

# magruder fertilizer

## check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 191211

Grade 8-4-6 Liquid

### Statistical Summary

# Analytes: 32

# Labs Reporting: 95

Issue Date : 01/31/2020

Analyte Code	Analyte Sample # 191211	# 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)	Horwitz %RSD
001	Ammoniacal N (%)	36	35	1.062	0.3315	1.031		0.2764	0.0584	26.82%		0.0430	3.98%
005	Urea N (%)	20	19	7.344	0.7135	7.246		0.4415	0.1266	6.09%		0.1106	2.97%
007	Urea (%)	4	4	7.130	0.5247	7.130		0.5247	0.3279	7.36%		0.1147	2.98%
009	Ammoniacal Plus Nitrate N (%)	2	2	4.710	4.907								
010	Total N (8%)	84	80	8.969	0.5159	8.988	0.5698	0.3819	0.0534	4.25%	1.56	0.1344	2.87%
020	Total P2O5 (%)	52	50	4.085	0.3849	4.024		0.1527	0.0270	3.80%		0.0901	3.24%
040	Indirect Available P2O5 (4%)	1		4.210									
041	Direct Available P2O5 (4%)	50	48	4.006	0.2390	4.012	0.6700	0.1223	0.0221	3.05%	0.43	0.0851	3.25%
048	Water Soluble P2O5 (%)	4	4	3.995	0.0537	3.995		0.0537	0.0336	1.34%		0.0550	3.25%
050	Soluble K2O (6%)	90	87	6.153	0.3956	6.157	0.4794	0.2438	0.0327	3.96%	1.19	0.1181	3.04%
101	Acid Soluble Ca (%)	7	5	0.0041	0.0029	0.0041	0.2002	0.0029	0.0016	70.63%	0.03	0.0005	9.14%
121	Acid Soluble Mg (%)	11	8	0.0024	0.0018	0.0024	0.2001	0.0020	0.0009	84.56%	0.02	0.0005	9.91%
143	Elemental S (%)	2	2	0.0185	0.0050								
148	Total S (%)	6	5	0.0499	0.0395	0.0499	0.2025	0.0395	0.0221	79.20%	0.45	0.0157	6.28%
149	S - HNO3 soluble (%)	1		0.0169									
151	Acid Soluble As (ppm)	14	8	1.183	0.6749	1.012		0.2764	0.1221	27.30%		0.1778	15.97%
165	Acid Soluble B (%)	14	14	0.1034	0.0153	0.1009	0.0181	0.0109	0.0036	10.78%	1.40	0.0059	5.65%
181	Acid Soluble Cd (ppm)	17	10	0.1602	0.0528	0.1547		0.0461	0.0182	29.81%		0.0182	21.18%
191	Acid Soluble Cr (ppm)	19	17	3.634	2.290	3.502		2.304	0.6986	65.80%		0.4493	13.25%
202	Acid Soluble Co (ppm)	16	13	0.8328	0.1646	0.8531	1.2559	0.1300	0.0451	15.24%	0.24	0.1283	16.38%
221	Acid Soluble Cu (0.2%)	64	62	0.2076	0.0195	0.2062	0.0256	0.0142	0.0023	6.90%	1.29	0.0076	5.07%
241	Acid Soluble Fe (%)	11	9	0.0053	0.0051	0.0041	0.0054	0.0030	0.0012	72.21%	1.28	0.0015	9.14%
251	Acid Soluble Pb (ppm)	20	15	2.144	2.463	1.739		1.668	0.5385	95.95%		0.2931	14.72%
261	Acid Soluble Mn (1%)	62	61	1.074	0.1058	1.059	0.1109	0.0718	0.0115	6.78%	1.51	0.0379	3.97%
271	Water Soluble Mn (%)	6	6	1.031	0.0701	1.031		0.0794	0.0405	7.71%		0.0473	3.98%
281	Acid Soluble Hg (ppm)	8	2	0.0050	0.0028	0.0050		0.0028	0.0025	56.57%		0.0011	35.51%
289	Acid Soluble Mo (ppm)	12	5	2.296	4.322	2.296	1.6888	4.322	2.416	188.25%	5.96	0.0823	14.12%
291	Acid Soluble Ni (ppm)	20	17	1.661	1.534	1.427		0.9541	0.2893	66.86%		0.5106	15.16%
301	Acid Soluble Se (ppm)	11	6	4.175	3.681	4.175		4.174	2.130	99.98%		0.9833	12.90%
311	Sodium (%)	9	9	0.0801	0.0179	0.0762	0.0126	0.0089	0.0037	11.66%	1.64	0.0093	5.89%
321	Acid Soluble Zn (1%)	65	63	1.035	0.1057	1.027	0.1077	0.0714	0.0112	6.95%	1.55	0.0387	3.98%
325	Water Soluble Zn (%)	7	6	1.022	0.0827	1.041		0.0463	0.0236	4.44%		0.0667	3.98%

The Analyte IA Ratio = 2.33 \* Robust SD / 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

Analyte Code	Analyte Sample # 191211	# 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)	Horwitz %RSD
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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

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STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 191211  
Grade 8-4-6 Liquid

### Lab Values

# Analytes: 32

# Labs Reporting: 95

Issue Date : 01/31/2020

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 N (%)	0524	0.4852	0.1763	1.031	0.2764	0.0430	35	-1.97	001.99	0
001	Ammoniacal N (%)	0423	0.6400	0.0200	1.031	0.2764	0.0430	35	-1.41	001.99	0
001	Ammoniacal N (%)	0394	0.6980	0.0100	1.031	0.2764	0.0430	35	-1.20	001.99	0
001	Ammoniacal N (%)	0027	0.7150	0.0100	1.031	0.2764	0.0430	35	-1.14	001.99	0
001	Ammoniacal N (%)	0096	0.7250	0.0300	1.031	0.2764	0.0430	35	-1.11	001.99	0
001	Ammoniacal N (%)	0444	0.7350	0.0100	1.031	0.2764	0.0430	35	-1.07	001.10	0
001	Ammoniacal N (%)	0481	0.7350	0.0300	1.031	0.2764	0.0430	35	-1.07	001.10	0
001	Ammoniacal N (%)	0553	0.7640	0.0080	1.031	0.2764	0.0430	35	-0.97	001.99	0
001	Ammoniacal N (%)	0546	0.7800	0.0000	1.031	0.2764	0.0430	35	-0.91	001.99	0
001	Ammoniacal N (%)	0389	0.8640	0.0000	1.031	0.2764	0.0430	35	-0.60	001.10	0
001	Ammoniacal N (%)	0309	0.8900	0.0000	1.031	0.2764	0.0430	35	-0.51	001.10	0
001	Ammoniacal N (%)	0550	0.8920	0.0240	1.031	0.2764	0.0430	35	-0.50	001.99	0
001	Ammoniacal N (%)	0451	0.9350	0.0300	1.031	0.2764	0.0430	35	-0.35	001.10	0
001	Ammoniacal N (%)	0456	0.9500	0.1000	1.031	0.2764	0.0430	35	-0.29	001.10	0
001	Ammoniacal N (%)	0558	1.005	0.0100	1.031	0.2764	0.0430	35	-0.09	001.99	0
001	Ammoniacal N (%)	0532	1.040	0.0400	1.031	0.2764	0.0430	35	0.03	001.99	0
001	Ammoniacal N (%)	0506	1.050	0.0000	1.031	0.2764	0.0430	35	0.07	001.99	0
001	Ammoniacal N (%)	0540	1.050	0.0200	1.031	0.2764	0.0430	35	0.07	001.99	0
001	Ammoniacal N (%)	0498	1.060	0.0400	1.031	0.2764	0.0430	35	0.11	001.10	0
001	Ammoniacal N (%)	0510	1.092	0.0002	1.031	0.2764	0.0430	35	0.22	001.99	0
001	Ammoniacal N (%)	0533	1.107	0.0110	1.031	0.2764	0.0430	35	0.27	001.99	0
001	Ammoniacal N (%)	0537	1.120	0.1000	1.031	0.2764	0.0430	35	0.32	001.99	0
001	Ammoniacal N (%)	0549	1.125	0.1500	1.031	0.2764	0.0430	35	0.34	001.99	0
001	Ammoniacal N (%)	0538	1.135	0.0500	1.031	0.2764	0.0430	35	0.38	001.99	0
001	Ammoniacal N (%)	0368	1.162	0.0110	1.031	0.2764	0.0430	35	0.47	001.99	0
001	Ammoniacal N (%)	0536	1.185	0.0300	1.031	0.2764	0.0430	35	0.56	001.99	0
001	Ammoniacal N (%)	0117	1.200	0.0000	1.031	0.2764	0.0430	35	0.61	001.10	0
001	Ammoniacal N (%)	0531	1.225	0.0500	1.031	0.2764	0.0430	35	0.70	001.99	0
001	Ammoniacal N (%)	0255	1.235	0.0300	1.031	0.2764	0.0430	35	0.74	001.99	0
001	Ammoniacal N (%)	0551	1.240	0.0400	1.031	0.2764	0.0430	35	0.76	001.99	0
001	Ammoniacal N (%)	0405	1.365	0.0300	1.031	0.2764	0.0430	35	1.21	001.99	0
001	Ammoniacal N (%)	0522	1.405	0.1900	1.031	0.2764	0.0430	35	1.35	001.99	0
001	Ammoniacal N (%)	0220	1.620	0.0400	1.031	0.2764	0.0430	35	2.13	001.99	0
001	Ammoniacal N (%)	0476	1.851	0.1933	1.031	0.2764	0.0430	35	2.97	001.99	0
001	Ammoniacal N (%)	0559	2.090	0.0200	1.031	0.2764	0.0430	35	3.83	001.99	0
001	Ammoniacal N (%)	0029	8.000	0.1000	1.031	0.2764	0.0430	35	25.22	001.99	2

