

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 180911

3-1-3 Organic

Statistical Summary

Analytes: 38

Labs Reporting: 85

Issue Date : 10/31/2018

Analyte Code	Analyte Sample # 180911	# 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)	Hornitz %RSD
001	Ammoniacal Nitrogen (%)	3	3	0.3622	0.2188	0.3622		0.2188	0.1579	60.40%		0.0137	4.66%
002	Nitrate Nitrogen (%)	1		0.3005									
003	Water Insoluble Nitrogen (%)	1		0.1700									
005	Urea Nitrogen (%)	1		3.150									
009	Ammoniacal Plus Nitrate Nitrogen (%)	1		3.000									
010	Total Nitrogen (3%)	72	70	3.806	0.2648	3.812	0.4900	0.1856	0.0277	4.87%	0.88	0.0539	3.27%
020	Total Phosphorus as P2O5 (%)	46	44	2.755	0.3321	2.787		0.2279	0.0429	8.17%		0.0674	3.43%
040	Indirect Available Phosphorus as P2O5 (1%)	1		2.920									
041	Direct Available Phosphorus as P2O5 (1%)	39	38	2.655	0.4439	2.728	0.6700	0.1910	0.0387	7.00%	0.66	0.0750	3.44%
042	Water Soluble OrthoP as P2O5 (%)	1		3.362									
048	Water Soluble Phosphorus as P2O5 (%)	2	2	2.878	0.0467								
050	Soluble Potassium as K2O (3%)	79	77	3.719	0.3602	3.732	0.4100	0.3482	0.0496	9.33%	1.98	0.1109	3.28%
101	Acid Soluble Calcium (1%)	31	29	1.355	0.1273	1.334	0.2667	0.0764	0.0177	5.72%	0.67	0.0421	3.83%
121	Acid Soluble Magnesium (0.5%)	39	37	0.6606	0.1251	0.6551	0.2328	0.0570	0.0117	8.71%	0.57	0.0157	4.26%
131	Water Soluble Magnesium (%)	6	6	0.6581	0.0786	0.6438		0.0533	0.0272	8.28%		0.0260	4.27%
143	Elemental Sulfur (%)	3	3	2.756	0.3716	2.756		0.3716	0.2682	13.48%		0.1133	3.43%
145	Sulfate Sulfur, HCl soluble (%)	3	3	2.335	0.1560	2.335		0.1560	0.1126	6.68%		0.3967	3.52%
148	Total Sulfur (2.5%)	32	31	2.454	0.3554	2.503	0.3251	0.2707	0.0608	10.82%	1.94	0.0680	3.48%
149	Sulfur - HNO3 soluble (%)	3	3	2.672	0.1032	2.672		0.1032	0.0745	3.86%		0.0228	3.45%
151	Acid Soluble Arsenic (ppm)	9	8	1.079	0.7224	1.079		0.8192	0.3621	75.91%		0.2592	15.81%
165	Acid Soluble Boron (0.01%)	25	24	0.0318	0.0371	0.0244	0.0067	0.0041	0.0010	16.80%	1.43	0.0113	6.99%
171	Water Soluble Boron (%)	5	5	0.0245	0.0049	0.0245		0.0049	0.0027	20.00%		0.0020	6.99%
181	Acid Soluble Cadmium (ppm)	8	7	0.2620	0.3628	0.2620		0.4114	0.1944	157.06%		0.3894	19.57%
190	Water Soluble Chlorine (%)	1		46.93									
191	Acid Soluble Chromium (ppm)	13	12	2.809	1.991	2.634		1.848	0.6670	70.16%		0.2702	13.83%
202	Acid Soluble Cobalt (ppm)	11	10	0.9640	0.2522	0.9193	1.2758	0.1598	0.0632	17.39%	0.29	0.0926	16.20%
221	Acid Soluble Copper (%)	21	18	0.0049	0.0068	0.0028	0.0053	0.0011	0.0003	39.70%	0.50	0.0036	9.67%
241	Acid Soluble Iron (0.05%)	37	36	0.1031	0.0309	0.0939	0.0144	0.0119	0.0025	12.70%	1.93	0.0108	5.71%
251	Acid Soluble Lead (ppm)	10	8	0.4845	0.5642	0.4690		0.6045	0.2672	128.89%		0.4361	17.93%
261	Acid Soluble Manganese (0.03%)	37	36	0.0454	0.0099	0.0444	0.0094	0.0052	0.0011	11.77%	1.29	0.0036	6.39%
271	Water Soluble Manganese (%)	6	5	0.0436	0.0026	0.0436		0.0026	0.0014	5.87%		0.0008	6.41%

Analyte Code	Analyte Sample # 180911	# 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
281	Acid Soluble Mercury (ppm)	5	4	0.2753	0.4161	0.2753		0.4161	0.2601	151.15%		0.4415	19.42%
289	Acid Soluble Molybdenum (ppm)	10	10	0.7501	1.030	0.6039	1.1812	0.7759	0.3067	128.48%	1.53	0.6992	17.26%
291	Acid Soluble Nickel (ppm)	13	13	2.338	1.890	2.059		1.323	0.4586	64.25%		0.5359	14.35%
301	Acid Soluble Selenium (ppm)	8	6	1.108	1.276	1.058		1.329	0.6784	125.62%		0.1879	15.86%
311	Sodium (0.5%)	22	21	1.047	0.0584	1.046	0.1096	0.0651	0.0178	6.22%	1.38	0.0202	3.97%
321	Acid Soluble Zinc (0.01%)	40	38	0.0313	0.0172	0.0278	0.0078	0.0027	0.0006	9.78%	0.82	0.0019	6.86%
325	Water Soluble Zinc (%)	6	5	0.0273	0.0020	0.0273		0.0020	0.0011	7.24%		0.0001	6.88%

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.

