

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 160711

12-12-12 Micros

Statistical Summary

Analytes: 36

Labs Reporting: 86

Issue Date : 08/31/2016

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 (%)	23	22	12.02	0.3141	12.02		0.3147	0.0839	2.62%		0.0832	2.75%
009	Ammoniacal Plus Nitrate Nitrogen (%)	3	3	11.97	0.1916	11.97		0.1916	0.1383	1.60%		0.0500	2.75%
010	Total Nitrogen (12%)	75	74	12.40	0.2158	12.41	0.6141	0.1470	0.0214	1.18%	2.47%	0.1080	2.74%
020	Total Phosphorus as P2O5 (%)	51	50	12.38	0.5426	12.38		0.4251	0.0751	3.43%		0.1739	2.74%
030	Citrate Insoluble Phosphorus as P2O5 (%)	1		0.0900									
040	Indirect Available Phosphorus as P2O5 (12%)	2	2	12.35	0.2828								
041	Direct Available Phosphorus as P2O5 (12%)	46	45	12.42	0.5502	12.39	0.6920	0.3135	0.0584	2.53%	2.79%	0.2101	2.74%
042	Water Soluble Orthophosphate as P2O5 (%)	1		10.33									
048	Water Soluble Phosphorus as P2O5 (%)	6	5	10.58	0.5236	10.58		0.5236	0.2927	4.95%		0.0640	2.80%
050	Soluble Potassium as K2O (12%)	87	85	12.24	0.4295	12.26	0.8004	0.3697	0.0501	3.02%	3.26%	0.1682	2.74%
060	Water (Free) (%)	7	7	1.469	0.6875	1.469		0.7796	0.3683	53.08%		0.0428	3.77%
101	Acid Soluble Calcium (%)	16	15	0.3341	0.0147	0.3344		0.0159	0.0051	4.76%		0.0189	4.72%
121	Acid Soluble Magnesium (%)	21	20	0.3210	0.0168	0.3208		0.0172	0.0048	5.35%		0.0115	4.75%
143	Elemental Sulfur (%)	4	4	12.73	0.8816	12.73		0.8816	0.5510	6.93%		0.2750	2.73%
145	Sulfate Sulfur, HCl soluble (%)	7	7	11.86	1.474	11.97		1.397	0.6598	11.66%		0.1823	2.75%
148	Total Sulfur (9%)	39	38	12.27	1.046	12.42	0.8210	0.7564	0.1534	6.09%	3.31%	0.2192	2.74%
149	Sulfur - HNO3 soluble (%)	4	4	12.77	0.6628	12.77		0.6628	0.4143	5.19%		0.0481	2.73%
151	Acid Soluble Arsenic (ppm)	16	16	235.6	27.38	237.2		27.62	8.630	11.64%		4.223	7.02%
165	Acid Soluble Boron (0.1%)	43	41	0.1392	0.1608	0.1065	0.0190	0.0090	0.0018	8.48%	8.91%	0.0248	5.60%
171	Water Soluble Boron (%)	4	4	0.1063	0.0126	0.1063		0.0125	0.0078	11.81%		0.0070	5.60%
181	Acid Soluble Cadmium (ppm)	23	23	232.5	29.24	234.6		25.97	6.768	11.07%		7.914	7.04%
190	Water Soluble Chlorine (%)	1		9.600									
191	Acid Soluble Chromium (ppm)	19	19	53.02	10.19	51.58		5.242	1.503	10.16%		1.743	8.84%
202	Acid Soluble Cobalt (ppm)	17	15	2.261	0.8043	2.420		0.5044	0.1628	20.84%		0.1678	14.00%
221	Acid Soluble Copper (0.1%)	57	55	0.1766	0.0159	0.1774	0.0227	0.0139	0.0023	7.83%	6.41%	0.0064	5.19%
241	Acid Soluble Iron (0.5%)	54	52	0.8996	0.0996	0.9097	0.0960	0.0566	0.0098	6.23%	5.27%	0.0201	4.06%
251	Acid Soluble Lead (ppm)	19	18	1,055	90.42	1,067		73.60	21.68	6.90%		21.06	5.60%
261	Acid Soluble Manganese (0.4%)	54	52	0.4191	0.0256	0.4180	0.0468	0.0227	0.0039	5.42%	5.60%	0.0083	4.56%
271	Water Soluble Manganese (%)	1		0.2050									
281	Acid Soluble Mercury (ppm)	4	4	20.88	4.998	20.88		4.998	3.124	23.94%		0.3763	10.13%
289	Acid Soluble Molybdenum (250ppm)	22	21	9.253	1.527	9.214	3.7642	1.427	0.3892	15.49%	20.43%	0.4445	11.45%

