

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 151211

Grade 10-10-10

Statistical Summary

Analytes: 37

Labs Reporting: 88

Issue Date : 01/31/2016

Analyte Code	Analyte	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
001	Ammoniacal Nitrogen (%)	22	22	9.618	0.5972	9.806		0.1564	0.0236	1.59%		0.0641	2.84%
002	Nitrate Nitrogen (%)	2	2	0.4580	0.6180								
009	Ammoniacal Plus Nitrate Nitrogen (%)	3	3	9.810	0.2456	9.810		0.2456	0.1002	2.50%		0.0533	2.84%
010	Total Nitrogen (10%)	79	78	9.957	0.1501	9.959	0.5796	0.1363	0.0109	1.37%	2.91%	0.0818	2.83%
020	Total Phosphorus as P2O5 (%)	45	42	10.01	0.2716	9.994		0.1836	0.0200	1.84%		0.1070	2.83%
030	Citrate Insoluble Phosphorus as P2O5 (%)	2	2	0.0825	0.0035								
040	Indirect Available Phosphorus as P2O5 (10%)	2	2	9.905	0.0283								
041	Direct Available Phosphorus as P2O5 (10%)	46	46	9.808	0.3069	9.800	0.6880	0.2438	0.0254	2.49%	3.51%	0.0988	2.84%
048	Water Soluble Phosphorus as P2O5 (%)	7	7	8.458	0.7384	8.210		0.1184	0.0316	1.44%		0.0543	2.91%
050	Soluble Potassium as K2O (10%)	83	80	10.29	0.4516	10.27	0.7122	0.3789	0.0300	3.69%	3.47%	0.1244	2.82%
060	Water (Free) (%)	7	7	0.5928	0.3224	0.5928		0.3656	0.0977	61.67%		0.0299	4.33%
101	Acid Soluble Calcium (%)	18	17	7.001	0.4385	7.031		0.4144	0.0711	5.89%		0.1388	2.98%
121	Acid Soluble Magnesium (1.2%)	59	56	1.078	0.1533	1.063	0.2532	0.0848	0.0080	7.98%	11.90%	0.0293	3.96%
131	Water Soluble Magnesium (%)	14	14	0.9622	0.1507	0.9500		0.1395	0.0264	14.69%		0.0490	4.03%
143	Elemental Sulfur (%)	9	5	1.280	0.3060	1.280		0.3060	0.0968	23.90%		0.1676	3.85%
145	Sulfate Sulfur, HCl soluble (%)	9	9	11.46	0.6588	11.33		0.2066	0.0487	1.82%		0.0915	2.78%
147	Total Sulfur in Urea/Formulations (%)	1		12.25									
148	Total Sulfur (10%)	43	42	11.93	1.088	12.00	0.7999	1.083	0.1182	9.03%	3.33%	0.2148	2.75%
149	Sulfur - HNO3 soluble (%)	3	3	11.37	1.260	11.37		1.260	0.5142	11.08%		0.1464	2.77%
151	Acid Soluble Arsenic (ppm)	11	10	2.733	1.224	2.747		0.9664	0.2161	35.18%		0.4458	13.74%
165	Acid Soluble Boron (0.06%)	32	31	0.0314	0.0084	0.0301	0.0075	0.0041	0.0005	13.59%	12.49%	0.0017	6.78%
171	Water Soluble Boron (%)	2	2	0.0273	0.0025								
181	Acid Soluble Cadmium (ppm)	18	16	1.352	0.4559	1.268		0.2147	0.0380	16.94%		0.1742	15.44%
191	Acid Soluble Chromium (ppm)	18	17	28.50	3.929	28.61		4.204	0.7210	14.69%		1.271	9.66%
202	Acid Soluble Cobalt (ppm)	17	15	2.752	0.8543	2.671		0.8015	0.1463	30.01%		0.4806	13.80%
221	Acid Soluble Copper (0.05%)	51	50	0.0524	0.0641	0.0442	0.0094	0.0041	0.0004	9.36%	10.65%	0.0029	6.40%
241	Acid Soluble Iron (0.8%)	50	49	0.4998	0.0662	0.5008	0.0551	0.0446	0.0045	8.90%	5.50%	0.0155	4.44%
251	Acid Soluble Lead (ppm)	21	21	264.1	35.47	265.0		38.27	5.905	14.44%		8.133	6.91%
261	Acid Soluble Manganese (0.25%)	53	52	0.0814	0.0162	0.0807	0.0131	0.0091	0.0009	11.26%	8.10%	0.0038	5.84%
271	Water Soluble Manganese (%)	6	6	0.0425	0.0356	0.0217		0.0032	0.0009	14.58%		0.0006	7.12%
281	Acid Soluble Mercury (ppm)	2	2	110.5	2.815								

Analyte Code	Analyte	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	IA %RSD	Average Range (R-bar)	Horwitz %RSD
289	Acid Soluble Molybdenum (30ppm)	20	19	327.9	132.3	350.7	106.1993	50.75	8.232	14.47%	15.14%	8.994	6.62%
291	Acid Soluble Nickel (ppm)	20	20	146.4	39.06	153.1		25.22	3.988	16.48%		7.281	7.50%
301	Acid Soluble Selenium (ppm)	5	2	0.5575	0.4632	0.5575		0.4632	0.2316	83.08%		0.1150	17.47%
311	Sodium (%)	10	10	0.2882	0.1043	0.2999		0.0292	0.0065	9.74%		0.0075	4.79%
321	Acid Soluble Zinc (0.5%)	58	57	0.5855	0.0624	0.5827	0.0633	0.0521	0.0049	8.94%	5.43%	0.0383	4.34%
325	Water Soluble Zinc (%)	7	7	0.2330	0.1137	0.2330		0.1290	0.0345	55.34%		0.0153	4.98%

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Analytes: 37

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Lab Values

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Issue Date : 01/31/2016

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 (%)	0501	7.640	0.1000	9.806	0.1564	0.0641	22	-13.85	001.99	0
001	Ammoniacal Nitrogen (%)	0230	8.235	0.0700	9.806	0.1564	0.0641	22	-10.05	001.10	0
001	Ammoniacal Nitrogen (%)	0368	9.105	0.0300	9.806	0.1564	0.0641	22	-4.48	001.99	0
001	Ammoniacal Nitrogen (%)	0397	9.221	0.1557	9.806	0.1564	0.0641	22	-3.74	001.99	0
001	Ammoniacal Nitrogen (%)	0513	9.640	0.0600	9.806	0.1564	0.0641	22	-1.06	001.99	0
001	Ammoniacal Nitrogen (%)	0177	9.693	0.0017	9.806	0.1564	0.0641	22	-0.73	001.10	0
001	Ammoniacal Nitrogen (%)	0394	9.747	0.0230	9.806	0.1564	0.0641	22	-0.38	001.99	0
001	Ammoniacal Nitrogen (%)	0420	9.755	0.1300	9.806	0.1564	0.0641	22	-0.33	001.99	0
001	Ammoniacal Nitrogen (%)	0508	9.780	0.0600	9.806	0.1564	0.0641	22	-0.17	001.99	0
001	Ammoniacal Nitrogen (%)	0510	9.810	0.0200	9.806	0.1564	0.0641	22	0.03	001.99	0
001	Ammoniacal Nitrogen (%)	0500	9.820	0.0000	9.806	0.1564	0.0641	22	0.09	001.10	0
001	Ammoniacal Nitrogen (%)	0027	9.820	0.1000	9.806	0.1564	0.0641	22	0.09	001.99	0
001	Ammoniacal Nitrogen (%)	0371	9.830	0.2200	9.806	0.1564	0.0641	22	0.15	001.99	0
001	Ammoniacal Nitrogen (%)	0169	9.835	0.0300	9.806	0.1564	0.0641	22	0.19	001.10	0
001	Ammoniacal Nitrogen (%)	0220	9.890	0.1200	9.806	0.1564	0.0641	22	0.54	001.99	0
001	Ammoniacal Nitrogen (%)	0444	9.910	0.1000	9.806	0.1564	0.0641	22	0.67	001.10	0
001	Ammoniacal Nitrogen (%)	0481	9.915	0.0100	9.806	0.1564	0.0641	22	0.70	001.10	0
001	Ammoniacal Nitrogen (%)	0096	9.920	0.0400	9.806	0.1564	0.0641	22	0.73	001.99	0
001	Ammoniacal Nitrogen (%)	0405	9.930	0.0200	9.806	0.1564	0.0641	22	0.79	001.99	0
001	Ammoniacal Nitrogen (%)	0200	9.950	0.0200	9.806	0.1564	0.0641	22	0.92	001.99	0
001	Ammoniacal Nitrogen (%)	0506	10.05	0.1000	9.806	0.1564	0.0641	22	1.56	001.99	0
001	Ammoniacal Nitrogen (%)	0498	10.10	0.0000	9.806	0.1564	0.0641	22	1.88	001.10	0
002	Nitrate Nitrogen (%)	0394	0.0210	0.0060	0.4580	0.6180	0.0480	2	-0.71	002.99	0
002	Nitrate Nitrogen (%)	0501	0.8950	0.0900	0.4580	0.6180	0.0480	2	0.71	002.99	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0309	9.600	0.0800	9.810	0.2456	0.0533	3	-0.86	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0090	9.750	0.0200	9.810	0.2456	0.0533	3	-0.24	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0513	10.08	0.0600	9.810	0.2456	0.0533	3	1.10	009.99	0
010	Total Nitrogen (10%)	0275	9.600	0.1600	9.959	0.1363	0.0818	78	-2.63	010.60	0
010	Total Nitrogen (10%)	0137	9.635	0.0300	9.959	0.1363	0.0818	78	-2.38	010.11	0
010	Total Nitrogen (10%)	0472	9.657	0.0100	9.959	0.1363	0.0818	78	-2.21	010.60	0
010	Total Nitrogen (10%)	0007	9.700	0.0000	9.959	0.1363	0.0818	78	-1.90	010.60	0
010	Total Nitrogen (10%)	0487	9.700	0.0000	9.959	0.1363	0.0818	78	-1.90	010.99	0
010	Total Nitrogen (10%)	0037	9.745	0.3500	9.959	0.1363	0.0818	78	-1.57	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 (10%)	0211	9.750	0.1000	9.959	0.1363	0.0818	78	-1.53	010.11	0
010	Total Nitrogen (10%)	0371	9.760	0.3200	9.959	0.1363	0.0818	78	-1.46	010.11	0
010	Total Nitrogen (10%)	0416	9.780	0.0000	9.959	0.1363	0.0818	78	-1.31	010.11	0
010	Total Nitrogen (10%)	0035	9.780	0.0800	9.959	0.1363	0.0818	78	-1.31	010.60	0
010	Total Nitrogen (10%)	0309	9.795	0.1500	9.959	0.1363	0.0818	78	-1.20	010.11	0
010	Total Nitrogen (10%)	0354	9.803	0.0030	9.959	0.1363	0.0818	78	-1.15	010.60	0
010	Total Nitrogen (10%)	0423	9.805	0.0900	9.959	0.1363	0.0818	78	-1.13	010.60	0
010	Total Nitrogen (10%)	0422	9.816	0.1020	9.959	0.1363	0.0818	78	-1.05	010.60	0
010	Total Nitrogen (10%)	0114	9.820	0.0000	9.959	0.1363	0.0818	78	-1.02	010.11	0
010	Total Nitrogen (10%)	0095	9.820	0.0200	9.959	0.1363	0.0818	78	-1.02	010.60	0
010	Total Nitrogen (10%)	0368	9.829	0.0024	9.959	0.1363	0.0818	78	-0.95	010.60	0
010	Total Nitrogen (10%)	0485	9.834	0.0780	9.959	0.1363	0.0818	78	-0.92	010.60	0
010	Total Nitrogen (10%)	0025	9.849	0.0430	9.959	0.1363	0.0818	78	-0.81	010.60	0
010	Total Nitrogen (10%)	0162	9.864	0.0720	9.959	0.1363	0.0818	78	-0.69	010.60	0
010	Total Nitrogen (10%)	0105	9.870	0.0200	9.959	0.1363	0.0818	78	-0.65	010.11	0
010	Total Nitrogen (10%)	0105	9.875	0.0100	9.959	0.1363	0.0818	78	-0.61	010.60	0
010	Total Nitrogen (10%)	0220	9.880	0.0400	9.959	0.1363	0.0818	78	-0.58	010.11	0
010	Total Nitrogen (10%)	0481	9.890	0.0600	9.959	0.1363	0.0818	78	-0.50	010.12	0
010	Total Nitrogen (10%)	0356	9.895	0.0700	9.959	0.1363	0.0818	78	-0.47	010.60	0
010	Total Nitrogen (10%)	0377	9.900	0.1000	9.959	0.1363	0.0818	78	-0.43	010.60	0
010	Total Nitrogen (10%)	0049	9.900	0.0000	9.959	0.1363	0.0818	78	-0.43	010.60	0
010	Total Nitrogen (10%)	0023	9.904	0.0804	9.959	0.1363	0.0818	78	-0.40	010.60	0
010	Total Nitrogen (10%)	0043	9.915	0.0900	9.959	0.1363	0.0818	78	-0.32	010.60	0
010	Total Nitrogen (10%)	0406	9.915	0.2100	9.959	0.1363	0.0818	78	-0.32	010.60	0
010	Total Nitrogen (10%)	0481	9.920	0.0600	9.959	0.1363	0.0818	78	-0.28	010.60	0
010	Total Nitrogen (10%)	0157	9.925	0.0900	9.959	0.1363	0.0818	78	-0.25	010.60	0
010	Total Nitrogen (10%)	0231	9.935	0.0100	9.959	0.1363	0.0818	78	-0.17	010.60	0
010	Total Nitrogen (10%)	0324	9.935	0.1300	9.959	0.1363	0.0818	78	-0.17	010.60	0
010	Total Nitrogen (10%)	0117	9.940	0.1000	9.959	0.1363	0.0818	78	-0.14	010.12	0
010	Total Nitrogen (10%)	0291	9.945	0.0100	9.959	0.1363	0.0818	78	-0.10	010.60	0
010	Total Nitrogen (10%)	0405	9.955	0.0100	9.959	0.1363	0.0818	78	-0.03	010.60	0
010	Total Nitrogen (10%)	0131	9.961	0.0051	9.959	0.1363	0.0818	78	0.01	010.60	0
010	Total Nitrogen (10%)	0260	9.965	0.0500	9.959	0.1363	0.0818	78	0.05	010.60	0
010	Total Nitrogen (10%)	0096	9.970	0.1200	9.959	0.1363	0.0818	78	0.08	010.60	0
010	Total Nitrogen (10%)	0394	9.980	0.0600	9.959	0.1363	0.0818	78	0.16	010.60	0
010	Total Nitrogen (10%)	0028	9.988	0.0160	9.959	0.1363	0.0818	78	0.22	010.60	0
010	Total Nitrogen (10%)	0233	9.989	0.1630	9.959	0.1363	0.0818	78	0.22	010.60	0
010	Total Nitrogen (10%)	0501	9.990	0.0200	9.959	0.1363	0.0818	78	0.23	010.60	0
010	Total Nitrogen (10%)	0234	9.995	0.0900	9.959	0.1363	0.0818	78	0.27	010.60	0
010	Total Nitrogen (10%)	0394	9.995	0.2500	9.959	0.1363	0.0818	78	0.27	010.99	0
010	Total Nitrogen (10%)	0457	9.995	0.2100	9.959	0.1363	0.0818	78	0.27	010.60	0