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Analytes: 38

Sample # 180911

Lab Values

Labs Reporting: 85

3-1-3 Organic

Issue Date : 10/31/2018

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	0.1676	0.0095	0.3622	0.2188	0.0137	3	-0.89	001.99	0
001	Ammoniacal Nitrogen (%)	0553	0.3201	0.0038	0.3622	0.2188	0.0137	3	-0.19	001.99	0
001	Ammoniacal Nitrogen (%)	0510	0.5990	0.0279	0.3622	0.2188	0.0137	3	1.08	001.99	0
002	Nitrate Nitrogen (%)	0553	0.3005	0.0270				1		002.99	0
003	Water Insoluble Nitrogen (%)	0220	0.1700	0.0200				1		003.10	0
005	Urea Nitrogen (%)	0027	3.150	0.0000				1		005.99	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0518	3.000	0.2400				1		009.99	0
010	Total Nitrogen (3%)	0532	3.030†	0.1000	3.812	0.1856	0.0539	70	-4.21	010.99	0
010	Total Nitrogen (3%)	0545	3.175†	0.0500	3.812	0.1856	0.0539	70	-3.43	010.99	0
010	Total Nitrogen (3%)	0493	3.200†	0.1000	3.812	0.1856	0.0539	70	-3.30	010.99	0
010	Total Nitrogen (3%)	0524	3.222†	0.1210	3.812	0.1856	0.0539	70	-3.18	010.99	0
010	Total Nitrogen (3%)	0481	3.450	0.1000	3.812	0.1856	0.0539	70	-1.95	010.99	0
010	Total Nitrogen (3%)	0405	3.470	0.0800	3.812	0.1856	0.0539	70	-1.84	010.60	0
010	Total Nitrogen (3%)	0513	3.485	0.0300	3.812	0.1856	0.0539	70	-1.76	010.99	0
010	Total Nitrogen (3%)	0309	3.505	0.0700	3.812	0.1856	0.0539	70	-1.65	010.11	0
010	Total Nitrogen (3%)	0485	3.555	0.2380	3.812	0.1856	0.0539	70	-1.38	010.60	0
010	Total Nitrogen (3%)	0476	3.581	0.0375	3.812	0.1856	0.0539	70	-1.24	010.99	0
010	Total Nitrogen (3%)	0444	3.625	0.1900	3.812	0.1856	0.0539	70	-1.01	010.60	0
010	Total Nitrogen (3%)	0095	3.650	0.0000	3.812	0.1856	0.0539	70	-0.87	010.60	0
010	Total Nitrogen (3%)	0035	3.665	0.0100	3.812	0.1856	0.0539	70	-0.79	010.60	0
010	Total Nitrogen (3%)	0510	3.673	0.0813	3.812	0.1856	0.0539	70	-0.75	010.11	0
010	Total Nitrogen (3%)	0291	3.675	0.0100	3.812	0.1856	0.0539	70	-0.74	010.60	0
010	Total Nitrogen (3%)	0527	3.675	0.0300	3.812	0.1856	0.0539	70	-0.74	010.60	0
010	Total Nitrogen (3%)	0368	3.684	0.0160	3.812	0.1856	0.0539	70	-0.69	010.60	0
010	Total Nitrogen (3%)	0423	3.685	0.0100	3.812	0.1856	0.0539	70	-0.68	010.60	0
010	Total Nitrogen (3%)	0553	3.685	0.1100	3.812	0.1856	0.0539	70	-0.68	010.99	0
010	Total Nitrogen (3%)	0389	3.690	0.0000	3.812	0.1856	0.0539	70	-0.66	010.60	0
010	Total Nitrogen (3%)	0522	3.700	0.0000	3.812	0.1856	0.0539	70	-0.60	010.99	0
010	Total Nitrogen (3%)	0483	3.710	0.0200	3.812	0.1856	0.0539	70	-0.55	010.60	0
010	Total Nitrogen (3%)	0452	3.745	0.0100	3.812	0.1856	0.0539	70	-0.36	010.60	0
010	Total Nitrogen (3%)	0073	3.750	0.0400	3.812	0.1856	0.0539	70	-0.33	010.60	0
010	Total Nitrogen (3%)	0292	3.775	0.0100	3.812	0.1856	0.0539	70	-0.20	010.60	0
010	Total Nitrogen (3%)	0136	3.780	0.0000	3.812	0.1856	0.0539	70	-0.17	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 Nitrogen (3%)	0451	3.792	0.0350	3.812	0.1856	0.0539	70	-0.11	010.60	0
010	Total Nitrogen (3%)	0234	3.800	0.0000	3.812	0.1856	0.0539	70	-0.06	010.60	0
010	Total Nitrogen (3%)	0523	3.800	0.0000	3.812	0.1856	0.0539	70	-0.06	010.60	0
010	Total Nitrogen (3%)	0422	3.810	0.0200	3.812	0.1856	0.0539	70	-0.01	010.60	0
010	Total Nitrogen (3%)	0416	3.810	0.0000	3.812	0.1856	0.0539	70	-0.01	010.12	0
010	Total Nitrogen (3%)	0105	3.815	0.0100	3.812	0.1856	0.0539	70	0.02	010.11	0
010	Total Nitrogen (3%)	0354	3.815	0.0500	3.812	0.1856	0.0539	70	0.02	010.60	0
010	Total Nitrogen (3%)	0494	3.815	0.0500	3.812	0.1856	0.0539	70	0.02	010.60	0
010	Total Nitrogen (3%)	0501	3.830	0.0600	3.812	0.1856	0.0539	70	0.10	010.60	0
010	Total Nitrogen (3%)	0482	3.835	0.1700	3.812	0.1856	0.0539	70	0.13	010.60	0
010	Total Nitrogen (3%)	0023	3.839	0.0660	3.812	0.1856	0.0539	70	0.15	010.60	0
010	Total Nitrogen (3%)	0547	3.840	0.0200	3.812	0.1856	0.0539	70	0.15	010.60	0
010	Total Nitrogen (3%)	0220	3.845	0.0100	3.812	0.1856	0.0539	70	0.18	010.11	0
010	Total Nitrogen (3%)	0544	3.845	0.0300	3.812	0.1856	0.0539	70	0.18	010.99	0
010	Total Nitrogen (3%)	0042	3.850	0.1000	3.812	0.1856	0.0539	70	0.21	010.60	0
010	Total Nitrogen (3%)	0043	3.850	0.0200	3.812	0.1856	0.0539	70	0.21	010.60	0
010	Total Nitrogen (3%)	0486	3.850	0.0400	3.812	0.1856	0.0539	70	0.21	010.60	0
010	Total Nitrogen (3%)	0324	3.855	0.0500	3.812	0.1856	0.0539	70	0.23	010.60	0
010	Total Nitrogen (3%)	0472	3.862	0.0270	3.812	0.1856	0.0539	70	0.27	010.60	0
010	Total Nitrogen (3%)	0377	3.867	0.0430	3.812	0.1856	0.0539	70	0.30	010.60	0
010	Total Nitrogen (3%)	0049	3.875	0.0900	3.812	0.1856	0.0539	70	0.34	010.60	0
010	Total Nitrogen (3%)	0106	3.875	0.0100	3.812	0.1856	0.0539	70	0.34	010.60	0
010	Total Nitrogen (3%)	0177	3.878	0.0010	3.812	0.1856	0.0539	70	0.35	010.60	0
010	Total Nitrogen (3%)	0102	3.888	0.0030	3.812	0.1856	0.0539	70	0.41	010.60	0
010	Total Nitrogen (3%)	0086	3.901	0.0295	3.812	0.1856	0.0539	70	0.48	010.60	0
010	Total Nitrogen (3%)	0070	3.903	0.0230	3.812	0.1856	0.0539	70	0.49	010.60	0
010	Total Nitrogen (3%)	0550	3.930	0.0000	3.812	0.1856	0.0539	70	0.64	010.60	0
010	Total Nitrogen (3%)	0105	3.935	0.0900	3.812	0.1856	0.0539	70	0.66	010.60	0
010	Total Nitrogen (3%)	0255	3.938	0.0920	3.812	0.1856	0.0539	70	0.68	010.60	0
010	Total Nitrogen (3%)	0356	3.955	0.1300	3.812	0.1856	0.0539	70	0.77	010.60	0
010	Total Nitrogen (3%)	0231	3.970	0.0000	3.812	0.1856	0.0539	70	0.85	010.60	0
010	Total Nitrogen (3%)	0117	3.975	0.0100	3.812	0.1856	0.0539	70	0.88	010.60	0
010	Total Nitrogen (3%)	0034	3.988	0.0610	3.812	0.1856	0.0539	70	0.95	010.60	0
010	Total Nitrogen (3%)	0185	4.000	0.1000	3.812	0.1856	0.0539	70	1.01	010.60	0
010	Total Nitrogen (3%)	0325	4.000	0.2000	3.812	0.1856	0.0539	70	1.01	010.60	0
010	Total Nitrogen (3%)	0544	4.005	0.1300	3.812	0.1856	0.0539	70	1.04	010.11	0
010	Total Nitrogen (3%)	0230	4.025	0.0500	3.812	0.1856	0.0539	70	1.15	010.60	0
010	Total Nitrogen (3%)	0025	4.046	0.0080	3.812	0.1856	0.0539	70	1.26	010.60	0
010	Total Nitrogen (3%)	0040	4.100	0.0000	3.812	0.1856	0.0539	70	1.55	010.60	0
010	Total Nitrogen (3%)	0542	4.111	0.1100	3.812	0.1856	0.0539	70	1.61	010.60	0
010	Total Nitrogen (3%)	0041	4.170	0.1600	3.812	0.1856	0.0539	70	1.93	010.60	0
010	Total Nitrogen (3%)	0546	4.250	0.0800	3.812	0.1856	0.0539	70	2.36	010.11	0
010	Total Nitrogen (3%)	0007	4.350‡	0.1000	3.812	0.1856	0.0539	70	2.90	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 Nitrogen (3%)	0360	4.865±	0.0300	3.812	0.1856	0.0539	70	5.67	010.60	0
010	Total Nitrogen (3%)	0114	3.885	0.3300	3.812	0.1856	0.0539	70	0.39	010.60	1
010	Total Nitrogen (3%)	0055	3.960	0.3000	3.812	0.1856	0.0539	70	0.80	010.60	1
020	Total Phosphorus as P2O5 (%)	0547	1.245	0.0100	2.787	0.2279	0.0674	44	-6.77	020.50	0
020	Total Phosphorus as P2O5 (%)	0515	1.960	0.0069	2.787	0.2279	0.0674	44	-3.63	020.99	0
020	Total Phosphorus as P2O5 (%)	0493	2.450	0.1000	2.787	0.2279	0.0674	44	-1.48	020.10	0
020	Total Phosphorus as P2O5 (%)	0476	2.475	0.1999	2.787	0.2279	0.0674	44	-1.37	020.20	0
020	Total Phosphorus as P2O5 (%)	0481	2.550	0.1000	2.787	0.2279	0.0674	44	-1.04	020.20	0
020	Total Phosphorus as P2O5 (%)	0527	2.570	0.0200	2.787	0.2279	0.0674	44	-0.95	020.50	0
020	Total Phosphorus as P2O5 (%)	0416	2.590	0.0000	2.787	0.2279	0.0674	44	-0.87	020.20	0
020	Total Phosphorus as P2O5 (%)	0510	2.591	0.0354	2.787	0.2279	0.0674	44	-0.86	020.20	0
020	Total Phosphorus as P2O5 (%)	0027	2.595	0.0700	2.787	0.2279	0.0674	44	-0.84	020.20	0
020	Total Phosphorus as P2O5 (%)	0234	2.600	0.2000	2.787	0.2279	0.0674	44	-0.82	020.50	0
