

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 180611

Grade 18-3-6

### Statistical Summary

# Analytes: 32

# Labs Reporting: 85

Issue Date : 07/31/2018

Analyte Code	Analyte Sample # 180611	# 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	Analyte IA Ratio	Average Range (R-bar)	Honwitz %RSD
001	Ammoniacal Nitrogen (%)	21	20	1.349	0.5028	1.290		0.4319	0.1207	33.48%		0.0662	3.85%
002	Nitrate Nitrogen (%)	2	2	9.195	12.38								
005	Urea Nitrogen (%)	8	7	12.35	2.198	12.34		2.467	1.165	19.99%		0.2889	2.74%
007	Urea (%)	3	3	11.47	0.7405	11.47		0.7405	0.5344	6.46%		0.1867	2.77%
010	Total Nitrogen (18%)	76	75	18.23	0.3794	18.23	0.7034	0.2356	0.0340	1.29%	0.78	0.2004	2.58%
020	Total Phosphorus as P2O5 (%)	47	45	3.133	0.3737	3.178		0.1645	0.0306	5.17%		0.1128	3.36%
040	Indirect Available Phosphorus as P2O5 (3%)	1		2.870									
041	Direct Available Phosphorus as P2O5 (3%)	41	40	2.996	0.4728	3.108	0.6700	0.1115	0.0220	3.59%	0.39	0.0555	3.37%
048	Water Soluble Phosphorus as P2O5 (%)	1		3.170									
050	Soluble Potassium as K2O (6%)	82	79	5.930	0.8075	5.839	0.4635	0.3026	0.0426	5.18%	1.52	0.1278	3.07%
101	Acid Soluble Calcium (%)	7	5	0.0094	0.0063	0.0094	0.2005	0.0063	0.0035	67.35%	0.07	0.0007	8.08%
121	Acid Soluble Magnesium (%)	13	11	0.0062	0.0040	0.0058	0.2003	0.0037	0.0014	62.85%	0.04	0.0012	8.68%
143	Elemental Sulfur (%)	3	3	0.1268	0.1935	0.1268		0.1935	0.1397	152.57%		0.2037	5.46%
148	Total Sulfur (%)	6	5	0.0578	0.0295	0.0578	0.2029	0.0295	0.0165	51.14%	0.34	0.0016	6.14%
149	Sulfur - HNO3 soluble (%)	2	2	0.0768	0.0258								
151	Acid Soluble Arsenic (ppm)	9	6	0.3084	0.2779	0.3084		0.3152	0.1608	102.20%		0.0548	19.10%
165	Acid Soluble Boron (%)	6	5	0.0048	0.0058	0.0048	0.0037	0.0058	0.0032	120.26%	3.63	0.0005	8.92%
181	Acid Soluble Cadmium (ppm)	18	17	1.167	0.3702	1.232		0.2504	0.0759	20.34%		0.0907	15.50%
190	Water Soluble Chlorine (%)	2	2	4.603	0.1662								
191	Acid Soluble Chromium (ppm)	17	16	15.10	6.197	16.43		2.645	0.8264	16.10%		0.7656	10.50%
202	Acid Soluble Cobalt (ppm)	10	7	0.1365	0.1815	0.0975	1.0292	0.1030	0.0486	105.65%	0.23	0.0163	22.71%
221	Acid Soluble Copper (%)	9	5	0.0022	0.0044	0.0022	0.0052	0.0044	0.0024	200.57%	1.95	0.0000	10.06%
241	Acid Soluble Iron (%)	16	15	0.0144	0.0065	0.0160	0.0066	0.0038	0.0012	23.74%	1.34	0.0021	7.45%
251	Acid Soluble Lead (ppm)	9	5	0.1206	0.2211	0.1206		0.2211	0.1236	183.25%		0.1678	21.99%
261	Acid Soluble Manganese (%)	12	9	0.0020	0.0030	0.0011	0.0051	0.0006	0.0002	54.76%	0.27	0.0001	11.20%
281	Acid Soluble Mercury (ppm)	2	0	0.0000									
289	Acid Soluble Molybdenum (ppm)	15	13	0.9385	0.5871	0.8716	1.2615	0.4264	0.1478	48.92%	0.79	0.0857	16.33%
291	Acid Soluble Nickel (ppm)	13	9	0.6907	0.8387	0.6386		0.8280	0.3450	129.67%		0.0382	17.11%
301	Acid Soluble Selenium (ppm)	10	8	0.2268	0.1564	0.2144		0.1477	0.0653	68.90%		0.0665	20.17%
311	Sodium (%)	6	6	0.0707	0.0341	0.0658	0.0116	0.0266	0.0136	40.38%	5.35	0.0145	6.02%
321	Acid Soluble Zinc (%)	24	21	0.0022	0.0019	0.0020	0.0052	0.0008	0.0002	40.75%	0.36	0.0002	10.23%

Analyte Code	Analyte Sample # 180611	# 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	Analyte IA Ratio	Average Range (R-bar)	Howitz %RSD
325	Water Soluble Zinc (%)	2	1	0.0035									

The Analyte IA Ratio =  $2.33 * \text{Robust SD} / \text{IA at the Analyte Assigned Value}$ . IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting.