010	Total Nitrogen (10%)	0042	10.00	0.0000	9.959	0.1363	0.0818	78	0.30	010.60	0
010	Total Nitrogen (10%)	0482	10.00	0.0000	9.959	0.1363	0.0818	78	0.30	010.60	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (10%)	0451	10.00	0.1950	9.959	0.1363	0.0818	78	0.32	010.60	0
010	Total Nitrogen (10%)	0136	10.01	0.0900	9.959	0.1363	0.0818	78	0.34	010.60	0
010	Total Nitrogen (10%)	0177	10.02	0.0200	9.959	0.1363	0.0818	78	0.45	010.60	0
010	Total Nitrogen (10%)	0486	10.02	0.0200	9.959	0.1363	0.0818	78	0.45	010.60	0
010	Total Nitrogen (10%)	0483	10.03	0.0100	9.959	0.1363	0.0818	78	0.49	010.60	0
010	Total Nitrogen (10%)	0421	10.03	0.0500	9.959	0.1363	0.0818	78	0.49	010.60	0
010	Total Nitrogen (10%)	0072	10.03	0.0200	9.959	0.1363	0.0818	78	0.52	010.60	0
010	Total Nitrogen (10%)	0510	10.03	0.0600	9.959	0.1363	0.0818	78	0.52	010.11	0
010	Total Nitrogen (10%)	0494	10.04	0.0840	9.959	0.1363	0.0818	78	0.58	010.60	0
010	Total Nitrogen (10%)	0292	10.05	0.0100	9.959	0.1363	0.0818	78	0.63	010.60	0
010	Total Nitrogen (10%)	0325	10.05	0.1000	9.959	0.1363	0.0818	78	0.67	010.60	0
010	Total Nitrogen (10%)	0452	10.05	0.0600	9.959	0.1363	0.0818	78	0.67	010.60	0
010	Total Nitrogen (10%)	0506	10.05	0.1000	9.959	0.1363	0.0818	78	0.67	010.99	0
010	Total Nitrogen (10%)	0102	10.06	0.2300	9.959	0.1363	0.0818	78	0.71	010.60	0
010	Total Nitrogen (10%)	0402	10.08	0.0400	9.959	0.1363	0.0818	78	0.89	010.60	0
010	Total Nitrogen (10%)	0307	10.09	0.0730	9.959	0.1363	0.0818	78	0.97	010.60	0
010	Total Nitrogen (10%)	0498	10.10	0.0000	9.959	0.1363	0.0818	78	1.04	010.12	0
010	Total Nitrogen (10%)	0117	10.10	0.0000	9.959	0.1363	0.0818	78	1.04	010.60	0
010	Total Nitrogen (10%)	0360	10.12	0.0900	9.959	0.1363	0.0818	78	1.15	010.60	0
010	Total Nitrogen (10%)	0029	10.12	0.3600	9.959	0.1363	0.0818	78	1.18	010.60	0
010	Total Nitrogen (10%)	0034	10.15	0.0700	9.959	0.1363	0.0818	78	1.37	010.60	0
010	Total Nitrogen (10%)	0055	10.15	0.0100	9.959	0.1363	0.0818	78	1.37	010.60	0
010	Total Nitrogen (10%)	0040	10.15	0.3000	9.959	0.1363	0.0818	78	1.40	010.60	0
010	Total Nitrogen (10%)	0444	10.18	0.1700	9.959	0.1363	0.0818	78	1.59	010.60	0
010	Total Nitrogen (10%)	0389	10.19	0.1000	9.959	0.1363	0.0818	78	1.70	010.60	0
010	Total Nitrogen (10%)	0420	10.23	0.2800	9.959	0.1363	0.0818	78	1.99	010.99	0
010	Total Nitrogen (10%)	0073	10.26	0.0500	9.959	0.1363	0.0818	78	2.17	010.60	0
010	Total Nitrogen (10%)	0230	10.30	0.0000	9.959	0.1363	0.0818	78	2.50	010.60	0
010	Total Nitrogen (10%)	0443	10.35	0.1000	9.959	0.1363	0.0818	78	2.87	010.60	0
010	Total Nitrogen (10%)	0086	9.864	0.5060	9.959	0.1363	0.0818	78	-0.69	010.60	1
020	Total Phosphorus as P2O5 (%)	0027	9.412	0.0940	9.994	0.1836	0.1070	42	-3.17	020.20	0
020	Total Phosphorus as P2O5 (%)	0482	9.585	0.0300	9.994	0.1836	0.1070	42	-2.23	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	9.600	0.0800	9.994	0.1836	0.1070	42	-2.15	020.50	0
020	Total Phosphorus as P2O5 (%)	0444	9.695	0.0700	9.994	0.1836	0.1070	42	-1.63	020.50	0
020	Total Phosphorus as P2O5 (%)	0457	9.720	0.2400	9.994	0.1836	0.1070	42	-1.49	020.20	0
020	Total Phosphorus as P2O5 (%)	0428	9.782	0.0544	9.994	0.1836	0.1070	42	-1.16	020.20	0
020	Total Phosphorus as P2O5 (%)	0500	9.810	0.0200	9.994	0.1836	0.1070	42	-1.00	020.10	0
020	Total Phosphorus as P2O5 (%)	0356	9.815	0.2900	9.994	0.1836	0.1070	42	-0.97	020.20	0
020	Total Phosphorus as P2O5 (%)	0389	9.870	0.0800	9.994	0.1836	0.1070	42	-0.68	020.50	0
020	Total Phosphorus as P2O5 (%)	0487	9.870	0.0400	9.994	0.1836	0.1070	42	-0.68	020.99	0
020	Total Phosphorus as P2O5 (%)	0513	9.880	0.0400	9.994	0.1836	0.1070	42	-0.62	020.10	0
020	Total Phosphorus as P2O5 (%)	0035	9.880	0.0200	9.994	0.1836	0.1070	42	-0.62	020.40	0
020	Total Phosphorus as P2O5 (%)	0292	9.925	0.0100	9.994	0.1836	0.1070	42	-0.38	020.20	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 (%)	0291	9.935	0.0100	9.994	0.1836	0.1070	42	-0.32	020.50	0
020	Total Phosphorus as P2O5 (%)	0513	9.940	0.0400	9.994	0.1836	0.1070	42	-0.29	020.99	0
020	Total Phosphorus as P2O5 (%)	0368	9.941	0.0188	9.994	0.1836	0.1070	42	-0.29	020.50	0
020	Total Phosphorus as P2O5 (%)	0231	9.950	0.0400	9.994	0.1836	0.1070	42	-0.24	020.20	0
020	Total Phosphorus as P2O5 (%)	0042	9.950	0.5000	9.994	0.1836	0.1070	42	-0.24	020.40	0
020	Total Phosphorus as P2O5 (%)	0371	9.960	0.0800	9.994	0.1836	0.1070	42	-0.18	020.20	0
020	Total Phosphorus as P2O5 (%)	0309	9.965	0.0300	9.994	0.1836	0.1070	42	-0.16	020.20	0
020	Total Phosphorus as P2O5 (%)	0096	9.965	0.1300	9.994	0.1836	0.1070	42	-0.16	020.40	0
020	Total Phosphorus as P2O5 (%)	0234	10.01	0.1900	9.994	0.1836	0.1070	42	0.06	020.50	0
020	Total Phosphorus as P2O5 (%)	0157	10.04	0.1300	9.994	0.1836	0.1070	42	0.22	020.50	0
020	Total Phosphorus as P2O5 (%)	0444	10.04	0.0200	9.994	0.1836	0.1070	42	0.25	020.10	0
020	Total Phosphorus as P2O5 (%)	0420	10.04	0.1800	9.994	0.1836	0.1070	42	0.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0157	10.05	0.1000	9.994	0.1836	0.1070	42	0.31	020.10	0
020	Total Phosphorus as P2O5 (%)	0510	10.05	0.1200	9.994	0.1836	0.1070	42	0.31	020.20	0
020	Total Phosphorus as P2O5 (%)	0211	10.06	0.0100	9.994	0.1836	0.1070	42	0.33	020.10	0
020	Total Phosphorus as P2O5 (%)	0090	10.07	0.0200	9.994	0.1836	0.1070	42	0.41	020.10	0
020	Total Phosphorus as P2O5 (%)	0394	10.11	0.0480	9.994	0.1836	0.1070	42	0.62	020.20	0
020	Total Phosphorus as P2O5 (%)	0481	10.12	0.0300	9.994	0.1836	0.1070	42	0.66	020.20	0
020	Total Phosphorus as P2O5 (%)	0443	10.12	0.0400	9.994	0.1836	0.1070	42	0.69	020.99	0
020	Total Phosphorus as P2O5 (%)	0402	10.13	0.2700	9.994	0.1836	0.1070	42	0.71	020.50	0
020	Total Phosphorus as P2O5 (%)	0406	10.14	0.0400	9.994	0.1836	0.1070	42	0.80	020.20	0
020	Total Phosphorus as P2O5 (%)	0416	10.17	0.0000	9.994	0.1836	0.1070	42	0.96	020.20	0
020	Total Phosphorus as P2O5 (%)	0405	10.19	0.1000	9.994	0.1836	0.1070	42	1.07	020.20	0
020	Total Phosphorus as P2O5 (%)	0169	10.20	0.0300	9.994	0.1836	0.1070	42	1.09	020.20	0
020	Total Phosphorus as P2O5 (%)	0324	10.20	0.2000	9.994	0.1836	0.1070	42	1.12	020.20	0
020	Total Phosphorus as P2O5 (%)	0423	10.25	0.0400	9.994	0.1836	0.1070	42	1.39	020.50	0
020	Total Phosphorus as P2O5 (%)	0506	10.35	0.5000	9.994	0.1836	0.1070	42	1.94	020.20	0
020	Total Phosphorus as P2O5 (%)	0451	10.61	0.3700	9.994	0.1836	0.1070	42	3.33	020.50	0
020	Total Phosphorus as P2O5 (%)	0483	11.09	0.1400	9.994	0.1836	0.1070	42	5.97	020.50	0
020	Total Phosphorus as P2O5 (%)	0307	9.167	0.9190	9.994	0.1836	0.1070	42	-4.51	020.50	1
020	Total Phosphorus as P2O5 (%)	0422	11.12	0.7600	9.994	0.1836	0.1070	42	6.13	020.50	1
020	Total Phosphorus as P2O5 (%)	0260	19.30	0.4000	9.994	0.1836	0.1070	42	50.68	020.50	2
030	Citrate Insoluble Phosphorus as P2O5 (%)	0405	0.0800	0.0000	0.0825	0.0035	0.0250	2	-0.71	030.20	0
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	0.0850	0.0500	0.0825	0.0035	0.0250	2	0.71	030.40	0
040	Indirect Available Phosphorus as P2O5 (10%)	0096	9.885	0.0900	9.905	0.0283	0.1800	2	-0.71	040.40	0
040	Indirect Available Phosphorus as P2O5 (10%)	0072	9.925	0.2700	9.905	0.0283	0.1800	2	0.71	040.50	0
041	Direct Available Phosphorus as P2O5 (10%)	0137	9.017*	0.0480	9.800	0.2438	0.0988	46	-3.21	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0397	9.367	0.1758	9.800	0.2438	0.0988	46	-1.78	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0368	9.371	0.3437	9.800	0.2438	0.0988	46	-1.76	041.50	0
041	Direct Available Phosphorus as P2O5 (10%)	0027	9.384	0.2920	9.800	0.2438	0.0988	46	-1.71	041.20	0
041	Direct Available Phosphorus as P2O5 (10%)	0325	9.400	0.4000	9.800	0.2438	0.0988	46	-1.64	041.50	0
041	Direct Available Phosphorus as P2O5 (10%)	0486	9.475	0.0100	9.800	0.2438	0.0988	46	-1.33	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0095	9.485	0.1100	9.800	0.2438	0.0988	46	-1.29	041.40	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				
041	Direct Available Phosphorus as P2O5 (10%)	0073	9.495	0.1100	9.800	0.2438	0.0988	46	-1.25	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0007	9.550	0.1000	9.800	0.2438	0.0988	46	-1.03	041.50	0
041	Direct Available Phosphorus as P2O5 (10%)	0423	9.610	0.0400	9.800	0.2438	0.0988	46	-0.78	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0513	9.610	0.0200	9.800	0.2438	0.0988	46	-0.78	041.99	0
041	Direct Available Phosphorus as P2O5 (10%)	0230	9.665	0.1300	9.800	0.2438	0.0988	46	-0.55	041.99	0
041	Direct Available Phosphorus as P2O5 (10%)	0513	9.685	0.0500	9.800	0.2438	0.0988	46	-0.47	041.11	0
041	Direct Available Phosphorus as P2O5 (10%)	0472	9.685	0.1100	9.800	0.2438	0.0988	46	-0.47	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0177	9.693	0.0279	9.800	0.2438	0.0988	46	-0.44	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0102	9.700	0.0000	9.800	0.2438	0.0988	46	-0.41	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0029	9.705	0.0500	9.800	0.2438	0.0988	46	-0.39	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0043	9.715	0.0300	9.800	0.2438	0.0988	46	-0.35	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0037	9.725	0.0300	9.800	0.2438	0.0988	46	-0.31	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0034	9.735	0.0520	9.800	0.2438	0.0988	46	-0.27	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0220	9.740	0.1200	9.800	0.2438	0.0988	46	-0.25	041.31	0
041	Direct Available Phosphorus as P2O5 (10%)	0485	9.770	0.0200	9.800	0.2438	0.0988	46	-0.12	041.11	0
041	Direct Available Phosphorus as P2O5 (10%)	0023	9.810	0.0200	9.800	0.2438	0.0988	46	0.04	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0377	9.825	0.0500	9.800	0.2438	0.0988	46	0.10	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0072	9.830	0.1000	9.800	0.2438	0.0988	46	0.12	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0177	9.832	0.0091	9.800	0.2438	0.0988	46	0.13	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0506	9.855	0.0900	9.800	0.2438	0.0988	46	0.23	041.99	0
041	Direct Available Phosphorus as P2O5 (10%)	0055	9.860	0.1800	9.800	0.2438	0.0988	46	0.25	041.11	0
041	Direct Available Phosphorus as P2O5 (10%)	0200	9.860	0.0200	9.800	0.2438	0.0988	46	0.25	041.21	0