020	Total Phosphorus as P2O5 (%)	0049	2.650	0.0200	2.787	0.2279	0.0674	44	-0.60	020.10	0
020	Total Phosphorus as P2O5 (%)	0501	2.650	0.1000	2.787	0.2279	0.0674	44	-0.60	020.50	0
020	Total Phosphorus as P2O5 (%)	0095	2.660	0.0000	2.787	0.2279	0.0674	44	-0.56	020.10	0
020	Total Phosphorus as P2O5 (%)	0472	2.660	0.0400	2.787	0.2279	0.0674	44	-0.56	020.50	0
020	Total Phosphorus as P2O5 (%)	0552	2.665	0.0300	2.787	0.2279	0.0674	44	-0.54	020.50	0
020	Total Phosphorus as P2O5 (%)	0513	2.690	0.0200	2.787	0.2279	0.0674	44	-0.43	020.99	0
020	Total Phosphorus as P2O5 (%)	0423	2.715	0.1500	2.787	0.2279	0.0674	44	-0.32	020.50	0
020	Total Phosphorus as P2O5 (%)	0494	2.720	0.0000	2.787	0.2279	0.0674	44	-0.30	020.10	0
020	Total Phosphorus as P2O5 (%)	0177	2.721	0.0223	2.787	0.2279	0.0674	44	-0.29	020.20	0
020	Total Phosphorus as P2O5 (%)	0136	2.725	0.0100	2.787	0.2279	0.0674	44	-0.27	020.10	0
020	Total Phosphorus as P2O5 (%)	0444	2.740	0.0000	2.787	0.2279	0.0674	44	-0.21	020.50	0
020	Total Phosphorus as P2O5 (%)	0324	2.765	0.2700	2.787	0.2279	0.0674	44	-0.10	020.20	0
020	Total Phosphorus as P2O5 (%)	0482	2.785	0.0100	2.787	0.2279	0.0674	44	-0.01	020.50	0
020	Total Phosphorus as P2O5 (%)	0389	2.790	0.0000	2.787	0.2279	0.0674	44	0.01	020.50	0
020	Total Phosphorus as P2O5 (%)	0523	2.800	0.0000	2.787	0.2279	0.0674	44	0.06	020.50	0
020	Total Phosphorus as P2O5 (%)	0524	2.804	0.0905	2.787	0.2279	0.0674	44	0.07	020.50	0
020	Total Phosphorus as P2O5 (%)	0291	2.835	0.0100	2.787	0.2279	0.0674	44	0.21	020.50	0
020	Total Phosphorus as P2O5 (%)	0231	2.845	0.1300	2.787	0.2279	0.0674	44	0.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0255	2.848	0.0530	2.787	0.2279	0.0674	44	0.26	020.50	0
020	Total Phosphorus as P2O5 (%)	0356	2.875	0.2700	2.787	0.2279	0.0674	44	0.38	020.20	0
020	Total Phosphorus as P2O5 (%)	0433	2.880	0.0000	2.787	0.2279	0.0674	44	0.41	020.50	0
020	Total Phosphorus as P2O5 (%)	0405	2.920	0.1000	2.787	0.2279	0.0674	44	0.58	020.20	0
020	Total Phosphorus as P2O5 (%)	0096	2.930	0.0000	2.787	0.2279	0.0674	44	0.63	020.40	0
020	Total Phosphorus as P2O5 (%)	0422	2.960	0.0570	2.787	0.2279	0.0674	44	0.76	020.50	0
020	Total Phosphorus as P2O5 (%)	0292	2.975	0.0100	2.787	0.2279	0.0674	44	0.82	020.20	0
020	Total Phosphorus as P2O5 (%)	0309	3.015	0.0100	2.787	0.2279	0.0674	44	1.00	020.20	0
020	Total Phosphorus as P2O5 (%)	0522	3.030	0.0200	2.787	0.2279	0.0674	44	1.06	020.20	0
020	Total Phosphorus as P2O5 (%)	0451	3.035	0.0900	2.787	0.2279	0.0674	44	1.09	020.50	0
020	Total Phosphorus as P2O5 (%)	0544	3.055	0.0700	2.787	0.2279	0.0674	44	1.17	020.20	0
020	Total Phosphorus as P2O5 (%)	0452	3.075	0.0700	2.787	0.2279	0.0674	44	1.26	020.50	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 (%)	0483	3.140	0.0000	2.787	0.2279	0.0674	44	1.55	020.50	0
020	Total Phosphorus as P2O5 (%)	0516	3.164	0.1590	2.787	0.2279	0.0674	44	1.65	020.50	0
020	Total Phosphorus as P2O5 (%)	0035	3.245	0.3100	2.787	0.2279	0.0674	44	2.01	020.40	0
020	Total Phosphorus as P2O5 (%)	0042	3.250	0.1000	2.787	0.2279	0.0674	44	2.03	020.50	0
020	Total Phosphorus as P2O5 (%)	0550	2.075	1.650	2.787	0.2279	0.0674	44	-3.13	020.20	1
020	Total Phosphorus as P2O5 (%)	0368	3.315	0.9579	2.787	0.2279	0.0674	44	2.32	020.50	1
040	Indirect Available Phosphorus as P2O5 (1%)	0405	2.920‡	0.1000				1		040.20	0
041	Direct Available Phosphorus as P2O5 (1%)	0532	1.150†	0.0600	2.728	0.1910	0.0750	38	-8.26	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0518	1.270†	0.1400	2.728	0.1910	0.0750	38	-7.63	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0102	1.850†	0.1000	2.728	0.1910	0.0750	38	-4.60	041.10	0
041	Direct Available Phosphorus as P2O5 (1%)	0230	1.905†	0.3500	2.728	0.1910	0.0750	38	-4.31	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0041	2.450	0.2400	2.728	0.1910	0.0750	38	-1.45	041.10	0
041	Direct Available Phosphorus as P2O5 (1%)	0472	2.520	0.0400	2.728	0.1910	0.0750	38	-1.09	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0423	2.565	0.0700	2.728	0.1910	0.0750	38	-0.85	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0486	2.565	0.0100	2.728	0.1910	0.0750	38	-0.85	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0545	2.585	0.0700	2.728	0.1910	0.0750	38	-0.75	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0106	2.640	0.0400	2.728	0.1910	0.0750	38	-0.46	041.21	0
041	Direct Available Phosphorus as P2O5 (1%)	0185	2.650	0.1000	2.728	0.1910	0.0750	38	-0.41	041.11	0
041	Direct Available Phosphorus as P2O5 (1%)	0325	2.650	0.1000	2.728	0.1910	0.0750	38	-0.41	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0117	2.672	0.1280	2.728	0.1910	0.0750	38	-0.29	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0485	2.689	0.0529	2.728	0.1910	0.0750	38	-0.20	041.11	0
041	Direct Available Phosphorus as P2O5 (1%)	0055	2.695	0.0300	2.728	0.1910	0.0750	38	-0.17	041.10	0
041	Direct Available Phosphorus as P2O5 (1%)	0040	2.700	0.0000	2.728	0.1910	0.0750	38	-0.14	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0073	2.705	0.0900	2.728	0.1910	0.0750	38	-0.12	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0513	2.730	0.0200	2.728	0.1910	0.0750	38	0.01	041.11	0
041	Direct Available Phosphorus as P2O5 (1%)	0544	2.740	0.0000	2.728	0.1910	0.0750	38	0.06	041.21	0
041	Direct Available Phosphorus as P2O5 (1%)	0377	2.755	0.0500	2.728	0.1910	0.0750	38	0.14	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0220	2.760	0.0200	2.728	0.1910	0.0750	38	0.17	041.11	0
041	Direct Available Phosphorus as P2O5 (1%)	0231	2.760	0.0800	2.728	0.1910	0.0750	38	0.17	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0043	2.765	0.0900	2.728	0.1910	0.0750	38	0.20	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0086	2.769	0.0025	2.728	0.1910	0.0750	38	0.22	041.10	0
041	Direct Available Phosphorus as P2O5 (1%)	0025	2.775	0.0300	2.728	0.1910	0.0750	38	0.25	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0405	2.775	0.0300	2.728	0.1910	0.0750	38	0.25	041.99	0
041	Direct Available Phosphorus as P2O5 (1%)	0007	2.800	0.0000	2.728	0.1910	0.0750	38	0.38	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0070	2.820	0.0000	2.728	0.1910	0.0750	38	0.48	041.50	0
041	Direct Available Phosphorus as P2O5 (1%)	0117	2.845	0.0100	2.728	0.1910	0.0750	38	0.61	041.11	0
041	Direct Available Phosphorus as P2O5 (1%)	0522	2.845	0.0300	2.728	0.1910	0.0750	38	0.61	041.21	0
041	Direct Available Phosphorus as P2O5 (1%)	0360	2.880	0.0800	2.728	0.1910	0.0750	38	0.80	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0023	2.890	0.1400	2.728	0.1910	0.0750	38	0.85	041.51	0
041	Direct Available Phosphorus as P2O5 (1%)	0043	2.910	0.0600	2.728	0.1910	0.0750	38	0.95	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0354	2.925	0.0300	2.728	0.1910	0.0750	38	1.03	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0027	3.075	0.3900	2.728	0.1910	0.0750	38	1.82	041.20	0
041	Direct Available Phosphorus as P2O5 (1%)	0055	3.170	0.0000	2.728	0.1910	0.0750	38	2.32	041.60	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				
041	Direct Available Phosphorus as P2O5 (1%)	0029	3.215	0.0700	2.728	0.1910	0.0750	38	2.55	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0034	3.423‡	0.0970	2.728	0.1910	0.0750	38	3.64	041.60	0
041	Direct Available Phosphorus as P2O5 (1%)	0494	2.610	0.4400	2.728	0.1910	0.0750	38	-0.62	041.51	1
042	Water Soluble OrthoP as P2O5 (%)	0553	3.362	0.1015				1		042.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	2.845	0.0300				2		048.50	0