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
291	Acid Soluble Nickel (ppm)	18	17	36.83	4.719	36.87		5.193	1.574	14.08%		2.677	9.29%
301	Acid Soluble Selenium (ppm)	5	3	3.623	3.141	3.623		3.141	2.267	86.68%		0.2733	13.18%
311	Sodium (%)	7	7	0.2778	0.0554	0.2881		0.0362	0.0171	12.55%		0.0053	4.82%
321	Acid Soluble Zinc (2%)	56	55	2.017	0.1074	2.013	0.2063	0.1101	0.0186	5.47%	5.12%	0.0573	3.60%
325	Water Soluble Zinc (%)	4	4	1.758	0.4184	1.758		0.4184	0.2615	23.81%		0.0600	3.67%

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Analytes: 36

Sample # 160711

Lab Values

Labs Reporting: 86

12-12-12 Micros

Issue Date : 08/31/2016

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 (%)	0511	11.39	0.0000	12.02	0.3147	0.0832	22	-2.01	001.99	0
001	Ammoniacal Nitrogen (%)	0513	11.56	0.1600	12.02	0.3147	0.0832	22	-1.47	001.10	0
001	Ammoniacal Nitrogen (%)	0368	11.65	0.0300	12.02	0.3147	0.0832	22	-1.20	001.99	0
001	Ammoniacal Nitrogen (%)	0420	11.72	0.1000	12.02	0.3147	0.0832	22	-0.96	001.99	0
001	Ammoniacal Nitrogen (%)	0389	11.80	0.3500	12.02	0.3147	0.0832	22	-0.72	001.10	0
001	Ammoniacal Nitrogen (%)	0513	11.87	0.0600	12.02	0.3147	0.0832	22	-0.48	001.99	0
001	Ammoniacal Nitrogen (%)	0309	11.88	0.0700	12.02	0.3147	0.0832	22	-0.47	001.10	0
001	Ammoniacal Nitrogen (%)	0231	11.89	0.1500	12.02	0.3147	0.0832	22	-0.43	001.10	0
001	Ammoniacal Nitrogen (%)	0493	11.90	0.1000	12.02	0.3147	0.0832	22	-0.39	001.99	0
001	Ammoniacal Nitrogen (%)	0027	11.93	0.0750	12.02	0.3147	0.0832	22	-0.29	001.99	0
001	Ammoniacal Nitrogen (%)	0510	12.00	0.0053	12.02	0.3147	0.0832	22	-0.06	001.99	0
001	Ammoniacal Nitrogen (%)	0230	12.05	0.1000	12.02	0.3147	0.0832	22	0.09	001.10	0
001	Ammoniacal Nitrogen (%)	0520	12.08	0.0000	12.02	0.3147	0.0832	22	0.19	001.99	0
001	Ammoniacal Nitrogen (%)	0220	12.11	0.0700	12.02	0.3147	0.0832	22	0.27	001.99	0
001	Ammoniacal Nitrogen (%)	0522	12.16	0.0100	12.02	0.3147	0.0832	22	0.42	001.99	0
001	Ammoniacal Nitrogen (%)	0405	12.17	0.0600	12.02	0.3147	0.0832	22	0.47	001.10	0
001	Ammoniacal Nitrogen (%)	0456	12.20	0.2000	12.02	0.3147	0.0832	22	0.57	001.10	0
001	Ammoniacal Nitrogen (%)	0508	12.33	0.0900	12.02	0.3147	0.0832	22	0.96	001.99	0
001	Ammoniacal Nitrogen (%)	0487	12.33	0.0000	12.02	0.3147	0.0832	22	0.98	001.99	0
001	Ammoniacal Nitrogen (%)	0498	12.35	0.1000	12.02	0.3147	0.0832	22	1.04	001.10	0
001	Ammoniacal Nitrogen (%)	0096	12.48	0.1000	12.02	0.3147	0.0832	22	1.46	001.99	0