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				
005	Urea N (%)	0559	6.075	0.0100	7.246	0.4415	0.1106	19	-2.65	005.99	0
005	Urea N (%)	0538	6.900	0.1000	7.246	0.4415	0.1106	19	-0.78	005.99	0
005	Urea N (%)	0533	6.915	0.0100	7.246	0.4415	0.1106	19	-0.75	005.99	0
005	Urea N (%)	0368	6.932	0.0501	7.246	0.4415	0.1106	19	-0.71	005.00	0
005	Urea N (%)	0560	6.936	0.0280	7.246	0.4415	0.1106	19	-0.70	005.99	0
005	Urea N (%)	0506	7.050	0.8200	7.246	0.4415	0.1106	19	-0.44	005.99	0
005	Urea N (%)	0551	7.050	0.1000	7.246	0.4415	0.1106	19	-0.44	005.99	0
005	Urea N (%)	0394	7.060	0.0400	7.246	0.4415	0.1106	19	-0.42	005.99	0
005	Urea N (%)	0532	7.085	0.0900	7.246	0.4415	0.1106	19	-0.36	005.99	0
005	Urea N (%)	0531	7.100	0.1000	7.246	0.4415	0.1106	19	-0.33	005.99	0
005	Urea N (%)	0540	7.125	0.0500	7.246	0.4415	0.1106	19	-0.27	005.99	0
005	Urea N (%)	0309	7.200	0.0400	7.246	0.4415	0.1106	19	-0.10	005.99	0
005	Urea N (%)	0405	7.255	0.1700	7.246	0.4415	0.1106	19	0.02	005.99	0
005	Urea N (%)	0029	7.470	0.0000	7.246	0.4415	0.1106	19	0.51	005.99	0
005	Urea N (%)	0558	7.570	0.1600	7.246	0.4415	0.1106	19	0.73	005.99	0
005	Urea N (%)	0444	7.715	0.1500	7.246	0.4415	0.1106	19	1.06	005.00	0
005	Urea N (%)	0546	8.345	0.0500	7.246	0.4415	0.1106	19	2.49	005.99	0
005	Urea N (%)	0027	8.395	0.0100	7.246	0.4415	0.1106	19	2.60	005.99	0
005	Urea N (%)	0476	9.361	0.1226	7.246	0.4415	0.1106	19	4.79	005.99	0
005	Urea N (%)	0389	4.226	1.920	7.246	0.4415	0.1106	19	-6.84	005.00	1
007	Urea (%)	0536	6.825	0.1300	7.130	0.5247	0.1147	4	-0.58	007.99	0
007	Urea (%)	0549	6.875	0.1500	7.130	0.5247	0.1147	4	-0.49	007.99	0
007	Urea (%)	0537	6.903	0.0286	7.130	0.5247	0.1147	4	-0.43	007.99	0
007	Urea (%)	0220	7.915	0.1500	7.130	0.5247	0.1147	4	1.50	007.99	0
009	Ammoniacal Plus Nitrate N (%)	0444	1.240	0.0600				2		009.10	0
009	Ammoniacal Plus Nitrate N (%)	0518	8.180	0.0600				2		009.99	0
010	Total N (8%)	0456	7.550†	0.3000	8.988	0.3819	0.1344	80	-3.77	010.11	0
010	Total N (8%)	0521	8.000†	0.0171	8.988	0.3819	0.1344	80	-2.59	010.60	0
010	Total N (8%)	0549	8.000†	0.3000	8.988	0.3819	0.1344	80	-2.59	010.99	0
010	Total N (8%)	0536	8.010†	0.1600	8.988	0.3819	0.1344	80	-2.56	010.99	0
010	Total N (8%)	0537	8.012†	0.0897	8.988	0.3819	0.1344	80	-2.56	010.99	0
010	Total N (8%)	0506	8.060†	0.7400	8.988	0.3819	0.1344	80	-2.43	010.99	0
010	Total N (8%)	0540	8.080†	0.0800	8.988	0.3819	0.1344	80	-2.38	010.11	0
010	Total N (8%)	0532	8.120†	0.1200	8.988	0.3819	0.1344	80	-2.27	010.99	0
010	Total N (8%)	0531	8.275†	0.0500	8.988	0.3819	0.1344	80	-1.87	010.99	0
010	Total N (8%)	0551	8.290†	0.1400	8.988	0.3819	0.1344	80	-1.83	010.99	0
010	Total N (8%)	0482	8.300†	0.2800	8.988	0.3819	0.1344	80	-1.80	010.60	0
010	Total N (8%)	0531	8.325†	0.0500	8.988	0.3819	0.1344	80	-1.74	010.11	0
010	Total N (8%)	0553	8.425	0.5500	8.988	0.3819	0.1344	80	-1.48	010.99	0
010	Total N (8%)	0534	8.500	0.0000	8.988	0.3819	0.1344	80	-1.28	010.12	0
010	Total N (8%)	0493	8.550	0.1000	8.988	0.3819	0.1344	80	-1.15	010.99	0
010	Total N (8%)	0558	8.575	0.1700	8.988	0.3819	0.1344	80	-1.08	010.99	0
010	Total N (8%)	0117	8.635	0.0700	8.988	0.3819	0.1344	80	-0.93	010.12	0
010	Total N (8%)	0102	8.655	0.4300	8.988	0.3819	0.1344	80	-0.87	010.60	0
010	Total N (8%)	0034	8.667	0.0790	8.988	0.3819	0.1344	80	-0.84	010.60	0
010	Total N (8%)	0423	8.755	0.0700	8.988	0.3819	0.1344	80	-0.61	010.60	0
010	Total N (8%)	0450	8.800	0.0000	8.988	0.3819	0.1344	80	-0.49	010.60	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 N (8%)	0354	8.810	0.0200	8.988	0.3819	0.1344	80	-0.47	010.60	0
010	Total N (8%)	0501	8.820	0.0400	8.988	0.3819	0.1344	80	-0.44	010.60	0
010	Total N (8%)	0524	8.829	0.2310	8.988	0.3819	0.1344	80	-0.42	010.99	0
010	Total N (8%)	0324	8.845	0.6100	8.988	0.3819	0.1344	80	-0.38	010.60	0
010	Total N (8%)	0072	8.900	0.3800	8.988	0.3819	0.1344	80	-0.23	010.60	0
010	Total N (8%)	0542	8.945	0.0300	8.988	0.3819	0.1344	80	-0.11	010.60	0
010	Total N (8%)	0095	8.955	0.4100	8.988	0.3819	0.1344	80	-0.09	010.60	0
010	Total N (8%)	0444	8.955	0.0900	8.988	0.3819	0.1344	80	-0.09	010.60	0
010	Total N (8%)	0368	8.967	0.0110	8.988	0.3819	0.1344	80	-0.06	010.60	0
010	Total N (8%)	0472	8.970	0.2200	8.988	0.3819	0.1344	80	-0.05	010.60	0
010	Total N (8%)	0559	8.970	0.0200	8.988	0.3819	0.1344	80	-0.05	010.99	0
010	Total N (8%)	0522	8.980	0.3800	8.988	0.3819	0.1344	80	-0.02	010.99	0
010	Total N (8%)	0510	9.012	0.0725	8.988	0.3819	0.1344	80	0.06	010.11	0
010	Total N (8%)	0513	9.015	0.0100	8.988	0.3819	0.1344	80	0.07	010.99	0
010	Total N (8%)	0481	9.030	0.0400	8.988	0.3819	0.1344	80	0.11	010.12	0
010	Total N (8%)	0452	9.030	0.0400	8.988	0.3819	0.1344	80	0.11	010.60	0
010	Total N (8%)	0086	9.040	0.1400	8.988	0.3819	0.1344	80	0.14	010.60	0
010	Total N (8%)	0027	9.050	0.2400	8.988	0.3819	0.1344	80	0.16	010.60	0
010	Total N (8%)	0377	9.094	0.1870	8.988	0.3819	0.1344	80	0.28	010.60	0
010	Total N (8%)	0556	9.100	0.2000	8.988	0.3819	0.1344	80	0.29	010.99	0
010	Total N (8%)	0547	9.115	0.0100	8.988	0.3819	0.1344	80	0.33	010.60	0
010	Total N (8%)	0220	9.120	0.0800	8.988	0.3819	0.1344	80	0.34	010.60	0
010	Total N (8%)	0055	9.123	0.0320	8.988	0.3819	0.1344	80	0.35	010.60	0
010	Total N (8%)	0114	9.130	0.1800	8.988	0.3819	0.1344	80	0.37	010.60	0
010	Total N (8%)	0371	9.135	0.0100	8.988	0.3819	0.1344	80	0.38	010.99	0
010	Total N (8%)	0451	9.148	0.2570	8.988	0.3819	0.1344	80	0.42	010.60	0
010	Total N (8%)	0325	9.150	0.1000	8.988	0.3819	0.1344	80	0.42	010.60	0
010	Total N (8%)	0029	9.154	0.0849	8.988	0.3819	0.1344	80	0.43	010.60	0
010	Total N (8%)	0106	9.160	0.1600	8.988	0.3819	0.1344	80	0.45	010.60	0
010	Total N (8%)	0136	9.170	0.1400	8.988	0.3819	0.1344	80	0.48	010.60	0
010	Total N (8%)	0416	9.180	0.0400	8.988	0.3819	0.1344	80	0.50	010.11	0
010	Total N (8%)	0255	9.183	0.2790	8.988	0.3819	0.1344	80	0.51	010.60	0
010	Total N (8%)	0494	9.185	0.0500	8.988	0.3819	0.1344	80	0.52	010.60	0
010	Total N (8%)	0527	9.188	0.0040	8.988	0.3819	0.1344	80	0.52	010.60	0
010	Total N (8%)	0105	9.190	0.0200	8.988	0.3819	0.1344	80	0.53	010.60	0
010	Total N (8%)	0105	9.195	0.0100	8.988	0.3819	0.1344	80	0.54	010.11	0
010	Total N (8%)	0073	9.195	0.0300	8.988	0.3819	0.1344	80	0.54	010.60	0
010	Total N (8%)	0405	9.200	0.0400	8.988	0.3819	0.1344	80	0.55	010.60	0
010	Total N (8%)	0525	9.215	0.0700	8.988	0.3819	0.1344	80	0.59	010.60	0
010	Total N (8%)	0035	9.220	0.0000	8.988	0.3819	0.1344	80	0.61	010.60	0
010	Total N (8%)	0177	9.223	0.1380	8.988	0.3819	0.1344	80	0.61	010.60	0
010	Total N (8%)	0231	9.235	0.0300	8.988	0.3819	0.1344	80	0.65	010.60	0
010	Total N (8%)	0356	9.240	0.0400	8.988	0.3819	0.1344	80	0.66	010.60	0
010	Total N (8%)	0040	9.250	0.1000	8.988	0.3819	0.1344	80	0.69	010.60	0
010	Total N (8%)	0025	9.271	0.0120	8.988	0.3819	0.1344	80	0.74	010.60	0
010	Total N (8%)	0043	9.275	0.1100	8.988	0.3819	0.1344	80	0.75	010.60	0
010	Total N (8%)	0169	9.290	0.0600	8.988	0.3819	0.1344	80	0.79	010.60	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 N (8%)	0543	9.290	0.2000	8.988	0.3819	0.1344	80	0.79	010.60	0
010	Total N (8%)	0292	9.315	0.0100	8.988	0.3819	0.1344	80	0.86	010.60	0
010	Total N (8%)	0390	9.340	0.0200	8.988	0.3819	0.1344	80	0.92	010.60	0
010	Total N (8%)	0485	9.381	0.2320	8.988	0.3819	0.1344	80	1.03	010.60	0
010	Total N (8%)	0037	9.395	0.0290	8.988	0.3819	0.1344	80	1.06	010.60	0
010	Total N (8%)	0550	9.400	0.7600	8.988	0.3819	0.1344	80	1.08	010.60	0
010	Total N (8%)	0023	9.400	0.0000	8.988	0.3819	0.1344	80	1.08	010.60	0
010	Total N (8%)	0481	9.410	0.0000	8.988	0.3819	0.1344	80	1.10	010.60	0
010	Total N (8%)	0360	9.450	0.1200	8.988	0.3819	0.1344	80	1.21	010.60	0
010	Total N (8%)	0096	9.885‡	0.0500	8.988	0.3819	0.1344	80	2.35	010.60	0
010	Total N (8%)	0561	9.985‡	0.0100	8.988	0.3819	0.1344	80	2.61	010.60	0
010	Total N (8%)	0476	11.21‡	0.0707	8.988	0.3819	0.1344	80	5.82	010.99	0
010	Total N (8%)	0234	8.500	1.000	8.988	0.3819	0.1344	80	-1.28	010.60	1
010	Total N (8%)	0422	8.700	1.000	8.988	0.3819	0.1344	80	-0.76	010.60	1
010	Total N (8%)	0516	9.300	1.140	8.988	0.3819	0.1344	80	0.82	010.60	1
010	Total N (8%)	0041	0.6750†	0.2500	8.988	0.3819	0.1344	80	-21.77	010.60	2
020	Total P2O5 (%)	0472	3.620	0.2800	4.024	0.1527	0.0901	50	-2.64	020.50	0
020	Total P2O5 (%)	0543	3.660	0.0600	4.024	0.1527	0.0901	50	-2.38	020.50	0
020	Total P2O5 (%)	0416	3.715	0.0500	4.024	0.1527	0.0901	50	-2.02	020.20	0
020	Total P2O5 (%)	0255	3.755	0.2310	4.024	0.1527	0.0901	50	-1.76	020.50	0
020	Total P2O5 (%)	0371	3.770	0.0200	4.024	0.1527	0.0901	50	-1.66	020.20	0
020	Total P2O5 (%)	0522	3.780	0.0100	4.024	0.1527	0.0901	50	-1.60	020.20	0
020	Total P2O5 (%)	0095	3.840	0.0400	4.024	0.1527	0.0901	50	-1.20	020.10	0
020	Total P2O5 (%)	0498	3.850	0.1000	4.024	0.1527	0.0901	50	-1.14	020.20	0
020	Total P2O5 (%)	0389	3.870	0.0400	4.024	0.1527	0.0901	50	-1.01	020.50	0
020	Total P2O5 (%)	0309	3.895	0.0300	4.024	0.1527	0.0901	50	-0.84	020.20	0
020	Total P2O5 (%)	0550	3.960	0.1200	4.024	0.1527	0.0901	50	-0.42	020.20	0
020	Total P2O5 (%)	0482	3.960	0.5400	4.024	0.1527	0.0901	50	-0.42	020.50	0
020	Total P2O5 (%)	0481	3.965	0.0100	4.024	0.1527	0.0901	50	-0.39	020.20	0
020	Total P2O5 (%)	0546	3.965	0.0060	4.024	0.1527	0.0901	50	-0.39	020.50	0