048	Water Soluble Phosphorus as P2O5 (%)	0546	2.911	0.0760				2		048.50	0
050	Soluble Potassium as K2O (3%)	0049	2.790†	0.3000	3.732	0.3482	0.1109	77	-2.70	050.00	0
050	Soluble Potassium as K2O (3%)	0102	2.850†	0.1000	3.732	0.3482	0.1109	77	-2.53	050.00	0
050	Soluble Potassium as K2O (3%)	0405	2.990†	0.0000	3.732	0.3482	0.1109	77	-2.13	050.00	0
050	Soluble Potassium as K2O (3%)	0510	3.022†	0.0194	3.732	0.3482	0.1109	77	-2.04	050.60	0
050	Soluble Potassium as K2O (3%)	0518	3.095†	0.3500	3.732	0.3482	0.1109	77	-1.83	050.99	0
050	Soluble Potassium as K2O (3%)	0544	3.105†	0.1500	3.732	0.3482	0.1109	77	-1.80	050.00	0
050	Soluble Potassium as K2O (3%)	0055	3.145†	0.0700	3.732	0.3482	0.1109	77	-1.69	050.00	0
050	Soluble Potassium as K2O (3%)	0422	3.160†	0.2600	3.732	0.3482	0.1109	77	-1.64	050.50	0
050	Soluble Potassium as K2O (3%)	0532	3.200†	0.0800	3.732	0.3482	0.1109	77	-1.53	050.99	0
050	Soluble Potassium as K2O (3%)	0309	3.205†	0.5300	3.732	0.3482	0.1109	77	-1.51	050.30	0
050	Soluble Potassium as K2O (3%)	0481	3.250†	0.1000	3.732	0.3482	0.1109	77	-1.38	050.99	0
050	Soluble Potassium as K2O (3%)	0552	3.250†	0.0600	3.732	0.3482	0.1109	77	-1.38	050.99	0
050	Soluble Potassium as K2O (3%)	0416	3.270†	0.0600	3.732	0.3482	0.1109	77	-1.33	050.00	0
050	Soluble Potassium as K2O (3%)	0501	3.430	0.1200	3.732	0.3482	0.1109	77	-0.87	050.99	0
050	Soluble Potassium as K2O (3%)	0231	3.435	0.0500	3.732	0.3482	0.1109	77	-0.85	050.00	0
050	Soluble Potassium as K2O (3%)	0547	3.445	0.2700	3.732	0.3482	0.1109	77	-0.82	050.51	0
050	Soluble Potassium as K2O (3%)	0493	3.450	0.1000	3.732	0.3482	0.1109	77	-0.81	050.99	0
050	Soluble Potassium as K2O (3%)	0292	3.500	0.0000	3.732	0.3482	0.1109	77	-0.67	050.50	0
050	Soluble Potassium as K2O (3%)	0234	3.500	0.2000	3.732	0.3482	0.1109	77	-0.67	050.99	0
050	Soluble Potassium as K2O (3%)	0494	3.515	0.0700	3.732	0.3482	0.1109	77	-0.62	050.52	0
050	Soluble Potassium as K2O (3%)	0354	3.560	0.0400	3.732	0.3482	0.1109	77	-0.49	050.52	0
050	Soluble Potassium as K2O (3%)	0476	3.595	0.0360	3.732	0.3482	0.1109	77	-0.39	050.99	0
050	Soluble Potassium as K2O (3%)	0096	3.615	0.0500	3.732	0.3482	0.1109	77	-0.34	050.99	0
050	Soluble Potassium as K2O (3%)	0482	3.620	0.0800	3.732	0.3482	0.1109	77	-0.32	050.99	0
050	Soluble Potassium as K2O (3%)	0034	3.623	0.1680	3.732	0.3482	0.1109	77	-0.31	050.62	0
050	Soluble Potassium as K2O (3%)	0553	3.627	0.0603	3.732	0.3482	0.1109	77	-0.30	050.99	0
050	Soluble Potassium as K2O (3%)	0023	3.635	0.8500	3.732	0.3482	0.1109	77	-0.28	050.52	0
050	Soluble Potassium as K2O (3%)	0027	3.648	0.1600	3.732	0.3482	0.1109	77	-0.24	050.99	0
050	Soluble Potassium as K2O (3%)	0070	3.650	0.0000	3.732	0.3482	0.1109	77	-0.24	050.51	0
050	Soluble Potassium as K2O (3%)	0025	3.670	0.0200	3.732	0.3482	0.1109	77	-0.18	050.52	0
050	Soluble Potassium as K2O (3%)	0527	3.709	0.0036	3.732	0.3482	0.1109	77	-0.07	050.99	0
050	Soluble Potassium as K2O (3%)	0255	3.732	0.3840	3.732	0.3482	0.1109	77	0.00	050.99	0
050	Soluble Potassium as K2O (3%)	0472	3.750	0.0400	3.732	0.3482	0.1109	77	0.05	050.31	0
050	Soluble Potassium as K2O (3%)	0325	3.750	0.3000	3.732	0.3482	0.1109	77	0.05	050.99	0
050	Soluble Potassium as K2O (3%)	0433	3.750	0.0000	3.732	0.3482	0.1109	77	0.05	050.99	0
050	Soluble Potassium as K2O (3%)	0105	3.765	0.0300	3.732	0.3482	0.1109	77	0.10	050.60	0
050	Soluble Potassium as K2O (3%)	0494	3.785	0.1500	3.732	0.3482	0.1109	77	0.15	050.00	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				
050	Soluble Potassium as K2O (3%)	0545	3.785	0.0300	3.732	0.3482	0.1109	77	0.15	050.99	0
050	Soluble Potassium as K2O (3%)	0485	3.798	0.0050	3.732	0.3482	0.1109	77	0.19	050.52	0
050	Soluble Potassium as K2O (3%)	0368	3.798	0.0511	3.732	0.3482	0.1109	77	0.19	050.99	0
050	Soluble Potassium as K2O (3%)	0220	3.800	0.0400	3.732	0.3482	0.1109	77	0.20	050.00	0
050	Soluble Potassium as K2O (3%)	0040	3.800	0.0000	3.732	0.3482	0.1109	77	0.20	050.30	0
050	Soluble Potassium as K2O (3%)	0007	3.800	0.0000	3.732	0.3482	0.1109	77	0.20	050.51	0
050	Soluble Potassium as K2O (3%)	0419	3.805	0.0900	3.732	0.3482	0.1109	77	0.21	050.50	0
050	Soluble Potassium as K2O (3%)	0377	3.805	0.1700	3.732	0.3482	0.1109	77	0.21	050.52	0
050	Soluble Potassium as K2O (3%)	0029	3.810	0.0800	3.732	0.3482	0.1109	77	0.22	050.62	0
050	Soluble Potassium as K2O (3%)	0423	3.820	0.0800	3.732	0.3482	0.1109	77	0.25	050.52	0
050	Soluble Potassium as K2O (3%)	0117	3.841	0.1230	3.732	0.3482	0.1109	77	0.31	050.52	0
050	Soluble Potassium as K2O (3%)	0073	3.855	0.0700	3.732	0.3482	0.1109	77	0.35	050.30	0
050	Soluble Potassium as K2O (3%)	0136	3.860	0.0400	3.732	0.3482	0.1109	77	0.37	050.30	0
050	Soluble Potassium as K2O (3%)	0185	3.875	0.5100	3.732	0.3482	0.1109	77	0.41	050.32	0
050	Soluble Potassium as K2O (3%)	0360	3.895	0.0100	3.732	0.3482	0.1109	77	0.47	050.52	0
050	Soluble Potassium as K2O (3%)	0523	3.900	0.0000	3.732	0.3482	0.1109	77	0.48	050.99	0
050	Soluble Potassium as K2O (3%)	0177	3.903	0.0190	3.732	0.3482	0.1109	77	0.49	050.99	0
050	Soluble Potassium as K2O (3%)	0106	3.944	0.0530	3.732	0.3482	0.1109	77	0.61	050.50	0
050	Soluble Potassium as K2O (3%)	0324	3.950	0.2600	3.732	0.3482	0.1109	77	0.63	050.50	0
050	Soluble Potassium as K2O (3%)	0042	3.950	0.1000	3.732	0.3482	0.1109	77	0.63	050.99	0
050	Soluble Potassium as K2O (3%)	0513	3.960	0.0200	3.732	0.3482	0.1109	77	0.66	050.62	0
050	Soluble Potassium as K2O (3%)	0043	3.965	0.0100	3.732	0.3482	0.1109	77	0.67	050.52	0
050	Soluble Potassium as K2O (3%)	0486	3.965	0.0100	3.732	0.3482	0.1109	77	0.67	050.52	0
050	Soluble Potassium as K2O (3%)	0086	3.967	0.0680	3.732	0.3482	0.1109	77	0.67	050.50	0
050	Soluble Potassium as K2O (3%)	0522	3.970	0.0000	3.732	0.3482	0.1109	77	0.68	050.00	0
050	Soluble Potassium as K2O (3%)	0451	3.970	0.0400	3.732	0.3482	0.1109	77	0.68	050.99	0
050	Soluble Potassium as K2O (3%)	0389	3.980	0.0400	3.732	0.3482	0.1109	77	0.71	050.99	0
050	Soluble Potassium as K2O (3%)	0452	3.990	0.0400	3.732	0.3482	0.1109	77	0.74	050.51	0
050	Soluble Potassium as K2O (3%)	0546	4.004	0.1130	3.732	0.3482	0.1109	77	0.78	050.99	0
050	Soluble Potassium as K2O (3%)	0095	4.020	0.0600	3.732	0.3482	0.1109	77	0.83	050.62	0
050	Soluble Potassium as K2O (3%)	0540	4.100	0.2000	3.732	0.3482	0.1109	77	1.06	050.99	0
050	Soluble Potassium as K2O (3%)	0516	4.114	0.0320	3.732	0.3482	0.1109	77	1.10	050.99	0
050	Soluble Potassium as K2O (3%)	0444	4.115	0.0500	3.732	0.3482	0.1109	77	1.10	050.50	0
050	Soluble Potassium as K2O (3%)	0535	4.150‡	0.1000	3.732	0.3482	0.1109	77	1.20	050.99	0
050	Soluble Potassium as K2O (3%)	0291	4.195‡	0.0100	3.732	0.3482	0.1109	77	1.33	050.51	0
050	Soluble Potassium as K2O (3%)	0483	4.300‡	0.1000	3.732	0.3482	0.1109	77	1.63	050.51	0
050	Soluble Potassium as K2O (3%)	0055	4.315‡	0.1300	3.732	0.3482	0.1109	77	1.67	050.50	0
050	Soluble Potassium as K2O (3%)	0114	4.345‡	0.3100	3.732	0.3482	0.1109	77	1.76	050.00	0
050	Soluble Potassium as K2O (3%)	0524	4.402‡	0.0376	3.732	0.3482	0.1109	77	1.93	050.99	0
050	Soluble Potassium as K2O (3%)	0230	4.480‡	0.1800	3.732	0.3482	0.1109	77	2.15	050.00	0
050	Soluble Potassium as K2O (3%)	0550	2.850†	1.680	3.732	0.3482	0.1109	77	-2.53	050.00	1
050	Soluble Potassium as K2O (3%)	0035	4.250‡	1.120	3.732	0.3482	0.1109	77	1.49	050.61	1
101	Acid Soluble Calcium (1%)	0255	1.160	0.1060	1.334	0.0764	0.0421	29	-2.28	101.30	0