041	Direct Available Phosphorus as P2O5 (10%)	0105	9.875	0.3700	9.800	0.2438	0.0988	46	0.31	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0105	9.890	0.2600	9.800	0.2438	0.0988	46	0.37	041.99	0
041	Direct Available Phosphorus as P2O5 (10%)	0498	9.900	0.0000	9.800	0.2438	0.0988	46	0.41	041.20	0
041	Direct Available Phosphorus as P2O5 (10%)	0086	9.903	0.0363	9.800	0.2438	0.0988	46	0.42	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0040	9.950	0.1000	9.800	0.2438	0.0988	46	0.61	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0136	9.965	0.0500	9.800	0.2438	0.0988	46	0.68	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0025	9.981	0.0490	9.800	0.2438	0.0988	46	0.74	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0354	10.02	0.1490	9.800	0.2438	0.0988	46	0.88	041.60	0
041	Direct Available Phosphorus as P2O5 (10%)	0105	10.03	0.0400	9.800	0.2438	0.0988	46	0.94	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0055	10.06	0.0700	9.800	0.2438	0.0988	46	1.05	041.21	0
041	Direct Available Phosphorus as P2O5 (10%)	0049	10.07	0.0300	9.800	0.2438	0.0988	46	1.09	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0494	10.10	0.2100	9.800	0.2438	0.0988	46	1.21	041.10	0
041	Direct Available Phosphorus as P2O5 (10%)	0360	10.14	0.0500	9.800	0.2438	0.0988	46	1.37	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0131	10.34	0.0300	9.800	0.2438	0.0988	46	2.19	041.40	0
041	Direct Available Phosphorus as P2O5 (10%)	0452	10.34	0.0700	9.800	0.2438	0.0988	46	2.19	041.50	0
041	Direct Available Phosphorus as P2O5 (10%)	0421	10.46	0.0500	9.800	0.2438	0.0988	46	2.69	041.51	0
041	Direct Available Phosphorus as P2O5 (10%)	0231	10.71	0.2400	9.800	0.2438	0.0988	46	3.73	041.60	0
048	Water Soluble Phosphorus as P2O5 (%)	0513	8.100	0.0400	8.210	0.1184	0.0543	7	-0.93	048.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0096	8.100	0.0800	8.210	0.1184	0.0543	7	-0.93	048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0394	8.140	0.1100	8.210	0.1184	0.0543	7	-0.59	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0513	8.230	0.0600	8.210	0.1184	0.0543	7	0.17	048.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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048	Water Soluble Phosphorus as P2O5 (%)	0444	8.240	0.0200	8.210	0.1184	0.0543	7	0.26	048.50	0
048	Water Soluble Phosphorus as P2O5 (%)	0420	8.270	0.0600	8.210	0.1184	0.0543	7	0.51	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0501	10.13	0.0100	8.210	0.1184	0.0543	7	16.18	048.50	0
050	Soluble Potassium as K2O (10%)	0220	9.410*	0.0400	10.27	0.3789	0.1244	80	-2.27	050.00	0
050	Soluble Potassium as K2O (10%)	0501	9.410*	0.1000	10.27	0.3789	0.1244	80	-2.27	050.99	0
050	Soluble Potassium as K2O (10%)	0402	9.425*	0.0100	10.27	0.3789	0.1244	80	-2.23	050.50	0
050	Soluble Potassium as K2O (10%)	0422	9.480*	0.4000	10.27	0.3789	0.1244	80	-2.09	050.99	0
050	Soluble Potassium as K2O (10%)	0486	9.560	0.1000	10.27	0.3789	0.1244	80	-1.88	050.52	0
050	Soluble Potassium as K2O (10%)	0485	9.605	0.3500	10.27	0.3789	0.1244	80	-1.76	050.52	0
050	Soluble Potassium as K2O (10%)	0513	9.710	0.0800	10.27	0.3789	0.1244	80	-1.48	050.99	0
050	Soluble Potassium as K2O (10%)	0096	9.715	0.0900	10.27	0.3789	0.1244	80	-1.47	050.99	0
050	Soluble Potassium as K2O (10%)	0027	9.732	0.1500	10.27	0.3789	0.1244	80	-1.42	050.99	0
050	Soluble Potassium as K2O (10%)	0510	9.770	0.0800	10.27	0.3789	0.1244	80	-1.32	050.60	0
050	Soluble Potassium as K2O (10%)	0500	9.800	0.0200	10.27	0.3789	0.1244	80	-1.24	050.99	0
050	Soluble Potassium as K2O (10%)	0482	9.810	0.0400	10.27	0.3789	0.1244	80	-1.22	050.99	0
050	Soluble Potassium as K2O (10%)	0481	9.855	0.0900	10.27	0.3789	0.1244	80	-1.10	050.99	0
050	Soluble Potassium as K2O (10%)	0136	9.890	0.0600	10.27	0.3789	0.1244	80	-1.01	050.30	0
050	Soluble Potassium as K2O (10%)	0043	9.900	0.1800	10.27	0.3789	0.1244	80	-0.98	050.99	0
050	Soluble Potassium as K2O (10%)	0444	9.925	0.0100	10.27	0.3789	0.1244	80	-0.91	050.50	0
050	Soluble Potassium as K2O (10%)	0472	9.935	0.1100	10.27	0.3789	0.1244	80	-0.89	050.31	0
050	Soluble Potassium as K2O (10%)	0055	9.965	0.0100	10.27	0.3789	0.1244	80	-0.81	050.50	0
050	Soluble Potassium as K2O (10%)	0200	9.965	0.0100	10.27	0.3789	0.1244	80	-0.81	050.60	0
050	Soluble Potassium as K2O (10%)	0157	9.995	0.0100	10.27	0.3789	0.1244	80	-0.73	050.30	0
050	Soluble Potassium as K2O (10%)	0394	10.00	0.0390	10.27	0.3789	0.1244	80	-0.71	050.99	0
050	Soluble Potassium as K2O (10%)	0356	10.04	0.2400	10.27	0.3789	0.1244	80	-0.61	050.30	0
050	Soluble Potassium as K2O (10%)	0095	10.05	0.2400	10.27	0.3789	0.1244	80	-0.58	050.62	0
050	Soluble Potassium as K2O (10%)	0042	10.05	0.1000	10.27	0.3789	0.1244	80	-0.58	050.99	0
050	Soluble Potassium as K2O (10%)	0325	10.05	0.1000	10.27	0.3789	0.1244	80	-0.58	050.99	0
050	Soluble Potassium as K2O (10%)	0072	10.07	0.0100	10.27	0.3789	0.1244	80	-0.54	050.00	0
050	Soluble Potassium as K2O (10%)	0292	10.13	0.0400	10.27	0.3789	0.1244	80	-0.37	050.50	0
050	Soluble Potassium as K2O (10%)	0444	10.18	0.1700	10.27	0.3789	0.1244	80	-0.25	050.99	0
050	Soluble Potassium as K2O (10%)	0307	10.19	0.5930	10.27	0.3789	0.1244	80	-0.20	050.99	0
050	Soluble Potassium as K2O (10%)	0211	10.20	0.1000	10.27	0.3789	0.1244	80	-0.19	050.00	0
050	Soluble Potassium as K2O (10%)	0034	10.20	0.0720	10.27	0.3789	0.1244	80	-0.18	050.62	0
050	Soluble Potassium as K2O (10%)	0309	10.21	0.0600	10.27	0.3789	0.1244	80	-0.16	050.60	0
050	Soluble Potassium as K2O (10%)	0035	10.21	0.2200	10.27	0.3789	0.1244	80	-0.16	050.61	0
050	Soluble Potassium as K2O (10%)	0506	10.22	0.5600	10.27	0.3789	0.1244	80	-0.13	050.99	0
050	Soluble Potassium as K2O (10%)	0457	10.23	0.0400	10.27	0.3789	0.1244	80	-0.11	050.99	0
050	Soluble Potassium as K2O (10%)	0137	10.24	0.0600	10.27	0.3789	0.1244	80	-0.08	050.52	0
050	Soluble Potassium as K2O (10%)	0114	10.25	0.1200	10.27	0.3789	0.1244	80	-0.06	050.00	0
050	Soluble Potassium as K2O (10%)	0231	10.27	0.1000	10.27	0.3789	0.1244	80	0.00	050.00	0
050	Soluble Potassium as K2O (10%)	0037	10.30	0.0100	10.27	0.3789	0.1244	80	0.06	050.62	0
050	Soluble Potassium as K2O (10%)	0102	10.30	0.0000	10.27	0.3789	0.1244	80	0.08	050.00	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 Potassium as K2O (10%)	0494	10.31	0.1900	10.27	0.3789	0.1244	80	0.09	050.00	0
050	Soluble Potassium as K2O (10%)	0405	10.32	0.1100	10.27	0.3789	0.1244	80	0.12	050.00	0
050	Soluble Potassium as K2O (10%)	0169	10.32	0.0200	10.27	0.3789	0.1244	80	0.13	050.60	0
050	Soluble Potassium as K2O (10%)	0105	10.32	0.1000	10.27	0.3789	0.1244	80	0.13	050.62	0
050	Soluble Potassium as K2O (10%)	0007	10.35	0.3000	10.27	0.3789	0.1244	80	0.21	050.51	0
050	Soluble Potassium as K2O (10%)	0498	10.35	0.1000	10.27	0.3789	0.1244	80	0.21	050.30	0
050	Soluble Potassium as K2O (10%)	0105	10.37	0.0100	10.27	0.3789	0.1244	80	0.25	050.99	0
050	Soluble Potassium as K2O (10%)	0025	10.37	0.0060	10.27	0.3789	0.1244	80	0.26	050.52	0
050	Soluble Potassium as K2O (10%)	0416	10.41	0.0500	10.27	0.3789	0.1244	80	0.35	050.00	0
050	Soluble Potassium as K2O (10%)	0157	10.45	0.1000	10.27	0.3789	0.1244	80	0.47	050.50	0
050	Soluble Potassium as K2O (10%)	0029	10.47	0.2500	10.27	0.3789	0.1244	80	0.51	050.62	0
050	Soluble Potassium as K2O (10%)	0423	10.47	0.0600	10.27	0.3789	0.1244	80	0.53	050.52	0
050	Soluble Potassium as K2O (10%)	0397	10.49	0.1546	10.27	0.3789	0.1244	80	0.57	050.50	0
050	Soluble Potassium as K2O (10%)	0377	10.49	0.0200	10.27	0.3789	0.1244	80	0.58	050.52	0
050	Soluble Potassium as K2O (10%)	0291	10.50	0.0100	10.27	0.3789	0.1244	80	0.59	050.51	0
050	Soluble Potassium as K2O (10%)	0040	10.50	0.2000	10.27	0.3789	0.1244	80	0.60	050.30	0
050	Soluble Potassium as K2O (10%)	0406	10.51	0.3100	10.27	0.3789	0.1244	80	0.62	050.50	0
050	Soluble Potassium as K2O (10%)	0421	10.52	0.0500	10.27	0.3789	0.1244	80	0.64	050.52	0
050	Soluble Potassium as K2O (10%)	0275	10.52	0.0800	10.27	0.3789	0.1244	80	0.66	050.99	0
050	Soluble Potassium as K2O (10%)	0177	10.54	0.1765	10.27	0.3789	0.1244	80	0.72	050.99	0
050	Soluble Potassium as K2O (10%)	0234	10.57	0.1100	10.27	0.3789	0.1244	80	0.78	050.99	0
050	Soluble Potassium as K2O (10%)	0443	10.57	0.0300	10.27	0.3789	0.1244	80	0.78	050.60	0
050	Soluble Potassium as K2O (10%)	0131	10.57	0.0100	10.27	0.3789	0.1244	80	0.78	050.61	0
050	Soluble Potassium as K2O (10%)	0049	10.57	0.1800	10.27	0.3789	0.1244	80	0.79	050.00	0
050	Soluble Potassium as K2O (10%)	0487	10.57	0.0200	10.27	0.3789	0.1244	80	0.79	050.99	0
050	Soluble Potassium as K2O (10%)	0072	10.58	0.0400	10.27	0.3789	0.1244	80	0.82	050.51	0
050	Soluble Potassium as K2O (10%)	0389	10.59	0.2700	10.27	0.3789	0.1244	80	0.83	050.99	0
050	Soluble Potassium as K2O (10%)	0023	10.59	0.0400	10.27	0.3789	0.1244	80	0.84	050.52	0
050	Soluble Potassium as K2O (10%)	0354	10.61	0.0890	10.27	0.3789	0.1244	80	0.89	050.52	0
050	Soluble Potassium as K2O (10%)	0055	10.64	0.0300	10.27	0.3789	0.1244	80	0.96	050.00	0
050	Soluble Potassium as K2O (10%)	0452	10.64	0.0300	10.27	0.3789	0.1244	80	0.96	050.51	0
050	Soluble Potassium as K2O (10%)	0324	10.65	0.5000	10.27	0.3789	0.1244	80	1.00	050.50	0
050	Soluble Potassium as K2O (10%)	0420	10.68	0.1330	10.27	0.3789	0.1244	80	1.08	050.50	0
050	Soluble Potassium as K2O (10%)	0086	10.72	0.4948	10.27	0.3789	0.1244	80	1.18	050.50	0
050	Soluble Potassium as K2O (10%)	0360	10.75	0.2100	10.27	0.3789	0.1244	80	1.25	050.52	0
050	Soluble Potassium as K2O (10%)	0090	10.99	0.0300	10.27	0.3789	0.1244	80	1.88	050.00	0
050	Soluble Potassium as K2O (10%)	0368	11.00	0.2993	10.27	0.3789	0.1244	80	1.92	050.99	0
050	Soluble Potassium as K2O (10%)	0428	11.06	0.0829	10.27	0.3789	0.1244	80	2.08	050.30	0
050	Soluble Potassium as K2O (10%)	0451	11.57	0.0700	10.27	0.3789	0.1244	80	3.42	050.99	0
050	Soluble Potassium as K2O (10%)	0073	12.18	0.1700	10.27	0.3789	0.1244	80	5.02	050.30	0
050	Soluble Potassium as K2O (10%)	0483	10.39	0.9700	10.27	0.3789	0.1244	80	0.30	050.51	1
050	Soluble Potassium as K2O (10%)	0230	11.00	0.8000	10.27	0.3789	0.1244	80	1.92	050.00	1