001	Ammoniacal Nitrogen (%)	0444	12.73	0.0000	12.02	0.3147	0.0832	22	2.25	001.10	0
001	Ammoniacal Nitrogen (%)	0506	12.30	0.4000	12.02	0.3147	0.0832	22	0.89	001.99	1
009	Ammoniacal Plus Nitrate Nitrogen (%)	0090	11.75	0.0700	11.97	0.1916	0.0500	3	-1.15	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0518	12.06	0.0500	11.97	0.1916	0.0500	3	0.47	009.99	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0169	12.10	0.0300	11.97	0.1916	0.0500	3	0.68	009.10	0
010	Total Nitrogen (12%)	0521	11.43*	0.0283	12.41	0.1470	0.1080	74	-6.69	010.60	0
010	Total Nitrogen (12%)	0513	11.91	0.0600	12.41	0.1470	0.1080	74	-3.41	010.99	0
010	Total Nitrogen (12%)	0472	11.99	0.0100	12.41	0.1470	0.1080	74	-2.90	010.60	0
010	Total Nitrogen (12%)	0117	12.00	0.6000	12.41	0.1470	0.1080	74	-2.79	010.60	0
010	Total Nitrogen (12%)	0309	12.05	0.1300	12.41	0.1470	0.1080	74	-2.49	010.11	0
010	Total Nitrogen (12%)	0500	12.08	0.0000	12.41	0.1470	0.1080	74	-2.25	010.11	0
010	Total Nitrogen (12%)	0356	12.17	0.0300	12.41	0.1470	0.1080	74	-1.67	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 (12%)	0041	12.20	0.0200	12.41	0.1470	0.1080	74	-1.43	010.60	0
010	Total Nitrogen (12%)	0420	12.23	0.0700	12.41	0.1470	0.1080	74	-1.26	010.99	0
010	Total Nitrogen (12%)	0292	12.23	0.0100	12.41	0.1470	0.1080	74	-1.26	010.60	0
010	Total Nitrogen (12%)	0423	12.23	0.0300	12.41	0.1470	0.1080	74	-1.26	010.60	0
010	Total Nitrogen (12%)	0354	12.24	0.0050	12.41	0.1470	0.1080	74	-1.17	010.60	0
010	Total Nitrogen (12%)	0368	12.25	0.2280	12.41	0.1470	0.1080	74	-1.10	010.60	0
010	Total Nitrogen (12%)	0027	12.30	0.0000	12.41	0.1470	0.1080	74	-0.75	010.60	0
010	Total Nitrogen (12%)	0136	12.30	0.1600	12.41	0.1470	0.1080	74	-0.75	010.60	0
010	Total Nitrogen (12%)	0506	12.30	0.4000	12.41	0.1470	0.1080	74	-0.75	010.99	0
010	Total Nitrogen (12%)	0405	12.31	0.0900	12.41	0.1470	0.1080	74	-0.72	010.60	0
010	Total Nitrogen (12%)	0291	12.32	0.0100	12.41	0.1470	0.1080	74	-0.65	010.60	0
010	Total Nitrogen (12%)	0042	12.33	0.1100	12.41	0.1470	0.1080	74	-0.58	010.60	0
010	Total Nitrogen (12%)	0487	12.33	0.0000	12.41	0.1470	0.1080	74	-0.55	010.99	0
010	Total Nitrogen (12%)	0105	12.35	0.1100	12.41	0.1470	0.1080	74	-0.45	010.11	0
010	Total Nitrogen (12%)	0451	12.35	0.0500	12.41	0.1470	0.1080	74	-0.45	010.60	0
010	Total Nitrogen (12%)	0389	12.35	0.1400	12.41	0.1470	0.1080	74	-0.41	010.60	0