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101	Acid Soluble Calcium (1%)	0476	1.242	0.0699	1.334	0.0764	0.0421	29	-1.21	101.99	0
101	Acid Soluble Calcium (1%)	0177	1.250	0.0139	1.334	0.0764	0.0421	29	-1.10	101.33	0
101	Acid Soluble Calcium (1%)	0136	1.265	0.0100	1.334	0.0764	0.0421	29	-0.91	101.33	0
101	Acid Soluble Calcium (1%)	0368	1.265	0.0320	1.334	0.0764	0.0421	29	-0.90	101.99	0
101	Acid Soluble Calcium (1%)	0482	1.270	0.0200	1.334	0.0764	0.0421	29	-0.84	101.30	0
101	Acid Soluble Calcium (1%)	0552	1.275	0.0300	1.334	0.0764	0.0421	29	-0.77	101.99	0
101	Acid Soluble Calcium (1%)	0117	1.277	0.0230	1.334	0.0764	0.0421	29	-0.76	101.33	0
101	Acid Soluble Calcium (1%)	0234	1.300	0.2000	1.334	0.0764	0.0421	29	-0.45	101.30	0
101	Acid Soluble Calcium (1%)	0481	1.300	0.0000	1.334	0.0764	0.0421	29	-0.45	101.99	0
101	Acid Soluble Calcium (1%)	0231	1.310	0.0400	1.334	0.0764	0.0421	29	-0.32	101.31	0
101	Acid Soluble Calcium (1%)	0389	1.315	0.0300	1.334	0.0764	0.0421	29	-0.25	101.99	0
101	Acid Soluble Calcium (1%)	0527	1.316	0.0237	1.334	0.0764	0.0421	29	-0.23	101.33	0
101	Acid Soluble Calcium (1%)	0102	1.320	0.0000	1.334	0.0764	0.0421	29	-0.19	101.30	0
101	Acid Soluble Calcium (1%)	0433	1.325	0.0060	1.334	0.0764	0.0421	29	-0.12	101.30	0
101	Acid Soluble Calcium (1%)	0360	1.330	0.0000	1.334	0.0764	0.0421	29	-0.05	101.30	0
101	Acid Soluble Calcium (1%)	0035	1.335	0.0300	1.334	0.0764	0.0421	29	0.01	101.30	0
101	Acid Soluble Calcium (1%)	0354	1.335	0.0100	1.334	0.0764	0.0421	29	0.01	101.30	0
101	Acid Soluble Calcium (1%)	0444	1.340	0.0800	1.334	0.0764	0.0421	29	0.08	101.30	0
101	Acid Soluble Calcium (1%)	0096	1.355	0.0100	1.334	0.0764	0.0421	29	0.27	101.30	0
101	Acid Soluble Calcium (1%)	0472	1.355	0.0100	1.334	0.0764	0.0421	29	0.27	101.30	0
101	Acid Soluble Calcium (1%)	0494	1.363	0.0024	1.334	0.0764	0.0421	29	0.37	101.33	0
101	Acid Soluble Calcium (1%)	0452	1.375	0.0300	1.334	0.0764	0.0421	29	0.53	101.30	0
101	Acid Soluble Calcium (1%)	0043	1.430	0.1000	1.334	0.0764	0.0421	29	1.26	101.33	0
101	Acid Soluble Calcium (1%)	0423	1.436	0.0710	1.334	0.0764	0.0421	29	1.33	101.32	0
101	Acid Soluble Calcium (1%)	0037	1.442	0.0320	1.334	0.0764	0.0421	29	1.41	101.33	0
101	Acid Soluble Calcium (1%)	0523	1.550	0.1000	1.334	0.0764	0.0421	29	2.83	101.99	0
101	Acid Soluble Calcium (1%)	0483	1.705‡	0.0900	1.334	0.0764	0.0421	29	4.86	101.30	0
101	Acid Soluble Calcium (1%)	0486	1.755‡	0.0500	1.334	0.0764	0.0421	29	5.51	101.30	0
101	Acid Soluble Calcium (1%)	0041	1.610‡	0.3600	1.334	0.0764	0.0421	29	3.61	101.30	1
101	Acid Soluble Calcium (1%)	0550	2.095‡	0.4300	1.334	0.0764	0.0421	29	9.96	101.00	1
121	Acid Soluble Magnesium (0.5%)	0309	0.1400†	0.0000	0.6551	0.0570	0.0157	37	-9.03	121.01	0
121	Acid Soluble Magnesium (0.5%)	0476	0.5725	0.0263	0.6551	0.0570	0.0157	37	-1.45	121.99	0
121	Acid Soluble Magnesium (0.5%)	0433	0.5920	0.0020	0.6551	0.0570	0.0157	37	-1.11	121.30	0
121	Acid Soluble Magnesium (0.5%)	0486	0.6000	0.0000	0.6551	0.0570	0.0157	37	-0.97	121.33	0
121	Acid Soluble Magnesium (0.5%)	0444	0.6050	0.0100	0.6551	0.0570	0.0157	37	-0.88	121.30	0
121	Acid Soluble Magnesium (0.5%)	0482	0.6050	0.0100	0.6551	0.0570	0.0157	37	-0.88	121.30	0
121	Acid Soluble Magnesium (0.5%)	0117	0.6120	0.0141	0.6551	0.0570	0.0157	37	-0.76	121.33	0
121	Acid Soluble Magnesium (0.5%)	0368	0.6148	0.0104	0.6551	0.0570	0.0157	37	-0.71	121.99	0
121	Acid Soluble Magnesium (0.5%)	0027	0.6190	0.0320	0.6551	0.0570	0.0157	37	-0.63	121.99	0
121	Acid Soluble Magnesium (0.5%)	0102	0.6200	0.0000	0.6551	0.0570	0.0157	37	-0.62	121.30	0
121	Acid Soluble Magnesium (0.5%)	0360	0.6245	0.0090	0.6551	0.0570	0.0157	37	-0.54	121.30	0
121	Acid Soluble Magnesium (0.5%)	0043	0.6250	0.0100	0.6551	0.0570	0.0157	37	-0.53	121.33	0
121	Acid Soluble Magnesium (0.5%)	0177	0.6318	0.0112	0.6551	0.0570	0.0157	37	-0.41	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 (0.5%)	0035	0.6350	0.0600	0.6551	0.0570	0.0157	37	-0.35	121.30	0
121	Acid Soluble Magnesium (0.5%)	0096	0.6350	0.0100	0.6551	0.0570	0.0157	37	-0.35	121.30	0
121	Acid Soluble Magnesium (0.5%)	0234	0.6400	0.0200	0.6551	0.0570	0.0157	37	-0.26	121.30	0
121	Acid Soluble Magnesium (0.5%)	0136	0.6400	0.0200	0.6551	0.0570	0.0157	37	-0.26	121.33	0
121	Acid Soluble Magnesium (0.5%)	0494	0.6408	0.0117	0.6551	0.0570	0.0157	37	-0.25	121.33	0
121	Acid Soluble Magnesium (0.5%)	0354	0.6450	0.0100	0.6551	0.0570	0.0157	37	-0.18	121.30	0
121	Acid Soluble Magnesium (0.5%)	0423	0.6450	0.0100	0.6551	0.0570	0.0157	37	-0.18	121.32	0
121	Acid Soluble Magnesium (0.5%)	0513	0.6550	0.0100	0.6551	0.0570	0.0157	37	0.00	121.00	0
121	Acid Soluble Magnesium (0.5%)	0524	0.6565	0.0027	0.6551	0.0570	0.0157	37	0.02	121.99	0
121	Acid Soluble Magnesium (0.5%)	0552	0.6600	0.0600	0.6551	0.0570	0.0157	37	0.09	121.99	0
121	Acid Soluble Magnesium (0.5%)	0041	0.6600	0.0200	0.6551	0.0570	0.0157	37	0.09	121.30	0
121	Acid Soluble Magnesium (0.5%)	0231	0.6600	0.0200	0.6551	0.0570	0.0157	37	0.09	121.30	0
121	Acid Soluble Magnesium (0.5%)	0389	0.6600	0.0000	0.6551	0.0570	0.0157	37	0.09	121.99	0
121	Acid Soluble Magnesium (0.5%)	0037	0.6655	0.0090	0.6551	0.0570	0.0157	37	0.18	121.33	0
121	Acid Soluble Magnesium (0.5%)	0527	0.6714	0.0099	0.6551	0.0570	0.0157	37	0.28	121.33	0
121	Acid Soluble Magnesium (0.5%)	0481	0.7000	0.0000	0.6551	0.0570	0.0157	37	0.79	121.99	0
121	Acid Soluble Magnesium (0.5%)	0523	0.7000	0.0000	0.6551	0.0570	0.0157	37	0.79	121.99	0
121	Acid Soluble Magnesium (0.5%)	0255	0.7350	0.0300	0.6551	0.0570	0.0157	37	1.40	121.30	0
121	Acid Soluble Magnesium (0.5%)	0452	0.7550	0.0100	0.6551	0.0570	0.0157	37	1.75	121.30	0
121	Acid Soluble Magnesium (0.5%)	0472	0.7600	0.0000	0.6551	0.0570	0.0157	37	1.84	121.30	0
121	Acid Soluble Magnesium (0.5%)	0550	0.8025	0.0870	0.6551	0.0570	0.0157	37	2.58	121.00	0
121	Acid Soluble Magnesium (0.5%)	0483	0.8565	0.0010	0.6551	0.0570	0.0157	37	3.53	121.30	0
121	Acid Soluble Magnesium (0.5%)	0515	0.9396‡	0.0299	0.6551	0.0570	0.0157	37	4.99	121.99	0
121	Acid Soluble Magnesium (0.5%)	0515	0.9638‡	0.0160	0.6551	0.0570	0.0157	37	5.41	121.33	0
121	Acid Soluble Magnesium (0.5%)	0114	0.6200	0.1400	0.6551	0.0570	0.0157	37	-0.62	121.30	1
121	Acid Soluble Magnesium (0.5%)	0516	0.0000‡	0.0000	0.6551	0.0570	0.0157	37		121.00	4
131	Water Soluble Magnesium (%)	0029	0.5821	0.0453	0.6438	0.0533	0.0260	6	-1.03	131.00	0
131	Water Soluble Magnesium (%)	0546	0.6285	0.0030	0.6438	0.0533	0.0260	6	-0.25	131.30	0
131	Water Soluble Magnesium (%)	0444	0.6300	0.0200	0.6438	0.0533	0.0260	6	-0.23	131.30	0
131	Water Soluble Magnesium (%)	0117	0.6355	0.0050	0.6438	0.0533	0.0260	6	-0.14	131.30	0
131	Water Soluble Magnesium (%)	0553	0.6628	0.0035	0.6438	0.0533	0.0260	6	0.32	131.00	0
131	Water Soluble Magnesium (%)	0550	0.8095	0.0790	0.6438	0.0533	0.0260	6	2.77	131.00	0
143	Elemental Sulfur (%)	0472	2.460	0.0200	2.756	0.3716	0.1133	3	-0.80	143.99	0
143	Elemental Sulfur (%)	0389	2.635	0.0100	2.756	0.3716	0.1133	3	-0.33	143.99	0
143	Elemental Sulfur (%)	0255	3.173	0.3100	2.756	0.3716	0.1133	3	1.12	143.99	0
145	Sulfate Sulfur, HCl soluble (%)	0550	2.155	1.030	2.335	0.1560	0.3967	3	-1.15	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0027	2.420	0.1400	2.335	0.1560	0.3967	3	0.54	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0444	2.430	0.0200	2.335	0.1560	0.3967	3	0.61	145.99	0
148	Total Sulfur (2.5%)	0476	1.435‡	0.0570	2.503	0.2707	0.0680	31	-3.94	148.01	0
148	Total Sulfur (2.5%)	0405	1.650‡	0.1000	2.503	0.2707	0.0680	31	-3.15	148.01	0
148	Total Sulfur (2.5%)	0481	1.700‡	0.0000	2.503	0.2707	0.0680	31	-2.97	148.99	0
148	Total Sulfur (2.5%)	0136	2.020‡	0.0800	2.503	0.2707	0.0680	31	-1.78	148.00	0
148	Total Sulfur (2.5%)	0444	2.255	0.0300	2.503	0.2707	0.0680	31	-0.92	148.07	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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148	Total Sulfur (2.5%)	0096	2.275	0.0100	2.503	0.2707	0.0680	31	-0.84	148.99	0
148	Total Sulfur (2.5%)	0029	2.305	0.0100	2.503	0.2707	0.0680	31	-0.73	148.01	0
148	Total Sulfur (2.5%)	0513	2.305	0.0500	2.503	0.2707	0.0680	31	-0.73	148.01	0
148	Total Sulfur (2.5%)	0433	2.325	0.0530	2.503	0.2707	0.0680	31	-0.66	148.99	0
148	Total Sulfur (2.5%)	0486	2.340	0.0000	2.503	0.2707	0.0680	31	-0.60	148.07	0
148	Total Sulfur (2.5%)	0220	2.365	0.0500	2.503	0.2707	0.0680	31	-0.51	148.01	0
148	Total Sulfur (2.5%)	0095	2.490	0.0000	2.503	0.2707	0.0680	31	-0.05	148.01	0
148	Total Sulfur (2.5%)	0523	2.505	0.0100	2.503	0.2707	0.0680	31	0.01	148.99	0
148	Total Sulfur (2.5%)	0360	2.511	0.2990	2.503	0.2707	0.0680	31	0.03	148.00	0
148	Total Sulfur (2.5%)	0102	2.520	0.0000	2.503	0.2707	0.0680	31	0.06	148.07	0
148	Total Sulfur (2.5%)	0451	2.537	0.1210	2.503	0.2707	0.0680	31	0.12	148.00	0
148	Total Sulfur (2.5%)	0037	2.539	0.0250	2.503	0.2707	0.0680	31	0.13	148.07	0
148	Total Sulfur (2.5%)	0157	2.540	0.0400	2.503	0.2707	0.0680	31	0.14	148.01	0
148	Total Sulfur (2.5%)	0117	2.543	0.0550	2.503	0.2707	0.0680	31	0.15	148.07	0
148	Total Sulfur (2.5%)	0177	2.609	0.0267	2.503	0.2707	0.0680	31	0.39	148.07	0
148	Total Sulfur (2.5%)	0494	2.631	0.0088	2.503	0.2707	0.0680	31	0.47	148.07	0
148	Total Sulfur (2.5%)	0368	2.633	0.0409	2.503	0.2707	0.0680	31	0.48	148.99	0
148	Total Sulfur (2.5%)	0452	2.675	0.0300	2.503	0.2707	0.0680	31	0.64	148.99	0
148	Total Sulfur (2.5%)	0527	2.693	0.1691	2.503	0.2707	0.0680	31	0.70	148.07	0
148	Total Sulfur (2.5%)	0114	2.700	0.5200	2.503	0.2707	0.0680	31	0.73	148.00	0
148	Total Sulfur (2.5%)	0231	2.705	0.0100	2.503	0.2707	0.0680	31	0.75	148.07	0
148	Total Sulfur (2.5%)	0482	2.765	0.0700	2.503	0.2707	0.0680	31	0.97	148.99	0
148	Total Sulfur (2.5%)	0029	2.797	0.1410	2.503	0.2707	0.0680	31	1.08	148.00	0
148	Total Sulfur (2.5%)	0553	2.831‡	0.0501	2.503	0.2707	0.0680	31	1.21	148.99	0
148	Total Sulfur (2.5%)	0354	2.900‡	0.0400	2.503	0.2707	0.0680	31	1.47	148.99	0
148	Total Sulfur (2.5%)	0483	2.985‡	0.0100	2.503	0.2707	0.0680	31	1.78	148.07	0
148	Total Sulfur (2.5%)	0515	2.973‡	0.8798	2.503	0.2707	0.0680	31	1.74	148.07	1
149	Sulfur - HNO3 soluble (%)	0423	2.605	0.0300	2.672	0.1032	0.0228	3	-0.65	149.04	0
149	Sulfur - HNO3 soluble (%)	0043	2.620	0.0000	2.672	0.1032	0.0228	3	-0.50	149.04	0
149	Sulfur - HNO3 soluble (%)	0524	2.791	0.0383	2.672	0.1032	0.0228	3	1.15	149.04	0
151	Acid Soluble Arsenic (ppm)	0550	0.1175	0.0030	1.079	0.8192	0.2592	8	-1.07	151.00	0
151	Acid Soluble Arsenic (ppm)	0136	0.4200	0.0600	1.079	0.8192	0.2592	8	-0.74	151.00	0
151	Acid Soluble Arsenic (ppm)	0476	0.5474	0.0095	1.079	0.8192	0.2592	8	-0.59	151.99	0
151	Acid Soluble Arsenic (ppm)	0255	0.7155	0.3270	1.079	0.8192	0.2592	8	-0.41	151.30	0
151	Acid Soluble Arsenic (ppm)	0527	1.285	0.9900	1.079	0.8192	0.2592	8	0.23	151.33	0
151	Acid Soluble Arsenic (ppm)	0515	1.671	0.1110	1.079	0.8192	0.2592	8	0.66	151.33	0
151	Acid Soluble Arsenic (ppm)	0368	1.879	0.1732	1.079	0.8192	0.2592	8	0.89	151.34	0
151	Acid Soluble Arsenic (ppm)	0220	2.000	0.4000	1.079	0.8192	0.2592	8	1.03	151.99	0
151	Acid Soluble Arsenic (ppm)	0515	2.409	1.968	1.079	0.8192	0.2592	8	1.48	151.34	1
165	Acid Soluble Boron (0.01%)	0524	0.0195	0.0001	0.0244	0.0041	0.0113	24	-1.21	165.99	0
165	Acid Soluble Boron (0.01%)	0136	0.0200	0.0000	0.0244	0.0041	0.0113	24	-1.07	165.30	0
165	Acid Soluble Boron (0.01%)	0354	0.0200	0.0000	0.0244	0.0041	0.0113	24	-1.07	165.30	0
165	Acid Soluble Boron (0.01%)	0472	0.0200	0.0000	0.0244	0.0041	0.0113	24	-1.07	165.99	0