050	Soluble Potassium as K2O (10%)	0260	20.98	0.0800	10.27	0.3789	0.1244	80	28.26	050.99	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				
060	Water (Free) (%)	0007	0.2300	0.0200	0.5928	0.3656	0.0299	7	-0.99	060.00	0
060	Water (Free) (%)	0510	0.2950	0.0100	0.5928	0.3656	0.0299	7	-0.81	060.99	0
060	Water (Free) (%)	0416	0.3596	0.0093	0.5928	0.3656	0.0299	7	-0.64	060.00	0
060	Water (Free) (%)	0055	0.6000	0.0000	0.5928	0.3656	0.0299	7	0.02	060.30	0
060	Water (Free) (%)	0096	0.7050	0.0900	0.5928	0.3656	0.0299	7	0.31	060.00	0
060	Water (Free) (%)	0513	0.8450	0.0500	0.5928	0.3656	0.0299	7	0.69	060.99	0
060	Water (Free) (%)	0513	1.115	0.0300	0.5928	0.3656	0.0299	7	1.43	060.30	0
101	Acid Soluble Calcium (%)	0501	5.885	0.2700	7.031	0.4144	0.1388	17	-2.77	101.99	0
101	Acid Soluble Calcium (%)	0494	6.562	0.0063	7.031	0.4144	0.1388	17	-1.13	101.33	0
101	Acid Soluble Calcium (%)	0041	6.565	0.0100	7.031	0.4144	0.1388	17	-1.13	101.30	0
101	Acid Soluble Calcium (%)	0457	6.706	0.1900	7.031	0.4144	0.1388	17	-0.79	101.00	0
101	Acid Soluble Calcium (%)	0354	6.832	0.0310	7.031	0.4144	0.1388	17	-0.48	101.30	0
101	Acid Soluble Calcium (%)	0307	6.837	0.1880	7.031	0.4144	0.1388	17	-0.47	101.30	0
101	Acid Soluble Calcium (%)	0482	6.840	0.0800	7.031	0.4144	0.1388	17	-0.46	101.30	0
101	Acid Soluble Calcium (%)	0102	6.853	0.0380	7.031	0.4144	0.1388	17	-0.43	101.30	0
101	Acid Soluble Calcium (%)	0035	7.025	0.5100	7.031	0.4144	0.1388	17	-0.02	101.30	0
101	Acid Soluble Calcium (%)	0389	7.115	0.1500	7.031	0.4144	0.1388	17	0.20	101.99	0
101	Acid Soluble Calcium (%)	0025	7.255	0.2840	7.031	0.4144	0.1388	17	0.54	101.33	0
101	Acid Soluble Calcium (%)	0420	7.264	0.0524	7.031	0.4144	0.1388	17	0.56	101.30	0
101	Acid Soluble Calcium (%)	0096	7.300	0.3400	7.031	0.4144	0.1388	17	0.65	101.30	0
101	Acid Soluble Calcium (%)	0472	7.410	0.0200	7.031	0.4144	0.1388	17	0.91	101.30	0
101	Acid Soluble Calcium (%)	0421	7.415	0.0500	7.031	0.4144	0.1388	17	0.93	101.33	0
101	Acid Soluble Calcium (%)	0131	7.505	0.0300	7.031	0.4144	0.1388	17	1.14	101.30	0
101	Acid Soluble Calcium (%)	0423	7.655	0.1100	7.031	0.4144	0.1388	17	1.50	101.32	0
101	Acid Soluble Calcium (%)	0483	8.900	1.000	7.031	0.4144	0.1388	17	4.51	101.30	1
121	Acid Soluble Magnesium (1.2%)	0230	0.8230	0.0220	1.063	0.0848	0.0293	56	-2.83	121.30	0
121	Acid Soluble Magnesium (1.2%)	0515	0.9080	0.0378	1.063	0.0848	0.0293	56	-1.83	121.99	0
121	Acid Soluble Magnesium (1.2%)	0394	0.9350	0.0100	1.063	0.0848	0.0293	56	-1.51	121.32	0
121	Acid Soluble Magnesium (1.2%)	0515	0.9436	0.0313	1.063	0.0848	0.0293	56	-1.41	121.33	0
121	Acid Soluble Magnesium (1.2%)	0433	0.9458	0.0013	1.063	0.0848	0.0293	56	-1.39	121.30	0
121	Acid Soluble Magnesium (1.2%)	0291	0.9550	0.0100	1.063	0.0848	0.0293	56	-1.28	121.30	0
121	Acid Soluble Magnesium (1.2%)	0501	0.9600	0.0000	1.063	0.0848	0.0293	56	-1.22	121.99	0
121	Acid Soluble Magnesium (1.2%)	0072	0.9650	0.0100	1.063	0.0848	0.0293	56	-1.16	121.33	0
121	Acid Soluble Magnesium (1.2%)	0482	0.9750	0.0100	1.063	0.0848	0.0293	56	-1.04	121.30	0
121	Acid Soluble Magnesium (1.2%)	0397	0.9827	0.0613	1.063	0.0848	0.0293	56	-0.95	121.33	0
121	Acid Soluble Magnesium (1.2%)	0041	0.9950	0.0500	1.063	0.0848	0.0293	56	-0.81	121.30	0
121	Acid Soluble Magnesium (1.2%)	0029	0.9968	0.0605	1.063	0.0848	0.0293	56	-0.79	121.00	0
121	Acid Soluble Magnesium (1.2%)	0102	0.9990	0.0040	1.063	0.0848	0.0293	56	-0.76	121.30	0
121	Acid Soluble Magnesium (1.2%)	0095	1.000	0.0600	1.063	0.0848	0.0293	56	-0.75	121.30	0
121	Acid Soluble Magnesium (1.2%)	0444	1.010	0.0600	1.063	0.0848	0.0293	56	-0.63	121.30	0
121	Acid Soluble Magnesium (1.2%)	0090	1.015	0.0100	1.063	0.0848	0.0293	56	-0.57	121.30	0
121	Acid Soluble Magnesium (1.2%)	0506	1.015	0.0100	1.063	0.0848	0.0293	56	-0.57	121.99	0
121	Acid Soluble Magnesium (1.2%)	0494	1.017	0.0011	1.063	0.0848	0.0293	56	-0.55	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 (1.2%)	0055	1.030	0.0200	1.063	0.0848	0.0293	56	-0.39	121.30	0
121	Acid Soluble Magnesium (1.2%)	0234	1.035	0.0100	1.063	0.0848	0.0293	56	-0.34	121.30	0
121	Acid Soluble Magnesium (1.2%)	0423	1.035	0.0300	1.063	0.0848	0.0293	56	-0.34	121.32	0
121	Acid Soluble Magnesium (1.2%)	0157	1.040	0.0000	1.063	0.0848	0.0293	56	-0.28	121.30	0
121	Acid Soluble Magnesium (1.2%)	0177	1.040	0.0034	1.063	0.0848	0.0293	56	-0.27	121.33	0
121	Acid Soluble Magnesium (1.2%)	0457	1.048	0.0220	1.063	0.0848	0.0293	56	-0.18	121.00	0
121	Acid Soluble Magnesium (1.2%)	0307	1.050	0.0050	1.063	0.0848	0.0293	56	-0.16	121.30	0
121	Acid Soluble Magnesium (1.2%)	0096	1.050	0.0000	1.063	0.0848	0.0293	56	-0.16	121.30	0
121	Acid Soluble Magnesium (1.2%)	0043	1.055	0.0040	1.063	0.0848	0.0293	56	-0.10	121.00	0
121	Acid Soluble Magnesium (1.2%)	0131	1.065	0.0500	1.063	0.0848	0.0293	56	0.02	121.30	0
121	Acid Soluble Magnesium (1.2%)	0485	1.070	0.0090	1.063	0.0848	0.0293	56	0.07	121.00	0
121	Acid Soluble Magnesium (1.2%)	0040	1.075	0.0100	1.063	0.0848	0.0293	56	0.14	121.00	0
121	Acid Soluble Magnesium (1.2%)	0420	1.075	0.0008	1.063	0.0848	0.0293	56	0.14	121.30	0
121	Acid Soluble Magnesium (1.2%)	0368	1.076	0.0005	1.063	0.0848	0.0293	56	0.14	121.30	0
121	Acid Soluble Magnesium (1.2%)	0220	1.080	0.0200	1.063	0.0848	0.0293	56	0.20	121.30	0
121	Acid Soluble Magnesium (1.2%)	0360	1.080	0.0000	1.063	0.0848	0.0293	56	0.20	121.30	0
121	Acid Soluble Magnesium (1.2%)	0025	1.080	0.0920	1.063	0.0848	0.0293	56	0.20	121.33	0
121	Acid Soluble Magnesium (1.2%)	0037	1.080	0.0200	1.063	0.0848	0.0293	56	0.20	121.33	0
121	Acid Soluble Magnesium (1.2%)	0117	1.085	0.0500	1.063	0.0848	0.0293	56	0.25	121.03	0
121	Acid Soluble Magnesium (1.2%)	0023	1.088	0.0040	1.063	0.0848	0.0293	56	0.29	121.33	0
121	Acid Soluble Magnesium (1.2%)	0389	1.098	0.0060	1.063	0.0848	0.0293	56	0.41	121.99	0
121	Acid Soluble Magnesium (1.2%)	0481	1.100	0.0000	1.063	0.0848	0.0293	56	0.43	121.00	0
121	Acid Soluble Magnesium (1.2%)	0035	1.100	0.1200	1.063	0.0848	0.0293	56	0.43	121.30	0
121	Acid Soluble Magnesium (1.2%)	0354	1.108	0.0140	1.063	0.0848	0.0293	56	0.53	121.30	0
121	Acid Soluble Magnesium (1.2%)	0371	1.108	0.0000	1.063	0.0848	0.0293	56	0.53	121.30	0
121	Acid Soluble Magnesium (1.2%)	0114	1.130	0.0000	1.063	0.0848	0.0293	56	0.78	121.30	0
121	Acid Soluble Magnesium (1.2%)	0452	1.135	0.0100	1.063	0.0848	0.0293	56	0.84	121.30	0
121	Acid Soluble Magnesium (1.2%)	0421	1.135	0.0500	1.063	0.0848	0.0293	56	0.84	121.33	0
121	Acid Soluble Magnesium (1.2%)	0508	1.155	0.0700	1.063	0.0848	0.0293	56	1.08	121.99	0
121	Acid Soluble Magnesium (1.2%)	0157	1.160	0.1200	1.063	0.0848	0.0293	56	1.14	121.00	0
121	Acid Soluble Magnesium (1.2%)	0231	1.165	0.1100	1.063	0.0848	0.0293	56	1.20	121.30	0
121	Acid Soluble Magnesium (1.2%)	0200	1.175	0.0100	1.063	0.0848	0.0293	56	1.32	121.99	0
121	Acid Soluble Magnesium (1.2%)	0472	1.195	0.0100	1.063	0.0848	0.0293	56	1.55	121.30	0
121	Acid Soluble Magnesium (1.2%)	0169	1.200	0.0400	1.063	0.0848	0.0293	56	1.61	121.00	0
121	Acid Soluble Magnesium (1.2%)	0483	1.205	0.0500	1.063	0.0848	0.0293	56	1.67	121.30	0
121	Acid Soluble Magnesium (1.2%)	0042	1.225	0.0300	1.063	0.0848	0.0293	56	1.90	121.99	0
121	Acid Soluble Magnesium (1.2%)	0486	1.270	0.0600	1.063	0.0848	0.0293	56	2.43	121.33	0
121	Acid Soluble Magnesium (1.2%)	0512	2.017	0.1420	1.063	0.0848	0.0293	56	11.24	121.99	0
121	Acid Soluble Magnesium (1.2%)	0422	1.070	0.2600	1.063	0.0848	0.0293	56	0.08	121.33	1
121	Acid Soluble Magnesium (1.2%)	0309	1.640	0.2000	1.063	0.0848	0.0293	56	6.80	121.00	1
121	Acid Soluble Magnesium (1.2%)	0260	2.840	0.0800	1.063	0.0848	0.0293	56	20.94	121.99	2
131	Water Soluble Magnesium (%)	0444	0.7300	0.0600	0.9500	0.1395	0.0490	14	-1.58	131.30	0
131	Water Soluble Magnesium (%)	0029	0.7753	0.0755	0.9500	0.1395	0.0490	14	-1.25	131.00	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				
131	Water Soluble Magnesium (%)	0394	0.7900	0.0200	0.9500	0.1395	0.0490	14	-1.15	131.30	0
131	Water Soluble Magnesium (%)	0220	0.8950	0.0100	0.9500	0.1395	0.0490	14	-0.39	131.30	0
131	Water Soluble Magnesium (%)	0027	0.9030	0.0460	0.9500	0.1395	0.0490	14	-0.34	131.00	0
131	Water Soluble Magnesium (%)	0485	0.9210	0.0060	0.9500	0.1395	0.0490	14	-0.21	131.00	0
131	Water Soluble Magnesium (%)	0309	0.9250	0.0900	0.9500	0.1395	0.0490	14	-0.18	131.00	0
131	Water Soluble Magnesium (%)	0275	0.9600	0.0000	0.9500	0.1395	0.0490	14	0.07	131.30	0
131	Water Soluble Magnesium (%)	0368	0.9743	0.0252	0.9500	0.1395	0.0490	14	0.17	131.30	0
131	Water Soluble Magnesium (%)	0230	0.9750	0.0300	0.9500	0.1395	0.0490	14	0.18	131.30	0
131	Water Soluble Magnesium (%)	0498	1.055	0.0100	0.9500	0.1395	0.0490	14	0.75	131.00	0
131	Water Soluble Magnesium (%)	0501	1.165	0.0300	0.9500	0.1395	0.0490	14	1.54	131.30	0
131	Water Soluble Magnesium (%)	0510	1.175	0.1100	0.9500	0.1395	0.0490	14	1.61	131.70	0
131	Water Soluble Magnesium (%)	0027	1.228	0.1730	0.9500	0.1395	0.0490	14	1.99	131.30	0
143	Elemental Sulfur (%)	0485	0.7560	0.2480	1.280	0.3060	0.1676	5	-1.71	143.00	0
143	Elemental Sulfur (%)	0220	1.305	0.0300	1.280	0.3060	0.1676	5	0.08	143.00	0
143	Elemental Sulfur (%)	0027	1.390	0.0400	1.280	0.3060	0.1676	5	0.36	143.99	0
143	Elemental Sulfur (%)	0095	1.400	0.4200	1.280	0.3060	0.1676	5	0.39	143.00	0
143	Elemental Sulfur (%)	0510	1.550	0.1000	1.280	0.3060	0.1676	5	0.88	143.00	0
143	Elemental Sulfur (%)	0291	10.33	0.0100	1.280	0.3060	0.1676	5	29.56	143.99	3
143	Elemental Sulfur (%)	0055	12.03	0.0600	1.280	0.3060	0.1676	5	35.13	143.00	3
143	Elemental Sulfur (%)	0472	12.42	0.0400	1.280	0.3060	0.1676	5	36.40	143.99	3
143	Elemental Sulfur (%)	0389	13.03	0.0900	1.280	0.3060	0.1676	5	38.38	143.99	3
145	Sulfate Sulfur, HCl soluble (%)	0444	10.75	0.2200	11.33	0.2066	0.0915	9	-2.79	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0405	10.86	0.0800	11.33	0.2066	0.0915	9	-2.26	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0027	11.22	0.1400	11.33	0.2066	0.0915	9	-0.51	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0485	11.33	0.0600	11.33	0.2066	0.0915	9	0.02	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0397	11.33	0.1933	11.33	0.2066	0.0915	9	0.03	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0510	11.36	0.0100	11.33	0.2066	0.0915	9	0.14	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0095	11.37	0.0300	11.33	0.2066	0.0915	9	0.19	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0220	11.91	0.0400	11.33	0.2066	0.0915	9	2.83	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0043	12.98	0.0500	11.33	0.2066	0.0915	9	7.98	145.00	0
