%	0
144.99	Sulfur, Other (Identify) (%)	0482	2.075	0.0300	2.103	0.0604	0.0196	8	-0.46	1%	0
144.99	Sulfur, Other (Identify) (%)	0389	2.090	0.0600	2.103	0.0604	0.0196	8	-0.21	0%	0
144.99	Sulfur, Other (Identify) (%)	0390	2.100	0.0000	2.103	0.0604	0.0196	8	-0.05	0%	0
144.99	Sulfur, Other (Identify) (%)	0102	2.144	0.0110	2.103	0.0604	0.0196	8	0.67	1%	0
144.99	Sulfur, Other (Identify) (%)	0247	2.155	0.0100	2.103	0.0604	0.0196	8	0.86	1%	0
144.99	Sulfur, Other (Identify) (%)	0472	2.190	0.0200	2.103	0.0604	0.0196	8	1.44	2%	0
151.00	Acid Soluble Arsenic , AA, test portion as i... (ppm)	0025	1.375	0.0100	1.645	0.3280	0.0967	3	-0.82	8%	0
151.00	Acid Soluble Arsenic , AA, test portion as i... (ppm)	0136	1.550	0.1000	1.645	0.3280	0.0967	3	-0.29	3%	0
151.00	Acid Soluble Arsenic , AA, test portion as i... (ppm)	0498	2.010	0.1800	1.645	0.3280	0.0967	3	1.11	11%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	1.400	0.0000	2.768	1.286	0.0300	4	-1.06	25%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0368	1.950	0.1000	2.768	1.286	0.0300	4	-0.64	15%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0230	3.720	0.0200	2.768	1.286	0.0300	4	0.74	17%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0474	4.000	0.0000	2.768	1.286	0.0300	4	0.96	22%	0
165.00	Acid Soluble Boron , Spectrophotometric (%)	0105	0.0154	0.0015			0.0015	1			
165.99	Acid Soluble Boron , Other (%)	0482	0.0100	0.0000	0.0222	0.0134	0.0010	3	-0.91	27%	0
165.99	Acid Soluble Boron , Other (%)	0389	0.0200	0.0020	0.0222	0.0134	0.0010	3	-0.16	5%	0
165.99	Acid Soluble Boron , Other (%)	0354	0.0365	0.0010	0.0222	0.0134	0.0010	3	1.07	32%	0

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181.00	Acid Soluble Cadmium , AA, test portion as i...	0498	0.2900	0.0800	21.12	14.26	0.4725	4	-1.46	49%	0
181.00	Acid Soluble Cadmium , AA, test portion as i...	0506	23.45	0.1000	21.12	14.26	0.4725	4	0.16	6%	0
181.00	Acid Soluble Cadmium , AA, test portion as i...	0136	30.20	0.4000	21.12	14.26	0.4725	4	0.64	22%	0
181.00	Acid Soluble Cadmium , AA, test portion as i...	0504	30.53	1.310	21.12	14.26	0.4725	4	0.66	22%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0096	19.00	0.4000	29.44	3.783	0.3310	12	-2.76	18%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0481	25.05	0.1000	29.44	3.783	0.3310	12	-1.16	7%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0444	25.66	0.0800	29.44	3.783	0.3310	12	-1.00	6%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0230	27.00	0.6000	29.44	3.783	0.3310	12	-0.64	4%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0035	28.30	0.6000	29.44	3.783	0.3310	12	-0.30	2%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0009	30.00	0.0000	29.44	3.783	0.3310	12	0.15	1%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0095	30.50	1.000	29.44	3.783	0.3310	12	0.28	2%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0474	31.00	0.0000	29.44	3.783	0.3310	12	0.41	3%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0368	31.15	0.3000	29.44	3.783	0.3310	12	0.45	3%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0102	31.50	0.1420	29.44	3.783	0.3310	12	0.54	3%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0247	33.35	0.1000	29.44	3.783	0.3310	12	1.03	7%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0117	35.23	0.6500	29.44	3.783	0.3310	12	1.53	10%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0482	31.05	2.700	29.44	3.783	0.3310	12	0.43	3%	1
181.99	Acid Soluble Cadmium , Other (ppm)	0487	29.60	0.0000			0.0000	1			
191.00	Acid Soluble Chromium , AA, test portion as ...	0506	155.5	1.000	211.6	48.89	8.727	3	-1.15	13%	0
191.00	Acid Soluble Chromium , AA, test portion as ...	0504	234.3	15.18	211.6	48.89	8.727	3	0.46	5%	0