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

# Analytes: 32

Sample # 180611

Lab Values

# Labs Reporting: 85

Grade 18-3-6

Issue Date : 07/31/2018

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001	Ammoniacal Nitrogen (%)	0524	0.8250	0.0500	1.290	0.4319	0.0662	20	-1.08	001.99	0
001	Ammoniacal Nitrogen (%)	0532	0.9150	0.0300	1.290	0.4319	0.0662	20	-0.87	001.99	0
001	Ammoniacal Nitrogen (%)	0527	0.9210	0.0080	1.290	0.4319	0.0662	20	-0.85	001.99	0
001	Ammoniacal Nitrogen (%)	0520	0.9800	0.0600	1.290	0.4319	0.0662	20	-0.72	001.99	0
001	Ammoniacal Nitrogen (%)	0501	1.000	0.0000	1.290	0.4319	0.0662	20	-0.67	001.99	0
001	Ammoniacal Nitrogen (%)	0220	1.020	0.0200	1.290	0.4319	0.0662	20	-0.62	001.99	0
001	Ammoniacal Nitrogen (%)	0451	1.050	0.0000	1.290	0.4319	0.0662	20	-0.56	001.10	0
001	Ammoniacal Nitrogen (%)	0368	1.095	0.1050	1.290	0.4319	0.0662	20	-0.45	001.99	0
001	Ammoniacal Nitrogen (%)	0513	1.110	0.0200	1.290	0.4319	0.0662	20	-0.42	001.99	0
001	Ammoniacal Nitrogen (%)	0444	1.120	0.0600	1.290	0.4319	0.0662	20	-0.39	001.10	0
001	Ammoniacal Nitrogen (%)	0546	1.120	0.0800	1.290	0.4319	0.0662	20	-0.39	001.99	0
001	Ammoniacal Nitrogen (%)	0177	1.185	0.0050	1.290	0.4319	0.0662	20	-0.24	001.10	0
001	Ammoniacal Nitrogen (%)	0231	1.280	0.1200	1.290	0.4319	0.0662	20	-0.02	001.99	0
001	Ammoniacal Nitrogen (%)	0096	1.285	0.0500	1.290	0.4319	0.0662	20	-0.01	001.99	0
001	Ammoniacal Nitrogen (%)	0550	1.585	0.3500	1.290	0.4319	0.0662	20	0.68	001.99	0
001	Ammoniacal Nitrogen (%)	0510	1.588	0.0962	1.290	0.4319	0.0662	20	0.69	001.99	0
001	Ammoniacal Nitrogen (%)	0506	1.905	0.1100	1.290	0.4319	0.0662	20	1.42	001.99	0
001	Ammoniacal Nitrogen (%)	0255	2.180	0.0800	1.290	0.4319	0.0662	20	2.06	001.99	0
001	Ammoniacal Nitrogen (%)	0405	2.215	0.0300	1.290	0.4319	0.0662	20	2.14	001.10	0
001	Ammoniacal Nitrogen (%)	0522	2.605	0.0500	1.290	0.4319	0.0662	20	3.05	001.99	0
001	Ammoniacal Nitrogen (%)	0541	7.545	3.710	1.290	0.4319	0.0662	20	14.48	001.99	2
002	Nitrate Nitrogen (%)	0550	0.4400	0.5200				2		002.99	0
002	Nitrate Nitrogen (%)	0533	17.95	0.1400				2		002.99	0
005	Urea Nitrogen (%)	0356	9.950	0.5200	12.34	2.467	0.2889	7	-0.88	005.99	0
005	Urea Nitrogen (%)	0029	10.82	0.5100	12.34	2.467	0.2889	7	-0.56	005.99	0
005	Urea Nitrogen (%)	0394	11.05	0.1600	12.34	2.467	0.2889	7	-0.47	005.99	0
005	Urea Nitrogen (%)	0368	11.44	0.2526	12.34	2.467	0.2889	7	-0.33	005.00	0
005	Urea Nitrogen (%)	0531	12.73	0.0600	12.34	2.467	0.2889	7	0.14	005.99	0
005	Urea Nitrogen (%)	0405	14.35	0.1000	12.34	2.467	0.2889	7	0.74	005.99	0
005	Urea Nitrogen (%)	0550	16.12	0.4200	12.34	2.467	0.2889	7	1.39	005.99	0
005	Urea Nitrogen (%)	0506	16.05	1.900	12.34	2.467	0.2889	7	1.36	005.99	1
007	Urea (%)	0220	11.04	0.0100	11.47	0.7405	0.1867	3	-0.59	007.99	0
007	Urea (%)	0117	11.05	0.3000	11.47	0.7405	0.1867	3	-0.57	007.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
007	Urea (%)	0532	12.33	0.2500	11.47	0.7405	0.1867	3	1.15	007.99	0
010	Total Nitrogen (18%)	0483	17.09†	0.3100	18.23	0.2356	0.2004	75	-4.84	010.60	0
010	Total Nitrogen (18%)	0524	17.17†	0.0813	18.23	0.2356	0.2004	75	-4.48	010.99	0
010	Total Nitrogen (18%)	0309	17.29†	0.0200	18.23	0.2356	0.2004	75	-3.97	010.11	0
010	Total Nitrogen (18%)	0532	17.57	0.4400	18.23	0.2356	0.2004	75	-2.79	010.99	0
010	Total Nitrogen (18%)	0472	17.65	0.2300	18.23	0.2356	0.2004	75	-2.47	010.60	0
010	Total Nitrogen (18%)	0073	17.77	0.6400	18.23	0.2356	0.2004	75	-1.94	010.60	0
010	Total Nitrogen (18%)	0025	17.92	0.3930	18.23	0.2356	0.2004	75	-1.31	010.60	0
010	Total Nitrogen (18%)	0542	17.93	0.1700	18.23	0.2356	0.2004	75	-1.26	010.60	0
010	Total Nitrogen (18%)	0368	17.96	0.0060	18.23	0.2356	0.2004	75	-1.14	010.60	0
010	Total Nitrogen (18%)	0037	17.98	0.4060	18.23	0.2356	0.2004	75	-1.04	010.60	0
010	Total Nitrogen (18%)	0506	18.00	1.800	18.23	0.2356	0.2004	75	-0.96	010.99	0
010	Total Nitrogen (18%)	0177	18.02	0.0600	18.23	0.2356	0.2004	75	-0.88	010.60	0
010	Total Nitrogen (18%)	0307	18.05	0.4810	18.23	0.2356	0.2004	75	-0.75	010.60	0
010	Total Nitrogen (18%)	0234	18.05	0.3000	18.23	0.2356	0.2004	75	-0.75	010.60	0
010	Total Nitrogen (18%)	0292	18.06	0.0100	18.23	0.2356	0.2004	75	-0.73	010.60	0
010	Total Nitrogen (18%)	0034	18.08	0.2000	18.23	0.2356	0.2004	75	-0.62	010.60	0
010	Total Nitrogen (18%)	0520	18.10	0.0700	18.23	0.2356	0.2004	75	-0.56	010.99	0
010	Total Nitrogen (18%)	0538	18.10	0.0900	18.23	0.2356	0.2004	75	-0.56	010.99	0
010	Total Nitrogen (18%)	0018	18.10	0.0000	18.23	0.2356	0.2004	75	-0.54	010.60	0
010	Total Nitrogen (18%)	0523	18.10	0.0000	18.23	0.2356	0.2004	75	-0.54	010.60	0
010	Total Nitrogen (18%)	0531	18.12	0.0300	18.23	0.2356	0.2004	75	-0.47	010.11	0
010	Total Nitrogen (18%)	0422	18.12	0.0100	18.23	0.2356	0.2004	75	-0.47	010.60	0
010	Total Nitrogen (18%)	0416	18.13	0.0500	18.23	0.2356	0.2004	75	-0.43	010.11	0
010	Total Nitrogen (18%)	0356	18.13	0.4700	18.23	0.2356	0.2004	75	-0.43	010.60	0
010	Total Nitrogen (18%)	0476	18.13	0.0232	18.23	0.2356	0.2004	75	-0.41	010.99	0
010	Total Nitrogen (18%)	0545	18.14	0.0100	18.23	0.2356	0.2004	75	-0.39	010.99	0
010	Total Nitrogen (18%)	0405	18.15	0.1700	18.23	0.2356	0.2004	75	-0.34	010.17	0
010	Total Nitrogen (18%)	0423	18.15	0.1100	18.23	0.2356	0.2004	75	-0.34	010.60	0
010	Total Nitrogen (18%)	0550	18.15	0.2500	18.23	0.2356	0.2004	75	-0.34	010.60	0
010	Total Nitrogen (18%)	0535	18.15	0.1000	18.23	0.2356	0.2004	75	-0.32	010.11	0
010	Total Nitrogen (18%)	0157	18.15	0.1000	18.23	0.2356	0.2004	75	-0.32	010.60	0
010	Total Nitrogen (18%)	0482	18.15	0.1000	18.23	0.2356	0.2004	75	-0.32	010.60	0
010	Total Nitrogen (18%)	0255	18.16	0.1770	18.23	0.2356	0.2004	75	-0.26	010.60	0
010	Total Nitrogen (18%)	0537	18.17	0.1200	18.23	0.2356	0.2004	75	-0.24	010.99	0
010	Total Nitrogen (18%)	0493	18.18	0.0500	18.23	0.2356	0.2004	75	-0.22	010.99	0
010	Total Nitrogen (18%)	0377	18.18	0.1500	18.23	0.2356	0.2004	75	-0.22	010.60	0
010	Total Nitrogen (18%)	0095	18.19	0.2500	18.23	0.2356	0.2004	75	-0.17	010.60	0
010	Total Nitrogen (18%)	0231	18.19	0.0200	18.23	0.2356	0.2004	75	-0.15	010.60	0
010	Total Nitrogen (18%)	0501	18.19	0.4200	18.23	0.2356	0.2004	75	-0.15	010.60	0
010	Total Nitrogen (18%)	0035	18.19	0.1800	18.23	0.2356	0.2004	75	-0.15	010.60	0
010	Total Nitrogen (18%)	0354	18.20	0.2000	18.23	0.2356	0.2004	75	-0.11	010.60	0
010	Total Nitrogen (18%)	0114	18.21	0.1000	18.23	0.2356	0.2004	75	-0.07	010.11	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (18%)	0105	18.23	0.0000	18.23	0.2356	0.2004	75	0.02	010.60	0
010	Total Nitrogen (18%)	0527	18.23	0.0800	18.23	0.2356	0.2004	75	0.02	010.60	0
010	Total Nitrogen (18%)	0513	18.24	0.0700	18.23	0.2356	0.2004	75	0.04	010.99	0
010	Total Nitrogen (18%)	0508	18.26	0.2000	18.23	0.2356	0.2004	75	0.14	010.99	0
010	Total Nitrogen (18%)	0291	18.27	0.0200	18.23	0.2356	0.2004	75	0.19	010.60	0
010	Total Nitrogen (18%)	0547	18.29	0.2500	18.23	0.2356	0.2004	75	0.25	010.60	0
010	Total Nitrogen (18%)	0324	18.30	0.0000	18.23	0.2356	0.2004	75	0.31	010.60	0
010	Total Nitrogen (18%)	0055	18.31	0.1300	18.23	0.2356	0.2004	75	0.33	010.60	0
010	Total Nitrogen (18%)	0233	18.32	0.0900	18.23	0.2356	0.2004	75	0.38	010.60	0
010	Total Nitrogen (18%)	0105	18.33	0.0200	18.23	0.2356	0.2004	75	0.44	010.11	0
010	Total Nitrogen (18%)	0043	18.34	0.0400	18.23	0.2356	0.2004	75	0.48	010.60	0
010	Total Nitrogen (18%)	0451	18.35	0.6500	18.23	0.2356	0.2004	75	0.50	010.60	0
010	Total Nitrogen (18%)	0522	18.36	0.3600	18.23	0.2356	0.2004	75	0.57	010.99	0
010	Total Nitrogen (18%)	0452	18.37	0.0200	18.23	0.2356	0.2004	75	0.61	010.60	0
010	Total Nitrogen (18%)	0023	18.37	0.4410	18.23	0.2356	0.2004	75	0.63	010.60	0
010	Total Nitrogen (18%)	0494	18.38	0.0700	18.23	0.2356	0.2004	75	0.63	010.60	0
010	Total Nitrogen (18%)	0397	18.38	0.0499	18.23	0.2356	0.2004	75	0.64	010.12	0
010	Total Nitrogen (18%)	0510	18.38	0.1936	18.23	0.2356	0.2004	75	0.64	010.11	0
010	Total Nitrogen (18%)	0444	18.42	0.4400	18.23	0.2356	0.2004	75	0.82	010.60	0
010	Total Nitrogen (18%)	0029	18.46	0.0900	18.23	0.2356	0.2004	75	0.97	010.60	0
010	Total Nitrogen (18%)	0041	18.46	0.1200	18.23	0.2356	0.2004	75	0.99	010.60	0
010	Total Nitrogen (18%)	0049	18.51	0.1200	18.23	0.2356	0.2004	75	1.20	010.60	0
010	Total Nitrogen (18%)	0102	18.55	0.1200	18.23	0.2356	0.2004	75	1.37	010.60	0
010	Total Nitrogen (18%)	0040	18.55	0.1000	18.23	0.2356	0.2004	75	1.37	010.60	0
010	Total Nitrogen (18%)	0106	18.56	0.2600	18.23	0.2356	0.2004	75	1.42	010.60	0
010	Total Nitrogen (18%)	0220	18.62	0.0300	18.23	0.2356	0.2004	75	1.65	010.11	0
010	Total Nitrogen (18%)	0070	18.66	0.3000	18.23	0.2356	0.2004	75	1.84	010.60	0
010	Total Nitrogen (18%)	0007	18.80	0.2000	18.23	0.2356	0.2004	75	2.44	010.60	0
010	Total Nitrogen (18%)	0096	18.94‡	0.0900	18.23	0.2356	0.2004	75	3.01	010.60	0
010	Total Nitrogen (18%)	0325	19.05‡	0.7000	18.23	0.2356	0.2004	75	3.50	010.60	0
010	Total Nitrogen (18%)	0546	19.19‡	0.2700	18.23	0.2356	0.2004	75	4.07	010.11	0
010	Total Nitrogen (18%)	0485	19.25‡	0.2850	18.23	0.2356	0.2004	75	4.33	010.60	0
010	Total Nitrogen (18%)	0360	19.29‡	0.4200	18.23	0.2356	0.2004	75	4.52	010.60	0
010	Total Nitrogen (18%)	0521	120.8‡	201.2	18.23	0.2356	0.2004	75	435.52	010.60	2
020	Total Phosphorus as P2O5 (%)	0515	1.143	0.1983	3.178	0.1645	0.1128	45	-12.37	020.99	0
020	Total Phosphorus as P2O5 (%)	0527	2.315	0.1500	3.178	0.1645	0.1128	45	-5.25	020.50	0
020	Total Phosphorus as P2O5 (%)	0506	2.815	0.1700	3.178	0.1645	0.1128	45	-2.21	020.20	0
020	Total Phosphorus as P2O5 (%)	0405	2.875	0.1500	3.178	0.1645	0.1128	45	-1.84	020.20	0
020	Total Phosphorus as P2O5 (%)	0309	2.930	0.2600	3.178	0.1645	0.1128	45	-1.51	020.20	0
020	Total Phosphorus as P2O5 (%)	0476	2.990	0.1036	3.178	0.1645	0.1128	45	-1.15	020.20	0
020	Total Phosphorus as P2O5 (%)	0523	3.000	0.0000	3.178	0.1645	0.1128	45	-1.08	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	3.040	0.0000	3.178	0.1645	0.1128	45	-0.84	020.50	0
020	Total Phosphorus as P2O5 (%)	0049	3.045	0.1100	3.178	0.1645	0.1128	45	-0.81	020.10	0



Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total Phosphorus as P2O5 (%)	0501	3.070	0.1200	3.178	0.1645	0.1128	45	-0.66	020.50	0
020	Total Phosphorus as P2O5 (%)	0524	3.079	0.0359	3.178	0.1645	0.1128	45	-0.60	020.50	0
020	Total Phosphorus as P2O5 (%)	0422	3.090	0.2400	3.178	0.1645	0.1128	45	-0.54	020.50	0
020	Total Phosphorus as P2O5 (%)	0493	3.100	0.1000	3.178	0.1645	0.1128	45	-0.47	020.10	0
020	Total Phosphorus as P2O5 (%)	0307	3.107	0.0540	3.178	0.1645	0.1128	45	-0.43	020.50	0
020	Total Phosphorus as P2O5 (%)	0522	3.135	0.1300	3.178	0.1645	0.1128	45	-0.26	020.20	0
020	Total Phosphorus as P2O5 (%)	0513	3.135	0.0300	3.178	0.1645	0.1128	45	-0.26	020.99	0
020	Total Phosphorus as P2O5 (%)	0177	3.136	0.0082	3.178	0.1645	0.1128	45	-0.26	020.20	0
020	Total Phosphorus as P2O5 (%)	0105	3.145	0.0100	3.178	0.1645	0.1128	45	-0.20	020.10	0
020	Total Phosphorus as P2O5 (%)	0096	3.145	0.0100	3.178	0.1645	0.1128	45	-0.20	020.40	0
020	Total Phosphorus as P2O5 (%)	0234	3.150	0.1000	3.178	0.1645	0.1128	45	-0.17	020.50	0
020	Total Phosphorus as P2O5 (%)	0550	3.155	0.0700	3.178	0.1645	0.1128	45	-0.14	020.20	0
020	Total Phosphorus as P2O5 (%)	0356	3.160	0.0200	3.178	0.1645	0.1128	45	-0.11	020.20	0
020	Total Phosphorus as P2O5 (%)	0292	3.180	0.0600	3.178	0.1645	0.1128	45	0.01	020.20	0
020	Total Phosphorus as P2O5 (%)	0416	3.180	0.0000	3.178	0.1645	0.1128	45	0.01	020.20	0
020	Total Phosphorus as P2O5 (%)	0291	3.185	0.0100	3.178	0.1645	0.1128	45	0.04	020.50	0
020	Total Phosphorus as P2O5 (%)	0520	3.200	0.0000	3.178	0.1645	0.1128	45	0.13	020.99	0
020	Total Phosphorus as P2O5 (%)	0508	3.201	0.0560	3.178	0.1645	0.1128	45	0.14	020.50	0
020	Total Phosphorus as P2O5 (%)	0510	3.205	0.0005	3.178	0.1645	0.1128	45	0.16	020.20	0
020	Total Phosphorus as P2O5 (%)	0231	3.210	0.0400	3.178	0.1645	0.1128	45	0.19	020.20	0
020	Total Phosphorus as P2O5 (%)	0114	3.220	0.0200	3.178	0.1645	0.1128	45	0.26	020.10	0
020	Total Phosphorus as P2O5 (%)	0433	3.230	0.0400	3.178	0.1645	0.1128	45	0.32	020.50	0
020	Total Phosphorus as P2O5 (%)	0482	3.235	0.1100	3.178	0.1645	0.1128	45	0.35	020.50	0
020	Total Phosphorus as P2O5 (%)	0105	3.265	0.0300	3.178	0.1645	0.1128	45	0.53	020.40	0
020	Total Phosphorus as P2O5 (%)	0546	3.265	0.0300	3.178	0.1645	0.1128	45	0.53	020.50	0
020	Total Phosphorus as P2O5 (%)	0547	3.275	0.2300	3.178	0.1645	0.1128	45	0.59	020.20	0
020	Total Phosphorus as P2O5 (%)	0255	3.309	0.3620	3.178	0.1645	0.1128	45	0.80	020.50	0
020	Total Phosphorus as P2O5 (%)	0542	3.345	0.0900	3.178	0.1645	0.1128	45	1.02	020.50	0
020	Total Phosphorus as P2O5 (%)	0444	3.355	0.0700	3.178	0.1645	0.1128	45	1.08	020.50	0
020	Total Phosphorus as P2O5 (%)	0452	3.360	0.0200	3.178	0.1645	0.1128	45	1.11	020.50	0
020	Total Phosphorus as P2O5 (%)	0307	3.370	0.3200	3.178	0.1645	0.1128	45	1.17	020.99	0
020	Total Phosphorus as P2O5 (%)	0324	3.385	0.2300	3.178	0.1645	0.1128	45	1.26	020.20	0
020	Total Phosphorus as P2O5 (%)	0368	3.427	0.1179	3.178	0.1645	0.1128	45	1.51	020.50	0
020	Total Phosphorus as P2O5 (%)	0541	3.475	0.4100	3.178	0.1645	0.1128	45	1.81	020.20	0
020	Total Phosphorus as P2O5 (%)	0483	3.485	0.3700	3.178	0.1645	0.1128	45	1.87	020.50	0
020	Total Phosphorus as P2O5 (%)	0552	3.845	0.3900	3.178	0.1645	0.1128	45	4.06	020.50	0
020	Total Phosphorus as P2O5 (%)	0035	3.430	0.5800	3.178	0.1645	0.1128	45	1.53	020.40	1
020	Total Phosphorus as P2O5 (%)	0389	23.51	0.0100	3.178	0.1645	0.1128	45	123.60	020.50	2
040	Indirect Available Phosphorus as P2O5 (3%)	0405	2.870±	0.1400				1		040.20	0
041	Direct Available Phosphorus as P2O5 (3%)	0055	1.080†	0.0200	3.108	0.1115	0.0555	40	-18.18	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0472	1.080†	0.0400	3.108	0.1115	0.0555	40	-18.18	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0233	2.452	0.1370	3.108	0.1115	0.0555	40	-5.88	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0532	2.595	0.0500	3.108	0.1115	0.0555	40	-4.60	041.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
041	Direct Available Phosphorus as P2O5 (3%)	0073	2.945	0.0300	3.108	0.1115	0.0555	40	-1.46	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0007	3.000	0.2000	3.108	0.1115	0.0555	40	-0.97	041.50	0
041	Direct Available Phosphorus as P2O5 (3%)	0538	3.010	0.0600	3.108	0.1115	0.0555	40	-0.88	041.99	0
041	Direct Available Phosphorus as P2O5 (3%)	0531	3.020	0.0200	3.108	0.1115	0.0555	40	-0.79	041.99	0
041	Direct Available Phosphorus as P2O5 (3%)	0494	3.035	0.0900	3.108	0.1115	0.0555	40	-0.65	041.10	0
041	Direct Available Phosphorus as P2O5 (3%)	0043	3.035	0.0500	3.108	0.1115	0.0555	40	-0.65	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0185	3.040	0.0400	3.108	0.1115	0.0555	40	-0.61	041.11	0
041	Direct Available Phosphorus as P2O5 (3%)	0360	3.045	0.0700	3.108	0.1115	0.0555	40	-0.56	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0397	3.049	0.1255	3.108	0.1115	0.0555	40	-0.53	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0041	3.055	0.0300	3.108	0.1115	0.0555	40	-0.47	041.10	0
041	Direct Available Phosphorus as P2O5 (3%)	0106	3.060	0.0600	3.108	0.1115	0.0555	40	-0.43	041.21	0
041	Direct Available Phosphorus as P2O5 (3%)	0537	3.090	0.2400	3.108	0.1115	0.0555	40	-0.16	041.99	0
041	Direct Available Phosphorus as P2O5 (3%)	0034	3.098	0.0051	3.108	0.1115	0.0555	40	-0.09	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0055	3.100	0.0000	3.108	0.1115	0.0555	40	-0.07	041.10	0
041	Direct Available Phosphorus as P2O5 (3%)	0117	3.102	0.0260	3.108	0.1115	0.0555	40	-0.05	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0513	3.110	0.0200	3.108	0.1115	0.0555	40	0.02	041.11	0
041	Direct Available Phosphorus as P2O5 (3%)	0231	3.115	0.0500	3.108	0.1115	0.0555	40	0.07	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0018	3.135	0.0100	3.108	0.1115	0.0555	40	0.24	041.40	0
041	Direct Available Phosphorus as P2O5 (3%)	0377	3.135	0.1500	3.108	0.1115	0.0555	40	0.24	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0070	3.145	0.0100	3.108	0.1115	0.0555	40	0.33	041.50	0