147	Total Sulfur in Urea/Formulations (%)	0131	12.25	0.0700			0.0700	1			0
148	Total Sulfur (10%)	0515	9.302*	0.1693	12.00	1.083	0.2148	42	-2.49	148.07	0
148	Total Sulfur (10%)	0501	9.965*	0.0100	12.00	1.083	0.2148	42	-1.88	148.99	0
148	Total Sulfur (10%)	0444	10.13*	0.2300	12.00	1.083	0.2148	42	-1.73	148.07	0
148	Total Sulfur (10%)	0422	10.37*	1.080	12.00	1.083	0.2148	42	-1.50	148.99	0
148	Total Sulfur (10%)	0486	10.42*	0.3000	12.00	1.083	0.2148	42	-1.46	148.07	0
148	Total Sulfur (10%)	0506	10.45*	0.7000	12.00	1.083	0.2148	42	-1.43	148.99	0
148	Total Sulfur (10%)	0354	10.63*	0.0490	12.00	1.083	0.2148	42	-1.26	148.99	0
148	Total Sulfur (10%)	0394	10.85*	0.1000	12.00	1.083	0.2148	42	-1.06	148.04	0
148	Total Sulfur (10%)	0096	10.87*	0.4400	12.00	1.083	0.2148	42	-1.04	148.99	0
148	Total Sulfur (10%)	0498	10.90*	0.0000	12.00	1.083	0.2148	42	-1.01	148.01	0
148	Total Sulfur (10%)	0307	10.93*	0.8140	12.00	1.083	0.2148	42	-0.98	148.99	0
148	Total Sulfur (10%)	0444	11.07*	0.1900	12.00	1.083	0.2148	42	-0.86	148.01	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 Sulfur (10%)	0102	11.30	0.0130	12.00	1.083	0.2148	42	-0.64	148.01	0
148	Total Sulfur (10%)	0324	11.40	0.0000	12.00	1.083	0.2148	42	-0.55	148.01	0
148	Total Sulfur (10%)	0157	11.65	0.3000	12.00	1.083	0.2148	42	-0.32	148.00	0
148	Total Sulfur (10%)	0230	11.85	0.1000	12.00	1.083	0.2148	42	-0.14	148.01	0
148	Total Sulfur (10%)	0421	11.91	0.0500	12.00	1.083	0.2148	42	-0.09	148.07	0
148	Total Sulfur (10%)	0114	12.03	0.3300	12.00	1.083	0.2148	42	0.03	148.01	0
148	Total Sulfur (10%)	0485	12.09	0.3000	12.00	1.083	0.2148	42	0.09	148.01	0
148	Total Sulfur (10%)	0023	12.11	0.2010	12.00	1.083	0.2148	42	0.10	148.07	0
148	Total Sulfur (10%)	0360	12.18	0.3500	12.00	1.083	0.2148	42	0.16	148.00	0
148	Total Sulfur (10%)	0451	12.20	0.4000	12.00	1.083	0.2148	42	0.19	148.00	0
148	Total Sulfur (10%)	0040	12.25	0.3000	12.00	1.083	0.2148	42	0.23	148.01	0
148	Total Sulfur (10%)	0481	12.34	0.2000	12.00	1.083	0.2148	42	0.32	148.01	0
148	Total Sulfur (10%)	0025	12.39	0.0600	12.00	1.083	0.2148	42	0.36	148.00	0
148	Total Sulfur (10%)	0029	12.40	0.0300	12.00	1.083	0.2148	42	0.37	148.01	0
148	Total Sulfur (10%)	0037	12.50	0.3000	12.00	1.083	0.2148	42	0.46	148.07	0
148	Total Sulfur (10%)	0494	12.52	0.1083	12.00	1.083	0.2148	42	0.48	148.07	0
148	Total Sulfur (10%)	0102	12.61	0.1730	12.00	1.083	0.2148	42	0.57	148.07	0
148	Total Sulfur (10%)	0177	12.66	0.0030	12.00	1.083	0.2148	42	0.61	148.07	0
148	Total Sulfur (10%)	0029	12.68	0.3500	12.00	1.083	0.2148	42	0.63	148.00	0
148	Total Sulfur (10%)	0157	12.70	0.0000	12.00	1.083	0.2148	42	0.65	148.01	0
148	Total Sulfur (10%)	0482	12.70	0.0000	12.00	1.083	0.2148	42	0.65	148.99	0
148	Total Sulfur (10%)	0095	12.77	0.4500	12.00	1.083	0.2148	42	0.71	148.01	0
148	Total Sulfur (10%)	0457	12.91	0.3100	12.00	1.083	0.2148	42	0.84	148.01	0
148	Total Sulfur (10%)	0510	12.91	0.1100	12.00	1.083	0.2148	42	0.84	148.01	0
148	Total Sulfur (10%)	0452	12.91	0.0500	12.00	1.083	0.2148	42	0.84	148.99	0
148	Total Sulfur (10%)	0220	13.22	0.0100	12.00	1.083	0.2148	42	1.12	148.01	0
148	Total Sulfur (10%)	0483	13.35	0.1000	12.00	1.083	0.2148	42	1.25	148.07	0
148	Total Sulfur (10%)	0292	13.36	0.1700	12.00	1.083	0.2148	42	1.25	148.07	0
148	Total Sulfur (10%)	0072	13.72	0.0400	12.00	1.083	0.2148	42	1.59	148.99	0
148	Total Sulfur (10%)	0220	13.76	0.1300	12.00	1.083	0.2148	42	1.62	148.99	0
148	Total Sulfur (10%)	0406	10.39*	2.430	12.00	1.083	0.2148	42	-1.49	148.07	1
149	Sulfur - HNO3 soluble (%)	0501	9.965	0.0100	11.37	1.260	0.1464	3	-1.11	149.04	0
149	Sulfur - HNO3 soluble (%)	0368	11.74	0.0291	11.37	1.260	0.1464	3	0.30	149.04	0
149	Sulfur - HNO3 soluble (%)	0423	12.40	0.4000	11.37	1.260	0.1464	3	0.82	149.04	0
151	Acid Soluble Arsenic (ppm)	0515	0.6573	0.4318	2.747	0.9664	0.4458	10	-2.16	151.33	0
151	Acid Soluble Arsenic (ppm)	0102	1.379	0.2500	2.747	0.9664	0.4458	10	-1.42	151.30	0
151	Acid Soluble Arsenic (ppm)	0136	2.200	0.2000	2.747	0.9664	0.4458	10	-0.57	151.00	0
151	Acid Soluble Arsenic (ppm)	0096	2.300	0.0000	2.747	0.9664	0.4458	10	-0.46	151.30	0
151	Acid Soluble Arsenic (ppm)	0230	2.535	0.1300	2.747	0.9664	0.4458	10	-0.22	151.30	0
151	Acid Soluble Arsenic (ppm)	0037	3.065	0.2100	2.747	0.9664	0.4458	10	0.33	151.33	0
151	Acid Soluble Arsenic (ppm)	0501	3.190	0.0400	2.747	0.9664	0.4458	10	0.46	151.30	0
151	Acid Soluble Arsenic (ppm)	0368	3.195	0.5300	2.747	0.9664	0.4458	10	0.46	151.30	0
151	Acid Soluble Arsenic (ppm)	0494	3.807	0.6662	2.747	0.9664	0.4458	10	1.10	151.33	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				
151	Acid Soluble Arsenic (ppm)	0095	5.000	2.000	2.747	0.9664	0.4458	10	2.33	151.30	0
151	Acid Soluble Arsenic (ppm)	0515	0.6190	1.238	2.747	0.9664	0.4458	10	-2.20	151.34	4
165	Acid Soluble Boron (0.06%)	0234	0.0200*	0.0000	0.0301	0.0041	0.0017	31	-2.46	165.30	0
165	Acid Soluble Boron (0.06%)	0501	0.0205*	0.0030	0.0301	0.0041	0.0017	31	-2.34	165.99	0
165	Acid Soluble Boron (0.06%)	0230	0.0208*	0.0002	0.0301	0.0041	0.0017	31	-2.27	165.99	0
165	Acid Soluble Boron (0.06%)	0515	0.0240	0.0006	0.0301	0.0041	0.0017	31	-1.48	165.99	0
165	Acid Soluble Boron (0.06%)	0354	0.0265	0.0010	0.0301	0.0041	0.0017	31	-0.87	165.30	0
165	Acid Soluble Boron (0.06%)	0394	0.0265	0.0010	0.0301	0.0041	0.0017	31	-0.87	165.30	0
165	Acid Soluble Boron (0.06%)	0485	0.0265	0.0050	0.0301	0.0041	0.0017	31	-0.87	165.30	0
165	Acid Soluble Boron (0.06%)	0423	0.0270	0.0000	0.0301	0.0041	0.0017	31	-0.75	165.99	0
165	Acid Soluble Boron (0.06%)	0444	0.0270	0.0040	0.0301	0.0041	0.0017	31	-0.75	165.30	0
165	Acid Soluble Boron (0.06%)	0421	0.0275	0.0050	0.0301	0.0041	0.0017	31	-0.63	165.99	0
165	Acid Soluble Boron (0.06%)	0055	0.0280	0.0000	0.0301	0.0041	0.0017	31	-0.50	165.00	0
165	Acid Soluble Boron (0.06%)	0481	0.0300	0.0000	0.0301	0.0041	0.0017	31	-0.01	165.00	0
165	Acid Soluble Boron (0.06%)	0095	0.0300	0.0000	0.0301	0.0041	0.0017	31	-0.01	165.99	0
165	Acid Soluble Boron (0.06%)	0291	0.0300	0.0000	0.0301	0.0041	0.0017	31	-0.01	165.99	0
165	Acid Soluble Boron (0.06%)	0472	0.0300	0.0000	0.0301	0.0041	0.0017	31	-0.01	165.99	0
165	Acid Soluble Boron (0.06%)	0486	0.0300	0.0000	0.0301	0.0041	0.0017	31	-0.01	165.99	0
165	Acid Soluble Boron (0.06%)	0494	0.0302	0.0002	0.0301	0.0041	0.0017	31	0.04	165.30	0
165	Acid Soluble Boron (0.06%)	0360	0.0305	0.0010	0.0301	0.0041	0.0017	31	0.11	165.99	0
165	Acid Soluble Boron (0.06%)	0433	0.0309	0.0002	0.0301	0.0041	0.0017	31	0.21	165.30	0
165	Acid Soluble Boron (0.06%)	0029	0.0310	0.0000	0.0301	0.0041	0.0017	31	0.23	165.00	0
165	Acid Soluble Boron (0.06%)	0037	0.0315	0.0090	0.0301	0.0041	0.0017	31	0.35	165.00	0
165	Acid Soluble Boron (0.06%)	0397	0.0316	0.0003	0.0301	0.0041	0.0017	31	0.37	165.30	0
165	Acid Soluble Boron (0.06%)	0220	0.0320	0.0020	0.0301	0.0041	0.0017	31	0.48	165.00	0
165	Acid Soluble Boron (0.06%)	0389	0.0320	0.0032	0.0301	0.0041	0.0017	31	0.48	165.30	0
165	Acid Soluble Boron (0.06%)	0231	0.0325	0.0010	0.0301	0.0041	0.0017	31	0.60	165.99	0
165	Acid Soluble Boron (0.06%)	0482	0.0350	0.0100	0.0301	0.0041	0.0017	31	1.21	165.99	0
165	Acid Soluble Boron (0.06%)	0043	0.0360	0.0010	0.0301	0.0041	0.0017	31	1.46	165.99	0
165	Acid Soluble Boron (0.06%)	0506	0.0400	0.0000	0.0301	0.0041	0.0017	31	2.43	165.00	0
165	Acid Soluble Boron (0.06%)	0200	0.0430	0.0040	0.0301	0.0041	0.0017	31	3.17	165.99	0
165	Acid Soluble Boron (0.06%)	0042	0.0535	0.0010	0.0301	0.0041	0.0017	31	5.74	165.99	0
165	Acid Soluble Boron (0.06%)	0402	0.0600	0.0000	0.0301	0.0041	0.0017	31	7.33	165.30	0
165	Acid Soluble Boron (0.06%)	0483	355.5	5.000	0.0301	0.0041	0.0017	31	87022.80	165.99	2
171	Water Soluble Boron (%)	0501	0.0255	0.0070	0.0273	0.0025	0.0035	2	-0.71	171.99	0
171	Water Soluble Boron (%)	0027	0.0290	0.0000	0.0273	0.0025	0.0035	2	0.71	171.99	0
181	Acid Soluble Cadmium (ppm)	0368	0.9650	0.2300	1.268	0.2147	0.1742	16	-1.41	181.30	0
181	Acid Soluble Cadmium (ppm)	0230	1.045	0.0300	1.268	0.2147	0.1742	16	-1.04	181.30	0
181	Acid Soluble Cadmium (ppm)	0220	1.050	0.1000	1.268	0.2147	0.1742	16	-1.01	181.99	0
181	Acid Soluble Cadmium (ppm)	0035	1.074	0.4520	1.268	0.2147	0.1742	16	-0.90	181.30	0
181	Acid Soluble Cadmium (ppm)	0394	1.195	0.0500	1.268	0.2147	0.1742	16	-0.34	181.30	0
181	Acid Soluble Cadmium (ppm)	0136	1.200	0.2000	1.268	0.2147	0.1742	16	-0.31	181.00	0
181	Acid Soluble Cadmium (ppm)	0096	1.200	0.2000	1.268	0.2147	0.1742	16	-0.31	181.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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181	Acid Soluble Cadmium (ppm)	0487	1.200	0.2000	1.268	0.2147	0.1742	16	-0.31	181.99	0
181	Acid Soluble Cadmium (ppm)	0482	1.250	0.1000	1.268	0.2147	0.1742	16	-0.08	181.30	0
181	Acid Soluble Cadmium (ppm)	0494	1.282	0.0162	1.268	0.2147	0.1742	16	0.07	181.33	0
181	Acid Soluble Cadmium (ppm)	0481	1.340	0.0400	1.268	0.2147	0.1742	16	0.34	181.99	0
181	Acid Soluble Cadmium (ppm)	0102	1.399	0.0020	1.268	0.2147	0.1742	16	0.61	181.30	0
181	Acid Soluble Cadmium (ppm)	0037	1.425	0.0500	1.268	0.2147	0.1742	16	0.73	181.33	0
181	Acid Soluble Cadmium (ppm)	0501	1.520	0.0400	1.268	0.2147	0.1742	16	1.18	181.30	0
181	Acid Soluble Cadmium (ppm)	0389	1.550	0.1000	1.268	0.2147	0.1742	16	1.32	181.30	0
181	Acid Soluble Cadmium (ppm)	0515	2.940	0.9770	1.268	0.2147	0.1742	16	7.79	181.33	0
181	Acid Soluble Cadmium (ppm)	0095	2.000	2.000	1.268	0.2147	0.1742	16	3.41	181.30	1
181	Acid Soluble Cadmium (ppm)	0515	0.0000	0.0000	1.268	0.2147	0.1742	16	-5.90	181.34	4
191	Acid Soluble Chromium (ppm)	0444	20.50	1.080	28.61	4.204	1.271	17	-1.93	191.30	0
191	Acid Soluble Chromium (ppm)	0394	22.65	0.1000	28.61	4.204	1.271	17	-1.42	191.30	0