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165	Acid Soluble Boron (0.01%)	0486	0.0205	0.0010	0.0244	0.0041	0.0113	24	-0.95	165.99	0
165	Acid Soluble Boron (0.01%)	0102	0.0215	0.0010	0.0244	0.0041	0.0113	24	-0.71	165.30	0
165	Acid Soluble Boron (0.01%)	0117	0.0222	0.0006	0.0244	0.0041	0.0113	24	-0.54	165.99	0
165	Acid Soluble Boron (0.01%)	0550	0.0229	0.0000	0.0244	0.0041	0.0113	24	-0.37	165.00	0
165	Acid Soluble Boron (0.01%)	0476	0.0230	0.0007	0.0244	0.0041	0.0113	24	-0.35	165.99	0
165	Acid Soluble Boron (0.01%)	0043	0.0230	0.0020	0.0244	0.0041	0.0113	24	-0.34	165.30	0
165	Acid Soluble Boron (0.01%)	0389	0.0230	0.0000	0.0244	0.0041	0.0113	24	-0.34	165.30	0
165	Acid Soluble Boron (0.01%)	0444	0.0230	0.0000	0.0244	0.0041	0.0113	24	-0.34	165.30	0
165	Acid Soluble Boron (0.01%)	0360	0.0230	0.0000	0.0244	0.0041	0.0113	24	-0.34	165.99	0
165	Acid Soluble Boron (0.01%)	0433	0.0235	0.0010	0.0244	0.0041	0.0113	24	-0.22	165.30	0
165	Acid Soluble Boron (0.01%)	0368	0.0255	0.0005	0.0244	0.0041	0.0113	24	0.26	165.99	0
165	Acid Soluble Boron (0.01%)	0255	0.0255	0.0010	0.0244	0.0041	0.0113	24	0.27	165.99	0
165	Acid Soluble Boron (0.01%)	0494	0.0258	0.0014	0.0244	0.0041	0.0113	24	0.34	165.30	0
165	Acid Soluble Boron (0.01%)	0527	0.0266	0.0077	0.0244	0.0041	0.0113	24	0.52	165.99	0
165	Acid Soluble Boron (0.01%)	0483	0.0273	0.0007	0.0244	0.0041	0.0113	24	0.69	165.99	0
165	Acid Soluble Boron (0.01%)	0220	0.0290	0.0020	0.0244	0.0041	0.0113	24	1.12	165.00	0
165	Acid Soluble Boron (0.01%)	0481	0.0300	0.0000	0.0244	0.0041	0.0113	24	1.37	165.00	0
165	Acid Soluble Boron (0.01%)	0482	0.0300	0.0000	0.0244	0.0041	0.0113	24	1.37	165.99	0
165	Acid Soluble Boron (0.01%)	0515	0.03310‡	0.0008	0.0244	0.0041	0.0113	24	2.12	165.99	0
165	Acid Soluble Boron (0.01%)	0552	0.2050‡	0.2500	0.0244	0.0041	0.0113	24	44.05	165.99	0
165	Acid Soluble Boron (0.01%)	0423	229.1‡	7.800	0.0244	0.0041	0.0113	24	55874.91	165.99	2
171	Water Soluble Boron (%)	0550	0.0212	0.0000	0.0245	0.0049	0.0020	5	-0.67	171.10	0
171	Water Soluble Boron (%)	0546	0.0221	0.0004	0.0245	0.0049	0.0020	5	-0.49	171.99	0
171	Water Soluble Boron (%)	0027	0.0230	0.0020	0.0245	0.0049	0.0020	5	-0.30	171.99	0
171	Water Soluble Boron (%)	0444	0.0230	0.0020	0.0245	0.0049	0.0020	5	-0.30	171.99	0
171	Water Soluble Boron (%)	0553	0.0332	0.0057	0.0245	0.0049	0.0020	5	1.77	171.10	0
181	Acid Soluble Cadmium (ppm)	0524	0.0032	0.0028	0.2620	0.4114	0.3894	7	-0.57	181.30	0
181	Acid Soluble Cadmium (ppm)	0255	0.0470	0.0000	0.2620	0.4114	0.3894	7	-0.47	181.30	0
181	Acid Soluble Cadmium (ppm)	0389	0.0650	0.0000	0.2620	0.4114	0.3894	7	-0.43	181.30	0
181	Acid Soluble Cadmium (ppm)	0220	0.0650	0.0100	0.2620	0.4114	0.3894	7	-0.43	181.99	0
181	Acid Soluble Cadmium (ppm)	0527	0.0700	0.0000	0.2620	0.4114	0.3894	7	-0.42	181.33	0
181	Acid Soluble Cadmium (ppm)	0515	0.7718	1.282	0.2620	0.4114	0.3894	7	1.12	181.33	0
181	Acid Soluble Cadmium (ppm)	0515	0.8117	1.431	0.2620	0.4114	0.3894	7	1.21	181.34	0
181	Acid Soluble Cadmium (ppm)	0368	0.0000	0.0000	0.2620	0.4114	0.3894	7		181.34	4
190	Water Soluble Chlorine (%)	0524	46.93	0.6396				1		190.00	0
191	Acid Soluble Chromium (ppm)	0527	1.250	0.0000	2.634	1.848	0.2702	12	-0.75	191.33	0
191	Acid Soluble Chromium (ppm)	0550	1.345	0.0300	2.634	1.848	0.2702	12	-0.70	191.00	0
191	Acid Soluble Chromium (ppm)	0096	1.450	0.1000	2.634	1.848	0.2702	12	-0.64	191.30	0
191	Acid Soluble Chromium (ppm)	0117	1.523	0.0110	2.634	1.848	0.2702	12	-0.60	191.33	0
191	Acid Soluble Chromium (ppm)	0476	1.531	0.0006	2.634	1.848	0.2702	12	-0.60	191.99	0
191	Acid Soluble Chromium (ppm)	0368	1.538	0.0501	2.634	1.848	0.2702	12	-0.59	191.34	0
191	Acid Soluble Chromium (ppm)	0389	1.795	0.0100	2.634	1.848	0.2702	12	-0.45	191.30	0
191	Acid Soluble Chromium (ppm)	0220	2.700	0.2000	2.634	1.848	0.2702	12	0.04	191.99	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				
191	Acid Soluble Chromium (ppm)	0515	2.933	0.6805	2.634	1.848	0.2702	12	0.16	191.33	0
191	Acid Soluble Chromium (ppm)	0035	4.735	0.4500	2.634	1.848	0.2702	12	1.14	191.30	0
191	Acid Soluble Chromium (ppm)	0444	5.775	0.5500	2.634	1.848	0.2702	12	1.70	191.30	0
191	Acid Soluble Chromium (ppm)	0037	7.136	1.160	2.634	1.848	0.2702	12	2.44	191.33	0
191	Acid Soluble Chromium (ppm)	0515	4.189	2.890	2.634	1.848	0.2702	12	0.84	191.34	1
202	Acid Soluble Cobalt (ppm)	0389	0.7500	0.0200	0.9193	0.1598	0.0926	10	-0.99	202.30	0
202	Acid Soluble Cobalt (ppm)	0368	0.7605	0.0819	0.9193	0.1598	0.0926	10	-0.92	202.34	0
202	Acid Soluble Cobalt (ppm)	0476	0.7799	0.0094	0.9193	0.1598	0.0926	10	-0.81	202.99	0
202	Acid Soluble Cobalt (ppm)	0255	0.8445	0.0450	0.9193	0.1598	0.0926	10	-0.44	202.99	0
202	Acid Soluble Cobalt (ppm)	0117	0.8875	0.0030	0.9193	0.1598	0.0926	10	-0.19	202.33	0
202	Acid Soluble Cobalt (ppm)	0527	0.9500	0.0200	0.9193	0.1598	0.0926	10	0.18	202.33	0
202	Acid Soluble Cobalt (ppm)	0524	0.9719	0.0697	0.9193	0.1598	0.0926	10	0.31	202.30	0
202	Acid Soluble Cobalt (ppm)	0037	0.9900	0.0060	0.9193	0.1598	0.0926	10	0.41	202.33	0
202	Acid Soluble Cobalt (ppm)	0220	1.100	0.0000	0.9193	0.1598	0.0926	10	1.05	202.99	0
202	Acid Soluble Cobalt (ppm)	0515	1.606	0.6709	0.9193	0.1598	0.0926	10	3.99	202.33	0
202	Acid Soluble Cobalt (ppm)	0515	2.637	2.645	0.9193	0.1598	0.0926	10	9.99	202.34	1
221	Acid Soluble Copper (%)	0550	0.0011	0.0017	0.0028	0.0011	0.0036	18	-1.58	221.00	0
221	Acid Soluble Copper (%)	0476	0.0020	0.0000	0.0028	0.0011	0.0036	18	-0.74	221.99	0
221	Acid Soluble Copper (%)	0527	0.0021	0.0000	0.0028	0.0011	0.0036	18	-0.65	221.33	0
221	Acid Soluble Copper (%)	0117	0.0022	0.0001	0.0028	0.0011	0.0036	18	-0.61	221.33	0
221	Acid Soluble Copper (%)	0494	0.0022	0.0001	0.0028	0.0011	0.0036	18	-0.61	221.33	0
221	Acid Soluble Copper (%)	0389	0.0022	0.0000	0.0028	0.0011	0.0036	18	-0.56	221.99	0
221	Acid Soluble Copper (%)	0096	0.0023	0.0002	0.0028	0.0011	0.0036	18	-0.47	221.30	0
221	Acid Soluble Copper (%)	0524	0.0023	0.0000	0.0028	0.0011	0.0036	18	-0.47	221.99	0
221	Acid Soluble Copper (%)	0220	0.0024	0.0000	0.0028	0.0011	0.0036	18	-0.38	221.99	0
221	Acid Soluble Copper (%)	0035	0.0025	0.0005	0.0028	0.0011	0.0036	18	-0.34	221.30	0
221	Acid Soluble Copper (%)	0523	0.0025	0.0010	0.0028	0.0011	0.0036	18	-0.29	221.99	0
221	Acid Soluble Copper (%)	0255	0.0030	0.0000	0.0028	0.0011	0.0036	18	0.15	221.30	0
221	Acid Soluble Copper (%)	0515	0.0034	0.0007	0.0028	0.0011	0.0036	18	0.46	221.33	0
221	Acid Soluble Copper (%)	0444	0.0035	0.0010	0.0028	0.0011	0.0036	18	0.60	221.30	0
221	Acid Soluble Copper (%)	0515	0.0039	0.0009	0.0028	0.0011	0.0036	18	0.91	221.99	0
221	Acid Soluble Copper (%)	0354	0.0100	0.0000	0.0028	0.0011	0.0036	18	6.38	221.30	0
221	Acid Soluble Copper (%)	0483	0.0116	0.0181	0.0028	0.0011	0.0036	18	7.76	221.30	0
221	Acid Soluble Copper (%)	0552	0.0300	0.0400	0.0028	0.0011	0.0036	18	24.19	221.30	0
221	Acid Soluble Copper (%)	0423	69.85	1.300	0.0028	0.0011	0.0036	18	62174.69	221.32	2
221	Acid Soluble Copper (%)	0368	21.86	0.3777	0.0028	0.0011	0.0036	18	19457.52	221.99	3
221	Acid Soluble Copper (%)	0533	0.0000	0.0000	0.0028	0.0011	0.0036	18		221.00	4
241	Acid Soluble Iron (0.05%)	0550	0.07480†	0.0356	0.0939	0.0119	0.0108	36	-1.60	241.00	0
241	Acid Soluble Iron (0.05%)	0354	0.0800	0.0000	0.0939	0.0119	0.0108	36	-1.16	241.30	0
241	Acid Soluble Iron (0.05%)	0513	0.0830	0.0020	0.0939	0.0119	0.0108	36	-0.91	241.00	0
241	Acid Soluble Iron (0.05%)	0114	0.0835	0.0050	0.0939	0.0119	0.0108	36	-0.87	241.30	0
241	Acid Soluble Iron (0.05%)	0476	0.0841	0.0021	0.0939	0.0119	0.0108	36	-0.82	241.99	0
241	Acid Soluble Iron (0.05%)	0096	0.0850	0.0100	0.0939	0.0119	0.0108	36	-0.74	241.30	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				
241	Acid Soluble Iron (0.05%)	0136	0.0850	0.0100	0.0939	0.0119	0.0108	36	-0.74	241.33	0
241	Acid Soluble Iron (0.05%)	0527	0.0850	0.0006	0.0939	0.0119	0.0108	36	-0.74	241.33	0
241	Acid Soluble Iron (0.05%)	0043	0.0865	0.0010	0.0939	0.0119	0.0108	36	-0.62	241.33	0
241	Acid Soluble Iron (0.05%)	0117	0.0870	0.0023	0.0939	0.0119	0.0108	36	-0.58	241.33	0
241	Acid Soluble Iron (0.05%)	0102	0.0870	0.0020	0.0939	0.0119	0.0108	36	-0.58	241.30	0