020	Total P2O5 (%)	0035	3.970	0.0800	4.024	0.1527	0.0901	50	-0.35	020.40	0
020	Total P2O5 (%)	0521	3.971	0.2281	4.024	0.1527	0.0901	50	-0.35	020.50	0
020	Total P2O5 (%)	0513	3.975	0.0100	4.024	0.1527	0.0901	50	-0.32	020.99	0
020	Total P2O5 (%)	0547	3.980	0.0000	4.024	0.1527	0.0901	50	-0.29	020.50	0
020	Total P2O5 (%)	0169	3.985	0.0500	4.024	0.1527	0.0901	50	-0.25	020.20	0
020	Total P2O5 (%)	0096	3.985	0.2100	4.024	0.1527	0.0901	50	-0.25	020.40	0
020	Total P2O5 (%)	0177	3.988	0.0130	4.024	0.1527	0.0901	50	-0.23	020.20	0
020	Total P2O5 (%)	0559	3.995	0.0100	4.024	0.1527	0.0901	50	-0.19	020.99	0
020	Total P2O5 (%)	0234	4.000	0.0000	4.024	0.1527	0.0901	50	-0.16	020.50	0
020	Total P2O5 (%)	0561	4.005	0.0500	4.024	0.1527	0.0901	50	-0.12	020.20	0
020	Total P2O5 (%)	0451	4.010	0.0400	4.024	0.1527	0.0901	50	-0.09	020.50	0
020	Total P2O5 (%)	0493	4.025	0.0500	4.024	0.1527	0.0901	50	0.01	020.20	0
020	Total P2O5 (%)	0510	4.028	0.0109	4.024	0.1527	0.0901	50	0.03	020.20	0
020	Total P2O5 (%)	0452	4.050	0.0200	4.024	0.1527	0.0901	50	0.17	020.50	0
020	Total P2O5 (%)	0231	4.055	0.0500	4.024	0.1527	0.0901	50	0.20	020.20	0
020	Total P2O5 (%)	0450	4.055	0.2300	4.024	0.1527	0.0901	50	0.20	020.20	0
020	Total P2O5 (%)	0456	4.065	0.0500	4.024	0.1527	0.0901	50	0.27	020.40	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 P2O5 (%)	0501	4.065	0.0100	4.024	0.1527	0.0901	50	0.27	020.50	0
020	Total P2O5 (%)	0493	4.075	0.0500	4.024	0.1527	0.0901	50	0.33	020.10	0
020	Total P2O5 (%)	0390	4.075	0.0100	4.024	0.1527	0.0901	50	0.33	020.50	0
020	Total P2O5 (%)	0114	4.085	0.2900	4.024	0.1527	0.0901	50	0.40	020.10	0
020	Total P2O5 (%)	0356	4.085	0.0700	4.024	0.1527	0.0901	50	0.40	020.20	0
020	Total P2O5 (%)	0368	4.096	0.0263	4.024	0.1527	0.0901	50	0.47	020.50	0
020	Total P2O5 (%)	0524	4.097	0.2428	4.024	0.1527	0.0901	50	0.48	020.50	0
020	Total P2O5 (%)	0534	4.110	0.0000	4.024	0.1527	0.0901	50	0.56	020.20	0
020	Total P2O5 (%)	0292	4.120	0.0200	4.024	0.1527	0.0901	50	0.63	020.20	0
020	Total P2O5 (%)	0231	4.125	0.0300	4.024	0.1527	0.0901	50	0.66	020.50	0
020	Total P2O5 (%)	0027	4.170	0.5200	4.024	0.1527	0.0901	50	0.96	020.20	0
020	Total P2O5 (%)	0444	4.170	0.0000	4.024	0.1527	0.0901	50	0.96	020.50	0
020	Total P2O5 (%)	0405	4.210	0.0400	4.024	0.1527	0.0901	50	1.22	020.20	0
020	Total P2O5 (%)	0527	4.230	0.0150	4.024	0.1527	0.0901	50	1.35	020.50	0
020	Total P2O5 (%)	0324	4.275	0.0500	4.024	0.1527	0.0901	50	1.64	020.20	0
020	Total P2O5 (%)	0525	4.395	0.1700	4.024	0.1527	0.0901	50	2.43	020.50	0
020	Total P2O5 (%)	0476	4.600	0.1000	4.024	0.1527	0.0901	50	3.77	020.20	0
020	Total P2O5 (%)	0433	5.725	0.0900	4.024	0.1527	0.0901	50	11.14	020.50	0
020	Total P2O5 (%)	0515	5.791	0.1326	4.024	0.1527	0.0901	50	11.57	020.99	0
020	Total P2O5 (%)	0422	3.500	0.6400	4.024	0.1527	0.0901	50	-3.43	020.50	1
020	Total P2O5 (%)	0516	4.438	0.7030	4.024	0.1527	0.0901	50	2.71	020.50	1
040	Indirect Available P2O5 (4%)	0405	4.210±	0.0400				1		040.99	0
041	Direct Available P2O5 (4%)	0072	2.840†	0.2040	4.012	0.1223	0.0851	48	-9.58	041.51	0
041	Direct Available P2O5 (4%)	0377	3.600	0.0000	4.012	0.1223	0.0851	48	-3.37	041.51	0
041	Direct Available P2O5 (4%)	0220	3.840	0.0800	4.012	0.1223	0.0851	48	-1.40	041.11	0
041	Direct Available P2O5 (4%)	0486	3.840	0.0000	4.012	0.1223	0.0851	48	-1.40	041.51	0
041	Direct Available P2O5 (4%)	0055	3.865	0.0100	4.012	0.1223	0.0851	48	-1.20	041.21	0
041	Direct Available P2O5 (4%)	0037	3.871	0.0870	4.012	0.1223	0.0851	48	-1.15	041.21	0
041	Direct Available P2O5 (4%)	0553	3.875	0.0700	4.012	0.1223	0.0851	48	-1.12	041.20	0
041	Direct Available P2O5 (4%)	0106	3.885	0.1100	4.012	0.1223	0.0851	48	-1.04	041.21	0
041	Direct Available P2O5 (4%)	0472	3.885	0.2700	4.012	0.1223	0.0851	48	-1.04	041.21	0
041	Direct Available P2O5 (4%)	0231	3.905	0.1300	4.012	0.1223	0.0851	48	-0.87	041.50	0
041	Direct Available P2O5 (4%)	0073	3.925	0.1700	4.012	0.1223	0.0851	48	-0.71	041.11	0
041	Direct Available P2O5 (4%)	0029	3.935	0.1100	4.012	0.1223	0.0851	48	-0.63	041.40	0
041	Direct Available P2O5 (4%)	0405	3.940	0.0800	4.012	0.1223	0.0851	48	-0.59	041.51	0
041	Direct Available P2O5 (4%)	0102	3.950	0.1000	4.012	0.1223	0.0851	48	-0.50	041.10	0
041	Direct Available P2O5 (4%)	0513	3.960	0.0200	4.012	0.1223	0.0851	48	-0.42	041.11	0
041	Direct Available P2O5 (4%)	0537	3.972	0.1612	4.012	0.1223	0.0851	48	-0.32	041.99	0
041	Direct Available P2O5 (4%)	0136	3.975	0.0900	4.012	0.1223	0.0851	48	-0.30	041.51	0
041	Direct Available P2O5 (4%)	0025	3.975	0.0500	4.012	0.1223	0.0851	48	-0.30	041.51	0
041	Direct Available P2O5 (4%)	0538	3.975	0.1300	4.012	0.1223	0.0851	48	-0.30	041.99	0
041	Direct Available P2O5 (4%)	0506	3.980	0.0000	4.012	0.1223	0.0851	48	-0.26	041.99	0
041	Direct Available P2O5 (4%)	0368	3.986	0.0146	4.012	0.1223	0.0851	48	-0.21	041.50	0
041	Direct Available P2O5 (4%)	0027	3.995	0.0500	4.012	0.1223	0.0851	48	-0.14	041.20	0
041	Direct Available P2O5 (4%)	0040	4.000	0.0000	4.012	0.1223	0.0851	48	-0.09	041.51	0
041	Direct Available P2O5 (4%)	0423	4.000	0.1000	4.012	0.1223	0.0851	48	-0.09	041.51	0
041	Direct Available P2O5 (4%)	0117	4.015	0.0500	4.012	0.1223	0.0851	48	0.03	041.11	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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041	Direct Available P2O5 (4%)	0531	4.025	0.0100	4.012	0.1223	0.0851	48	0.11	041.99	0
041	Direct Available P2O5 (4%)	0043	4.035	0.1900	4.012	0.1223	0.0851	48	0.19	041.51	0
041	Direct Available P2O5 (4%)	0536	4.035	0.0300	4.012	0.1223	0.0851	48	0.19	041.99	0
041	Direct Available P2O5 (4%)	0034	4.038	0.0333	4.012	0.1223	0.0851	48	0.21	041.40	0
041	Direct Available P2O5 (4%)	0041	4.040	0.1000	4.012	0.1223	0.0851	48	0.23	041.10	0
041	Direct Available P2O5 (4%)	0055	4.040	0.0600	4.012	0.1223	0.0851	48	0.23	041.11	0
041	Direct Available P2O5 (4%)	0560	4.041	0.0060	4.012	0.1223	0.0851	48	0.24	041.99	0
041	Direct Available P2O5 (4%)	0394	4.045	0.0090	4.012	0.1223	0.0851	48	0.27	041.21	0
041	Direct Available P2O5 (4%)	0494	4.045	0.1100	4.012	0.1223	0.0851	48	0.27	041.51	0
041	Direct Available P2O5 (4%)	0086	4.050	0.0250	4.012	0.1223	0.0851	48	0.32	041.10	0
041	Direct Available P2O5 (4%)	0533	4.055	0.1700	4.012	0.1223	0.0851	48	0.36	041.99	0
041	Direct Available P2O5 (4%)	0551	4.110	0.0200	4.012	0.1223	0.0851	48	0.80	041.99	0
041	Direct Available P2O5 (4%)	0231	4.115	0.1900	4.012	0.1223	0.0851	48	0.85	041.21	0
041	Direct Available P2O5 (4%)	0540	4.115	0.1900	4.012	0.1223	0.0851	48	0.85	041.99	0
041	Direct Available P2O5 (4%)	0549	4.125	0.0500	4.012	0.1223	0.0851	48	0.93	041.99	0
041	Direct Available P2O5 (4%)	0532	4.130	0.0800	4.012	0.1223	0.0851	48	0.97	041.99	0
041	Direct Available P2O5 (4%)	0485	4.152	0.0405	4.012	0.1223	0.0851	48	1.14	041.11	0
041	Direct Available P2O5 (4%)	0522	4.180	0.0200	4.012	0.1223	0.0851	48	1.38	041.21	0
041	Direct Available P2O5 (4%)	0360	4.195	0.0500	4.012	0.1223	0.0851	48	1.50	041.51	0
041	Direct Available P2O5 (4%)	0354	4.265	0.1300	4.012	0.1223	0.0851	48	2.07	041.21	0
041	Direct Available P2O5 (4%)	0072	4.279	0.2525	4.012	0.1223	0.0851	48	2.19	041.11	0
041	Direct Available P2O5 (4%)	0131	4.518	0.1310	4.012	0.1223	0.0851	48	4.14	041.50	0
041	Direct Available P2O5 (4%)	0518	4.650	0.1000	4.012	0.1223	0.0851	48	5.22	041.99	0
041	Direct Available P2O5 (4%)	0325	4.050	0.5000	4.012	0.1223	0.0851	48	0.31	041.50	1
041	Direct Available P2O5 (4%)	0023	6.400‡	0.0000	4.012	0.1223	0.0851	48	19.53	041.51	2
048	Water Soluble P2O5 (%)	0444	3.960	0.0400	3.995	0.0537	0.0550	4	-0.65	048.50	0
048	Water Soluble P2O5 (%)	0558	3.970	0.0200	3.995	0.0537	0.0550	4	-0.47	048.99	0
048	Water Soluble P2O5 (%)	0394	3.975	0.0100	3.995	0.0537	0.0550	4	-0.37	048.20	0
048	Water Soluble P2O5 (%)	0556	4.075	0.1500	3.995	0.0537	0.0550	4	1.49	048.99	0
050	Soluble K2O (6%)	0023	4.100†	0.0000	6.157	0.2438	0.1181	87	-8.43	050.52	0
050	Soluble K2O (6%)	0543	4.990†	0.1400	6.157	0.2438	0.1181	87	-4.78	050.52	0
050	Soluble K2O (6%)	0498	5.500†	0.0000	6.157	0.2438	0.1181	87	-2.69	050.99	0
050	Soluble K2O (6%)	0525	5.725	0.1500	6.157	0.2438	0.1181	87	-1.77	050.99	0
050	Soluble K2O (6%)	0390	5.755	0.2500	6.157	0.2438	0.1181	87	-1.65	050.50	0
050	Soluble K2O (6%)	0325	5.800	0.2000	6.157	0.2438	0.1181	87	-1.46	050.99	0
050	Soluble K2O (6%)	0096	5.825	0.1700	6.157	0.2438	0.1181	87	-1.36	050.99	0
050	Soluble K2O (6%)	0472	5.855	0.0900	6.157	0.2438	0.1181	87	-1.24	050.31	0
050	Soluble K2O (6%)	0481	5.885	0.0700	6.157	0.2438	0.1181	87	-1.11	050.99	0
050	Soluble K2O (6%)	0292	5.900	0.0400	6.157	0.2438	0.1181	87	-1.05	050.50	0
050	Soluble K2O (6%)	0136	5.910	0.1800	6.157	0.2438	0.1181	87	-1.01	050.52	0
050	Soluble K2O (6%)	0518	5.910	0.0000	6.157	0.2438	0.1181	87	-1.01	050.99	0
050	Soluble K2O (6%)	0371	5.925	0.0100	6.157	0.2438	0.1181	87	-0.95	050.99	0
050	Soluble K2O (6%)	0394	5.940	0.0800	6.157	0.2438	0.1181	87	-0.89	050.99	0
050	Soluble K2O (6%)	0558	5.945	0.0700	6.157	0.2438	0.1181	87	-0.87	050.99	0
050	Soluble K2O (6%)	0533	5.985	0.0100	6.157	0.2438	0.1181	87	-0.70	050.99	0
050	Soluble K2O (6%)	0547	5.990	0.0400	6.157	0.2438	0.1181	87	-0.68	050.51	0
050	Soluble K2O (6%)	0510	5.997	0.0024	6.157	0.2438	0.1181	87	-0.65	050.60	0



Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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050	Soluble K2O (6%)	0234	6.000	0.0000	6.157	0.2438	0.1181	87	-0.64	050.99	0
050	Soluble K2O (6%)	0220	6.010	0.0000	6.157	0.2438	0.1181	87	-0.60	050.00	0
050	Soluble K2O (6%)	0536	6.010	0.0800	6.157	0.2438	0.1181	87	-0.60	050.99	0
050	Soluble K2O (6%)	0561	6.010	0.0600	6.157	0.2438	0.1181	87	-0.60	050.99	0
050	Soluble K2O (6%)	0537	6.013	0.0194	6.157	0.2438	0.1181	87	-0.59	050.99	0
050	Soluble K2O (6%)	0456	6.015	0.1700	6.157	0.2438	0.1181	87	-0.58	050.61	0
050	Soluble K2O (6%)	0513	6.015	0.0700	6.157	0.2438	0.1181	87	-0.58	050.62	0
050	Soluble K2O (6%)	0433	6.015	0.0300	6.157	0.2438	0.1181	87	-0.58	050.99	0
050	Soluble K2O (6%)	0532	6.020	0.0800	6.157	0.2438	0.1181	87	-0.56	050.99	0
050	Soluble K2O (6%)	0309	6.025	0.1500	6.157	0.2438	0.1181	87	-0.54	050.30	0
050	Soluble K2O (6%)	0493	6.025	0.0300	6.157	0.2438	0.1181	87	-0.54	050.99	0
050	Soluble K2O (6%)	0360	6.040	0.0600	6.157	0.2438	0.1181	87	-0.48	050.52	0
050	Soluble K2O (6%)	0035	6.045	0.0700	6.157	0.2438	0.1181	87	-0.46	050.61	0
050	Soluble K2O (6%)	0538	6.050	0.0600	6.157	0.2438	0.1181	87	-0.44	050.99	0
050	Soluble K2O (6%)	0494	6.055	0.0700	6.157	0.2438	0.1181	87	-0.42	050.00	0
050	Soluble K2O (6%)	0540	6.055	0.1300	6.157	0.2438	0.1181	87	-0.42	050.99	0
050	Soluble K2O (6%)	0114	6.080	0.1600	6.157	0.2438	0.1181	87	-0.31	050.00	0
050	Soluble K2O (6%)	0560	6.086	0.0620	6.157	0.2438	0.1181	87	-0.29	050.99	0
050	Soluble K2O (6%)	0405	6.090	0.0600	6.157	0.2438	0.1181	87	-0.27	050.00	0
050	Soluble K2O (6%)	0422	6.115	0.2700	6.157	0.2438	0.1181	87	-0.17	050.50	0
050	Soluble K2O (6%)	0559	6.115	0.0100	6.157	0.2438	0.1181	87	-0.17	050.99	0
050	Soluble K2O (6%)	0377	6.120	0.0000	6.157	0.2438	0.1181	87	-0.15	050.52	0
050	Soluble K2O (6%)	0506	6.130	0.0000	6.157	0.2438	0.1181	87	-0.11	050.99	0
050	Soluble K2O (6%)	0515	6.134	0.4402	6.157	0.2438	0.1181	87	-0.09	050.99	0
050	Soluble K2O (6%)	0423	6.135	0.0700	6.157	0.2438	0.1181	87	-0.09	050.52	0
050	Soluble K2O (6%)	0037	6.137	0.0290	6.157	0.2438	0.1181	87	-0.08	050.62	0
050	Soluble K2O (6%)	0025	6.145	0.0100	6.157	0.2438	0.1181	87	-0.05	050.52	0
050	Soluble K2O (6%)	0043	6.145	0.0300	6.157	0.2438	0.1181	87	-0.05	050.52	0
050	Soluble K2O (6%)	0549	6.145	0.1100	6.157	0.2438	0.1181	87	-0.05	050.99	0
050	Soluble K2O (6%)	0551	6.145	0.0300	6.157	0.2438	0.1181	87	-0.05	050.99	0
050	Soluble K2O (6%)	0040	6.150	0.1000	6.157	0.2438	0.1181	87	-0.03	050.30	0
050	Soluble K2O (6%)	0531	6.150	0.1000	6.157	0.2438	0.1181	87	-0.03	050.99	0
050	Soluble K2O (6%)	0177	6.157	0.0463	6.157	0.2438	0.1181	87	0.00	050.99	0
050	Soluble K2O (6%)	0169	6.165	0.0300	6.157	0.2438	0.1181	87	0.03	050.60	0
050	Soluble K2O (6%)	0494	6.170	0.3600	6.157	0.2438	0.1181	87	0.06	050.52	0
050	Soluble K2O (6%)	0324	6.185	0.5700	6.157	0.2438	0.1181	87	0.12	050.50	0
050	Soluble K2O (6%)	0451	6.200	0.0200	6.157	0.2438	0.1181	87	0.18	050.99	0
050	Soluble K2O (6%)	0501	6.210	0.1600	6.157	0.2438	0.1181	87	0.22	050.99	0
050	Soluble K2O (6%)	0354	6.210	0.0400	6.157	0.2438	0.1181	87	0.22	050.52	0
050	Soluble K2O (6%)	0389	6.215	0.0100	6.157	0.2438	0.1181	87	0.24	050.99	0
050	Soluble K2O (6%)	0522	6.230	0.1600	6.157	0.2438	0.1181	87	0.30	050.00	0
050	Soluble K2O (6%)	0255	6.237	0.3350	6.157	0.2438	0.1181	87	0.33	050.99	0
050	Soluble K2O (6%)	0231	6.240	0.0000	6.157	0.2438	0.1181	87	0.34	050.00	0
050	Soluble K2O (6%)	0486	6.260	0.0800	6.157	0.2438	0.1181	87	0.42	050.52	0
050	Soluble K2O (6%)	0072	6.266	0.3856	6.157	0.2438	0.1181	87	0.45	050.52	0
050	Soluble K2O (6%)	0521	6.273	0.3416	6.157	0.2438	0.1181	87	0.48	050.99	0
050	Soluble K2O (6%)	0553	6.300	0.2000	6.157	0.2438	0.1181	87	0.59	050.99	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				
050	Soluble K2O (6%)	0416	6.320	0.1600	6.157	0.2438	0.1181	87	0.67	050.00	0
050	Soluble K2O (6%)	0452	6.320	0.0200	6.157	0.2438	0.1181	87	0.67	050.51	0
050	Soluble K2O (6%)	0072	6.329	0.2028	6.157	0.2438	0.1181	87	0.71	050.00	0
050	Soluble K2O (6%)	0034	6.365	0.0272	6.157	0.2438	0.1181	87	0.86	050.62	0
050	Soluble K2O (6%)	0485	6.401	0.0910	6.157	0.2438	0.1181	87	1.00	050.52	0
050	Soluble K2O (6%)	0106	6.405	0.0700	6.157	0.2438	0.1181	87	1.02	050.50	0
050	Soluble K2O (6%)	0368	6.411	0.0503	6.157	0.2438	0.1181	87	1.04	050.51	0
050	Soluble K2O (6%)	0073	6.435	0.0300	6.157	0.2438	0.1181	87	1.14	050.30	0
050	Soluble K2O (6%)	0055	6.445	0.1700	6.157	0.2438	0.1181	87	1.18	050.50	0
050	Soluble K2O (6%)	0055	6.450	0.2600	6.157	0.2438	0.1181	87	1.20	050.00	0
050	Soluble K2O (6%)	0444	6.480	0.1600	6.157	0.2438	0.1181	87	1.33	050.50	0
050	Soluble K2O (6%)	0527	6.488	0.0343	6.157	0.2438	0.1181	87	1.36	050.99	0
050	Soluble K2O (6%)	0029	6.505	0.0500	6.157	0.2438	0.1181	87	1.43	050.62	0
050	Soluble K2O (6%)	0556	6.600	0.2000	6.157	0.2438	0.1181	87	1.82	050.99	0
050	Soluble K2O (6%)	0027	6.610	0.0600	6.157	0.2438	0.1181	87	1.86	050.99	0
050	Soluble K2O (6%)	0546	6.618	0.0470	6.157	0.2438	0.1181	87	1.89	050.99	0
050	Soluble K2O (6%)	0095	6.640‡	0.3200	6.157	0.2438	0.1181	87	1.98	050.62	0
050	Soluble K2O (6%)	0476	6.688‡	0.3615	6.157	0.2438	0.1181	87	2.18	050.60	0
050	Soluble K2O (6%)	0102	6.700‡	0.4000	6.157	0.2438	0.1181	87	2.23	050.00	0
050	Soluble K2O (6%)	0131	6.802‡	0.0530	6.157	0.2438	0.1181	87	2.65	050.51	0
050	Soluble K2O (6%)	0550	6.875‡	0.4700	6.157	0.2438	0.1181	87	2.95	050.00	0
050	Soluble K2O (6%)	0516	7.778‡	0.2400	6.157	0.2438	0.1181	87	6.65	050.99	0
050	Soluble K2O (6%)	0356	6.100	0.7000	6.157	0.2438	0.1181	87	-0.23	050.30	1
050	Soluble K2O (6%)	0524	6.209	0.6978	6.157	0.2438	0.1181	87	0.21	050.99	1
050	Soluble K2O (6%)	0482	6.440	0.8800	6.157	0.2438	0.1181	87	1.16	050.99	1
101	Acid Soluble Ca (%)	0553	0.0010	0.0000	0.0041	0.0029	0.0005	5	-0.94	101.00	0
101	Acid Soluble Ca (%)	0136	0.0025	0.0010	0.0041	0.0029	0.0005	5	-0.49	101.33	0
101	Acid Soluble Ca (%)	0096	0.0035	0.0010	0.0041	0.0029	0.0005	5	-0.19	101.30	0
101	Acid Soluble Ca (%)	0035	0.0050	0.0000	0.0041	0.0029	0.0005	5	0.26	101.30	0
101	Acid Soluble Ca (%)	0527	0.0087	0.0007	0.0041	0.0029	0.0005	5	1.35	101.33	0
101	Acid Soluble Ca (%)	0389	0.0000	0.0000	0.0041	0.0029	0.0005	5		101.99	4
101	Acid Soluble Ca (%)	0354	< 0.01		0.0041	0.0029	0.0005	5		101.30	5
121	Acid Soluble Mg (%)	0136	0.0010	0.0000	0.0024	0.0020	0.0005	8	-0.63	121.33	0
121	Acid Soluble Mg (%)	0086	0.0012	0.0002	0.0024	0.0020	0.0005	8	-0.54	121.33	0
121	Acid Soluble Mg (%)	0389	0.0014	0.0001	0.0024	0.0020	0.0005	8	-0.48	121.99	0
121	Acid Soluble Mg (%)	0515	0.0016	0.0001	0.0024	0.0020	0.0005	8	-0.39	121.99	0
121	Acid Soluble Mg (%)	0527	0.0017	0.0001	0.0024	0.0020	0.0005	8	-0.34	121.33	0
121	Acid Soluble Mg (%)	0553	0.0020	0.0000	0.0024	0.0020	0.0005	8	-0.19	121.00	0
121	Acid Soluble Mg (%)	0106	0.0051	0.0006	0.0024	0.0020	0.0005	8	1.20	121.33	0
121	Acid Soluble Mg (%)	0515	0.0056	0.0026	0.0024	0.0020	0.0005	8	1.43	121.33	0
121	Acid Soluble Mg (%)	0516	0.0835	0.0870	0.0024	0.0020	0.0005	8	36.29	121.99	1
121	Acid Soluble Mg (%)	0524	0.0000	0.0000	0.0024	0.0020	0.0005	8		121.99	4
121	Acid Soluble Mg (%)	0354	< 0.01		0.0024	0.0020	0.0005	8		121.30	5
143	Elemental S (%)	0472	0.0150	0.0100				2		143.99	0
143	Elemental S (%)	0389	0.0220	0.0000				2		143.99	0
148	Total S (%)	0096	0.0140	0.0000	0.0499	0.0395	0.0157	5	-0.79	148.99	0
148	Total S (%)	0546	0.0230	0.0083	0.0499	0.0395	0.0157	5	-0.60	148.07	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				
148	Total S (%)	0515	0.0277	0.0183	0.0499	0.0395	0.0157	5	-0.49	148.07	0
148	Total S (%)	0354	0.0850	0.0100	0.0499	0.0395	0.0157	5	0.77	148.99	0
148	Total S (%)	0516	0.1000	0.0420	0.0499	0.0395	0.0157	5	1.11	148.99	0
148	Total S (%)	0527	< 0.001		0.0499	0.0395	0.0157	5		148.07	5
149	S - HNO3 soluble (%)	0524	0.0169	0.0021				1		149.04	0
151	Acid Soluble As (ppm)	0501	0.7915	0.0610	1.012	0.2764	0.1778	8	-0.80	151.30	0
151	Acid Soluble As (ppm)	0136	0.8150	0.0500	1.012	0.2764	0.1778	8	-0.71	151.33	0
151	Acid Soluble As (ppm)	0255	0.8215	0.2950	1.012	0.2764	0.1778	8	-0.69	151.30	0
151	Acid Soluble As (ppm)	0450	0.8500	0.1000	1.012	0.2764	0.1778	8	-0.59	151.30	0
151	Acid Soluble As (ppm)	0524	0.9995	0.1210	1.012	0.2764	0.1778	8	-0.05	151.30	0
151	Acid Soluble As (ppm)	0506	1.085	0.0100	1.012	0.2764	0.1778	8	0.26	151.99	0
151	Acid Soluble As (ppm)	0527	1.309	0.3955	1.012	0.2764	0.1778	8	1.07	151.33	0
151	Acid Soluble As (ppm)	0368	2.795	0.3900	1.012	0.2764	0.1778	8	6.45	151.34	0
151	Acid Soluble As (ppm)	0515	2.371	0.8500	1.012	0.2764	0.1778	8	4.92	151.34	1
151	Acid Soluble As (ppm)	0515	0.0000	0.0000	1.012	0.2764	0.1778	8		151.33	4
151	Acid Soluble As (ppm)	0550	< 0.08		1.012	0.2764	0.1778	8		151.00	5
151	Acid Soluble As (ppm)	0405	< 3		1.012	0.2764	0.1778	8		151.99	5
151	Acid Soluble As (ppm)	0117	< 10		1.012	0.2764	0.1778	8		151.33	5
151	Acid Soluble As (ppm)	0027	< 10		1.012	0.2764	0.1778	8		151.99	5
165	Acid Soluble B (%)	0354	0.0900	0.0000	0.1009	0.0109	0.0059	14	-1.00	165.30	0
165	Acid Soluble B (%)	0472	0.0900	0.0000	0.1009	0.0109	0.0059	14	-1.00	165.99	0
165	Acid Soluble B (%)	0106	0.0918	0.0080	0.1009	0.0109	0.0059	14	-0.83	165.30	0
165	Acid Soluble B (%)	0423	0.0935	0.0030	0.1009	0.0109	0.0059	14	-0.68	165.99	0
165	Acid Soluble B (%)	0086	0.0936	0.0058	0.1009	0.0109	0.0059	14	-0.67	165.99	0
165	Acid Soluble B (%)	0368	0.0976	0.0020	0.1009	0.0109	0.0059	14	-0.30	165.99	0
165	Acid Soluble B (%)	0524	0.0982	0.0008	0.1009	0.0109	0.0059	14	-0.25	165.99	0
165	Acid Soluble B (%)	0444	0.1000	0.0000	0.1009	0.0109	0.0059	14	-0.08	165.30	0
165	Acid Soluble B (%)	0546	0.1002	0.0002	0.1009	0.0109	0.0059	14	-0.06	165.30	0
165	Acid Soluble B (%)	0451	0.1030	0.0040	0.1009	0.0109	0.0059	14	0.20	165.30	0
165	Acid Soluble B (%)	0482	0.1050	0.0100	0.1009	0.0109	0.0059	14	0.38	165.99	0
165	Acid Soluble B (%)	0527	0.1149	0.0016	0.1009	0.0109	0.0059	14	1.29	165.99	0
165	Acid Soluble B (%)	0516	0.1260	0.0240	0.1009	0.0109	0.0059	14	2.31	165.99	0
165	Acid Soluble B (%)	0515	0.1440	0.0233	0.1009	0.0109	0.0059	14	3.96	165.99	0
181	Acid Soluble Cd (ppm)	0405	0.0950	0.0100	0.1547	0.0461	0.0182	10	-1.30	181.99	0
181	Acid Soluble Cd (ppm)	0255	0.1175	0.0170	0.1547	0.0461	0.0182	10	-0.81	181.30	0
181	Acid Soluble Cd (ppm)	0524	0.1233	0.0100	0.1547	0.0461	0.0182	10	-0.68	181.30	0
181	Acid Soluble Cd (ppm)	0136	0.1400	0.0000	0.1547	0.0461	0.0182	10	-0.32	181.33	0
181	Acid Soluble Cd (ppm)	0501	0.1480	0.0000	0.1547	0.0461	0.0182	10	-0.15	181.30	0
181	Acid Soluble Cd (ppm)	0450	0.1500	0.1000	0.1547	0.0461	0.0182	10	-0.10	181.30	0
181	Acid Soluble Cd (ppm)	0220	0.1650	0.0300	0.1547	0.0461	0.0182	10	0.22	181.99	0
181	Acid Soluble Cd (ppm)	0394	0.1707	0.0002	0.1547	0.0461	0.0182	10	0.35	181.30	0
181	Acid Soluble Cd (ppm)	0506	0.2140	0.0040	0.1547	0.0461	0.0182	10	1.28	181.99	0
181	Acid Soluble Cd (ppm)	0389	0.2785	0.0110	0.1547	0.0461	0.0182	10	2.68	181.30	0
181	Acid Soluble Cd (ppm)	0550	143.8	0.4700	0.1547	0.0461	0.0182	10	3114.82	181.00	2
181	Acid Soluble Cd (ppm)	0515	0.0000	0.0000	0.1547	0.0461	0.0182	10		181.33	4
181	Acid Soluble Cd (ppm)	0515	0.0000	0.0000	0.1547	0.0461	0.0182	10		181.34	4
181	Acid Soluble Cd (ppm)	0527	< 0.0001		0.1547	0.0461	0.0182	10		181.33	5