041	Direct Available Phosphorus as P2O5 (3%)	0423	3.145	0.0700	3.108	0.1115	0.0555	40	0.33	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0405	3.145	0.0300	3.108	0.1115	0.0555	40	0.33	041.99	0
041	Direct Available Phosphorus as P2O5 (3%)	0325	3.150	0.1000	3.108	0.1115	0.0555	40	0.38	041.50	0
041	Direct Available Phosphorus as P2O5 (3%)	0025	3.160	0.0400	3.108	0.1115	0.0555	40	0.47	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0037	3.161	0.0860	3.108	0.1115	0.0555	40	0.48	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0485	3.163	0.0416	3.108	0.1115	0.0555	40	0.50	041.11	0
041	Direct Available Phosphorus as P2O5 (3%)	0545	3.170	0.0200	3.108	0.1115	0.0555	40	0.56	041.99	0
041	Direct Available Phosphorus as P2O5 (3%)	0105	3.185	0.0500	3.108	0.1115	0.0555	40	0.69	041.11	0
041	Direct Available Phosphorus as P2O5 (3%)	0102	3.200	0.0000	3.108	0.1115	0.0555	40	0.83	041.10	0
041	Direct Available Phosphorus as P2O5 (3%)	0040	3.200	0.0000	3.108	0.1115	0.0555	40	0.83	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0029	3.200	0.0600	3.108	0.1115	0.0555	40	0.83	041.60	0
041	Direct Available Phosphorus as P2O5 (3%)	0368	3.260	0.0375	3.108	0.1115	0.0555	40	1.36	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0023	3.260	0.0400	3.108	0.1115	0.0555	40	1.37	041.51	0
041	Direct Available Phosphorus as P2O5 (3%)	0533	3.280	0.0200	3.108	0.1115	0.0555	40	1.54	041.99	0
041	Direct Available Phosphorus as P2O5 (3%)	0522	3.295	0.0900	3.108	0.1115	0.0555	40	1.68	041.21	0
041	Direct Available Phosphorus as P2O5 (3%)	0220	3.340	0.0000	3.108	0.1115	0.0555	40	2.08	041.11	0
041	Direct Available Phosphorus as P2O5 (3%)	0354	3.230	0.2800	3.108	0.1115	0.0555	40	1.10	041.60	1
048	Water Soluble Phosphorus as P2O5 (%)	0444	3.170	0.0000				1		048.50	0
050	Soluble Potassium as K2O (6%)	0510	4.200†	0.0054	5.839	0.3026	0.1278	79	-5.42	050.60	0
050	Soluble Potassium as K2O (6%)	0325	5.050†	0.7000	5.839	0.3026	0.1278	79	-2.61	050.99	0
050	Soluble Potassium as K2O (6%)	0547	5.175†	0.1100	5.839	0.3026	0.1278	79	-2.19	050.51	0
050	Soluble Potassium as K2O (6%)	0506	5.215†	0.1700	5.839	0.3026	0.1278	79	-2.06	050.99	0
050	Soluble Potassium as K2O (6%)	0472	5.270†	0.1200	5.839	0.3026	0.1278	79	-1.88	050.31	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
050	Soluble Potassium as K2O (6%)	0185	5.355†	0.5700	5.839	0.3026	0.1278	79	-1.60	050.32	0
050	Soluble Potassium as K2O (6%)	0324	5.420	0.0800	5.839	0.3026	0.1278	79	-1.38	050.50	0
050	Soluble Potassium as K2O (6%)	0452	5.420	0.0200	5.839	0.3026	0.1278	79	-1.38	050.51	0
050	Soluble Potassium as K2O (6%)	0106	5.430	0.5800	5.839	0.3026	0.1278	79	-1.35	050.50	0
050	Soluble Potassium as K2O (6%)	0485	5.445	0.0100	5.839	0.3026	0.1278	79	-1.30	050.32	0
050	Soluble Potassium as K2O (6%)	0422	5.450	0.1000	5.839	0.3026	0.1278	79	-1.28	050.50	0
050	Soluble Potassium as K2O (6%)	0095	5.505	0.0100	5.839	0.3026	0.1278	79	-1.10	050.62	0
050	Soluble Potassium as K2O (6%)	0025	5.545	0.2100	5.839	0.3026	0.1278	79	-0.97	050.52	0
050	Soluble Potassium as K2O (6%)	0034	5.599	0.0418	5.839	0.3026	0.1278	79	-0.79	050.62	0
050	Soluble Potassium as K2O (6%)	0360	5.630	0.0200	5.839	0.3026	0.1278	79	-0.69	050.52	0
050	Soluble Potassium as K2O (6%)	0220	5.630	0.0400	5.839	0.3026	0.1278	79	-0.69	050.00	0
050	Soluble Potassium as K2O (6%)	0356	5.645	0.0700	5.839	0.3026	0.1278	79	-0.64	050.30	0
050	Soluble Potassium as K2O (6%)	0007	5.650	0.1000	5.839	0.3026	0.1278	79	-0.62	050.51	0
050	Soluble Potassium as K2O (6%)	0029	5.650	0.0400	5.839	0.3026	0.1278	79	-0.62	050.62	0
050	Soluble Potassium as K2O (6%)	0041	5.660	0.1400	5.839	0.3026	0.1278	79	-0.59	050.60	0
050	Soluble Potassium as K2O (6%)	0055	5.670	0.0800	5.839	0.3026	0.1278	79	-0.56	050.50	0
050	Soluble Potassium as K2O (6%)	0513	5.675	0.0300	5.839	0.3026	0.1278	79	-0.54	050.62	0
050	Soluble Potassium as K2O (6%)	0397	5.705	0.1217	5.839	0.3026	0.1278	79	-0.44	050.50	0
050	Soluble Potassium as K2O (6%)	0483	5.715	0.2700	5.839	0.3026	0.1278	79	-0.41	050.51	0
050	Soluble Potassium as K2O (6%)	0117	5.726	0.0730	5.839	0.3026	0.1278	79	-0.37	050.52	0
050	Soluble Potassium as K2O (6%)	0037	5.739	0.1170	5.839	0.3026	0.1278	79	-0.33	050.62	0
050	Soluble Potassium as K2O (6%)	0043	5.740	0.0200	5.839	0.3026	0.1278	79	-0.33	050.51	0
050	Soluble Potassium as K2O (6%)	0105	5.740	0.1400	5.839	0.3026	0.1278	79	-0.33	050.60	0
050	Soluble Potassium as K2O (6%)	0522	5.745	0.3700	5.839	0.3026	0.1278	79	-0.31	050.00	0
050	Soluble Potassium as K2O (6%)	0377	5.745	0.0300	5.839	0.3026	0.1278	79	-0.31	050.52	0
050	Soluble Potassium as K2O (6%)	0157	5.765	0.2300	5.839	0.3026	0.1278	79	-0.24	050.30	0
050	Soluble Potassium as K2O (6%)	0292	5.765	0.1100	5.839	0.3026	0.1278	79	-0.24	050.50	0
050	Soluble Potassium as K2O (6%)	0527	5.770	0.0400	5.839	0.3026	0.1278	79	-0.23	050.99	0
050	Soluble Potassium as K2O (6%)	0049	5.775	0.0100	5.839	0.3026	0.1278	79	-0.21	050.00	0
050	Soluble Potassium as K2O (6%)	0433	5.790	0.0000	5.839	0.3026	0.1278	79	-0.16	050.99	0
050	Soluble Potassium as K2O (6%)	0307	5.796	0.2660	5.839	0.3026	0.1278	79	-0.14	050.99	0
050	Soluble Potassium as K2O (6%)	0018	5.805	0.0100	5.839	0.3026	0.1278	79	-0.11	050.62	0
050	Soluble Potassium as K2O (6%)	0546	5.815	0.1100	5.839	0.3026	0.1278	79	-0.08	050.99	0
050	Soluble Potassium as K2O (6%)	0070	5.820	0.0000	5.839	0.3026	0.1278	79	-0.06	050.51	0
050	Soluble Potassium as K2O (6%)	0405	5.835	0.0100	5.839	0.3026	0.1278	79	-0.01	050.00	0
050	Soluble Potassium as K2O (6%)	0105	5.840	0.0000	5.839	0.3026	0.1278	79	0.00	050.62	0
050	Soluble Potassium as K2O (6%)	0494	5.845	0.0100	5.839	0.3026	0.1278	79	0.02	050.00	0
050	Soluble Potassium as K2O (6%)	0476	5.845	0.0572	5.839	0.3026	0.1278	79	0.02	050.99	0
050	Soluble Potassium as K2O (6%)	0177	5.851	0.0519	5.839	0.3026	0.1278	79	0.04	050.99	0
050	Soluble Potassium as K2O (6%)	0231	5.860	0.0600	5.839	0.3026	0.1278	79	0.07	050.00	0
050	Soluble Potassium as K2O (6%)	0086	5.871	0.2640	5.839	0.3026	0.1278	79	0.11	050.50	0
050	Soluble Potassium as K2O (6%)	0255	5.897	0.6650	5.839	0.3026	0.1278	79	0.19	050.99	0
050	Soluble Potassium as K2O (6%)	0040	5.900	0.2000	5.839	0.3026	0.1278	79	0.20	050.30	0