010	Total Nitrogen (12%)	0498	12.35	0.1000	12.41	0.1470	0.1080	74	-0.41	010.12	0
010	Total Nitrogen (12%)	0406	12.36	0.1300	12.41	0.1470	0.1080	74	-0.38	010.60	0
010	Total Nitrogen (12%)	0421	12.36	0.2900	12.41	0.1470	0.1080	74	-0.38	010.60	0
010	Total Nitrogen (12%)	0524	12.36	0.0600	12.41	0.1470	0.1080	74	-0.35	010.99	0
010	Total Nitrogen (12%)	0028	12.37	0.0500	12.41	0.1470	0.1080	74	-0.31	010.60	0
010	Total Nitrogen (12%)	0520	12.37	0.0200	12.41	0.1470	0.1080	74	-0.28	010.99	0
010	Total Nitrogen (12%)	0420	12.39	0.0400	12.41	0.1470	0.1080	74	-0.14	010.60	0
010	Total Nitrogen (12%)	0486	12.39	0.3600	12.41	0.1470	0.1080	74	-0.14	010.60	0
010	Total Nitrogen (12%)	0452	12.40	0.0300	12.41	0.1470	0.1080	74	-0.11	010.60	0
010	Total Nitrogen (12%)	0523	12.40	0.0000	12.41	0.1470	0.1080	74	-0.07	010.60	0
010	Total Nitrogen (12%)	0508	12.40	0.0000	12.41	0.1470	0.1080	74	-0.07	010.99	0
010	Total Nitrogen (12%)	0086	12.40	0.0520	12.41	0.1470	0.1080	74	-0.06	010.60	0
010	Total Nitrogen (12%)	0360	12.41	0.1100	12.41	0.1470	0.1080	74	-0.04	010.60	0
010	Total Nitrogen (12%)	0377	12.41	0.0300	12.41	0.1470	0.1080	74	-0.04	010.60	0
010	Total Nitrogen (12%)	0390	12.41	0.1300	12.41	0.1470	0.1080	74	-0.04	010.60	0
010	Total Nitrogen (12%)	0220	12.42	0.0500	12.41	0.1470	0.1080	74	0.03	010.11	0
010	Total Nitrogen (12%)	0234	12.42	0.0400	12.41	0.1470	0.1080	74	0.06	010.60	0
010	Total Nitrogen (12%)	0105	12.43	0.0090	12.41	0.1470	0.1080	74	0.13	010.60	0
010	Total Nitrogen (12%)	0457	12.43	0.0800	12.41	0.1470	0.1080	74	0.15	010.60	0
010	Total Nitrogen (12%)	0025	12.44	0.0100	12.41	0.1470	0.1080	74	0.16	010.60	0
010	Total Nitrogen (12%)	0157	12.45	0.1000	12.41	0.1470	0.1080	74	0.27	010.60	0
010	Total Nitrogen (12%)	0324	12.45	0.1000	12.41	0.1470	0.1080	74	0.27	010.60	0
010	Total Nitrogen (12%)	0482	12.45	0.1000	12.41	0.1470	0.1080	74	0.27	010.60	0
010	Total Nitrogen (12%)	0231	12.46	0.0700	12.41	0.1470	0.1080	74	0.30	010.60	0
010	Total Nitrogen (12%)	0043	12.47	0.1300	12.41	0.1470	0.1080	74	0.37	010.60	0
010	Total Nitrogen (12%)	0494	12.47	0.0500	12.41	0.1470	0.1080	74	0.37	010.60	0
010	Total Nitrogen (12%)	0049	12.48	0.0100	12.41	0.1470	0.1080	74	0.44	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 (12%)	0511	12.48	0.0000	12.41	0.1470	0.1080	74	0.47	010.60	0
010	Total Nitrogen (12%)	0230	12.50	0.2000	12.41	0.1470	0.1080	74	0.61	010.60	0
010	Total Nitrogen (12%)	0325	12.50	0.2000	12.41	0.1470	0.1080	74	0.61	010.60	0