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 Cd (ppm)	0368	< 0.1		0.1547	0.0461	0.0182	10		181.34	5
181	Acid Soluble Cd (ppm)	0117	< 5		0.1547	0.0461	0.0182	10		181.33	5
181	Acid Soluble Cd (ppm)	0027	< 10		0.1547	0.0461	0.0182	10		181.99	5
191	Acid Soluble Cr (ppm)	0394	0.9226	0.0279	3.502	2.304	0.4493	17	-1.12	191.30	0
191	Acid Soluble Cr (ppm)	0368	1.420	0.3800	3.502	2.304	0.4493	17	-0.90	191.34	0
191	Acid Soluble Cr (ppm)	0096	1.700	0.0000	3.502	2.304	0.4493	17	-0.78	191.30	0
191	Acid Soluble Cr (ppm)	0527	1.905	0.1070	3.502	2.304	0.4493	17	-0.69	191.33	0
191	Acid Soluble Cr (ppm)	0450	2.000	0.0000	3.502	2.304	0.4493	17	-0.65	191.30	0
191	Acid Soluble Cr (ppm)	0501	2.030	0.0600	3.502	2.304	0.4493	17	-0.64	191.30	0
191	Acid Soluble Cr (ppm)	0405	2.050	0.1000	3.502	2.304	0.4493	17	-0.63	191.99	0
191	Acid Soluble Cr (ppm)	0524	2.169	0.5863	3.502	2.304	0.4493	17	-0.58	191.30	0
191	Acid Soluble Cr (ppm)	0506	2.995	0.1700	3.502	2.304	0.4493	17	-0.22	191.99	0
191	Acid Soluble Cr (ppm)	0515	3.630	1.022	3.502	2.304	0.4493	17	0.06	191.34	0
191	Acid Soluble Cr (ppm)	0389	3.996	0.2350	3.502	2.304	0.4493	17	0.21	191.30	0
191	Acid Soluble Cr (ppm)	0482	4.110	0.1800	3.502	2.304	0.4493	17	0.26	191.30	0
191	Acid Soluble Cr (ppm)	0220	4.350	0.5000	3.502	2.304	0.4493	17	0.37	191.99	0
191	Acid Soluble Cr (ppm)	0035	5.380	0.4000	3.502	2.304	0.4493	17	0.82	191.30	0
191	Acid Soluble Cr (ppm)	0515	7.255	2.908	3.502	2.304	0.4493	17	1.63	191.33	0
191	Acid Soluble Cr (ppm)	0136	7.390	0.7800	3.502	2.304	0.4493	17	1.69	191.33	0
191	Acid Soluble Cr (ppm)	0037	8.481	0.1820	3.502	2.304	0.4493	17	2.16	191.33	0
191	Acid Soluble Cr (ppm)	0550	2,069	6.000	3.502	2.304	0.4493	17	896.37	191.00	2
191	Acid Soluble Cr (ppm)	0027	< 10		3.502	2.304	0.4493	17		191.30	5
202	Acid Soluble Co (ppm)	0423	0.3940	0.0120	0.8531	0.1300	0.1283	13	-3.53	202.32	0
202	Acid Soluble Co (ppm)	0546	0.6937	0.2172	0.8531	0.1300	0.1283	13	-1.23	202.33	0
202	Acid Soluble Co (ppm)	0086	0.7758	0.0163	0.8531	0.1300	0.1283	13	-0.60	202.33	0
202	Acid Soluble Co (ppm)	0515	0.7775	0.9870	0.8531	0.1300	0.1283	13	-0.58	202.34	0
202	Acid Soluble Co (ppm)	0035	0.8060	0.0540	0.8531	0.1300	0.1283	13	-0.36	202.30	0
202	Acid Soluble Co (ppm)	0255	0.8190	0.0180	0.8531	0.1300	0.1283	13	-0.26	202.99	0
202	Acid Soluble Co (ppm)	0389	0.8540	0.0020	0.8531	0.1300	0.1283	13	0.01	202.30	0
202	Acid Soluble Co (ppm)	0524	0.8680	0.0474	0.8531	0.1300	0.1283	13	0.11	202.30	0
202	Acid Soluble Co (ppm)	0220	0.8900	0.0200	0.8531	0.1300	0.1283	13	0.28	202.99	0
202	Acid Soluble Co (ppm)	0368	0.9400	0.2000	0.8531	0.1300	0.1283	13	0.67	202.34	0
202	Acid Soluble Co (ppm)	0527	0.9678	0.0019	0.8531	0.1300	0.1283	13	0.88	202.33	0
202	Acid Soluble Co (ppm)	0405	1.000	0.0000	0.8531	0.1300	0.1283	13	1.13	202.99	0
202	Acid Soluble Co (ppm)	0501	1.041	0.0920	0.8531	0.1300	0.1283	13	1.45	202.34	0
202	Acid Soluble Co (ppm)	0515	1.464	2.802	0.8531	0.1300	0.1283	13	4.70	202.33	1
202	Acid Soluble Co (ppm)	0550	< 0.09		0.8531	0.1300	0.1283	13		202.33	5
202	Acid Soluble Co (ppm)	0027	< 10		0.8531	0.1300	0.1283	13		202.99	5
221	Acid Soluble Cu (0.2%)	0095	0.1600†	0.0000	0.2062	0.0142	0.0076	62	-3.25	221.30	0
221	Acid Soluble Cu (0.2%)	0513	0.1750†	0.0100	0.2062	0.0142	0.0076	62	-2.19	221.00	0
221	Acid Soluble Cu (0.2%)	0255	0.1785†	0.0070	0.2062	0.0142	0.0076	62	-1.95	221.30	0
221	Acid Soluble Cu (0.2%)	0102	0.1790†	0.0044	0.2062	0.0142	0.0076	62	-1.91	221.30	0
221	Acid Soluble Cu (0.2%)	0324	0.1805†	0.0050	0.2062	0.0142	0.0076	62	-1.81	221.30	0
221	Acid Soluble Cu (0.2%)	0521	0.1883	0.0111	0.2062	0.0142	0.0076	62	-1.26	221.32	0
221	Acid Soluble Cu (0.2%)	0450	0.1900	0.0000	0.2062	0.0142	0.0076	62	-1.14	221.30	0
221	Acid Soluble Cu (0.2%)	0055	0.1900	0.0000	0.2062	0.0142	0.0076	62	-1.14	221.33	0
221	Acid Soluble Cu (0.2%)	0486	0.1900	0.0000	0.2062	0.0142	0.0076	62	-1.14	221.33	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				
221	Acid Soluble Cu (0.2%)	0106	0.1934	0.0034	0.2062	0.0142	0.0076	62	-0.90	221.33	0
221	Acid Soluble Cu (0.2%)	0524	0.1974	0.0237	0.2062	0.0142	0.0076	62	-0.62	221.99	0
221	Acid Soluble Cu (0.2%)	0559	0.1975	0.0010	0.2062	0.0142	0.0076	62	-0.61	221.99	0
221	Acid Soluble Cu (0.2%)	0550	0.1990	0.0180	0.2062	0.0142	0.0076	62	-0.50	221.00	0
221	Acid Soluble Cu (0.2%)	0394	0.1992	0.0011	0.2062	0.0142	0.0076	62	-0.49	221.32	0
221	Acid Soluble Cu (0.2%)	0498	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.00	0
221	Acid Soluble Cu (0.2%)	0534	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.00	0
221	Acid Soluble Cu (0.2%)	0023	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.30	0
221	Acid Soluble Cu (0.2%)	0234	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.30	0
221	Acid Soluble Cu (0.2%)	0354	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.30	0
221	Acid Soluble Cu (0.2%)	0433	0.2000	0.0020	0.2062	0.0142	0.0076	62	-0.43	221.30	0
221	Acid Soluble Cu (0.2%)	0472	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.30	0
221	Acid Soluble Cu (0.2%)	0220	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.32	0
221	Acid Soluble Cu (0.2%)	0481	0.2000	0.0000	0.2062	0.0142	0.0076	62	-0.43	221.99	0
221	Acid Soluble Cu (0.2%)	0027	0.2015	0.0110	0.2062	0.0142	0.0076	62	-0.33	221.99	0
221	Acid Soluble Cu (0.2%)	0117	0.2028	0.0001	0.2062	0.0142	0.0076	62	-0.24	221.33	0
221	Acid Soluble Cu (0.2%)	0029	0.2030	0.0058	0.2062	0.0142	0.0076	62	-0.22	221.00	0
221	Acid Soluble Cu (0.2%)	0451	0.2030	0.0000	0.2062	0.0142	0.0076	62	-0.22	221.30	0
221	Acid Soluble Cu (0.2%)	0485	0.2032	0.0192	0.2062	0.0142	0.0076	62	-0.21	221.00	0
221	Acid Soluble Cu (0.2%)	0177	0.2034	0.0062	0.2062	0.0142	0.0076	62	-0.20	221.33	0
221	Acid Soluble Cu (0.2%)	0086	0.2038	0.0114	0.2062	0.0142	0.0076	62	-0.17	221.33	0
221	Acid Soluble Cu (0.2%)	0390	0.2040	0.0020	0.2062	0.0142	0.0076	62	-0.15	221.99	0
221	Acid Soluble Cu (0.2%)	0560	0.2040	0.0100	0.2062	0.0142	0.0076	62	-0.15	221.99	0
221	Acid Soluble Cu (0.2%)	0389	0.2050	0.0035	0.2062	0.0142	0.0076	62	-0.09	221.99	0
221	Acid Soluble Cu (0.2%)	0506	0.2050	0.0100	0.2062	0.0142	0.0076	62	-0.08	221.99	0
221	Acid Soluble Cu (0.2%)	0558	0.2050	0.0100	0.2062	0.0142	0.0076	62	-0.08	221.99	0
221	Acid Soluble Cu (0.2%)	0527	0.2051	0.0017	0.2062	0.0142	0.0076	62	-0.08	221.33	0
221	Acid Soluble Cu (0.2%)	0360	0.2055	0.0010	0.2062	0.0142	0.0076	62	-0.05	221.30	0
221	Acid Soluble Cu (0.2%)	0501	0.2055	0.0150	0.2062	0.0142	0.0076	62	-0.05	221.99	0
221	Acid Soluble Cu (0.2%)	0040	0.2058	0.0016	0.2062	0.0142	0.0076	62	-0.03	221.00	0
221	Acid Soluble Cu (0.2%)	0368	0.2072	0.0010	0.2062	0.0142	0.0076	62	0.07	221.99	0
221	Acid Soluble Cu (0.2%)	0035	0.2085	0.0030	0.2062	0.0142	0.0076	62	0.16	221.30	0
221	Acid Soluble Cu (0.2%)	0096	0.2091	0.0029	0.2062	0.0142	0.0076	62	0.20	221.30	0
221	Acid Soluble Cu (0.2%)	0136	0.2095	0.0230	0.2062	0.0142	0.0076	62	0.23	221.33	0