191.00	Acid Soluble Chromium , AA, test portion as ...	0481	245.0	10.00	211.6	48.89	8.727	3	0.68	8%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	211.5	7.000	239.7	10.02	6.265	10	-2.81	6%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0230	218.5	5.000	239.7	10.02	6.265	10	-2.11	4%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	234.5	19.00	239.7	10.02	6.265	10	-0.52	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0009	235.0	10.00	239.7	10.02	6.265	10	-0.47	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0247	237.5	3.000	239.7	10.02	6.265	10	-0.22	0%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0102	243.7	1.646	239.7	10.02	6.265	10	0.41	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0368	246.0	4.000	239.7	10.02	6.265	10	0.63	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0474	247.0	4.000	239.7	10.02	6.265	10	0.73	2%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	249.5	3.000	239.7	10.02	6.265	10	0.98	2%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	250.0	6.000	239.7	10.02	6.265	10	1.03	2%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0368	0.7500	0.1000	1.429	0.5144	0.0330	4	-1.32	24%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	1.460	0.0200	1.429	0.5144	0.0330	4	0.06	1%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0102	1.506	0.0120	1.429	0.5144	0.0330	4	0.15	3%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0474	2.000	0.0000	1.429	0.5144	0.0330	4	1.11	20%	0
221.30	Acid Soluble Copper , ICP, test portion inor...	0433	0.8650	0.0300	1.758	1.262	0.6650	2	-0.71	25%	0
221.30	Acid Soluble Copper , ICP, test portion inor...	0368	2.650	1.300	1.758	1.262	0.6650	2	0.71	25%	0
221.30	Acid Soluble Copper , ICP, test portion inor...	0354	0.0000	0.0000	1.758	1.262	0.6650	2	-1.39	50%	4
221.30	Acid Soluble Copper , ICP, test portion inor...	0041	0.0001	0.0002	1.758	1.262	0.6650	2	-1.39	50%	4
221.99	Acid Soluble Copper , Other (%)	0487	1.600	0.0000	1.925	0.4596	0.2500	2	-0.71	8%	0
221.99	Acid Soluble Copper , Other (%)	0506	2.250	0.5000	1.925	0.4596	0.2500	2	0.71	8%	0
241.00	Acid Soluble Iron , AA, inorganic 965.09 (%)	0105	0.6190	0.0060			0.0060	1			
241.30	Acid Soluble Iron , ICP, test portion inorgan...	0354	0.5365	0.0030	0.6316	0.0336	0.0082	12	-2.83	8%	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0474	0.6000	0.0000	0.6316	0.0336	0.0082	12	-0.94	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0096	0.6050	0.0100	0.6316	0.0336	0.0082	12	-0.79	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0247	0.6050	0.0100	0.6316	0.0336	0.0082	12	-0.79	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0390	0.6190	0.0060	0.6316	0.0336	0.0082	12	-0.37	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0102	0.6320	0.0080	0.6316	0.0336	0.0082	12	0.01	0%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0389	0.6385	0.0050	0.6316	0.0336	0.0082	12	0.21	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0482	0.6400	0.0000	0.6316	0.0336	0.0082	12	0.25	1%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0035	0.6570	0.0200	0.6316	0.0336	0.0082	12	0.76	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0041	0.6570	0.0140	0.6316	0.0336	0.0082	12	0.76	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0472	0.6600	0.0200	0.6316	0.0336	0.0082	12	0.85	2%	0
241.30	Acid Soluble Iron , ICP, test portion inorgan... (%)	0420	0.7150	0.0020	0.6316	0.0336	0.0082	12	2.49	7%	0
241.99	Acid Soluble Iron , Other (%)	0105	0.6055	0.0110			0.0110	1			
251.00	Acid Soluble Lead , AA, test portion as in 2... (ppm)	0136	1.000	0.2000	2.253	1.771	0.1050	2	-0.71	28%	0
251.00	Acid Soluble Lead , AA, test portion as in 2... (ppm)	0506	3.505	0.0100	2.253	1.771	0.1050	2	0.71	28%	0
251.30	Acid Soluble Lead , ICP (ppm)	0474	1.000	0.0000	4.633	4.669	0.8000	3	-0.78	39%	0