241	Acid Soluble Iron (0.05%)	0368	0.0877	0.0032	0.0939	0.0119	0.0108	36	-0.52	241.99	0
241	Acid Soluble Iron (0.05%)	0360	0.0880	0.0000	0.0939	0.0119	0.0108	36	-0.49	241.30	0
241	Acid Soluble Iron (0.05%)	0486	0.0885	0.0010	0.0939	0.0119	0.0108	36	-0.45	241.33	0
241	Acid Soluble Iron (0.05%)	0524	0.0887	0.0022	0.0939	0.0119	0.0108	36	-0.43	241.99	0
241	Acid Soluble Iron (0.05%)	0494	0.0889	0.0001	0.0939	0.0119	0.0108	36	-0.42	241.33	0
241	Acid Soluble Iron (0.05%)	0523	0.0890	0.0020	0.0939	0.0119	0.0108	36	-0.41	241.99	0
241	Acid Soluble Iron (0.05%)	0481	0.0900	0.0000	0.0939	0.0119	0.0108	36	-0.33	241.99	0
241	Acid Soluble Iron (0.05%)	0444	0.0910	0.0040	0.0939	0.0119	0.0108	36	-0.24	241.30	0
241	Acid Soluble Iron (0.05%)	0433	0.0915	0.0010	0.0939	0.0119	0.0108	36	-0.20	241.30	0
241	Acid Soluble Iron (0.05%)	0035	0.0925	0.0050	0.0939	0.0119	0.0108	36	-0.12	241.30	0
241	Acid Soluble Iron (0.05%)	0452	0.0925	0.0010	0.0939	0.0119	0.0108	36	-0.12	241.30	0
241	Acid Soluble Iron (0.05%)	0231	0.0950	0.0100	0.0939	0.0119	0.0108	36	0.09	241.30	0
241	Acid Soluble Iron (0.05%)	0041	0.0955	0.0030	0.0939	0.0119	0.0108	36	0.14	241.30	0
241	Acid Soluble Iron (0.05%)	0037	0.0965	0.0010	0.0939	0.0119	0.0108	36	0.22	241.33	0
241	Acid Soluble Iron (0.05%)	0389	0.0965	0.0010	0.0939	0.0119	0.0108	36	0.22	241.99	0
241	Acid Soluble Iron (0.05%)	0483	0.0985	0.0051	0.0939	0.0119	0.0108	36	0.38	241.30	0
241	Acid Soluble Iron (0.05%)	0482	0.1000	0.0000	0.0939	0.0119	0.0108	36	0.51	241.30	0
241	Acid Soluble Iron (0.05%)	0472	0.1050	0.0100	0.0939	0.0119	0.0108	36	0.93	241.30	0
241	Acid Soluble Iron (0.05%)	0255	0.1175‡	0.0170	0.0939	0.0119	0.0108	36	1.98	241.30	0
241	Acid Soluble Iron (0.05%)	0515	0.1388‡	0.0184	0.0939	0.0119	0.0108	36	3.77	241.33	0
241	Acid Soluble Iron (0.05%)	0515	0.1434‡	0.0089	0.0939	0.0119	0.0108	36	4.15	241.99	0
241	Acid Soluble Iron (0.05%)	0540	0.1650‡	0.0300	0.0939	0.0119	0.0108	36	5.96	241.00	0
241	Acid Soluble Iron (0.05%)	0535	0.1750‡	0.0100	0.0939	0.0119	0.0108	36	6.80	241.00	0
241	Acid Soluble Iron (0.05%)	0533	0.1765‡	0.0030	0.0939	0.0119	0.0108	36	6.93	241.00	0
241	Acid Soluble Iron (0.05%)	0552	0.2000‡	0.1800	0.0939	0.0119	0.0108	36	8.90	241.30	0
241	Acid Soluble Iron (0.05%)	0423	929.0‡	17.00	0.0939	0.0119	0.0108	36	77890.33	241.32	2
251	Acid Soluble Lead (ppm)	0255	0.0270	0.0300	0.4690	0.6045	0.4361	8	-0.67	251.30	0
251	Acid Soluble Lead (ppm)	0527	0.0600	0.0200	0.4690	0.6045	0.4361	8	-0.62	251.33	0
251	Acid Soluble Lead (ppm)	0389	0.0650	0.0700	0.4690	0.6045	0.4361	8	-0.61	251.30	0
251	Acid Soluble Lead (ppm)	0476	0.1405	0.0485	0.4690	0.6045	0.4361	8	-0.50	251.99	0
251	Acid Soluble Lead (ppm)	0524	0.2168	0.0245	0.4690	0.6045	0.4361	8	-0.38	251.30	0
251	Acid Soluble Lead (ppm)	0550	0.7960	1.460	0.4690	0.6045	0.4361	8	0.49	251.00	0
251	Acid Soluble Lead (ppm)	0515	1.071	1.436	0.4690	0.6045	0.4361	8	0.91	251.34	0
251	Acid Soluble Lead (ppm)	0096	1.500	0.4000	0.4690	0.6045	0.4361	8	1.56	251.30	0
251	Acid Soluble Lead (ppm)	0368	0.0455	0.0910	0.4690	0.6045	0.4361	8		251.34	4
251	Acid Soluble Lead (ppm)	0515	1.018	2.037	0.4690	0.6045	0.4361	8		251.33	4
261	Acid Soluble Manganese (0.03%)	0540	0.02795†	0.0009	0.0444	0.0052	0.0036	36	-3.15	261.12	0
261	Acid Soluble Manganese (0.03%)	0535	0.02850†	0.0010	0.0444	0.0052	0.0036	36	-3.05	261.12	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 Manganese (0.03%)	0533	0.02900†	0.0020	0.0444	0.0052	0.0036	36	-2.95	261.12	0
261	Acid Soluble Manganese (0.03%)	0550	0.0357	0.0190	0.0444	0.0052	0.0036	36	-1.67	261.12	0
261	Acid Soluble Manganese (0.03%)	0114	0.0400	0.0060	0.0444	0.0052	0.0036	36	-0.85	261.30	0
261	Acid Soluble Manganese (0.03%)	0354	0.0400	0.0000	0.0444	0.0052	0.0036	36	-0.85	261.30	0
261	Acid Soluble Manganese (0.03%)	0234	0.0400	0.0000	0.0444	0.0052	0.0036	36	-0.85	261.31	0
261	Acid Soluble Manganese (0.03%)	0136	0.0400	0.0000	0.0444	0.0052	0.0036	36	-0.85	261.35	0
261	Acid Soluble Manganese (0.03%)	0481	0.0400	0.0000	0.0444	0.0052	0.0036	36	-0.85	261.99	0
261	Acid Soluble Manganese (0.03%)	0476	0.0402	0.0012	0.0444	0.0052	0.0036	36	-0.81	261.99	0
261	Acid Soluble Manganese (0.03%)	0433	0.0430	0.0020	0.0444	0.0052	0.0036	36	-0.28	261.30	0
261	Acid Soluble Manganese (0.03%)	0043	0.0430	0.0000	0.0444	0.0052	0.0036	36	-0.28	261.35	0
261	Acid Soluble Manganese (0.03%)	0117	0.0430	0.0010	0.0444	0.0052	0.0036	36	-0.28	261.35	0
261	Acid Soluble Manganese (0.03%)	0494	0.0434	0.0035	0.0444	0.0052	0.0036	36	-0.21	261.35	0
261	Acid Soluble Manganese (0.03%)	0524	0.0439	0.0000	0.0444	0.0052	0.0036	36	-0.10	261.99	0
261	Acid Soluble Manganese (0.03%)	0360	0.0440	0.0000	0.0444	0.0052	0.0036	36	-0.08	261.31	0
261	Acid Soluble Manganese (0.03%)	0486	0.0440	0.0000	0.0444	0.0052	0.0036	36	-0.08	261.35	0
261	Acid Soluble Manganese (0.03%)	0368	0.0441	0.0023	0.0444	0.0052	0.0036	36	-0.08	261.99	0
261	Acid Soluble Manganese (0.03%)	0035	0.0445	0.0010	0.0444	0.0052	0.0036	36	0.01	261.30	0
261	Acid Soluble Manganese (0.03%)	0041	0.0445	0.0010	0.0444	0.0052	0.0036	36	0.01	261.30	0
261	Acid Soluble Manganese (0.03%)	0096	0.0445	0.0016	0.0444	0.0052	0.0036	36	0.01	261.30	0
261	Acid Soluble Manganese (0.03%)	0444	0.0445	0.0030	0.0444	0.0052	0.0036	36	0.01	261.32	0
261	Acid Soluble Manganese (0.03%)	0527	0.0455	0.0002	0.0444	0.0052	0.0036	36	0.20	261.35	0
261	Acid Soluble Manganese (0.03%)	0389	0.0460	0.0000	0.0444	0.0052	0.0036	36	0.30	261.99	0
261	Acid Soluble Manganese (0.03%)	0102	0.0465	0.0030	0.0444	0.0052	0.0036	36	0.39	261.30	0
261	Acid Soluble Manganese (0.03%)	0452	0.0470	0.0000	0.0444	0.0052	0.0036	36	0.49	261.30	0
261	Acid Soluble Manganese (0.03%)	0037	0.0475	0.0010	0.0444	0.0052	0.0036	36	0.58	261.35	0
261	Acid Soluble Manganese (0.03%)	0255	0.0480	0.0020	0.0444	0.0052	0.0036	36	0.68	261.99	0
261	Acid Soluble Manganese (0.03%)	0523	0.0490	0.0000	0.0444	0.0052	0.0036	36	0.87	261.99	0
261	Acid Soluble Manganese (0.03%)	0472	0.0500	0.0000	0.0444	0.0052	0.0036	36	1.06	261.30	0
261	Acid Soluble Manganese (0.03%)	0482	0.0500	0.0000	0.0444	0.0052	0.0036	36	1.06	261.31	0
261	Acid Soluble Manganese (0.03%)	0231	0.0500	0.0000	0.0444	0.0052	0.0036	36	1.06	261.33	0
261	Acid Soluble Manganese (0.03%)	0483	0.0507	0.0054	0.0444	0.0052	0.0036	36	1.20	261.32	0
261	Acid Soluble Manganese (0.03%)	0515	0.06740‡	0.0136	0.0444	0.0052	0.0036	36	4.39	261.35	0
261	Acid Soluble Manganese (0.03%)	0515	0.07400‡	0.0074	0.0444	0.0052	0.0036	36	5.65	261.99	0
261	Acid Soluble Manganese (0.03%)	0552	0.07500‡	0.0500	0.0444	0.0052	0.0036	36	5.84	261.32	0
261	Acid Soluble Manganese (0.03%)	0423	490.9‡	10.70	0.0444	0.0052	0.0036	36	93796.94	261.34	2
271	Water Soluble Manganese (%)	0553	0.0403	0.0007	0.0436	0.0026	0.0008	5	-1.14	271.00	0
271	Water Soluble Manganese (%)	0546	0.0417	0.0001	0.0436	0.0026	0.0008	5	-0.66	271.30	0
271	Water Soluble Manganese (%)	0117	0.0445	0.0002	0.0436	0.0026	0.0008	5	0.31	271.99	0
271	Water Soluble Manganese (%)	0027	0.0450	0.0000	0.0436	0.0026	0.0008	5	0.48	271.00	0
271	Water Soluble Manganese (%)	0444	0.0465	0.0030	0.0436	0.0026	0.0008	5	1.00	271.30	0
271	Water Soluble Manganese (%)	0550	0.0361	0.0224	0.0436	0.0026	0.0008	5	-2.55	271.00	1
281	Acid Soluble Mercury (ppm)	0009	0.0265	0.0010	0.2753	0.4161	0.4415	4	-0.60	281.99	0
281	Acid Soluble Mercury (ppm)	0527	0.0550	0.0100	0.2753	0.4161	0.4415	4	-0.53	281.30	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				
281	Acid Soluble Mercury (ppm)	0476	0.1232	0.0080	0.2753	0.4161	0.4415	4	-0.37	281.99	0
281	Acid Soluble Mercury (ppm)	0550	0.8965	1.747	0.2753	0.4161	0.4415	4	1.49	281.00	0
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000	0.2753	0.4161	0.4415	4		281.30	4
289	Acid Soluble Molybdenum (ppm)	0389	0.0510	0.0060	0.6039	0.7759	0.6992	10	-0.66	289.30	0
289	Acid Soluble Molybdenum (ppm)	0524	0.0576	0.0193	0.6039	0.7759	0.6992	10	-0.65	289.30	0
289	Acid Soluble Molybdenum (ppm)	0527	0.1500	0.0000	0.6039	0.7759	0.6992	10	-0.54	289.33	0
289	Acid Soluble Molybdenum (ppm)	0476	0.1550	0.0239	0.6039	0.7759	0.6992	10	-0.54	289.99	0
289	Acid Soluble Molybdenum (ppm)	0117	0.1675	0.0130	0.6039	0.7759	0.6992	10	-0.52	289.33	0