010	Total Nitrogen (12%)	0402	12.51	0.0900	12.41	0.1470	0.1080	74	0.64	010.60	0
010	Total Nitrogen (12%)	0035	12.52	0.0300	12.41	0.1470	0.1080	74	0.71	010.60	0
010	Total Nitrogen (12%)	0070	12.52	0.0600	12.41	0.1470	0.1080	74	0.74	010.60	0
010	Total Nitrogen (12%)	0096	12.54	0.0600	12.41	0.1470	0.1080	74	0.88	010.60	0
010	Total Nitrogen (12%)	0422	12.54	0.2600	12.41	0.1470	0.1080	74	0.88	010.60	0
010	Total Nitrogen (12%)	0007	12.55	0.3000	12.41	0.1470	0.1080	74	0.95	010.60	0
010	Total Nitrogen (12%)	0040	12.55	0.3000	12.41	0.1470	0.1080	74	0.95	010.60	0
010	Total Nitrogen (12%)	0493	12.55	0.1000	12.41	0.1470	0.1080	74	0.95	010.99	0
010	Total Nitrogen (12%)	0510	12.55	0.0005	12.41	0.1470	0.1080	74	0.97	010.11	0
010	Total Nitrogen (12%)	0073	12.56	0.0100	12.41	0.1470	0.1080	74	0.98	010.60	0
010	Total Nitrogen (12%)	0177	12.56	0.1700	12.41	0.1470	0.1080	74	0.98	010.60	0
010	Total Nitrogen (12%)	0131	12.57	0.4200	12.41	0.1470	0.1080	74	1.08	010.60	0
010	Total Nitrogen (12%)	0055	12.58	0.1100	12.41	0.1470	0.1080	74	1.12	010.60	0
010	Total Nitrogen (12%)	0102	12.58	0.2400	12.41	0.1470	0.1080	74	1.15	010.60	0
010	Total Nitrogen (12%)	0095	12.59	0.2400	12.41	0.1470	0.1080	74	1.22	010.60	0
010	Total Nitrogen (12%)	0029	12.60	0.0700	12.41	0.1470	0.1080	74	1.25	010.60	0
010	Total Nitrogen (12%)	0443	12.60	0.0000	12.41	0.1470	0.1080	74	1.29	010.60	0
010	Total Nitrogen (12%)	0516	12.60	0.0000	12.41	0.1470	0.1080	74	1.29	010.60	0
010	Total Nitrogen (12%)	0307	12.62	0.4100	12.41	0.1470	0.1080	74	1.39	010.60	0
010	Total Nitrogen (12%)	0483	12.67	0.0190	12.41	0.1470	0.1080	74	1.77	010.60	0
010	Total Nitrogen (12%)	0260	13.24	0.2600	12.41	0.1470	0.1080	74	5.64	010.60	0
010	Total Nitrogen (12%)	0023	6.233*	12.47	12.41	0.1470	0.1080	74		010.60	4
020	Total Phosphorus as P2O5 (%)	0457	10.88	0.3200	12.38	0.4251	0.1739	50	-3.53	020.20	0
020	Total Phosphorus as P2O5 (%)	0498	11.15	0.1000	12.38	0.4251	0.1739	50	-2.90	020.20	0
020	Total Phosphorus as P2O5 (%)	0169	11.23	0.0200	12.38	0.4251	0.1739	50	-2.71	020.20	0
020	Total Phosphorus as P2O5 (%)	0422	11.61	0.5000	12.38	0.4251	0.1739	50	-1.82	020.50	0
020	Total Phosphorus as P2O5 (%)	0521	11.76	0.0000	12.38	0.4251	0.1739	50	-1.47	020.50	0
020	Total Phosphorus as P2O5 (%)	0389	11.80	0.0800	12.38	0.4251	0.1739	50	-1.37	020.50	0
020	Total Phosphorus as P2O5 (%)	0523	11.80	0.0000	12.38	0.4251	0.1739	50	-1.37	020.50	0