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050	Soluble Potassium as K2O (6%)	0482	5.900	0.0400	5.839	0.3026	0.1278	79	0.20	050.99	0
050	Soluble Potassium as K2O (6%)	0535	5.900	0.1000	5.839	0.3026	0.1278	79	0.20	050.99	0
050	Soluble Potassium as K2O (6%)	0533	5.905	0.0300	5.839	0.3026	0.1278	79	0.22	050.99	0
050	Soluble Potassium as K2O (6%)	0416	5.910	0.0000	5.839	0.3026	0.1278	79	0.24	050.00	0
050	Soluble Potassium as K2O (6%)	0368	5.914	0.1508	5.839	0.3026	0.1278	79	0.25	050.99	0
050	Soluble Potassium as K2O (6%)	0493	5.950	0.1000	5.839	0.3026	0.1278	79	0.37	050.99	0
050	Soluble Potassium as K2O (6%)	0523	5.950	0.1000	5.839	0.3026	0.1278	79	0.37	050.99	0
050	Soluble Potassium as K2O (6%)	0073	5.960	0.0800	5.839	0.3026	0.1278	79	0.40	050.30	0
050	Soluble Potassium as K2O (6%)	0423	5.965	0.2300	5.839	0.3026	0.1278	79	0.42	050.52	0
050	Soluble Potassium as K2O (6%)	0550	5.990	0.2600	5.839	0.3026	0.1278	79	0.50	050.00	0
050	Soluble Potassium as K2O (6%)	0520	6.005	0.1100	5.839	0.3026	0.1278	79	0.55	050.99	0
050	Soluble Potassium as K2O (6%)	0531	6.010	0.0200	5.839	0.3026	0.1278	79	0.57	050.99	0
050	Soluble Potassium as K2O (6%)	0023	6.020	0.0200	5.839	0.3026	0.1278	79	0.60	050.52	0
050	Soluble Potassium as K2O (6%)	0291	6.075	0.0700	5.839	0.3026	0.1278	79	0.78	050.51	0
050	Soluble Potassium as K2O (6%)	0501	6.075	0.3500	5.839	0.3026	0.1278	79	0.78	050.99	0
050	Soluble Potassium as K2O (6%)	0537	6.102	0.1580	5.839	0.3026	0.1278	79	0.87	050.99	0
050	Soluble Potassium as K2O (6%)	0354	6.130	0.1200	5.839	0.3026	0.1278	79	0.96	050.52	0
050	Soluble Potassium as K2O (6%)	0545	6.140	0.0400	5.839	0.3026	0.1278	79	1.00	050.99	0
050	Soluble Potassium as K2O (6%)	0444	6.150	0.0400	5.839	0.3026	0.1278	79	1.03	050.50	0
050	Soluble Potassium as K2O (6%)	0102	6.200	0.0000	5.839	0.3026	0.1278	79	1.19	050.00	0
050	Soluble Potassium as K2O (6%)	0234	6.200	0.0000	5.839	0.3026	0.1278	79	1.19	050.99	0
050	Soluble Potassium as K2O (6%)	0524	6.227	0.1571	5.839	0.3026	0.1278	79	1.28	050.99	0
050	Soluble Potassium as K2O (6%)	0532	6.240	0.1200	5.839	0.3026	0.1278	79	1.33	050.99	0
050	Soluble Potassium as K2O (6%)	0538	6.250	0.1000	5.839	0.3026	0.1278	79	1.36	050.99	0
050	Soluble Potassium as K2O (6%)	0444	6.410‡	0.0000	5.839	0.3026	0.1278	79	1.89	050.99	0
050	Soluble Potassium as K2O (6%)	0233	6.460‡	0.4270	5.839	0.3026	0.1278	79	2.05	050.52	0
050	Soluble Potassium as K2O (6%)	0552	6.665‡	0.5300	5.839	0.3026	0.1278	79	2.73	050.99	0
050	Soluble Potassium as K2O (6%)	0542	6.925‡	0.0300	5.839	0.3026	0.1278	79	3.59	050.99	0
050	Soluble Potassium as K2O (6%)	0114	7.100‡	0.0000	5.839	0.3026	0.1278	79	4.17	050.00	0
050	Soluble Potassium as K2O (6%)	0055	7.955‡	0.0300	5.839	0.3026	0.1278	79	6.99	050.00	0
050	Soluble Potassium as K2O (6%)	0309	11.78‡	0.2000	5.839	0.3026	0.1278	79	19.63	050.30	0
050	Soluble Potassium as K2O (6%)	0541	5.100†	1.080	5.839	0.3026	0.1278	79	-2.44	050.99	1
050	Soluble Potassium as K2O (6%)	0035	6.415‡	1.170	5.839	0.3026	0.1278	79	1.90	050.61	1
050	Soluble Potassium as K2O (6%)	0389	37.47‡	0.0700	5.839	0.3026	0.1278	79	104.51	050.99	2
101	Acid Soluble Calcium (%)	0117	0.0052	0.0003	0.0094	0.0063	0.0007	5	-0.59	101.33	0
101	Acid Soluble Calcium (%)	0105	0.0053	0.0004	0.0094	0.0063	0.0007	5	-0.56	101.03	0
101	Acid Soluble Calcium (%)	0105	0.0060	0.0020	0.0094	0.0063	0.0007	5	-0.47	101.00	0
101	Acid Soluble Calcium (%)	0389	0.0105	0.0010	0.0094	0.0063	0.0007	5	0.15	101.99	0
101	Acid Soluble Calcium (%)	0527	0.0200	0.0000	0.0094	0.0063	0.0007	5	1.46	101.33	0
101	Acid Soluble Calcium (%)	0354	0.0750	0.0300	0.0094	0.0063	0.0007	5	9.05	101.30	1
101	Acid Soluble Calcium (%)	0552	0.0000	0.0000	0.0094	0.0063	0.0007	5		101.99	4
121	Acid Soluble Magnesium (%)	0389	0.0010	0.0000	0.0058	0.0037	0.0012	11	-1.32	121.99	0
121	Acid Soluble Magnesium (%)	0515	0.0020	0.0004	0.0058	0.0037	0.0012	11	-1.04	121.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
121	Acid Soluble Magnesium (%)	0515	0.0020	0.0006	0.0058	0.0037	0.0012	11	-1.04	121.99	0
121	Acid Soluble Magnesium (%)	0524	0.0055	0.0002	0.0058	0.0037	0.0012	11	-0.09	121.99	0
121	Acid Soluble Magnesium (%)	0105	0.0058	0.0004	0.0058	0.0037	0.0012	11	0.00	121.03	0
121	Acid Soluble Magnesium (%)	0105	0.0059	0.0001	0.0058	0.0037	0.0012	11	0.01	121.00	0
121	Acid Soluble Magnesium (%)	0117	0.0061	0.0001	0.0058	0.0037	0.0012	11	0.06	121.33	0
121	Acid Soluble Magnesium (%)	0527	0.0070	0.0000	0.0058	0.0037	0.0012	11	0.32	121.33	0
121	Acid Soluble Magnesium (%)	0423	0.0075	0.0010	0.0058	0.0037	0.0012	11	0.46	121.32	0
121	Acid Soluble Magnesium (%)	0106	0.0100	0.0001	0.0058	0.0037	0.0012	11	1.13	121.33	0
121	Acid Soluble Magnesium (%)	0354	0.0150	0.0100	0.0058	0.0037	0.0012	11	2.51	121.30	0
121	Acid Soluble Magnesium (%)	0309	1.185	0.0500	0.0058	0.0037	0.0012	11	322.76	121.00	2
121	Acid Soluble Magnesium (%)	0552	0.0000	0.0000	0.0058	0.0037	0.0012	11		121.99	4
143	Elemental Sulfur (%)	0389	0.0055	0.0010	0.1268	0.1935	0.2037	3	-0.63	143.99	0
143	Elemental Sulfur (%)	0472	0.0250	0.0100	0.1268	0.1935	0.2037	3	-0.53	143.99	0
143	Elemental Sulfur (%)	0541	0.3500	0.6000	0.1268	0.1935	0.2037	3	1.15	143.99	0
148	Total Sulfur (%)	0515	0.0166	0.0062	0.0578	0.0295	0.0016	5	-1.22	148.07	0
148	Total Sulfur (%)	0117	0.0556	0.0013	0.0578	0.0295	0.0016	5	-0.07	148.07	0
148	Total Sulfur (%)	0494	0.0567	0.0003	0.0578	0.0295	0.0016	5	-0.03	148.07	0
148	Total Sulfur (%)	0527	0.0600	0.0000	0.0578	0.0295	0.0016	5	0.07	148.07	0
148	Total Sulfur (%)	0354	0.1000	0.0000	0.0578	0.0295	0.0016	5	1.25	148.99	0
148	Total Sulfur (%)	0482	0.0700	0.0200	0.0578	0.0295	0.0016	5	0.36	148.99	1
149	Sulfur - HNO3 soluble (%)	0524	0.0586	0.0007				2		149.04	0
149	Sulfur - HNO3 soluble (%)	0423	0.0950	0.0100				2		149.04	0
151	Acid Soluble Arsenic (ppm)	0515	0.0275	0.0350	0.3084	0.3152	0.0548	6	-0.79	151.33	0
151	Acid Soluble Arsenic (ppm)	0476	0.1310	0.0133	0.3084	0.3152	0.0548	6	-0.50	151.99	0
151	Acid Soluble Arsenic (ppm)	0255	0.1455	0.0250	0.3084	0.3152	0.0548	6	-0.46	151.30	0
151	Acid Soluble Arsenic (ppm)	0527	0.2600	0.0400	0.3084	0.3152	0.0548	6	-0.14	151.33	0
151	Acid Soluble Arsenic (ppm)	0524	0.5363	0.1155	0.3084	0.3152	0.0548	6	0.64	151.30	0
151	Acid Soluble Arsenic (ppm)	0220	0.7500	0.1000	0.3084	0.3152	0.0548	6	1.25	151.99	0
151	Acid Soluble Arsenic (ppm)	0541	2.170	3.440	0.3084	0.3152	0.0548	6	5.26	151.30	1
151	Acid Soluble Arsenic (ppm)	0515	0.0000	0.0000	0.3084	0.3152	0.0548	6		151.34	4
151	Acid Soluble Arsenic (ppm)	0368	0.9625	1.925	0.3084	0.3152	0.0548	6		151.34	4
165	Acid Soluble Boron (%)	0515	0.0002	0.0000	0.0048	0.0058	0.0005	5	-0.70	165.99	0
165	Acid Soluble Boron (%)	0524	0.0007	0.0000	0.0048	0.0058	0.0005	5	-0.62	165.99	0
165	Acid Soluble Boron (%)	0423	0.0010	0.0002	0.0048	0.0058	0.0005	5	-0.58	165.99	0
165	Acid Soluble Boron (%)	0354	0.0100	0.0000	0.0048	0.0058	0.0005	5	0.78	165.30	0
165	Acid Soluble Boron (%)	0106	0.0123	0.0023	0.0048	0.0058	0.0005	5	1.12	165.30	0
165	Acid Soluble Boron (%)	0552	0.0000	0.0000	0.0048	0.0058	0.0005	5		165.99	4
181	Acid Soluble Cadmium (ppm)	0515	0.1475	0.1530	1.232	0.2504	0.0907	17	-4.33	181.34	0
181	Acid Soluble Cadmium (ppm)	0515	0.4625	0.2150	1.232	0.2504	0.0907	17	-3.07	181.33	0
181	Acid Soluble Cadmium (ppm)	0506	1.020	0.0200	1.232	0.2504	0.0907	17	-0.84	181.99	0
181	Acid Soluble Cadmium (ppm)	0550	1.080	0.4800	1.232	0.2504	0.0907	17	-0.61	181.00	0
181	Acid Soluble Cadmium (ppm)	0444	1.090	0.0400	1.232	0.2504	0.0907	17	-0.57	181.30	0