221	Acid Soluble Cu (0.2%)	0049	0.2100	0.0200	0.2062	0.0142	0.0076	62	0.27	221.30	0
221	Acid Soluble Cu (0.2%)	0546	0.2116	0.0012	0.2062	0.0142	0.0076	62	0.38	221.33	0
221	Acid Soluble Cu (0.2%)	0037	0.2135	0.0050	0.2062	0.0142	0.0076	62	0.51	221.33	0
221	Acid Soluble Cu (0.2%)	0043	0.2150	0.0100	0.2062	0.0142	0.0076	62	0.62	221.32	0
221	Acid Soluble Cu (0.2%)	0027	0.2170	0.0100	0.2062	0.0142	0.0076	62	0.76	221.33	0
221	Acid Soluble Cu (0.2%)	0536	0.2200	0.0200	0.2062	0.0142	0.0076	62	0.97	221.00	0
221	Acid Soluble Cu (0.2%)	0551	0.2200	0.0200	0.2062	0.0142	0.0076	62	0.97	221.00	0
221	Acid Soluble Cu (0.2%)	0231	0.2200	0.0000	0.2062	0.0142	0.0076	62	0.97	221.30	0
221	Acid Soluble Cu (0.2%)	0444	0.2200	0.0000	0.2062	0.0142	0.0076	62	0.97	221.30	0
221	Acid Soluble Cu (0.2%)	0537	0.2205	0.0190	0.2062	0.0142	0.0076	62	1.01	221.00	0
221	Acid Soluble Cu (0.2%)	0516	0.2270	0.0080	0.2062	0.0142	0.0076	62	1.46	221.99	0
221	Acid Soluble Cu (0.2%)	0423	0.2275	0.0090	0.2062	0.0142	0.0076	62	1.50	221.32	0
221	Acid Soluble Cu (0.2%)	0482	0.2300	0.0600	0.2062	0.0142	0.0076	62	1.67	221.30	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				
221	Acid Soluble Cu (0.2%)	0405	0.2315	0.0030	0.2062	0.0142	0.0076	62	1.78	221.99	0
221	Acid Soluble Cu (0.2%)	0553	0.2345‡	0.0030	0.2062	0.0142	0.0076	62	1.99	221.00	0
221	Acid Soluble Cu (0.2%)	0371	0.2400‡	0.0000	0.2062	0.0142	0.0076	62	2.38	221.30	0
221	Acid Soluble Cu (0.2%)	0515	0.2498‡	0.0142	0.2062	0.0142	0.0076	62	3.07	221.99	0
221	Acid Soluble Cu (0.2%)	0515	0.2645‡	0.0027	0.2062	0.0142	0.0076	62	4.10	221.33	0
221	Acid Soluble Cu (0.2%)	0532	0.2800‡	0.0400	0.2062	0.0142	0.0076	62	5.19	221.99	0
221	Acid Soluble Cu (0.2%)	0540	0.2600‡	0.0800	0.2062	0.0142	0.0076	62	3.78	221.00	1
221	Acid Soluble Cu (0.2%)	0543	0.3150‡	0.0900	0.2062	0.0142	0.0076	62	7.65	221.33	1
241	Acid Soluble Fe (%)	0527	0.0021	0.0001	0.0041	0.0030	0.0015	9	-0.64	241.33	0
241	Acid Soluble Fe (%)	0524	0.0021	0.0002	0.0041	0.0030	0.0015	9	-0.63	241.99	0
241	Acid Soluble Fe (%)	0389	0.0027	0.0001	0.0041	0.0030	0.0015	9	-0.46	241.99	0
241	Acid Soluble Fe (%)	0035	0.0027	0.0004	0.0041	0.0030	0.0015	9	-0.44	241.30	0
241	Acid Soluble Fe (%)	0546	0.0030	0.0011	0.0041	0.0030	0.0015	9	-0.36	241.03	0
241	Acid Soluble Fe (%)	0136	0.0030	0.0000	0.0041	0.0030	0.0015	9	-0.35	241.33	0
241	Acid Soluble Fe (%)	0515	0.0045	0.0047	0.0041	0.0030	0.0015	9	0.10	241.99	0
241	Acid Soluble Fe (%)	0515	0.0112	0.0000	0.0041	0.0030	0.0015	9	2.20	241.33	0
241	Acid Soluble Fe (%)	0516	0.0165	0.0070	0.0041	0.0030	0.0015	9	3.84	241.99	0
241	Acid Soluble Fe (%)	0423	19.18	1.460	0.0041	0.0030	0.0015	9	5953.96	241.32	2
241	Acid Soluble Fe (%)	0354	< 0.01		0.0041	0.0030	0.0015	9		241.30	5
251	Acid Soluble Pb (ppm)	0389	0.2030	0.0100	1.739	1.668	0.2931	15	-0.92	251.30	0
251	Acid Soluble Pb (ppm)	0394	0.4217	0.2666	1.739	1.668	0.2931	15	-0.79	251.30	0
251	Acid Soluble Pb (ppm)	0255	0.4530	0.0520	1.739	1.668	0.2931	15	-0.77	251.30	0
251	Acid Soluble Pb (ppm)	0136	0.4750	0.0100	1.739	1.668	0.2931	15	-0.76	251.33	0
251	Acid Soluble Pb (ppm)	0527	0.5236	0.0163	1.739	1.668	0.2931	15	-0.73	251.33	0
251	Acid Soluble Pb (ppm)	0450	0.5500	0.1000	1.739	1.668	0.2931	15	-0.71	251.30	0
251	Acid Soluble Pb (ppm)	0501	0.6085	0.0110	1.739	1.668	0.2931	15	-0.68	251.30	0
251	Acid Soluble Pb (ppm)	0524	1.557	0.0113	1.739	1.668	0.2931	15	-0.11	251.30	0
251	Acid Soluble Pb (ppm)	0086	1.565	0.7840	1.739	1.668	0.2931	15	-0.10	251.33	0
251	Acid Soluble Pb (ppm)	0037	1.937	0.2100	1.739	1.668	0.2931	15	0.12	251.33	0
251	Acid Soluble Pb (ppm)	0515	2.686	1.125	1.739	1.668	0.2931	15	0.57	251.34	0
251	Acid Soluble Pb (ppm)	0515	2.906	0.1610	1.739	1.668	0.2931	15	0.70	251.33	0
251	Acid Soluble Pb (ppm)	0482	3.715	0.0300	1.739	1.668	0.2931	15	1.18	251.30	0
251	Acid Soluble Pb (ppm)	0035	5.245	1.150	1.739	1.668	0.2931	15	2.10	251.30	0
251	Acid Soluble Pb (ppm)	0506	9.310	0.4600	1.739	1.668	0.2931	15	4.54	251.99	0
251	Acid Soluble Pb (ppm)	0368	< 0.8		1.739	1.668	0.2931	15		251.34	5
251	Acid Soluble Pb (ppm)	0550	< 1.5		1.739	1.668	0.2931	15		251.00	5
251	Acid Soluble Pb (ppm)	0405	< 2		1.739	1.668	0.2931	15		251.99	5
251	Acid Soluble Pb (ppm)	0117	< 5		1.739	1.668	0.2931	15		251.33	5
251	Acid Soluble Pb (ppm)	0027	< 10		1.739	1.668	0.2931	15		251.30	5
261	Acid Soluble Mn (1%)	0486	0.9450†	0.0100	1.059	0.0718	0.0379	61	-1.58	261.35	0
261	Acid Soluble Mn (1%)	0558	0.9450†	0.0100	1.059	0.0718	0.0379	61	-1.58	261.99	0
261	Acid Soluble Mn (1%)	0513	0.9500	0.0200	1.059	0.0718	0.0379	61	-1.52	261.12	0
261	Acid Soluble Mn (1%)	0095	0.9550	0.0500	1.059	0.0718	0.0379	61	-1.45	261.99	0
261	Acid Soluble Mn (1%)	0481	0.9600	0.0000	1.059	0.0718	0.0379	61	-1.38	261.99	0
261	Acid Soluble Mn (1%)	0255	0.9625	0.0030	1.059	0.0718	0.0379	61	-1.34	261.99	0
261	Acid Soluble Mn (1%)	0537	0.9700	0.0600	1.059	0.0718	0.0379	61	-1.24	261.12	0
261	Acid Soluble Mn (1%)	0106	0.9816	0.0603	1.059	0.0718	0.0379	61	-1.08	261.35	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				
261	Acid Soluble Mn (1%)	0553	0.9875	0.0150	1.059	0.0718	0.0379	61	-0.99	261.11	0
261	Acid Soluble Mn (1%)	0550	0.9890	0.1620	1.059	0.0718	0.0379	61	-0.97	261.11	0
261	Acid Soluble Mn (1%)	0524	0.9947	0.1462	1.059	0.0718	0.0379	61	-0.89	261.99	0
261	Acid Soluble Mn (1%)	0023	1.000	0.0000	1.059	0.0718	0.0379	61	-0.82	261.30	0
261	Acid Soluble Mn (1%)	0234	1.000	0.0000	1.059	0.0718	0.0379	61	-0.82	261.31	0
261	Acid Soluble Mn (1%)	0543	1.000	0.0800	1.059	0.0718	0.0379	61	-0.82	261.35	0
261	Acid Soluble Mn (1%)	0561	1.005	0.0300	1.059	0.0718	0.0379	61	-0.75	261.35	0
261	Acid Soluble Mn (1%)	0220	1.015	0.0100	1.059	0.0718	0.0379	61	-0.61	261.34	0
261	Acid Soluble Mn (1%)	0506	1.015	0.0300	1.059	0.0718	0.0379	61	-0.61	261.99	0
261	Acid Soluble Mn (1%)	0394	1.019	0.0056	1.059	0.0718	0.0379	61	-0.55	261.34	0
261	Acid Soluble Mn (1%)	0055	1.020	0.0200	1.059	0.0718	0.0379	61	-0.54	261.35	0
261	Acid Soluble Mn (1%)	0096	1.021	0.0065	1.059	0.0718	0.0379	61	-0.52	261.30	0
261	Acid Soluble Mn (1%)	0540	1.025	0.0300	1.059	0.0718	0.0379	61	-0.47	261.12	0
261	Acid Soluble Mn (1%)	0451	1.030	0.0200	1.059	0.0718	0.0379	61	-0.40	261.32	0
261	Acid Soluble Mn (1%)	0501	1.030	0.0200	1.059	0.0718	0.0379	61	-0.40	261.99	0
261	Acid Soluble Mn (1%)	0086	1.038	0.0440	1.059	0.0718	0.0379	61	-0.29	261.35	0
261	Acid Soluble Mn (1%)	0559	1.039	0.0010	1.059	0.0718	0.0379	61	-0.28	261.99	0
261	Acid Soluble Mn (1%)	0527	1.047	0.0066	1.059	0.0718	0.0379	61	-0.17	261.35	0
261	Acid Soluble Mn (1%)	0177	1.049	0.0295	1.059	0.0718	0.0379	61	-0.14	261.35	0
261	Acid Soluble Mn (1%)	0371	1.050	0.0200	1.059	0.0718	0.0379	61	-0.12	261.32	0
261	Acid Soluble Mn (1%)	0136	1.050	0.0400	1.059	0.0718	0.0379	61	-0.12	261.35	0
261	Acid Soluble Mn (1%)	0546	1.054	0.0091	1.059	0.0718	0.0379	61	-0.07	261.35	0