289	Acid Soluble Molybdenum (ppm)	0220	0.3500	0.1000	0.6039	0.7759	0.6992	10	-0.30	289.99	0
289	Acid Soluble Molybdenum (ppm)	0515	0.4177	0.3408	0.6039	0.7759	0.6992	10	-0.22	289.33	0
289	Acid Soluble Molybdenum (ppm)	0255	1.252	2.106	0.6039	0.7759	0.6992	10	0.78	289.30	0
289	Acid Soluble Molybdenum (ppm)	0515	1.670	3.269	0.6039	0.7759	0.6992	10	1.28	289.34	0
289	Acid Soluble Molybdenum (ppm)	0368	3.230	1.114	0.6039	0.7759	0.6992	10	3.15	289.34	0
291	Acid Soluble Nickel (ppm)	0524	0.8156	0.2116	2.059	1.323	0.5359	13	-0.94	291.30	0
291	Acid Soluble Nickel (ppm)	0389	0.9350	0.0100	2.059	1.323	0.5359	13	-0.85	291.30	0
291	Acid Soluble Nickel (ppm)	0527	1.015	0.0500	2.059	1.323	0.5359	13	-0.79	291.33	0
291	Acid Soluble Nickel (ppm)	0220	1.200	0.2000	2.059	1.323	0.5359	13	-0.65	291.99	0
291	Acid Soluble Nickel (ppm)	0476	1.211	0.0974	2.059	1.323	0.5359	13	-0.64	291.99	0
291	Acid Soluble Nickel (ppm)	0037	1.354	0.0740	2.059	1.323	0.5359	13	-0.53	291.33	0
291	Acid Soluble Nickel (ppm)	0035	1.830	0.3600	2.059	1.323	0.5359	13	-0.17	291.30	0
291	Acid Soluble Nickel (ppm)	0368	2.012	0.0494	2.059	1.323	0.5359	13	-0.04	291.34	0
291	Acid Soluble Nickel (ppm)	0515	2.227	1.379	2.059	1.323	0.5359	13	0.13	291.33	0
291	Acid Soluble Nickel (ppm)	0515	2.480	1.899	2.059	1.323	0.5359	13	0.32	291.34	0
291	Acid Soluble Nickel (ppm)	0444	3.640	0.3200	2.059	1.323	0.5359	13	1.20	291.30	0
291	Acid Soluble Nickel (ppm)	0255	4.003	0.5540	2.059	1.323	0.5359	13	1.47	291.99	0
291	Acid Soluble Nickel (ppm)	0550	7.669	1.762	2.059	1.323	0.5359	13	4.24	291.00	0
301	Acid Soluble Selenium (ppm)	0220	0.1000	0.0000	1.058	1.329	0.1879	6	-0.64	301.99	0
301	Acid Soluble Selenium (ppm)	0476	0.3316	0.0666	1.058	1.329	0.1879	6	-0.49	301.99	0
301	Acid Soluble Selenium (ppm)	0255	0.3430	0.1980	1.058	1.329	0.1879	6	-0.48	301.99	0
301	Acid Soluble Selenium (ppm)	0524	0.6075	0.2850	1.058	1.329	0.1879	6	-0.30	301.30	0
301	Acid Soluble Selenium (ppm)	0527	1.915	0.0500	1.058	1.329	0.1879	6	0.57	301.33	0
301	Acid Soluble Selenium (ppm)	0515	3.353	0.5280	1.058	1.329	0.1879	6	1.54	301.34	0
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	1.058	1.329	0.1879	6		301.33	4
301	Acid Soluble Selenium (ppm)	0368	0.0000	0.0000	1.058	1.329	0.1879	6		301.34	4
311	Sodium (0.5%)	0486	0.9800	0.0200	1.046	0.0651	0.0202	21	-1.02	311.33	0
311	Sodium (0.5%)	0096	0.9800	0.0400	1.046	0.0651	0.0202	21	-1.02	311.99	0
311	Sodium (0.5%)	0035	0.9825	0.0110	1.046	0.0651	0.0202	21	-0.98	311.33	0
311	Sodium (0.5%)	0546	0.9920	0.0060	1.046	0.0651	0.0202	21	-0.83	311.33	0
311	Sodium (0.5%)	0043	0.9950	0.0100	1.046	0.0651	0.0202	21	-0.79	311.33	0
311	Sodium (0.5%)	0444	1.000	0.0400	1.046	0.0651	0.0202	21	-0.71	311.32	0
311	Sodium (0.5%)	0481	1.000	0.0000	1.046	0.0651	0.0202	21	-0.71	311.99	0
311	Sodium (0.5%)	0255	1.012	0.0450	1.046	0.0651	0.0202	21	-0.53	311.99	0
311	Sodium (0.5%)	0117	1.013	0.0230	1.046	0.0651	0.0202	21	-0.52	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 (0.5%)	0527	1.020	0.0103	1.046	0.0651	0.0202	21	-0.40	311.33	0
311	Sodium (0.5%)	0482	1.025	0.0100	1.046	0.0651	0.0202	21	-0.33	311.99	0
311	Sodium (0.5%)	0102	1.040	0.0200	1.046	0.0651	0.0202	21	-0.10	311.33	0
311	Sodium (0.5%)	0389	1.045	0.0100	1.046	0.0651	0.0202	21	-0.02	311.32	0
311	Sodium (0.5%)	0037	1.061	0.0090	1.046	0.0651	0.0202	21	0.22	311.33	0
311	Sodium (0.5%)	0423	1.090	0.0710	1.046	0.0651	0.0202	21	0.66	311.33	0
311	Sodium (0.5%)	0354	1.090	0.0000	1.046	0.0651	0.0202	21	0.67	311.99	0
311	Sodium (0.5%)	0553	1.113	0.0450	1.046	0.0651	0.0202	21	1.02	311.30	0
311	Sodium (0.5%)	0513	1.115	0.0100	1.046	0.0651	0.0202	21	1.06	311.99	0
311	Sodium (0.5%)	0231	1.135	0.0100	1.046	0.0651	0.0202	21	1.36	311.99	0
311	Sodium (0.5%)	0524	1.142	0.0231	1.046	0.0651	0.0202	21	1.47	311.99	0
311	Sodium (0.5%)	0452	1.155	0.0100	1.046	0.0651	0.0202	21	1.67	311.33	0
311	Sodium (0.5%)	0550	1.207‡	0.7670	1.046	0.0651	0.0202	21	2.46	311.00	1
321	Acid Soluble Zinc (0.01%)	0220	0.0224	0.0002	0.0278	0.0027	0.0019	38	-2.00	321.99	0
321	Acid Soluble Zinc (0.01%)	0540	0.0230	0.0040	0.0278	0.0027	0.0019	38	-1.78	321.00	0
321	Acid Soluble Zinc (0.01%)	0535	0.0245	0.0010	0.0278	0.0027	0.0019	38	-1.23	321.00	0
321	Acid Soluble Zinc (0.01%)	0354	0.0250	0.0100	0.0278	0.0027	0.0019	38	-1.05	321.30	0
321	Acid Soluble Zinc (0.01%)	0433	0.0250	0.0000	0.0278	0.0027	0.0019	38	-1.05	321.30	0
321	Acid Soluble Zinc (0.01%)	0389	0.0256	0.0003	0.0278	0.0027	0.0019	38	-0.84	321.99	0
321	Acid Soluble Zinc (0.01%)	0527	0.0257	0.0014	0.0278	0.0027	0.0019	38	-0.79	321.33	0
321	Acid Soluble Zinc (0.01%)	0368	0.0260	0.0003	0.0278	0.0027	0.0019	38	-0.70	321.99	0
321	Acid Soluble Zinc (0.01%)	0486	0.0260	0.0000	0.0278	0.0027	0.0019	38	-0.68	321.33	0
321	Acid Soluble Zinc (0.01%)	0533	0.0260	0.0020	0.0278	0.0027	0.0019	38	-0.68	321.00	0
321	Acid Soluble Zinc (0.01%)	0035	0.0260	0.0020	0.0278	0.0027	0.0019	38	-0.68	321.30	0
321	Acid Soluble Zinc (0.01%)	0027	0.0263	0.0038	0.0278	0.0027	0.0019	38	-0.57	321.99	0
321	Acid Soluble Zinc (0.01%)	0494	0.0265	0.0005	0.0278	0.0027	0.0019	38	-0.51	321.33	0
321	Acid Soluble Zinc (0.01%)	0360	0.0265	0.0010	0.0278	0.0027	0.0019	38	-0.49	321.30	0
321	Acid Soluble Zinc (0.01%)	0476	0.0267	0.0015	0.0278	0.0027	0.0019	38	-0.44	321.99	0
321	Acid Soluble Zinc (0.01%)	0117	0.0269	0.0009	0.0278	0.0027	0.0019	38	-0.37	321.33	0
321	Acid Soluble Zinc (0.01%)	0102	0.0270	0.0020	0.0278	0.0027	0.0019	38	-0.31	321.30	0
321	Acid Soluble Zinc (0.01%)	0114	0.0270	0.0020	0.0278	0.0027	0.0019	38	-0.31	321.30	0
321	Acid Soluble Zinc (0.01%)	0444	0.0270	0.0000	0.0278	0.0027	0.0019	38	-0.31	321.30	0
321	Acid Soluble Zinc (0.01%)	0096	0.0274	0.0012	0.0278	0.0027	0.0019	38	-0.16	321.30	0
321	Acid Soluble Zinc (0.01%)	0043	0.0275	0.0010	0.0278	0.0027	0.0019	38	-0.13	321.33	0
321	Acid Soluble Zinc (0.01%)	0452	0.0280	0.0000	0.0278	0.0027	0.0019	38	0.06	321.30	0
321	Acid Soluble Zinc (0.01%)	0524	0.0284	0.0001	0.0278	0.0027	0.0019	38	0.18	321.99	0
321	Acid Soluble Zinc (0.01%)	0550	0.0289	0.0017	0.0278	0.0027	0.0019	38	0.37	321.00	0
321	Acid Soluble Zinc (0.01%)	0255	0.0290	0.0020	0.0278	0.0027	0.0019	38	0.42	321.30	0
321	Acid Soluble Zinc (0.01%)	0037	0.0290	0.0020	0.0278	0.0027	0.0019	38	0.42	321.33	0
321	Acid Soluble Zinc (0.01%)	0523	0.0295	0.0010	0.0278	0.0027	0.0019	38	0.61	321.99	0
321	Acid Soluble Zinc (0.01%)	0231	0.0300	0.0000	0.0278	0.0027	0.0019	38	0.79	321.30	0
321	Acid Soluble Zinc (0.01%)	0234	0.0300	0.0000	0.0278	0.0027	0.0019	38	0.79	321.30	0
321	Acid Soluble Zinc (0.01%)	0472	0.0300	0.0000	0.0278	0.0027	0.0019	38	0.79	321.30	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				
321	Acid Soluble Zinc (0.01%)	0482	0.0300	0.0000	0.0278	0.0027	0.0019	38	0.79	321.30	0
321	Acid Soluble Zinc (0.01%)	0136	0.0300	0.0000	0.0278	0.0027	0.0019	38	0.79	321.33	0
321	Acid Soluble Zinc (0.01%)	0481	0.0300	0.0000	0.0278	0.0027	0.0019	38	0.79	321.99	0
321	Acid Soluble Zinc (0.01%)	0483	0.0333	0.0000	0.0278	0.0027	0.0019	38	2.00	321.30	0
321	Acid Soluble Zinc (0.01%)	0041	0.03800‡	0.0080	0.0278	0.0027	0.0019	38	3.73	321.30	0
321	Acid Soluble Zinc (0.01%)	0515	0.04560‡	0.0036	0.0278	0.0027	0.0019	38	6.51	321.33	0
321	Acid Soluble Zinc (0.01%)	0515	0.04575‡	0.0005	0.0278	0.0027	0.0019	38	6.57	321.99	0
321	Acid Soluble Zinc (0.01%)	0552	0.1300‡	0.0200	0.0278	0.0027	0.0019	38	37.49	321.30	0
321	Acid Soluble Zinc (0.01%)	0423	479.0‡	20.00	0.0278	0.0027	0.0019	38	175773.45	321.32	2
321	Acid Soluble Zinc (0.01%)	0516	0.00000†	0.0000	0.0278	0.0027	0.0019	38		321.00	4
325	Water Soluble Zinc (%)	0553	0.0259	0.0000	0.0273	0.0020	0.0001	5	-0.60	325.00	0
325	Water Soluble Zinc (%)	0117	0.0260	0.0001	0.0273	0.0020	0.0001	5	-0.58	325.30	0
325	Water Soluble Zinc (%)	0546	0.0260	0.0002	0.0273	0.0020	0.0001	5	-0.55	325.30	0
325	Water Soluble Zinc (%)	0444	0.0280	0.0000	0.0273	0.0020	0.0001	5	0.33	325.30	0
325	Water Soluble Zinc (%)	0550	0.0304	0.0002	0.0273	0.0020	0.0001	5	1.39	325.00	0
325	Water Soluble Zinc (%)	0027	0.0255	0.0010	0.0273	0.0020	0.0001	5	-0.77	325.00	1

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.