251.30	Acid Soluble Lead , ICP (ppm)	0095	3.000	0.0000	4.633	4.669	0.8000	3	-0.35	18%	0
251.30	Acid Soluble Lead , ICP (ppm)	0247	9.900	2.400	4.633	4.669	0.8000	3	1.13	57%	0
261.11	Acid Soluble Manganese , AA, total Mn (%)	0105	0.0051	0.0003			0.0003	1			
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0096	0.0033	0.0001	0.0055	0.0008	0.0001	9	-2.67	20%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0009	0.0050	0.0001	0.0055	0.0008	0.0001	9	-0.66	5%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0102	0.0050	0.0000	0.0055	0.0008	0.0001	9	-0.60	5%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0389	0.0051	0.0000	0.0055	0.0008	0.0001	9	-0.48	4%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0474	0.0054	0.0002	0.0055	0.0008	0.0001	9	-0.13	1%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0035	0.0055	0.0000	0.0055	0.0008	0.0001	9	-0.01	0%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0247	0.0065	0.0003	0.0055	0.0008	0.0001	9	1.24	9%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0041	0.0066	0.0002	0.0055	0.0008	0.0001	9	1.31	10%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0482	0.0100	0.0000	0.0055	0.0008	0.0001	9	5.36	41%	0
261.30	Acid Soluble Manganese , ICP, test portion 9... (%)	0354	0.0000	0.0000	0.0055	0.0008	0.0001	9	-6.57	50%	4
261.99	Acid Soluble Manganese , Other (%)	0105	0.0049	0.0004			0.0004	1			
281.00	Acid Soluble Mercury , AA (ppm)	0506	189.5	1.000			1.000	1			
289.00	Acid Soluble Molybdenum , AA, test portion i... (ppm)	0498	3.465	0.2700	4.270	1.138	0.3100	2	-0.71	9%	0
289.00	Acid Soluble Molybdenum , AA, test portion i... (ppm)	0506	5.075	0.3500	4.270	1.138	0.3100	2	0.71	9%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0368	1.050	0.1000	3.791	1.583	0.3229	7	-1.73	36%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0096	2.650	0.1000	3.791	1.583	0.3229	7	-0.72	15%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0230	3.515	0.1500	3.791	1.583	0.3229	7	-0.17	4%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0474	4.000	0.0000	3.791	1.583	0.3229	7	0.13	3%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0095	4.500	1.000	3.791	1.583	0.3229	7	0.45	9%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0433	5.185	0.2700	3.791	1.583	0.3229	7	0.88	18%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0035	5.270	0.6400	3.791	1.583	0.3229	7	0.93	20%	0
291.00	Acid Soluble Nickel , AA, test portion as in... (ppm)	0481	17.00	2.000	21.10	4.954	0.8080	5	-0.83	10%	0
291.00	Acid Soluble Nickel , AA, test portion as in... (ppm)	0498	17.25	0.1000	21.10	4.954	0.8080	5	-0.78	9%	0
291.00	Acid Soluble Nickel , AA, test portion as in... (ppm)	0136	19.95	0.3000	21.10	4.954	0.8080	5	-0.23	3%	0
291.00	Acid Soluble Nickel , AA, test portion as in... (ppm)	0504	22.20	1.440	21.10	4.954	0.8080	5	0.22	3%	0

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291.00	Acid Soluble Nickel , AA, test portion as in... (ppm)	0506	29.10	0.2000	21.10	4.954	0.8080	5	1.61	19%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	13.00	0.0000	20.88	1.558	0.5722	11	-5.05	19%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0230	18.55	0.7000	20.88	1.558	0.5722	11	-1.49	6%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0482	19.45	2.100	20.88	1.558	0.5722	11	-0.92	3%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0102	20.81	0.2140	20.88	1.558	0.5722	11	-0.04	0%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0247	20.85	0.9000	20.88	1.558	0.5722	11	-0.02	0%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0009	21.00	0.0000	20.88	1.558	0.5722	11	0.08	0%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0474	21.00	0.0000	20.88	1.558	0.5722	11	0.08	0%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0368	21.20	0.2000	20.88	1.558	0.5722	11	0.21	1%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0035	21.95	0.9000	20.88	1.558	0.5722	11	0.69	3%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0095	22.50	1.000	20.88	1.558	0.5722	11	1.04	4%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	25.67	0.2800	20.88	1.558	0.5722	11	3.08	11%	0