181	Acid Soluble Cadmium (ppm)	0476	1.116	0.0319	1.232	0.2504	0.0907	17	-0.46	181.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
181	Acid Soluble Cadmium (ppm)	0524	1.135	0.0647	1.232	0.2504	0.0907	17	-0.38	181.30	0
181	Acid Soluble Cadmium (ppm)	0255	1.164	0.0080	1.232	0.2504	0.0907	17	-0.27	181.30	0
181	Acid Soluble Cadmium (ppm)	0523	1.216	0.0550	1.232	0.2504	0.0907	17	-0.06	181.30	0
181	Acid Soluble Cadmium (ppm)	0220	1.250	0.1000	1.232	0.2504	0.0907	17	0.07	181.99	0
181	Acid Soluble Cadmium (ppm)	0482	1.350	0.1000	1.232	0.2504	0.0907	17	0.47	181.30	0
181	Acid Soluble Cadmium (ppm)	0035	1.400	0.0800	1.232	0.2504	0.0907	17	0.67	181.30	0
181	Acid Soluble Cadmium (ppm)	0037	1.405	0.0150	1.232	0.2504	0.0907	17	0.69	181.33	0
181	Acid Soluble Cadmium (ppm)	0527	1.405	0.0100	1.232	0.2504	0.0907	17	0.69	181.33	0
181	Acid Soluble Cadmium (ppm)	0520	1.450	0.1000	1.232	0.2504	0.0907	17	0.87	181.99	0
181	Acid Soluble Cadmium (ppm)	0102	1.556	0.0070	1.232	0.2504	0.0907	17	1.29	181.30	0
181	Acid Soluble Cadmium (ppm)	0368	1.589	0.0630	1.232	0.2504	0.0907	17	1.43	181.34	0
181	Acid Soluble Cadmium (ppm)	0541	0.8800	0.6800	1.232	0.2504	0.0907	17	-1.40	181.30	1
190	Water Soluble Chlorine (%)	0105	4.485	0.0700				2		190.00	0
190	Water Soluble Chlorine (%)	0513	4.720	0.0200				2		190.00	0
191	Acid Soluble Chromium (ppm)	0515	0.1755	0.0410	16.43	2.645	0.7656	16	-6.14	191.33	0
191	Acid Soluble Chromium (ppm)	0515	0.4495	0.0831	16.43	2.645	0.7656	16	-6.04	191.34	0
191	Acid Soluble Chromium (ppm)	0523	13.40	0.2900	16.43	2.645	0.7656	16	-1.15	191.30	0
191	Acid Soluble Chromium (ppm)	0541	15.00	2.000	16.43	2.645	0.7656	16	-0.54	191.30	0
191	Acid Soluble Chromium (ppm)	0482	15.65	1.300	16.43	2.645	0.7656	16	-0.29	191.30	0
191	Acid Soluble Chromium (ppm)	0220	16.25	0.5000	16.43	2.645	0.7656	16	-0.07	191.99	0
191	Acid Soluble Chromium (ppm)	0527	16.43	0.6300	16.43	2.645	0.7656	16	0.00	191.33	0
191	Acid Soluble Chromium (ppm)	0035	16.50	4.200	16.43	2.645	0.7656	16	0.03	191.30	0
191	Acid Soluble Chromium (ppm)	0506	16.60	0.2000	16.43	2.645	0.7656	16	0.07	191.99	0
191	Acid Soluble Chromium (ppm)	0444	16.74	0.6900	16.43	2.645	0.7656	16	0.12	191.30	0
191	Acid Soluble Chromium (ppm)	0117	16.76	0.4800	16.43	2.645	0.7656	16	0.13	191.33	0
191	Acid Soluble Chromium (ppm)	0102	17.48	0.4650	16.43	2.645	0.7656	16	0.40	191.30	0
191	Acid Soluble Chromium (ppm)	0476	17.55	0.8193	16.43	2.645	0.7656	16	0.42	191.99	0
191	Acid Soluble Chromium (ppm)	0368	19.51	0.0789	16.43	2.645	0.7656	16	1.17	191.34	0
191	Acid Soluble Chromium (ppm)	0520	19.65	0.1000	16.43	2.645	0.7656	16	1.22	191.99	0
191	Acid Soluble Chromium (ppm)	0037	23.52	0.3720	16.43	2.645	0.7656	16	2.68	191.33	0
191	Acid Soluble Chromium (ppm)	0550	10.05	6.150	16.43	2.645	0.7656	16	-2.41	191.00	1
202	Acid Soluble Cobalt (ppm)	0255	0.0030	0.0040	0.0975	0.1030	0.0163	7	-0.83	202.99	0
202	Acid Soluble Cobalt (ppm)	0527	0.0080	0.0000	0.0975	0.1030	0.0163	7	-0.79	202.33	0
202	Acid Soluble Cobalt (ppm)	0524	0.0733	0.0058	0.0975	0.1030	0.0163	7	-0.21	202.30	0
202	Acid Soluble Cobalt (ppm)	0220	0.0750	0.0100	0.0975	0.1030	0.0163	7	-0.20	202.99	0
202	Acid Soluble Cobalt (ppm)	0523	0.0870	0.0220	0.0975	0.1030	0.0163	7	-0.09	202.30	0
202	Acid Soluble Cobalt (ppm)	0102	0.1840	0.0220	0.0975	0.1030	0.0163	7	0.76	202.30	0
202	Acid Soluble Cobalt (ppm)	0550	0.5250	0.0500	0.0975	0.1030	0.0163	7	3.75	202.33	0
202	Acid Soluble Cobalt (ppm)	0368	0.1403	0.1724	0.0975	0.1030	0.0163	7	0.38	202.34	1
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	0.0975	0.1030	0.0163	7		202.33	4
202	Acid Soluble Cobalt (ppm)	0515	0.0185	0.0370	0.0975	0.1030	0.0163	7		202.34	4
221	Acid Soluble Copper (%)	0541	0.0001	0.0000	0.0022	0.0044	0.0000	5	-0.42	221.99	0
221	Acid Soluble Copper (%)	0389	0.0002	0.0000	0.0022	0.0044	0.0000	5	-0.40	221.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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221	Acid Soluble Copper (%)	0106	0.0003	0.0001	0.0022	0.0044	0.0000	5	-0.39	221.33	0
221	Acid Soluble Copper (%)	0550	0.0004	0.0001	0.0022	0.0044	0.0000	5	-0.37	221.00	0
221	Acid Soluble Copper (%)	0354	0.0100	0.0000	0.0022	0.0044	0.0000	5	1.56	221.30	0
221	Acid Soluble Copper (%)	0552	0.0000	0.0000	0.0022	0.0044	0.0000	5		221.30	4
221	Acid Soluble Copper (%)	0515	0.0000	0.0000	0.0022	0.0044	0.0000	5		221.33	4
221	Acid Soluble Copper (%)	0368	0.0000	0.0000	0.0022	0.0044	0.0000	5		221.99	4
221	Acid Soluble Copper (%)	0515	0.0000	0.0000	0.0022	0.0044	0.0000	5		221.99	4
241	Acid Soluble Iron (%)	0515	0.0004	0.0002	0.0160	0.0038	0.0021	15	-4.11	241.99	0
241	Acid Soluble Iron (%)	0106	0.0033	0.0006	0.0160	0.0038	0.0021	15	-3.35	241.33	0
241	Acid Soluble Iron (%)	0389	0.0034	0.0000	0.0160	0.0038	0.0021	15	-3.32	241.99	0
241	Acid Soluble Iron (%)	0354	0.0150	0.0100	0.0160	0.0038	0.0021	15	-0.27	241.30	0
241	Acid Soluble Iron (%)	0552	0.0150	0.0100	0.0160	0.0038	0.0021	15	-0.27	241.30	0
241	Acid Soluble Iron (%)	0524	0.0163	0.0000	0.0160	0.0038	0.0021	15	0.07	241.99	0
241	Acid Soluble Iron (%)	0105	0.0165	0.0030	0.0160	0.0038	0.0021	15	0.12	241.03	0
241	Acid Soluble Iron (%)	0423	0.0165	0.0010	0.0160	0.0038	0.0021	15	0.12	241.32	0
241	Acid Soluble Iron (%)	0117	0.0167	0.0011	0.0160	0.0038	0.0021	15	0.16	241.33	0
241	Acid Soluble Iron (%)	0527	0.0170	0.0000	0.0160	0.0038	0.0021	15	0.25	241.33	0
241	Acid Soluble Iron (%)	0105	0.0185	0.0030	0.0160	0.0038	0.0021	15	0.65	241.00	0
241	Acid Soluble Iron (%)	0535	0.0186	0.0009	0.0160	0.0038	0.0021	15	0.66	241.00	0
241	Acid Soluble Iron (%)	0035	0.0195	0.0010	0.0160	0.0038	0.0021	15	0.91	241.30	0
241	Acid Soluble Iron (%)	0472	0.0200	0.0000	0.0160	0.0038	0.0021	15	1.04	241.30	0
241	Acid Soluble Iron (%)	0482	0.0200	0.0000	0.0160	0.0038	0.0021	15	1.04	241.30	0
241	Acid Soluble Iron (%)	0515	0.0001	0.0001	0.0160	0.0038	0.0021	15		241.33	4
251	Acid Soluble Lead (ppm)	0255	0.0085	0.0150	0.1206	0.2211	0.1678	5	-0.44	251.30	0
251	Acid Soluble Lead (ppm)	0523	0.0115	0.0010	0.1206	0.2211	0.1678	5	-0.43	251.30	0
251	Acid Soluble Lead (ppm)	0524	0.0182	0.0130	0.1206	0.2211	0.1678	5	-0.40	251.30	0
251	Acid Soluble Lead (ppm)	0527	0.0500	0.0000	0.1206	0.2211	0.1678	5	-0.28	251.33	0
251	Acid Soluble Lead (ppm)	0550	0.5150	0.8100	0.1206	0.2211	0.1678	5	1.56	251.00	0
251	Acid Soluble Lead (ppm)	0515	0.0070	0.0140	0.1206	0.2211	0.1678	5		251.34	4
251	Acid Soluble Lead (ppm)	0515	0.0290	0.0580	0.1206	0.2211	0.1678	5		251.33	4
251	Acid Soluble Lead (ppm)	0541	1.550	3.100	0.1206	0.2211	0.1678	5		251.30	4
251	Acid Soluble Lead (ppm)	0368	4.249	8.498	0.1206	0.2211	0.1678	5		251.34	4
261	Acid Soluble Manganese (%)	0106	0.0003	0.0000	0.0011	0.0006	0.0001	9	-1.31	261.35	0
261	Acid Soluble Manganese (%)	0389	0.0003	0.0000	0.0011	0.0006	0.0001	9	-1.31	261.99	0
261	Acid Soluble Manganese (%)	0105	0.0010	0.0002	0.0011	0.0006	0.0001	9	-0.11	261.12	0
261	Acid Soluble Manganese (%)	0527	0.0010	0.0000	0.0011	0.0006	0.0001	9	-0.11	261.35	0
261	Acid Soluble Manganese (%)	0524	0.0012	0.0000	0.0011	0.0006	0.0001	9	0.23	261.99	0
261	Acid Soluble Manganese (%)	0035	0.0012	0.0002	0.0011	0.0006	0.0001	9	0.23	261.30	0
261	Acid Soluble Manganese (%)	0105	0.0013	0.0002	0.0011	0.0006	0.0001	9	0.40	261.15	0
261	Acid Soluble Manganese (%)	0423	0.0014	0.0001	0.0011	0.0006	0.0001	9	0.49	261.34	0
261	Acid Soluble Manganese (%)	0354	0.0100	0.0000	0.0011	0.0006	0.0001	9	15.31	261.30	0
261	Acid Soluble Manganese (%)	0552	0.0000	0.0000	0.0011	0.0006	0.0001	9		261.32	4
261	Acid Soluble Manganese (%)	0515	0.0000	0.0000	0.0011	0.0006	0.0001	9		261.35	4