261	Acid Soluble Mn (1%)	0034	1.055	0.0302	1.059	0.0718	0.0379	61	-0.05	261.34	0
261	Acid Soluble Mn (1%)	0360	1.060	0.0000	1.059	0.0718	0.0379	61	0.02	261.31	0
261	Acid Soluble Mn (1%)	0390	1.065	0.0100	1.059	0.0718	0.0379	61	0.09	261.30	0
261	Acid Soluble Mn (1%)	0389	1.072	0.0030	1.059	0.0718	0.0379	61	0.18	261.99	0
261	Acid Soluble Mn (1%)	0472	1.075	0.0100	1.059	0.0718	0.0379	61	0.23	261.30	0
261	Acid Soluble Mn (1%)	0043	1.075	0.0500	1.059	0.0718	0.0379	61	0.23	261.35	0
261	Acid Soluble Mn (1%)	0035	1.080	0.0200	1.059	0.0718	0.0379	61	0.30	261.30	0
261	Acid Soluble Mn (1%)	0029	1.081	0.0630	1.059	0.0718	0.0379	61	0.30	261.12	0
261	Acid Soluble Mn (1%)	0102	1.082	0.0770	1.059	0.0718	0.0379	61	0.32	261.30	0
261	Acid Soluble Mn (1%)	0485	1.084	0.0003	1.059	0.0718	0.0379	61	0.35	261.12	0
261	Acid Soluble Mn (1%)	0521	1.090	0.0427	1.059	0.0718	0.0379	61	0.43	261.34	0
261	Acid Soluble Mn (1%)	0231	1.090	0.0000	1.059	0.0718	0.0379	61	0.44	261.32	0
261	Acid Soluble Mn (1%)	0354	1.095	0.0100	1.059	0.0718	0.0379	61	0.50	261.30	0
261	Acid Soluble Mn (1%)	0531	1.100	0.1000	1.059	0.0718	0.0379	61	0.57	261.12	0
261	Acid Soluble Mn (1%)	0534	1.100	0.0000	1.059	0.0718	0.0379	61	0.57	261.12	0
261	Acid Soluble Mn (1%)	0368	1.100	0.0132	1.059	0.0718	0.0379	61	0.58	261.99	0
261	Acid Soluble Mn (1%)	0532	1.105	0.0300	1.059	0.0718	0.0379	61	0.64	261.99	0
261	Acid Soluble Mn (1%)	0040	1.109	0.0020	1.059	0.0718	0.0379	61	0.70	261.12	0
261	Acid Soluble Mn (1%)	0049	1.110	0.1200	1.059	0.0718	0.0379	61	0.71	261.32	0
261	Acid Soluble Mn (1%)	0444	1.115	0.0300	1.059	0.0718	0.0379	61	0.78	261.32	0
261	Acid Soluble Mn (1%)	0117	1.124	0.0034	1.059	0.0718	0.0379	61	0.91	261.35	0
261	Acid Soluble Mn (1%)	0027	1.128	0.1030	1.059	0.0718	0.0379	61	0.96	261.99	0
261	Acid Soluble Mn (1%)	0551	1.135	0.0700	1.059	0.0718	0.0379	61	1.06	261.12	0
261	Acid Soluble Mn (1%)	0037	1.142	0.0240	1.059	0.0718	0.0379	61	1.16	261.35	0
261	Acid Soluble Mn (1%)	0433	1.156	0.0040	1.059	0.0718	0.0379	61	1.35	261.30	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				
261	Acid Soluble Mn (1%)	0423	1.195‡	0.0100	1.059	0.0718	0.0379	61	1.90	261.34	0
261	Acid Soluble Mn (1%)	0516	1.247‡	0.0510	1.059	0.0718	0.0379	61	2.62	261.99	0
261	Acid Soluble Mn (1%)	0482	1.275‡	0.3900	1.059	0.0718	0.0379	61	3.01	261.31	0
261	Acid Soluble Mn (1%)	0405	1.280‡	0.0200	1.059	0.0718	0.0379	61	3.08	261.99	0
261	Acid Soluble Mn (1%)	0515	1.378‡	0.0238	1.059	0.0718	0.0379	61	4.44	261.99	0
261	Acid Soluble Mn (1%)	0536	1.570‡	0.0600	1.059	0.0718	0.0379	61	7.12	261.12	0
261	Acid Soluble Mn (1%)	0515	1.943‡	1.141	1.059	0.0718	0.0379	61	12.32	261.35	2
271	Water Soluble Mn (%)	0537	0.9305	0.0890	1.031	0.0794	0.0473	6	-1.12	271.00	0
271	Water Soluble Mn (%)	0536	0.9900	0.0400	1.031	0.0794	0.0473	6	-0.45	271.00	0
271	Water Soluble Mn (%)	0560	1.031	0.0770	1.031	0.0794	0.0473	6	0.00	271.99	0
271	Water Soluble Mn (%)	0356	1.040	0.0600	1.031	0.0794	0.0473	6	0.11	271.00	0
271	Water Soluble Mn (%)	0444	1.050	0.0000	1.031	0.0794	0.0473	6	0.22	271.30	0
271	Water Soluble Mn (%)	0027	1.142	0.0180	1.031	0.0794	0.0473	6	1.25	271.00	0
281	Acid Soluble Hg (ppm)	0501	0.0030	0.0020				2		281.30	0
281	Acid Soluble Hg (ppm)	0368	0.0070	0.0002				2		281.99	0
281	Acid Soluble Hg (ppm)	0450	0.0000	0.0000				2		281.30	4
281	Acid Soluble Hg (ppm)	0515	0.0000	0.0000				2		281.30	4
281	Acid Soluble Hg (ppm)	0527	< 0.0001					2		281.30	5
281	Acid Soluble Hg (ppm)	0550	< 0.001					2		281.00	5
281	Acid Soluble Hg (ppm)	0220	< 0.01					2		281.99	5
281	Acid Soluble Hg (ppm)	0117	< 0.2					2		281.00	5
289	Acid Soluble Mo (ppm)	0450	0.1000	0.0000	2.296	4.322	0.0823	5	-0.51	289.30	0
289	Acid Soluble Mo (ppm)	0524	0.1658	0.1186	2.296	4.322	0.0823	5	-0.49	289.30	0
289	Acid Soluble Mo (ppm)	0501	0.2230	0.0020	2.296	4.322	0.0823	5	-0.48	289.34	0
289	Acid Soluble Mo (ppm)	0255	0.9905	0.2910	2.296	4.322	0.0823	5	-0.30	289.30	0
289	Acid Soluble Mo (ppm)	0516	10.00	0.0000	2.296	4.322	0.0823	5	1.78	289.30	0
289	Acid Soluble Mo (ppm)	0096	7.800	2.800	2.296	4.322	0.0823	5	1.27	289.30	1
289	Acid Soluble Mo (ppm)	0515	0.0000	0.0000	2.296	4.322	0.0823	5		289.33	4
289	Acid Soluble Mo (ppm)	0515	0.0000	0.0000	2.296	4.322	0.0823	5		289.34	4
289	Acid Soluble Mo (ppm)	0527	< 0.0001		2.296	4.322	0.0823	5		289.33	5
289	Acid Soluble Mo (ppm)	0550	< 0.1		2.296	4.322	0.0823	5		289.00	5
289	Acid Soluble Mo (ppm)	0368	< 0.1		2.296	4.322	0.0823	5		289.34	5
289	Acid Soluble Mo (ppm)	0405	< 0.6		2.296	4.322	0.0823	5		289.99	5
291	Acid Soluble Ni (ppm)	0255	0.2280	0.2060	1.427	0.9541	0.5106	17	-1.26	291.99	0
291	Acid Soluble Ni (ppm)	0389	0.2330	0.0600	1.427	0.9541	0.5106	17	-1.25	291.30	0
291	Acid Soluble Ni (ppm)	0524	0.4243	0.5144	1.427	0.9541	0.5106	17	-1.05	291.30	0
291	Acid Soluble Ni (ppm)	0394	0.4996	0.3128	1.427	0.9541	0.5106	17	-0.97	291.30	0
291	Acid Soluble Ni (ppm)	0450	1.000	0.0000	1.427	0.9541	0.5106	17	-0.45	291.30	0
291	Acid Soluble Ni (ppm)	0527	1.016	0.0411	1.427	0.9541	0.5106	17	-0.43	291.33	0
291	Acid Soluble Ni (ppm)	0096	1.050	0.1000	1.427	0.9541	0.5106	17	-0.40	291.30	0
291	Acid Soluble Ni (ppm)	0501	1.295	0.0300	1.427	0.9541	0.5106	17	-0.14	291.34	0
291	Acid Soluble Ni (ppm)	0405	1.300	0.0000	1.427	0.9541	0.5106	17	-0.13	291.99	0
291	Acid Soluble Ni (ppm)	0515	1.330	0.6610	1.427	0.9541	0.5106	17	-0.10	291.34	0
291	Acid Soluble Ni (ppm)	0482	1.495	0.3100	1.427	0.9541	0.5106	17	0.07	291.30	0
291	Acid Soluble Ni (ppm)	0037	2.020	0.0440	1.427	0.9541	0.5106	17	0.62	291.33	0
291	Acid Soluble Ni (ppm)	0035	2.210	0.6200	1.427	0.9541	0.5106	17	0.82	291.30	0
291	Acid Soluble Ni (ppm)	0368	2.390	2.020	1.427	0.9541	0.5106	17	1.01	291.34	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				
291	Acid Soluble Ni (ppm)	0220	2.450	0.7000	1.427	0.9541	0.5106	17	1.07	291.99	0
291	Acid Soluble Ni (ppm)	0515	2.462	2.781	1.427	0.9541	0.5106	17	1.08	291.33	0
291	Acid Soluble Ni (ppm)	0506	6.840	0.2800	1.427	0.9541	0.5106	17	5.67	291.99	0
291	Acid Soluble Ni (ppm)	0550	1,276	139.0	1.427	0.9541	0.5106	17	1335.30	291.00	2
291	Acid Soluble Ni (ppm)	0117	< 5		1.427	0.9541	0.5106	17		291.33	5
291	Acid Soluble Ni (ppm)	0027	< 10		1.427	0.9541	0.5106	17		291.99	5
301	Acid Soluble Se (ppm)	0220	0.4000	0.0200	4.175	4.174	0.9833	6	-0.81	301.99	0
301	Acid Soluble Se (ppm)	0255	0.4140	0.0100	4.175	4.174	0.9833	6	-0.80	301.99	0
301	Acid Soluble Se (ppm)	0515	3.861	1.714	4.175	4.174	0.9833	6	-0.07	301.33	0
301	Acid Soluble Se (ppm)	0524	4.425	2.170	4.175	4.174	0.9833	6	0.05	301.30	0
301	Acid Soluble Se (ppm)	0515	5.703	0.5180	4.175	4.174	0.9833	6	0.33	301.34	0
301	Acid Soluble Se (ppm)	0037	10.25	1.468	4.175	4.174	0.9833	6	1.30	301.33	0
301	Acid Soluble Se (ppm)	0527	< 0.001		4.175	4.174	0.9833	6		301.33	5
301	Acid Soluble Se (ppm)	0550	< 0.08		4.175	4.174	0.9833	6		301.00	5