301.99	Acid Soluble Selenium , Other (ppm)	0485	0.0296	0.0005			0.0005	1			
311.30	Sodium, Flame Photometric (%)	0510	0.2300	0.0000			0.0000	1			
311.99	Sodium, Other (%)	0474	0.2000	0.0000	0.2218	0.0226	0.0043	6	-0.97	5%	0
311.99	Sodium, Other (%)	0482	0.2050	0.0100	0.2218	0.0226	0.0043	6	-0.75	4%	0
311.99	Sodium, Other (%)	0102	0.2160	0.0020	0.2218	0.0226	0.0043	6	-0.26	1%	0
311.99	Sodium, Other (%)	0096	0.2200	0.0000	0.2218	0.0226	0.0043	6	-0.08	0%	0
311.99	Sodium, Other (%)	0035	0.2375	0.0090	0.2218	0.0226	0.0043	6	0.69	4%	0
311.99	Sodium, Other (%)	0354	0.2645	0.0050	0.2218	0.0226	0.0043	6	1.89	10%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0498	0.0385	0.0010	0.0427	0.0036	0.0011	5	-1.14	5%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0105	0.0401	0.0010	0.0427	0.0036	0.0011	5	-0.70	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0043	0.0422	0.0004	0.0427	0.0036	0.0011	5	-0.13	1%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0504	0.0450	0.0020	0.0427	0.0036	0.0011	5	0.64	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0481	0.0475	0.0010	0.0427	0.0036	0.0011	5	1.33	6%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0027	0.0230	0.0000	0.0414	0.0034	0.0004	16	-5.47	22%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0230	0.0364	0.0009	0.0414	0.0034	0.0004	16	-1.51	6%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0009	0.0390	0.0000	0.0414	0.0034	0.0004	16	-0.72	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0354	0.0390	0.0000	0.0414	0.0034	0.0004	16	-0.72	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0095	0.0400	0.0000	0.0414	0.0034	0.0004	16	-0.43	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0482	0.0400	0.0000	0.0414	0.0034	0.0004	16	-0.43	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0474	0.0406	0.0002	0.0414	0.0034	0.0004	16	-0.25	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0102	0.0410	0.0000	0.0414	0.0034	0.0004	16	-0.13	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0389	0.0415	0.0010	0.0414	0.0034	0.0004	16	0.02	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0368	0.0427	0.0014	0.0414	0.0034	0.0004	16	0.38	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0247	0.0431	0.0005	0.0414	0.0034	0.0004	16	0.48	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0035	0.0435	0.0009	0.0414	0.0034	0.0004	16	0.60	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0096	0.0436	0.0010	0.0414	0.0034	0.0004	16	0.64	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0433	0.0439	0.0001	0.0414	0.0034	0.0004	16	0.73	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0292	0.0500	0.0000	0.0414	0.0034	0.0004	16	2.54	10%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0420	0.0592	0.0001	0.0414	0.0034	0.0004	16	5.26	21%	0
321.30	Acid Soluble Zinc , ICP, test portion inorga... (%)	0041	0.0633	0.0189	0.0414	0.0034	0.0004	16	6.47	26%	1
321.99	Acid Soluble Zinc , Other (%)	0105	0.0396	0.0001	0.0398	0.0003	0.0001	2	-0.71	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Labs	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.99	Acid Soluble Zinc , Other (%)	0506	0.0400	0.0000	0.0398	0.0003	0.0001	2	0.71	0%	0

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 reporting, in this case the Z Scores are included for information only (Grey). An offset lab value with an astrix 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.