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261	Acid Soluble Manganese (%)	0515	0.0001	0.0001	0.0011	0.0006	0.0001	9		261.99	4
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000				0		281.30	4
281	Acid Soluble Mercury (ppm)	0541	0.1650	0.3300				0		281.30	4
289	Acid Soluble Molybdenum (ppm)	0515	0.0945	0.0610	0.8716	0.4264	0.0857	13	-1.82	289.34	0
289	Acid Soluble Molybdenum (ppm)	0515	0.2670	0.0380	0.8716	0.4264	0.0857	13	-1.42	289.33	0
289	Acid Soluble Molybdenum (ppm)	0220	0.4000	0.2000	0.8716	0.4264	0.0857	13	-1.11	289.99	0
289	Acid Soluble Molybdenum (ppm)	0476	0.7617	0.0329	0.8716	0.4264	0.0857	13	-0.26	289.99	0
289	Acid Soluble Molybdenum (ppm)	0524	0.9021	0.0010	0.8716	0.4264	0.0857	13	0.07	289.30	0
289	Acid Soluble Molybdenum (ppm)	0037	0.9320	0.0680	0.8716	0.4264	0.0857	13	0.14	289.33	0
289	Acid Soluble Molybdenum (ppm)	0433	0.9350	0.0060	0.8716	0.4264	0.0857	13	0.15	289.30	0
289	Acid Soluble Molybdenum (ppm)	0106	1.000	0.0000	0.8716	0.4264	0.0857	13	0.30	289.33	0
289	Acid Soluble Molybdenum (ppm)	0102	1.030	0.1380	0.8716	0.4264	0.0857	13	0.37	289.30	0
289	Acid Soluble Molybdenum (ppm)	0550	1.035	0.5100	0.8716	0.4264	0.0857	13	0.38	289.00	0
289	Acid Soluble Molybdenum (ppm)	0527	1.035	0.0060	0.8716	0.4264	0.0857	13	0.38	289.33	0
289	Acid Soluble Molybdenum (ppm)	0546	1.290	0.0000	0.8716	0.4264	0.0857	13	0.98	289.33	0
289	Acid Soluble Molybdenum (ppm)	0255	2.519	0.0530	0.8716	0.4264	0.0857	13	3.86	289.30	0
289	Acid Soluble Molybdenum (ppm)	0541	2.150	1.900	0.8716	0.4264	0.0857	13	3.00	289.30	1
289	Acid Soluble Molybdenum (ppm)	0368	0.7884	1.577	0.8716	0.4264	0.0857	13		289.34	4
291	Acid Soluble Nickel (ppm)	0523	0.0180	0.0060	0.6386	0.8280	0.0382	9	-0.75	291.30	0
291	Acid Soluble Nickel (ppm)	0527	0.0800	0.0000	0.6386	0.8280	0.0382	9	-0.67	291.33	0
291	Acid Soluble Nickel (ppm)	0524	0.0863	0.0156	0.6386	0.8280	0.0382	9	-0.67	291.30	0
291	Acid Soluble Nickel (ppm)	0102	0.3090	0.0100	0.6386	0.8280	0.0382	9	-0.40	291.30	0
291	Acid Soluble Nickel (ppm)	0220	0.4000	0.0000	0.6386	0.8280	0.0382	9	-0.29	291.99	0
291	Acid Soluble Nickel (ppm)	0476	0.4433	0.1526	0.6386	0.8280	0.0382	9	-0.24	291.99	0
291	Acid Soluble Nickel (ppm)	0520	0.6600	0.0600	0.6386	0.8280	0.0382	9	0.03	291.99	0
291	Acid Soluble Nickel (ppm)	0550	1.870	0.0000	0.6386	0.8280	0.0382	9	1.49	291.00	0
291	Acid Soluble Nickel (ppm)	0506	2.350	0.1000	0.6386	0.8280	0.0382	9	2.07	291.99	0
291	Acid Soluble Nickel (ppm)	0541	13.60	2.400	0.6386	0.8280	0.0382	9	15.65	291.30	1
291	Acid Soluble Nickel (ppm)	0515	0.0000	0.0000	0.6386	0.8280	0.0382	9		291.33	4
291	Acid Soluble Nickel (ppm)	0515	0.0200	0.0400	0.6386	0.8280	0.0382	9		291.34	4
291	Acid Soluble Nickel (ppm)	0368	0.1667	0.3333	0.6386	0.8280	0.0382	9		291.34	4
301	Acid Soluble Selenium (ppm)	0527	0.0600	0.0000	0.2144	0.1477	0.0665	8	-0.96	301.33	0
301	Acid Soluble Selenium (ppm)	0515	0.0890	0.0340	0.2144	0.1477	0.0665	8	-0.78	301.34	0
301	Acid Soluble Selenium (ppm)	0523	0.1025	0.0130	0.2144	0.1477	0.0665	8	-0.69	301.30	0
301	Acid Soluble Selenium (ppm)	0515	0.2035	0.1550	0.2144	0.1477	0.0665	8	-0.07	301.33	0
301	Acid Soluble Selenium (ppm)	0255	0.2090	0.0600	0.2144	0.1477	0.0665	8	-0.03	301.99	0
301	Acid Soluble Selenium (ppm)	0220	0.3000	0.0000	0.2144	0.1477	0.0665	8	0.53	301.99	0
301	Acid Soluble Selenium (ppm)	0541	0.3150	0.2100	0.2144	0.1477	0.0665	8	0.62	301.30	0
301	Acid Soluble Selenium (ppm)	0524	0.5350	0.0600	0.2144	0.1477	0.0665	8	1.99	301.30	0
301	Acid Soluble Selenium (ppm)	0506	67.50	9.600	0.2144	0.1477	0.0665	8	416.68	301.99	2
301	Acid Soluble Selenium (ppm)	0368	0.3565	0.7129	0.2144	0.1477	0.0665	8		301.34	4
311	Sodium (%)	0423	0.0465	0.0010	0.0658	0.0266	0.0145	6	-0.65	311.33	0
311	Sodium (%)	0117	0.0476	0.0099	0.0658	0.0266	0.0145	6	-0.61	311.33	0



Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
311	Sodium (%)	0482	0.0500	0.0000	0.0658	0.0266	0.0145	6	-0.53	311.99	0
311	Sodium (%)	0035	0.0650	0.0460	0.0658	0.0266	0.0145	6	-0.03	311.33	0
311	Sodium (%)	0354	0.0800	0.0200	0.0658	0.0266	0.0145	6	0.48	311.99	0
311	Sodium (%)	0527	0.1350	0.0100	0.0658	0.0266	0.0145	6	2.32	311.33	0
321	Acid Soluble Zinc (%)	0106	0.0002	0.0001	0.0020	0.0008	0.0002	21	-2.27	321.33	0
321	Acid Soluble Zinc (%)	0515	0.0002	0.0002	0.0020	0.0008	0.0002	21	-2.20	321.99	0
321	Acid Soluble Zinc (%)	0515	0.0005	0.0000	0.0020	0.0008	0.0002	21	-1.83	321.33	0
321	Acid Soluble Zinc (%)	0255	0.0010	0.0000	0.0020	0.0008	0.0002	21	-1.20	321.30	0
321	Acid Soluble Zinc (%)	0389	0.0015	0.0001	0.0020	0.0008	0.0002	21	-0.64	321.99	0
321	Acid Soluble Zinc (%)	0105	0.0018	0.0001	0.0020	0.0008	0.0002	21	-0.26	321.03	0
321	Acid Soluble Zinc (%)	0105	0.0018	0.0000	0.0020	0.0008	0.0002	21	-0.20	321.00	0
321	Acid Soluble Zinc (%)	0476	0.0018	0.0000	0.0020	0.0008	0.0002	21	-0.20	321.99	0
321	Acid Soluble Zinc (%)	0546	0.0019	0.0003	0.0020	0.0008	0.0002	21	-0.13	321.33	0
321	Acid Soluble Zinc (%)	0444	0.0020	0.0005	0.0020	0.0008	0.0002	21	-0.01	321.30	0
321	Acid Soluble Zinc (%)	0433	0.0020	0.0000	0.0020	0.0008	0.0002	21	0.05	321.30	0
321	Acid Soluble Zinc (%)	0533	0.0021	0.0001	0.0020	0.0008	0.0002	21	0.12	321.00	0
321	Acid Soluble Zinc (%)	0524	0.0021	0.0001	0.0020	0.0008	0.0002	21	0.12	321.99	0
321	Acid Soluble Zinc (%)	0368	0.0024	0.0001	0.0020	0.0008	0.0002	21	0.49	321.99	0
321	Acid Soluble Zinc (%)	0550	0.0024	0.0020	0.0020	0.0008	0.0002	21	0.56	321.00	0
321	Acid Soluble Zinc (%)	0035	0.0025	0.0005	0.0020	0.0008	0.0002	21	0.62	321.30	0
321	Acid Soluble Zinc (%)	0220	0.0025	0.0004	0.0020	0.0008	0.0002	21	0.68	321.99	0
321	Acid Soluble Zinc (%)	0102	0.0026	0.0000	0.0020	0.0008	0.0002	21	0.81	321.30	0
321	Acid Soluble Zinc (%)	0535	0.0027	0.0003	0.0020	0.0008	0.0002	21	0.87	321.00	0
321	Acid Soluble Zinc (%)	0527	0.0030	0.0000	0.0020	0.0008	0.0002	21	1.31	321.33	0
321	Acid Soluble Zinc (%)	0354	0.0100	0.0000	0.0020	0.0008	0.0002	21	10.09	321.30	0
321	Acid Soluble Zinc (%)	0037	17.19	1.300	0.0020	0.0008	0.0002	21	21557.89	321.33	3
321	Acid Soluble Zinc (%)	0423	23.15	0.5000	0.0020	0.0008	0.0002	21	29033.14	321.32	3
321	Acid Soluble Zinc (%)	0552	0.0000	0.0000	0.0020	0.0008	0.0002	21		321.30	4
325	Water Soluble Zinc (%)	0506	0.0035	0.0030				1		325.00	0
325	Water Soluble Zinc (%)	0541	0.0000	0.0000				1		325.30	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, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are grey and included for information only. Your offset values are higher (‡) or lower (†) than the Robust Analyte value ± Investigational Allowance. 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.