191	Acid Soluble Chromium (ppm)	0482	23.15	0.1000	28.61	4.204	1.271	17	-1.30	191.30	0
191	Acid Soluble Chromium (ppm)	0027	25.86	0.5030	28.61	4.204	1.271	17	-0.65	191.33	0
191	Acid Soluble Chromium (ppm)	0035	26.00	2.600	28.61	4.204	1.271	17	-0.62	191.30	0
191	Acid Soluble Chromium (ppm)	0501	27.25	0.4900	28.61	4.204	1.271	17	-0.32	191.30	0
191	Acid Soluble Chromium (ppm)	0230	27.50	2.400	28.61	4.204	1.271	17	-0.26	191.30	0
191	Acid Soluble Chromium (ppm)	0515	27.77	1.080	28.61	4.204	1.271	17	-0.20	191.34	0
191	Acid Soluble Chromium (ppm)	0102	28.68	0.0430	28.61	4.204	1.271	17	0.02	191.30	0
191	Acid Soluble Chromium (ppm)	0368	29.83	1.120	28.61	4.204	1.271	17	0.29	191.30	0
191	Acid Soluble Chromium (ppm)	0096	30.75	0.5000	28.61	4.204	1.271	17	0.51	191.30	0
191	Acid Soluble Chromium (ppm)	0220	31.20	1.000	28.61	4.204	1.271	17	0.62	191.99	0
191	Acid Soluble Chromium (ppm)	0494	31.53	0.5256	28.61	4.204	1.271	17	0.69	191.33	0
191	Acid Soluble Chromium (ppm)	0389	32.15	0.7000	28.61	4.204	1.271	17	0.84	191.30	0
191	Acid Soluble Chromium (ppm)	0506	32.85	1.100	28.61	4.204	1.271	17	1.01	191.99	0
191	Acid Soluble Chromium (ppm)	0515	33.16	5.732	28.61	4.204	1.271	17	1.08	191.33	0
191	Acid Soluble Chromium (ppm)	0037	33.65	2.540	28.61	4.204	1.271	17	1.20	191.33	0
191	Acid Soluble Chromium (ppm)	0512	32.46	7.333	28.61	4.204	1.271	17	0.92	191.99	1
202	Acid Soluble Cobalt (ppm)	0389	1.700	0.0000	2.671	0.8015	0.4806	15	-1.21	202.30	0
202	Acid Soluble Cobalt (ppm)	0501	1.885	0.0500	2.671	0.8015	0.4806	15	-0.98	202.30	0
202	Acid Soluble Cobalt (ppm)	0035	1.945	0.9500	2.671	0.8015	0.4806	15	-0.91	202.30	0
202	Acid Soluble Cobalt (ppm)	0102	1.985	0.0510	2.671	0.8015	0.4806	15	-0.86	202.30	0
202	Acid Soluble Cobalt (ppm)	0096	2.225	0.3900	2.671	0.8015	0.4806	15	-0.56	202.30	0
202	Acid Soluble Cobalt (ppm)	0423	2.330	0.1800	2.671	0.8015	0.4806	15	-0.43	202.32	0
202	Acid Soluble Cobalt (ppm)	0515	2.383	1.125	2.671	0.8015	0.4806	15	-0.36	202.33	0
202	Acid Soluble Cobalt (ppm)	0230	2.535	0.2100	2.671	0.8015	0.4806	15	-0.17	202.30	0
202	Acid Soluble Cobalt (ppm)	0482	2.800	0.2000	2.671	0.8015	0.4806	15	0.16	202.30	0
202	Acid Soluble Cobalt (ppm)	0494	2.848	0.1132	2.671	0.8015	0.4806	15	0.22	202.33	0
202	Acid Soluble Cobalt (ppm)	0368	2.865	0.5300	2.671	0.8015	0.4806	15	0.24	202.30	0
202	Acid Soluble Cobalt (ppm)	0037	3.285	0.0100	2.671	0.8015	0.4806	15	0.77	202.33	0
202	Acid Soluble Cobalt (ppm)	0095	4.000	2.000	2.671	0.8015	0.4806	15	1.66	202.30	0
202	Acid Soluble Cobalt (ppm)	0220	4.000	0.4000	2.671	0.8015	0.4806	15	1.66	202.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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202	Acid Soluble Cobalt (ppm)	0506	4.500	1.000	2.671	0.8015	0.4806	15	2.28	202.99	0
202	Acid Soluble Cobalt (ppm)	0512	12.24	3.666	2.671	0.8015	0.4806	15	11.94	202.99	1
202	Acid Soluble Cobalt (ppm)	0515	0.4663	0.9325	2.671	0.8015	0.4806	15	-2.75	202.34	4
221	Acid Soluble Copper (0.05%)	0234	0.0200*	0.0000	0.0442	0.0041	0.0029	50	-5.85	221.30	0
221	Acid Soluble Copper (0.05%)	0131	0.0288*	0.0011	0.0442	0.0041	0.0029	50	-3.74	221.30	0
221	Acid Soluble Copper (0.05%)	0421	0.0325*	0.0050	0.0442	0.0041	0.0029	50	-2.83	221.33	0
221	Acid Soluble Copper (0.05%)	0230	0.0335*	0.0010	0.0442	0.0041	0.0029	50	-2.59	221.30	0
221	Acid Soluble Copper (0.05%)	0027	0.0385	0.0010	0.0442	0.0041	0.0029	50	-1.38	221.30	0
221	Acid Soluble Copper (0.05%)	0515	0.0387	0.0029	0.0442	0.0041	0.0029	50	-1.35	221.33	0
221	Acid Soluble Copper (0.05%)	0515	0.0399	0.0001	0.0442	0.0041	0.0029	50	-1.06	221.99	0
221	Acid Soluble Copper (0.05%)	0041	0.0400	0.0080	0.0442	0.0041	0.0029	50	-1.02	221.30	0
221	Acid Soluble Copper (0.05%)	0481	0.0400	0.0000	0.0442	0.0041	0.0029	50	-1.02	221.00	0
221	Acid Soluble Copper (0.05%)	0095	0.0400	0.0000	0.0442	0.0041	0.0029	50	-1.02	221.30	0
221	Acid Soluble Copper (0.05%)	0291	0.0400	0.0000	0.0442	0.0041	0.0029	50	-1.02	221.30	0
221	Acid Soluble Copper (0.05%)	0220	0.0405	0.0010	0.0442	0.0041	0.0029	50	-0.90	221.99	0
221	Acid Soluble Copper (0.05%)	0494	0.0412	0.0008	0.0442	0.0041	0.0029	50	-0.73	221.33	0
221	Acid Soluble Copper (0.05%)	0117	0.0415	0.0018	0.0442	0.0041	0.0029	50	-0.66	221.03	0
221	Acid Soluble Copper (0.05%)	0043	0.0420	0.0020	0.0442	0.0041	0.0029	50	-0.54	221.00	0
221	Acid Soluble Copper (0.05%)	0394	0.0420	0.0020	0.0442	0.0041	0.0029	50	-0.54	221.32	0
221	Acid Soluble Copper (0.05%)	0501	0.0425	0.0010	0.0442	0.0041	0.0029	50	-0.42	221.99	0
221	Acid Soluble Copper (0.05%)	0035	0.0430	0.0017	0.0442	0.0041	0.0029	50	-0.31	221.30	0
221	Acid Soluble Copper (0.05%)	0307	0.0430	0.0080	0.0442	0.0041	0.0029	50	-0.29	221.30	0
221	Acid Soluble Copper (0.05%)	0090	0.0435	0.0010	0.0442	0.0041	0.0029	50	-0.17	221.30	0
221	Acid Soluble Copper (0.05%)	0029	0.0437	0.0039	0.0442	0.0041	0.0029	50	-0.14	221.00	0
221	Acid Soluble Copper (0.05%)	0485	0.0439	0.0006	0.0442	0.0041	0.0029	50	-0.08	221.00	0
221	Acid Soluble Copper (0.05%)	0487	0.0441	0.0010	0.0442	0.0041	0.0029	50	-0.03	221.99	0
221	Acid Soluble Copper (0.05%)	0354	0.0445	0.0050	0.0442	0.0041	0.0029	50	0.07	221.30	0
221	Acid Soluble Copper (0.05%)	0368	0.0448	0.0006	0.0442	0.0041	0.0029	50	0.14	221.30	0
221	Acid Soluble Copper (0.05%)	0389	0.0449	0.0021	0.0442	0.0041	0.0029	50	0.15	221.99	0
221	Acid Soluble Copper (0.05%)	0498	0.0450	0.0020	0.0442	0.0041	0.0029	50	0.19	221.00	0
221	Acid Soluble Copper (0.05%)	0360	0.0450	0.0020	0.0442	0.0041	0.0029	50	0.19	221.30	0
221	Acid Soluble Copper (0.05%)	0402	0.0450	0.0100	0.0442	0.0041	0.0029	50	0.19	221.30	0
221	Acid Soluble Copper (0.05%)	0472	0.0450	0.0100	0.0442	0.0041	0.0029	50	0.19	221.30	0
221	Acid Soluble Copper (0.05%)	0482	0.0450	0.0100	0.0442	0.0041	0.0029	50	0.19	221.30	0
221	Acid Soluble Copper (0.05%)	0096	0.0451	0.0020	0.0442	0.0041	0.0029	50	0.21	221.30	0
221	Acid Soluble Copper (0.05%)	0037	0.0455	0.0030	0.0442	0.0041	0.0029	50	0.31	221.33	0
221	Acid Soluble Copper (0.05%)	0055	0.0458	0.0039	0.0442	0.0041	0.0029	50	0.37	221.30	0
221	Acid Soluble Copper (0.05%)	0157	0.0460	0.0040	0.0442	0.0041	0.0029	50	0.43	221.30	0
221	Acid Soluble Copper (0.05%)	0512	0.0460	0.0020	0.0442	0.0041	0.0029	50	0.43	221.99	0
221	Acid Soluble Copper (0.05%)	0433	0.0463	0.0009	0.0442	0.0041	0.0029	50	0.49	221.30	0
221	Acid Soluble Copper (0.05%)	0023	0.0465	0.0050	0.0442	0.0041	0.0029	50	0.55	221.03	0
221	Acid Soluble Copper (0.05%)	0397	0.0467	0.0009	0.0442	0.0041	0.0029	50	0.59	221.00	0
221	Acid Soluble Copper (0.05%)	0423	0.0475	0.0010	0.0442	0.0041	0.0029	50	0.79	221.32	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 Copper (0.05%)	0040	0.0477	0.0067	0.0442	0.0041	0.0029	50	0.83	221.00	0
221	Acid Soluble Copper (0.05%)	0457	0.0485	0.0010	0.0442	0.0041	0.0029	50	1.03	221.00	0
221	Acid Soluble Copper (0.05%)	0444	0.0485	0.0070	0.0442	0.0041	0.0029	50	1.03	221.30	0
221	Acid Soluble Copper (0.05%)	0102	0.0490	0.0020	0.0442	0.0041	0.0029	50	1.16	221.30	0
221	Acid Soluble Copper (0.05%)	0114	0.0500	0.0020	0.0442	0.0041	0.0029	50	1.40	221.30	0
221	Acid Soluble Copper (0.05%)	0231	0.0500	0.0000	0.0442	0.0041	0.0029	50	1.40	221.30	0
221	Acid Soluble Copper (0.05%)	0486	0.0500	0.0000	0.0442	0.0041	0.0029	50	1.40	221.33	0
221	Acid Soluble Copper (0.05%)	0508	0.0500	0.0020	0.0442	0.0041	0.0029	50	1.40	221.99	0
221	Acid Soluble Copper (0.05%)	0042	0.0520	0.0060	0.0442	0.0041	0.0029	50	1.88	221.99	0
221	Acid Soluble Copper (0.05%)	0422	0.4950	0.0100	0.0442	0.0041	0.0029	50	108.92	221.33	0
221	Acid Soluble Copper (0.05%)	0483	486.5	45.00	0.0442	0.0041	0.0029	50	117534.88	221.30	2
241	Acid Soluble Iron (0.8%)	0501	0.2550*	0.0500	0.5008	0.0446	0.0155	49	-5.51	241.99	0
241	Acid Soluble Iron (0.8%)	0230	0.3810*	0.0140	0.5008	0.0446	0.0155	49	-2.69	241.30	0
241	Acid Soluble Iron (0.8%)	0027	0.3865*	0.0150	0.5008	0.0446	0.0155	49	-2.56	241.30	0
241	Acid Soluble Iron (0.8%)	0131	0.4272*	0.0086	0.5008	0.0446	0.0155	49	-1.65	241.30	0
241	Acid Soluble Iron (0.8%)	0102	0.4360*	0.0020	0.5008	0.0446	0.0155	49	-1.45	241.30	0
241	Acid Soluble Iron (0.8%)	0035	0.4450*	0.0060	0.5008	0.0446	0.0155	49	-1.25	241.30	0
241	Acid Soluble Iron (0.8%)	0420	0.4469	0.0304	0.5008	0.0446	0.0155	49	-1.21	241.30	0
241	Acid Soluble Iron (0.8%)	0394	0.4505	0.0030	0.5008	0.0446	0.0155	49	-1.13	241.32	0
241	Acid Soluble Iron (0.8%)	0095	0.4600	0.0000	0.5008	0.0446	0.0155	49	-0.92	241.30	0
241	Acid Soluble Iron (0.8%)	0515	0.4674	0.0230	0.5008	0.0446	0.0155	49	-0.75	241.33	0
241	Acid Soluble Iron (0.8%)	0157	0.4680	0.0000	0.5008	0.0446	0.0155	49	-0.74	241.30	0
241	Acid Soluble Iron (0.8%)	0402	0.4700	0.0200	0.5008	0.0446	0.0155	49	-0.69	241.30	0
241	Acid Soluble Iron (0.8%)	0472	0.4700	0.0000	0.5008	0.0446	0.0155	49	-0.69	241.30	0
241	Acid Soluble Iron (0.8%)	0177	0.4720	0.0027	0.5008	0.0446	0.0155	49	-0.65	241.33	0
241	Acid Soluble Iron (0.8%)	0482	0.4750	0.0100	0.5008	0.0446	0.0155	49	-0.58	241.30	0
241	Acid Soluble Iron (0.8%)	0506	0.4800	0.0000	0.5008	0.0446	0.0155	49	-0.47	241.99	0
241	Acid Soluble Iron (0.8%)	0090	0.4805	0.0050	0.5008	0.0446	0.0155	49	-0.46	241.30	0
241	Acid Soluble Iron (0.8%)	0397	0.4823	0.0188	0.5008	0.0446	0.0155	49	-0.41	241.33	0
241	Acid Soluble Iron (0.8%)	0512	0.4885	0.0310	0.5008	0.0446	0.0155	49	-0.28	241.99	0
241	Acid Soluble Iron (0.8%)	0515	0.4896	0.0038	0.5008	0.0446	0.0155	49	-0.25	241.99	0
241	Acid Soluble Iron (0.8%)	0494	0.4946	0.0014	0.5008	0.0446	0.0155	49	-0.14	241.33	0
241	Acid Soluble Iron (0.8%)	0291	0.4950	0.0100	0.5008	0.0446	0.0155	49	-0.13	241.30	0
241	Acid Soluble Iron (0.8%)	0220	0.4950	0.0100	0.5008	0.0446	0.0155	49	-0.13	241.99	0
241	Acid Soluble Iron (0.8%)	0433	0.4994	0.0005	0.5008	0.0446	0.0155	49	-0.03	241.30	0
241	Acid Soluble Iron (0.8%)	0096	0.5000	0.0200	0.5008	0.0446	0.0155	49	-0.02	241.30	0
241	Acid Soluble Iron (0.8%)	0234	0.5050	0.0100	0.5008	0.0446	0.0155	49	0.09	241.30	0
241	Acid Soluble Iron (0.8%)	0444	0.5050	0.0100	0.5008	0.0446	0.0155	49	0.09	241.30	0
241	Acid Soluble Iron (0.8%)	0421	0.5065	0.0050	0.5008	0.0446	0.0155	49	0.13	241.33	0
241	Acid Soluble Iron (0.8%)	0389	0.5135	0.0050	0.5008	0.0446	0.0155	49	0.28	241.99	0