301	Acid Soluble Se (ppm)	0368	< 1.4		4.175	4.174	0.9833	6		301.34	5
301	Acid Soluble Se (ppm)	0405	< 3		4.175	4.174	0.9833	6		301.99	5
301	Acid Soluble Se (ppm)	0027	< 10		4.175	4.174	0.9833	6		301.30	5
311	Sodium (%)	0136	0.0640	0.0080	0.0762	0.0089	0.0093	9	-1.27	311.33	0
311	Sodium (%)	0423	0.0675	0.0010	0.0762	0.0089	0.0093	9	-0.90	311.33	0
311	Sodium (%)	0086	0.0709	0.0013	0.0762	0.0089	0.0093	9	-0.55	311.33	0
311	Sodium (%)	0527	0.0748	0.0002	0.0762	0.0089	0.0093	9	-0.14	311.33	0
311	Sodium (%)	0546	0.0775	0.0162	0.0762	0.0089	0.0093	9	0.14	311.33	0
311	Sodium (%)	0035	0.0800	0.0120	0.0762	0.0089	0.0093	9	0.40	311.33	0
311	Sodium (%)	0482	0.0800	0.0200	0.0762	0.0089	0.0093	9	0.40	311.99	0
311	Sodium (%)	0096	0.0815	0.0150	0.0762	0.0089	0.0093	9	0.55	311.99	0
311	Sodium (%)	0354	0.1250	0.0100	0.0762	0.0089	0.0093	9	5.07	311.99	0
321	Acid Soluble Zn (1%)	0095	0.7900†	0.0200	1.027	0.0714	0.0387	63	-3.32	321.30	0
321	Acid Soluble Zn (1%)	0072	0.7968†	0.0293	1.027	0.0714	0.0387	63	-3.22	321.30	0
321	Acid Soluble Zn (1%)	0255	0.9205	0.0090	1.027	0.0714	0.0387	63	-1.49	321.30	0
321	Acid Soluble Zn (1%)	0485	0.9476	0.0110	1.027	0.0714	0.0387	63	-1.11	321.00	0
321	Acid Soluble Zn (1%)	0043	0.9500	0.0000	1.027	0.0714	0.0387	63	-1.08	321.33	0
321	Acid Soluble Zn (1%)	0506	0.9500	0.0000	1.027	0.0714	0.0387	63	-1.08	321.99	0
321	Acid Soluble Zn (1%)	0472	0.9545	0.0090	1.027	0.0714	0.0387	63	-1.01	321.30	0
321	Acid Soluble Zn (1%)	0486	0.9550	0.0100	1.027	0.0714	0.0387	63	-1.01	321.33	0
321	Acid Soluble Zn (1%)	0543	0.9550	0.0900	1.027	0.0714	0.0387	63	-1.01	321.33	0
321	Acid Soluble Zn (1%)	0324	0.9570	0.0520	1.027	0.0714	0.0387	63	-0.98	321.30	0
321	Acid Soluble Zn (1%)	0513	0.9600	0.0200	1.027	0.0714	0.0387	63	-0.94	321.00	0
321	Acid Soluble Zn (1%)	0086	0.9677	0.0145	1.027	0.0714	0.0387	63	-0.83	321.33	0
321	Acid Soluble Zn (1%)	0444	0.9700	0.0200	1.027	0.0714	0.0387	63	-0.80	321.30	0
321	Acid Soluble Zn (1%)	0390	0.9740	0.0020	1.027	0.0714	0.0387	63	-0.74	321.30	0
321	Acid Soluble Zn (1%)	0220	0.9750	0.0100	1.027	0.0714	0.0387	63	-0.73	321.32	0
321	Acid Soluble Zn (1%)	0055	0.9750	0.0100	1.027	0.0714	0.0387	63	-0.73	321.33	0
321	Acid Soluble Zn (1%)	0096	0.9758	0.0097	1.027	0.0714	0.0387	63	-0.72	321.30	0
321	Acid Soluble Zn (1%)	0102	0.9767	0.2046	1.027	0.0714	0.0387	63	-0.70	321.30	0
321	Acid Soluble Zn (1%)	0292	0.9800	0.0000	1.027	0.0714	0.0387	63	-0.66	321.30	0
321	Acid Soluble Zn (1%)	0106	0.9809	0.1315	1.027	0.0714	0.0387	63	-0.64	321.33	0
321	Acid Soluble Zn (1%)	0553	0.9850	0.0100	1.027	0.0714	0.0387	63	-0.59	321.00	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				
321	Acid Soluble Zn (1%)	0527	0.9918	0.0081	1.027	0.0714	0.0387	63	-0.49	321.33	0
321	Acid Soluble Zn (1%)	0023	0.9950	0.0100	1.027	0.0714	0.0387	63	-0.45	321.30	0
321	Acid Soluble Zn (1%)	0234	1.000	0.0000	1.027	0.0714	0.0387	63	-0.38	321.30	0
321	Acid Soluble Zn (1%)	0481	1.000	0.0000	1.027	0.0714	0.0387	63	-0.38	321.99	0
321	Acid Soluble Zn (1%)	0371	1.005	0.0100	1.027	0.0714	0.0387	63	-0.31	321.30	0
321	Acid Soluble Zn (1%)	0524	1.006	0.1229	1.027	0.0714	0.0387	63	-0.29	321.99	0
321	Acid Soluble Zn (1%)	0040	1.009	0.0230	1.027	0.0714	0.0387	63	-0.26	321.00	0
321	Acid Soluble Zn (1%)	0561	1.010	0.0800	1.027	0.0714	0.0387	63	-0.24	321.33	0
321	Acid Soluble Zn (1%)	0177	1.010	0.0188	1.027	0.0714	0.0387	63	-0.24	321.33	0
321	Acid Soluble Zn (1%)	0389	1.016	0.0015	1.027	0.0714	0.0387	63	-0.15	321.99	0
321	Acid Soluble Zn (1%)	0559	1.020	0.0030	1.027	0.0714	0.0387	63	-0.10	321.99	0
321	Acid Soluble Zn (1%)	0501	1.020	0.0200	1.027	0.0714	0.0387	63	-0.10	321.99	0
321	Acid Soluble Zn (1%)	0117	1.021	0.0000	1.027	0.0714	0.0387	63	-0.08	321.33	0
321	Acid Soluble Zn (1%)	0354	1.030	0.0000	1.027	0.0714	0.0387	63	0.04	321.30	0
321	Acid Soluble Zn (1%)	0029	1.031	0.0480	1.027	0.0714	0.0387	63	0.06	321.00	0
321	Acid Soluble Zn (1%)	0394	1.033	0.0110	1.027	0.0714	0.0387	63	0.08	321.32	0
321	Acid Soluble Zn (1%)	0498	1.035	0.0100	1.027	0.0714	0.0387	63	0.11	321.00	0
321	Acid Soluble Zn (1%)	0136	1.040	0.0200	1.027	0.0714	0.0387	63	0.18	321.33	0
321	Acid Soluble Zn (1%)	0037	1.041	0.0230	1.027	0.0714	0.0387	63	0.19	321.33	0
321	Acid Soluble Zn (1%)	0433	1.045	0.0010	1.027	0.0714	0.0387	63	0.25	321.30	0
321	Acid Soluble Zn (1%)	0034	1.057	0.0328	1.027	0.0714	0.0387	63	0.42	321.32	0
321	Acid Soluble Zn (1%)	0035	1.060	0.0200	1.027	0.0714	0.0387	63	0.46	321.30	0
321	Acid Soluble Zn (1%)	0049	1.065	0.1300	1.027	0.0714	0.0387	63	0.53	321.30	0
321	Acid Soluble Zn (1%)	0534	1.070	0.0000	1.027	0.0714	0.0387	63	0.60	321.00	0
321	Acid Soluble Zn (1%)	0360	1.070	0.0200	1.027	0.0714	0.0387	63	0.60	321.30	0
321	Acid Soluble Zn (1%)	0450	1.070	0.0600	1.027	0.0714	0.0387	63	0.60	321.30	0
321	Acid Soluble Zn (1%)	0516	1.071	0.0000	1.027	0.0714	0.0387	63	0.62	321.99	0
321	Acid Soluble Zn (1%)	0451	1.075	0.0500	1.027	0.0714	0.0387	63	0.67	321.30	0
321	Acid Soluble Zn (1%)	0231	1.080	0.0200	1.027	0.0714	0.0387	63	0.74	321.30	0
321	Acid Soluble Zn (1%)	0521	1.081	0.0598	1.027	0.0714	0.0387	63	0.76	321.32	0
321	Acid Soluble Zn (1%)	0532	1.085	0.0300	1.027	0.0714	0.0387	63	0.81	321.99	0
321	Acid Soluble Zn (1%)	0540	1.095	0.0500	1.027	0.0714	0.0387	63	0.95	321.00	0
321	Acid Soluble Zn (1%)	0027	1.108	0.1040	1.027	0.0714	0.0387	63	1.14	321.99	0
321	Acid Soluble Zn (1%)	0368	1.129	0.0156	1.027	0.0714	0.0387	63	1.43	321.99	0
321	Acid Soluble Zn (1%)	0536	1.150‡	0.1000	1.027	0.0714	0.0387	63	1.72	321.00	0
321	Acid Soluble Zn (1%)	0537	1.165‡	0.0700	1.027	0.0714	0.0387	63	1.93	321.00	0
321	Acid Soluble Zn (1%)	0551	1.170‡	0.0400	1.027	0.0714	0.0387	63	2.00	321.00	0
321	Acid Soluble Zn (1%)	0550	1.185‡	0.2500	1.027	0.0714	0.0387	63	2.21	321.00	0
321	Acid Soluble Zn (1%)	0531	1.190‡	0.0200	1.027	0.0714	0.0387	63	2.28	321.00	0
321	Acid Soluble Zn (1%)	0405	1.205‡	0.0100	1.027	0.0714	0.0387	63	2.49	321.99	0
321	Acid Soluble Zn (1%)	0423	1.245‡	0.0100	1.027	0.0714	0.0387	63	3.05	321.32	0
321	Acid Soluble Zn (1%)	0515	1.548‡	0.2715	1.027	0.0714	0.0387	63	7.30	321.99	0
321	Acid Soluble Zn (1%)	0482	1.070	0.3200	1.027	0.0714	0.0387	63	0.60	321.30	1
321	Acid Soluble Zn (1%)	0515	1.313‡	0.4013	1.027	0.0714	0.0387	63	4.01	321.33	1
325	Water Soluble Zn (%)	0518	0.8600	0.0200	1.041	0.0463	0.0667	6	-3.49	325.99	0
325	Water Soluble Zn (%)	0560	1.023	0.0540	1.041	0.0463	0.0667	6	-0.35	325.99	0
325	Water Soluble Zn (%)	0556	1.040	0.1200	1.041	0.0463	0.0667	6	-0.02	325.00	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				
325	Water Soluble Zn (%)	0536	1.060	0.1200	1.041	0.0463	0.0667	6	0.37	325.00	0
325	Water Soluble Zn (%)	0546	1.062	0.0061	1.041	0.0463	0.0667	6	0.40	325.30	0
325	Water Soluble Zn (%)	0537	1.090	0.0800	1.041	0.0463	0.0667	6	0.94	325.00	0
325	Water Soluble Zn (%)	0356	< 1		1.041	0.0463	0.0667	6		325.00	5

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.