241	Acid Soluble Iron (0.8%)	0368	0.5153	0.0064	0.5008	0.0446	0.0155	49	0.33	241.30	0
241	Acid Soluble Iron (0.8%)	0025	0.5174	0.0118	0.5008	0.0446	0.0155	49	0.37	241.33	0
241	Acid Soluble Iron (0.8%)	0481	0.5200	0.0400	0.5008	0.0446	0.0155	49	0.43	241.00	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				
241	Acid Soluble Iron (0.8%)	0354	0.5220	0.0520	0.5008	0.0446	0.0155	49	0.48	241.30	0
241	Acid Soluble Iron (0.8%)	0231	0.5250	0.0100	0.5008	0.0446	0.0155	49	0.54	241.30	0
241	Acid Soluble Iron (0.8%)	0023	0.5250	0.0340	0.5008	0.0446	0.0155	49	0.54	241.33	0
241	Acid Soluble Iron (0.8%)	0041	0.5255	0.0730	0.5008	0.0446	0.0155	49	0.55	241.30	0
241	Acid Soluble Iron (0.8%)	0360	0.5265	0.0090	0.5008	0.0446	0.0155	49	0.58	241.30	0
241	Acid Soluble Iron (0.8%)	0423	0.5265	0.0090	0.5008	0.0446	0.0155	49	0.58	241.32	0
241	Acid Soluble Iron (0.8%)	0037	0.5290	0.0100	0.5008	0.0446	0.0155	49	0.63	241.33	0
241	Acid Soluble Iron (0.8%)	0043	0.5350	0.0100	0.5008	0.0446	0.0155	49	0.77	241.00	0
241	Acid Soluble Iron (0.8%)	0055	0.5383	0.0284	0.5008	0.0446	0.0155	49	0.84	241.30	0
241	Acid Soluble Iron (0.8%)	0371	0.5525	0.0350	0.5008	0.0446	0.0155	49	1.16	241.30	0
241	Acid Soluble Iron (0.8%)	0117	0.5590	0.0480	0.5008	0.0446	0.0155	49	1.31	241.03	0
241	Acid Soluble Iron (0.8%)	0422	0.5650	0.0100	0.5008	0.0446	0.0155	49	1.44	241.33	0
241	Acid Soluble Iron (0.8%)	0029	0.5692	0.0171	0.5008	0.0446	0.0155	49	1.53	241.00	0
241	Acid Soluble Iron (0.8%)	0114	0.5800	0.0000	0.5008	0.0446	0.0155	49	1.78	241.30	0
241	Acid Soluble Iron (0.8%)	0485	0.5865	0.0090	0.5008	0.0446	0.0155	49	1.92	241.00	0
241	Acid Soluble Iron (0.8%)	0042	0.6050	0.0100	0.5008	0.0446	0.0155	49	2.34	241.99	0
241	Acid Soluble Iron (0.8%)	0486	0.7200	0.0200	0.5008	0.0446	0.0155	49	4.92	241.33	0
241	Acid Soluble Iron (0.8%)	0483	5.885	250.0	0.5008	0.0446	0.0155	49	132005.51	241.30	2
251	Acid Soluble Lead (ppm)	0444	192.0	2.000	265.0	38.27	8.133	21	-1.91	251.30	0
251	Acid Soluble Lead (ppm)	0394	204.5	5.000	265.0	38.27	8.133	21	-1.58	251.30	0
251	Acid Soluble Lead (ppm)	0482	221.0	6.000	265.0	38.27	8.133	21	-1.15	251.30	0
251	Acid Soluble Lead (ppm)	0027	228.7	2.109	265.0	38.27	8.133	21	-0.95	251.33	0
251	Acid Soluble Lead (ppm)	0506	231.5	1.000	265.0	38.27	8.133	21	-0.88	251.99	0
251	Acid Soluble Lead (ppm)	0230	236.5	17.00	265.0	38.27	8.133	21	-0.74	251.30	0
251	Acid Soluble Lead (ppm)	0481	238.0	2.000	265.0	38.27	8.133	21	-0.71	251.99	0
251	Acid Soluble Lead (ppm)	0515	254.8	7.646	265.0	38.27	8.133	21	-0.27	251.34	0
251	Acid Soluble Lead (ppm)	0515	255.4	8.280	265.0	38.27	8.133	21	-0.25	251.33	0
251	Acid Soluble Lead (ppm)	0035	259.0	20.00	265.0	38.27	8.133	21	-0.16	251.30	0
251	Acid Soluble Lead (ppm)	0095	268.5	17.00	265.0	38.27	8.133	21	0.09	251.30	0
251	Acid Soluble Lead (ppm)	0220	283.0	2.000	265.0	38.27	8.133	21	0.47	251.99	0
251	Acid Soluble Lead (ppm)	0102	287.3	6.589	265.0	38.27	8.133	21	0.58	251.30	0
251	Acid Soluble Lead (ppm)	0096	288.2	3.500	265.0	38.27	8.133	21	0.60	251.30	0
251	Acid Soluble Lead (ppm)	0368	289.2	16.56	265.0	38.27	8.133	21	0.63	251.30	0
251	Acid Soluble Lead (ppm)	0494	297.4	14.86	265.0	38.27	8.133	21	0.85	251.33	0
251	Acid Soluble Lead (ppm)	0136	297.5	11.00	265.0	38.27	8.133	21	0.85	251.00	0
251	Acid Soluble Lead (ppm)	0487	299.0	6.000	265.0	38.27	8.133	21	0.89	251.99	0
251	Acid Soluble Lead (ppm)	0037	300.4	3.260	265.0	38.27	8.133	21	0.93	251.33	0
251	Acid Soluble Lead (ppm)	0389	307.0	6.000	265.0	38.27	8.133	21	1.10	251.30	0
251	Acid Soluble Lead (ppm)	0501	307.5	13.00	265.0	38.27	8.133	21	1.11	251.30	0
261	Acid Soluble Manganese (0.25%)	0027	0.0200*	0.0000	0.0807	0.0091	0.0038	52	-6.68	261.13	0
261	Acid Soluble Manganese (0.25%)	0498	0.0565*	0.0030	0.0807	0.0091	0.0038	52	-2.66	261.11	0
261	Acid Soluble Manganese (0.25%)	0515	0.0611*	0.0027	0.0807	0.0091	0.0038	52	-2.16	261.35	0
261	Acid Soluble Manganese (0.25%)	0230	0.0637*	0.0004	0.0807	0.0091	0.0038	52	-1.87	261.31	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 (0.25%)	0234	0.0650*	0.0100	0.0807	0.0091	0.0038	52	-1.73	261.31	0
261	Acid Soluble Manganese (0.25%)	0027	0.0660*	0.0020	0.0807	0.0091	0.0038	52	-1.62	261.32	0
261	Acid Soluble Manganese (0.25%)	0481	0.0700	0.0000	0.0807	0.0091	0.0038	52	-1.18	261.11	0
261	Acid Soluble Manganese (0.25%)	0501	0.0705	0.0030	0.0807	0.0091	0.0038	52	-1.12	261.99	0
261	Acid Soluble Manganese (0.25%)	0397	0.0730	0.0040	0.0807	0.0091	0.0038	52	-0.85	261.35	0
261	Acid Soluble Manganese (0.25%)	0394	0.0739	0.0003	0.0807	0.0091	0.0038	52	-0.75	261.34	0
261	Acid Soluble Manganese (0.25%)	0131	0.0746	0.0033	0.0807	0.0091	0.0038	52	-0.68	261.30	0
261	Acid Soluble Manganese (0.25%)	0433	0.0746	0.0012	0.0807	0.0091	0.0038	52	-0.67	261.30	0
261	Acid Soluble Manganese (0.25%)	0515	0.0747	0.0042	0.0807	0.0091	0.0038	52	-0.66	261.99	0
261	Acid Soluble Manganese (0.25%)	0402	0.0750	0.0100	0.0807	0.0091	0.0038	52	-0.63	261.32	0
261	Acid Soluble Manganese (0.25%)	0035	0.0753	0.0007	0.0807	0.0091	0.0038	52	-0.60	261.30	0
261	Acid Soluble Manganese (0.25%)	0307	0.0760	0.0000	0.0807	0.0091	0.0038	52	-0.52	261.30	0
261	Acid Soluble Manganese (0.25%)	0389	0.0771	0.0014	0.0807	0.0091	0.0038	52	-0.40	261.99	0
261	Acid Soluble Manganese (0.25%)	0043	0.0778	0.0015	0.0807	0.0091	0.0038	52	-0.33	261.00	0
261	Acid Soluble Manganese (0.25%)	0102	0.0785	0.0030	0.0807	0.0091	0.0038	52	-0.24	261.30	0
261	Acid Soluble Manganese (0.25%)	0457	0.0790	0.0020	0.0807	0.0091	0.0038	52	-0.19	261.12	0
261	Acid Soluble Manganese (0.25%)	0157	0.0790	0.0020	0.0807	0.0091	0.0038	52	-0.19	261.30	0
261	Acid Soluble Manganese (0.25%)	0220	0.0790	0.0040	0.0807	0.0091	0.0038	52	-0.19	261.99	0
261	Acid Soluble Manganese (0.25%)	0055	0.0793	0.0019	0.0807	0.0091	0.0038	52	-0.16	261.32	0
261	Acid Soluble Manganese (0.25%)	0494	0.0794	0.0007	0.0807	0.0091	0.0038	52	-0.15	261.35	0
261	Acid Soluble Manganese (0.25%)	0177	0.0799	0.0038	0.0807	0.0091	0.0038	52	-0.09	261.35	0
261	Acid Soluble Manganese (0.25%)	0291	0.0800	0.0000	0.0807	0.0091	0.0038	52	-0.08	261.30	0
261	Acid Soluble Manganese (0.25%)	0095	0.0800	0.0000	0.0807	0.0091	0.0038	52	-0.08	261.99	0
261	Acid Soluble Manganese (0.25%)	0506	0.0800	0.0000	0.0807	0.0091	0.0038	52	-0.08	261.99	0
261	Acid Soluble Manganese (0.25%)	0040	0.0805	0.0030	0.0807	0.0091	0.0038	52	-0.02	261.12	0
261	Acid Soluble Manganese (0.25%)	0354	0.0805	0.0070	0.0807	0.0091	0.0038	52	-0.02	261.30	0
261	Acid Soluble Manganese (0.25%)	0421	0.0815	0.0050	0.0807	0.0091	0.0038	52	0.09	261.35	0
261	Acid Soluble Manganese (0.25%)	0096	0.0821	0.0006	0.0807	0.0091	0.0038	52	0.15	261.30	0
261	Acid Soluble Manganese (0.25%)	0444	0.0840	0.0020	0.0807	0.0091	0.0038	52	0.36	261.32	0
261	Acid Soluble Manganese (0.25%)	0482	0.0850	0.0100	0.0807	0.0091	0.0038	52	0.47	261.31	0
261	Acid Soluble Manganese (0.25%)	0023	0.0850	0.0040	0.0807	0.0091	0.0038	52	0.47	261.35	0
261	Acid Soluble Manganese (0.25%)	0029	0.0855	0.0012	0.0807	0.0091	0.0038	52	0.53	261.12	0
261	Acid Soluble Manganese (0.25%)	0037	0.0860	0.0000	0.0807	0.0091	0.0038	52	0.58	261.35	0
261	Acid Soluble Manganese (0.25%)	0368	0.0862	0.0015	0.0807	0.0091	0.0038	52	0.60	261.30	0
261	Acid Soluble Manganese (0.25%)	0025	0.0867	0.0059	0.0807	0.0091	0.0038	52	0.65	261.35	0
261	Acid Soluble Manganese (0.25%)	0041	0.0875	0.0070	0.0807	0.0091	0.0038	52	0.75	261.30	0
261	Acid Soluble Manganese (0.25%)	0371	0.0880	0.0020	0.0807	0.0091	0.0038	52	0.80	261.32	0
261	Acid Soluble Manganese (0.25%)	0360	0.0885	0.0010	0.0807	0.0091	0.0038	52	0.86	261.31	0
261	Acid Soluble Manganese (0.25%)	0472	0.0900	0.0000	0.0807	0.0091	0.0038	52	1.02	261.30	0
261	Acid Soluble Manganese (0.25%)	0231	0.0900	0.0000	0.0807	0.0091	0.0038	52	1.02	261.31	0
261	Acid Soluble Manganese (0.25%)	0423	0.0910	0.0020	0.0807	0.0091	0.0038	52	1.13	261.34	0
261	Acid Soluble Manganese (0.25%)	0090	0.0925	0.0050	0.0807	0.0091	0.0038	52	1.30	261.30	0
261	Acid Soluble Manganese (0.25%)	0485	0.0960	0.0100	0.0807	0.0091	0.0038	52	1.68	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 (0.25%)	0042	0.0960	0.0000	0.0807	0.0091	0.0038	52	1.68	261.99	0
261	Acid Soluble Manganese (0.25%)	0486	0.1100	0.0200	0.0807	0.0091	0.0038	52	3.22	261.35	0
261	Acid Soluble Manganese (0.25%)	0117	0.1111	0.0338	0.0807	0.0091	0.0038	52	3.34	261.15	0
261	Acid Soluble Manganese (0.25%)	0420	0.1143	0.0019	0.0807	0.0091	0.0038	52	3.69	261.30	0
261	Acid Soluble Manganese (0.25%)	0512	0.1385	0.0070	0.0807	0.0091	0.0038	52	6.36	261.99	0
261	Acid Soluble Manganese (0.25%)	0483	818.0	22.00	0.0807	0.0091	0.0038	52	89994.94	261.32	2
271	Water Soluble Manganese (%)	0220	0.0190	0.0000	0.0217	0.0032	0.0006	6	-0.87	271.99	0
271	Water Soluble Manganese (%)	0394	0.0195	0.0010	0.0217	0.0032	0.0006	6	-0.71	271.30	0
271	Water Soluble Manganese (%)	0444	0.0195	0.0010	0.0217	0.0032	0.0006	6	-0.71	271.30	0
271	Water Soluble Manganese (%)	0368	0.0226	0.0007	0.0217	0.0032	0.0006	6	0.25	271.30	0
271	Water Soluble Manganese (%)	0501	0.0745	0.0010	0.0217	0.0032	0.0006	6	16.63	271.99	0
271	Water Soluble Manganese (%)	0230	0.1000	0.0000	0.0217	0.0032	0.0006	6	24.67	271.30	0
281	Acid Soluble Mercury (ppm)	0501	108.5	11.00	110.5	2.815	7.064	2	-0.71	281.30	0
281	Acid Soluble Mercury (ppm)	0515	112.5	3.127	110.5	2.815	7.064	2	0.71	281.30	0
289	Acid Soluble Molybdenum (30ppm)	0394	0.0325*	0.0010	350.7	50.75	8.994	19	-6.91	289.32	0
289	Acid Soluble Molybdenum (30ppm)	0042	0.0350*	0.0100	350.7	50.75	8.994	19	-6.91	289.99	0
289	Acid Soluble Molybdenum (30ppm)	0501	255.0	10.00	350.7	50.75	8.994	19	-1.89	289.34	0
289	Acid Soluble Molybdenum (30ppm)	0027	301.0	5.315	350.7	50.75	8.994	19	-0.98	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0230	301.0	24.00	350.7	50.75	8.994	19	-0.98	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0433	327.0	3.991	350.7	50.75	8.994	19	-0.47	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0035	336.5	5.000	350.7	50.75	8.994	19	-0.28	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0423	348.9	3.200	350.7	50.75	8.994	19	-0.03	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0515	351.8	0.2520	350.7	50.75	8.994	19	0.02	289.34	0
289	Acid Soluble Molybdenum (30ppm)	0515	351.9	24.11	350.7	50.75	8.994	19	0.02	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0102	353.4	0.5920	350.7	50.75	8.994	19	0.05	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0494	360.7	7.918	350.7	50.75	8.994	19	0.20	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0096	365.8	9.800	350.7	50.75	8.994	19	0.30	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0220	380.5	1.000	350.7	50.75	8.994	19	0.59	289.99	0
289	Acid Soluble Molybdenum (30ppm)	0220	382.0	10.00	350.7	50.75	8.994	19	0.62	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0095	400.0	0.0000	350.7	50.75	8.994	19	0.97	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0037	409.5	32.81	350.7	50.75	8.994	19	1.16	289.33	0
289	Acid Soluble Molybdenum (30ppm)	0368	431.9	7.990	350.7	50.75	8.994	19	1.60	289.30	0
289	Acid Soluble Molybdenum (30ppm)	0481	573.5	24.90	350.7	50.75	8.994	19	4.39	289.99	0
289	Acid Soluble Molybdenum (30ppm)	0444	240.0*	60.00	350.7	50.75	8.994	19	-2.18	289.30	1
291	Acid Soluble Nickel (ppm)	0512	17.86	6.960	153.1	25.22	7.281	20	-5.36	291.99	0
291	Acid Soluble Nickel (ppm)	0501	85.50	1.000	153.1	25.22	7.281	20	-2.68	291.34	0
291	Acid Soluble Nickel (ppm)	0482	119.0	4.000	153.1	25.22	7.281	20	-1.35	291.30	0
291	Acid Soluble Nickel (ppm)	0027	128.5	0.0320	153.1	25.22	7.281	20	-0.97	291.30	0
291	Acid Soluble Nickel (ppm)	0394	129.0	6.000	153.1	25.22	7.281	20	-0.96	291.30	0
291	Acid Soluble Nickel (ppm)	0230	133.5	3.000	153.1	25.22	7.281	20	-0.78	291.30	0
291	Acid Soluble Nickel (ppm)	0035	139.5	15.00	153.1	25.22	7.281	20	-0.54	291.30	0
291	Acid Soluble Nickel (ppm)	0102	151.4	3.165	153.1	25.22	7.281	20	-0.07	291.30	0
291	Acid Soluble Nickel (ppm)	0506	154.0	14.00	153.1	25.22	7.281	20	0.04	291.99	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				
291	Acid Soluble Nickel (ppm)	0515	154.9	2.171	153.1	25.22	7.281	20	0.07	291.34	0
291	Acid Soluble Nickel (ppm)	0444	160.5	15.00	153.1	25.22	7.281	20	0.29	291.30	0
291	Acid Soluble Nickel (ppm)	0515	161.9	9.589	153.1	25.22	7.281	20	0.35	291.33	0
291	Acid Soluble Nickel (ppm)	0095	164.5	17.00	153.1	25.22	7.281	20	0.45	291.30	0
291	Acid Soluble Nickel (ppm)	0136	166.0	2.000	153.1	25.22	7.281	20	0.51	291.00	0
291	Acid Soluble Nickel (ppm)	0096	170.1	5.400	153.1	25.22	7.281	20	0.67	291.30	0
291	Acid Soluble Nickel (ppm)	0494	170.4	8.413	153.1	25.22	7.281	20	0.69	291.33	0
291	Acid Soluble Nickel (ppm)	0368	174.9	11.53	153.1	25.22	7.281	20	0.86	291.30	0
291	Acid Soluble Nickel (ppm)	0220	175.5	9.000	153.1	25.22	7.281	20	0.89	291.99	0
291	Acid Soluble Nickel (ppm)	0037	183.6	10.36	153.1	25.22	7.281	20	1.21	291.33	0
291	Acid Soluble Nickel (ppm)	0481	187.5	2.000	153.1	25.22	7.281	20	1.36	291.99	0
301	Acid Soluble Selenium (ppm)	0501	0.2300	0.0400	0.5575	0.4632	0.1150	2	-0.71	301.30	0
301	Acid Soluble Selenium (ppm)	0368	0.8850	0.1900	0.5575	0.4632	0.1150	2	0.71	301.30	0
301	Acid Soluble Selenium (ppm)	0230	0.0000	0.0000	0.5575	0.4632	0.1150	2	-1.20	301.30	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	0.5575	0.4632	0.1150	2	-1.20	301.33	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	0.5575	0.4632	0.1150	2	-1.20	301.34	4
311	Sodium (%)	0423	0.0295	0.0010	0.2999	0.0292	0.0075	10	-9.26	311.33	0
311	Sodium (%)	0494	0.2675	0.0018	0.2999	0.0292	0.0075	10	-1.11	311.33	0
311	Sodium (%)	0482	0.2850	0.0100	0.2999	0.0292	0.0075	10	-0.51	311.99	0
311	Sodium (%)	0501	0.2900	0.0000	0.2999	0.0292	0.0075	10	-0.34	311.99	0
311	Sodium (%)	0035	0.2970	0.0100	0.2999	0.0292	0.0075	10	-0.10	311.33	0
311	Sodium (%)	0102	0.3020	0.0020	0.2999	0.0292	0.0075	10	0.07	311.33	0
311	Sodium (%)	0096	0.3050	0.0100	0.2999	0.0292	0.0075	10	0.18	311.99	0
311	Sodium (%)	0510	0.3200	0.0200	0.2999	0.0292	0.0075	10	0.69	311.30	0
311	Sodium (%)	0025	0.3334	0.0112	0.2999	0.0292	0.0075	10	1.15	311.33	0
311	Sodium (%)	0354	0.4525	0.0090	0.2999	0.0292	0.0075	10	5.23	311.99	0
321	Acid Soluble Zinc (0.5%)	0501	0.4050*	0.0300	0.5827	0.0521	0.0383	57	-3.41	321.99	0
321	Acid Soluble Zinc (0.5%)	0498	0.4750*	0.0100	0.5827	0.0521	0.0383	57	-2.07	321.00	0
321	Acid Soluble Zinc (0.5%)	0515	0.4970*	0.0476	0.5827	0.0521	0.0383	57	-1.65	321.99	0
321	Acid Soluble Zinc (0.5%)	0095	0.5200	0.0600	0.5827	0.0521	0.0383	57	-1.20	321.30	0
321	Acid Soluble Zinc (0.5%)	0428	0.5234	0.0084	0.5827	0.0521	0.0383	57	-1.14	321.00	0
321	Acid Soluble Zinc (0.5%)	0072	0.5250	0.0500	0.5827	0.0521	0.0383	57	-1.11	321.30	0
321	Acid Soluble Zinc (0.5%)	0157	0.5290	0.0340	0.5827	0.0521	0.0383	57	-1.03	321.30	0
321	Acid Soluble Zinc (0.5%)	0482	0.5300	0.0200	0.5827	0.0521	0.0383	57	-1.01	321.30	0
321	Acid Soluble Zinc (0.5%)	0307	0.5315	0.0490	0.5827	0.0521	0.0383	57	-0.98	321.30	0
321	Acid Soluble Zinc (0.5%)	0494	0.5327	0.0399	0.5827	0.0521	0.0383	57	-0.96	321.33	0
321	Acid Soluble Zinc (0.5%)	0117	0.5340	0.0300	0.5827	0.0521	0.0383	57	-0.93	321.03	0
321	Acid Soluble Zinc (0.5%)	0486	0.5350	0.0300	0.5827	0.0521	0.0383	57	-0.92	321.33	0
321	Acid Soluble Zinc (0.5%)	0131	0.5404	0.0068	0.5827	0.0521	0.0383	57	-0.81	321.30	0
321	Acid Soluble Zinc (0.5%)	0220	0.5450	0.0700	0.5827	0.0521	0.0383	57	-0.72	321.99	0
321	Acid Soluble Zinc (0.5%)	0035	0.5458	0.0900	0.5827	0.0521	0.0383	57	-0.71	321.30	0
321	Acid Soluble Zinc (0.5%)	0200	0.5500	0.0000	0.5827	0.0521	0.0383	57	-0.63	321.99	0
321	Acid Soluble Zinc (0.5%)	0042	0.5550	0.1100	0.5827	0.0521	0.0383	57	-0.53	321.99	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				
321	Acid Soluble Zinc (0.5%)	0025	0.5557	0.0397	0.5827	0.0521	0.0383	57	-0.52	321.33	0
321	Acid Soluble Zinc (0.5%)	0177	0.5566	0.0078	0.5827	0.0521	0.0383	57	-0.50	321.33	0
321	Acid Soluble Zinc (0.5%)	0515	0.5586	0.0619	0.5827	0.0521	0.0383	57	-0.46	321.33	0
321	Acid Soluble Zinc (0.5%)	0506	0.5600	0.0000	0.5827	0.0521	0.0383	57	-0.44	321.99	0
321	Acid Soluble Zinc (0.5%)	0029	0.5642	0.0011	0.5827	0.0521	0.0383	57	-0.36	321.00	0
321	Acid Soluble Zinc (0.5%)	0481	0.5700	0.0000	0.5827	0.0521	0.0383	57	-0.24	321.00	0
321	Acid Soluble Zinc (0.5%)	0234	0.5700	0.0200	0.5827	0.0521	0.0383	57	-0.24	321.30	0
321	Acid Soluble Zinc (0.5%)	0291	0.5700	0.0200	0.5827	0.0521	0.0383	57	-0.24	321.30	0
321	Acid Soluble Zinc (0.5%)	0292	0.5700	0.0200	0.5827	0.0521	0.0383	57	-0.24	321.30	0
321	Acid Soluble Zinc (0.5%)	0230	0.5730	0.0940	0.5827	0.0521	0.0383	57	-0.19	321.30	0
321	Acid Soluble Zinc (0.5%)	0389	0.5790	0.0000	0.5827	0.0521	0.0383	57	-0.07	321.99	0
321	Acid Soluble Zinc (0.5%)	0444	0.5800	0.0400	0.5827	0.0521	0.0383	57	-0.05	321.30	0
321	Acid Soluble Zinc (0.5%)	0422	0.5800	0.0400	0.5827	0.0521	0.0383	57	-0.05	321.33	0
321	Acid Soluble Zinc (0.5%)	0354	0.5815	0.0110	0.5827	0.0521	0.0383	57	-0.02	321.30	0
321	Acid Soluble Zinc (0.5%)	0023	0.5825	0.0110	0.5827	0.0521	0.0383	57	0.00	321.33	0
321	Acid Soluble Zinc (0.5%)	0368	0.5868	0.0134	0.5827	0.0521	0.0383	57	0.08	321.30	0
321	Acid Soluble Zinc (0.5%)	0485	0.5875	0.0290	0.5827	0.0521	0.0383	57	0.09	321.00	0
321	Acid Soluble Zinc (0.5%)	0420	0.5890	0.0581	0.5827	0.0521	0.0383	57	0.12	321.30	0
321	Acid Soluble Zinc (0.5%)	0394	0.5940	0.0540	0.5827	0.0521	0.0383	57	0.22	321.32	0
321	Acid Soluble Zinc (0.5%)	0433	0.5966	0.0006	0.5827	0.0521	0.0383	57	0.27	321.30	0
321	Acid Soluble Zinc (0.5%)	0487	0.6050	0.0160	0.5827	0.0521	0.0383	57	0.43	321.99	0
321	Acid Soluble Zinc (0.5%)	0421	0.6055	0.0050	0.5827	0.0521	0.0383	57	0.44	321.33	0
321	Acid Soluble Zinc (0.5%)	0360	0.6065	0.0210	0.5827	0.0521	0.0383	57	0.46	321.30	0
321	Acid Soluble Zinc (0.5%)	0043	0.6075	0.0150	0.5827	0.0521	0.0383	57	0.48	321.00	0
321	Acid Soluble Zinc (0.5%)	0402	0.6100	0.0800	0.5827	0.0521	0.0383	57	0.52	321.30	0
321	Acid Soluble Zinc (0.5%)	0472	0.6100	0.0000	0.5827	0.0521	0.0383	57	0.52	321.30	0
321	Acid Soluble Zinc (0.5%)	0037	0.6195	0.0150	0.5827	0.0521	0.0383	57	0.71	321.33	0
321	Acid Soluble Zinc (0.5%)	0090	0.6270	0.0060	0.5827	0.0521	0.0383	57	0.85	321.30	0
321	Acid Soluble Zinc (0.5%)	0027	0.6315	0.0650	0.5827	0.0521	0.0383	57	0.94	321.99	0
321	Acid Soluble Zinc (0.5%)	0371	0.6380	0.0680	0.5827	0.0521	0.0383	57	1.06	321.30	0
321	Acid Soluble Zinc (0.5%)	0457	0.6420	0.0060	0.5827	0.0521	0.0383	57	1.14	321.00	0
321	Acid Soluble Zinc (0.5%)	0040	0.6480	0.0860	0.5827	0.0521	0.0383	57	1.25	321.00	0
321	Acid Soluble Zinc (0.5%)	0231	0.6550	0.0100	0.5827	0.0521	0.0383	57	1.39	321.30	0
321	Acid Soluble Zinc (0.5%)	0102	0.6565	0.0830	0.5827	0.0521	0.0383	57	1.42	321.30	0
321	Acid Soluble Zinc (0.5%)	0114	0.6650	0.0300	0.5827	0.0521	0.0383	57	1.58	321.30	0
321	Acid Soluble Zinc (0.5%)	0055	0.6739	0.0083	0.5827	0.0521	0.0383	57	1.75	321.30	0
321	Acid Soluble Zinc (0.5%)	0096	0.6844	0.0121	0.5827	0.0521	0.0383	57	1.95	321.30	0
321	Acid Soluble Zinc (0.5%)	0423	0.6895	0.0110	0.5827	0.0521	0.0383	57	2.05	321.32	0
321	Acid Soluble Zinc (0.5%)	0512	0.7575	0.1310	0.5827	0.0521	0.0383	57	3.36	321.99	0
321	Acid Soluble Zinc (0.5%)	0041	0.7650	0.3060	0.5827	0.0521	0.0383	57	3.50	321.30	0
321	Acid Soluble Zinc (0.5%)	0483	7,180	320.0	0.5827	0.0521	0.0383	57	137862.96	321.30	2
325	Water Soluble Zinc (%)	0230	0.1000	0.0000	0.2330	0.1290	0.0153	7	-1.03	325.30	0
325	Water Soluble Zinc (%)	0394	0.1400	0.0080	0.2330	0.1290	0.0153	7	-0.72	325.30	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				
325	Water Soluble Zinc (%)	0220	0.1630	0.0240	0.2330	0.1290	0.0153	7	-0.54	325.30	0
325	Water Soluble Zinc (%)	0368	0.2303	0.0092	0.2330	0.1290	0.0153	7	-0.02	325.30	0
325	Water Soluble Zinc (%)	0444	0.2350	0.0500	0.2330	0.1290	0.0153	7	0.02	325.30	0
325	Water Soluble Zinc (%)	0027	0.3480	0.0060	0.2330	0.1290	0.0153	7	0.89	325.00	0
325	Water Soluble Zinc (%)	0501	0.4150	0.0100	0.2330	0.1290	0.0153	7	1.41	325.30	0

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier and a 4 flag indicates rejected due to 0 value submitted. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an astrix indicates that the value is lower than the Analyte value less the IA. Method or Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.