020	Total Phosphorus as P2O5 (%)	0035	11.81	0.9800	12.38	0.4251	0.1739	50	-1.35	020.40	0
020	Total Phosphorus as P2O5 (%)	0300	11.90	0.0200	12.38	0.4251	0.1739	50	-1.13	020.50	0
020	Total Phosphorus as P2O5 (%)	0482	12.00	0.4000	12.38	0.4251	0.1739	50	-0.90	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	12.01	0.0100	12.38	0.4251	0.1739	50	-0.89	020.50	0
020	Total Phosphorus as P2O5 (%)	0506	12.15	0.3000	12.38	0.4251	0.1739	50	-0.55	020.20	0
020	Total Phosphorus as P2O5 (%)	0420	12.20	0.2700	12.38	0.4251	0.1739	50	-0.44	020.20	0
020	Total Phosphorus as P2O5 (%)	0157	12.20	0.2000	12.38	0.4251	0.1739	50	-0.43	020.50	0
020	Total Phosphorus as P2O5 (%)	0234	12.22	0.0400	12.38	0.4251	0.1739	50	-0.38	020.20	0
020	Total Phosphorus as P2O5 (%)	0356	12.22	0.0400	12.38	0.4251	0.1739	50	-0.38	020.20	0
020	Total Phosphorus as P2O5 (%)	0042	12.24	0.3300	12.38	0.4251	0.1739	50	-0.35	020.40	0
020	Total Phosphorus as P2O5 (%)	0500	12.27	0.0200	12.38	0.4251	0.1739	50	-0.26	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 (%)	0444	12.34	0.1000	12.38	0.4251	0.1739	50	-0.10	020.50	0
020	Total Phosphorus as P2O5 (%)	0405	12.36	0.0000	12.38	0.4251	0.1739	50	-0.05	020.20	0
020	Total Phosphorus as P2O5 (%)	0421	12.40	0.0800	12.38	0.4251	0.1739	50	0.04	020.50	0
020	Total Phosphorus as P2O5 (%)	0027	12.41	0.2820	12.38	0.4251	0.1739	50	0.06	020.20	0
020	Total Phosphorus as P2O5 (%)	0443	12.42	0.0200	12.38	0.4251	0.1739	50	0.09	020.99	0
020	Total Phosphorus as P2O5 (%)	0433	12.42	0.0300	12.38	0.4251	0.1739	50	0.09	020.50	0
020	Total Phosphorus as P2O5 (%)	0105	12.43	0.0100	12.38	0.4251	0.1739	50	0.10	020.40	0
020	Total Phosphorus as P2O5 (%)	0493	12.45	0.1000	12.38	0.4251	0.1739	50	0.16	020.10	0
020	Total Phosphorus as P2O5 (%)	0456	12.45	0.1000	12.38	0.4251	0.1739	50	0.16	020.40	0
020	Total Phosphorus as P2O5 (%)	0231	12.47	0.0200	12.38	0.4251	0.1739	50	0.21	020.20	0
020	Total Phosphorus as P2O5 (%)	0513	12.48	0.0500	12.38	0.4251	0.1739	50	0.22	020.99	0
020	Total Phosphorus as P2O5 (%)	0090	12.50	0.0700	12.38	0.4251	0.1739	50	0.27	020.10	0
020	Total Phosphorus as P2O5 (%)	0402	12.50	0.0800	12.38	0.4251	0.1739	50	0.28	020.50	0
020	Total Phosphorus as P2O5 (%)	0105	12.51	0.0500	12.38	0.4251	0.1739	50	0.29	020.10	0
020	Total Phosphorus as P2O5 (%)	0508	12.52	0.0000	12.38	0.4251	0.1739	50	0.32	020.50	0
020	Total Phosphorus as P2O5 (%)	0510	12.54	0.0573	12.38	0.4251	0.1739	50	0.37	020.20	0
020	Total Phosphorus as P2O5 (%)	0157	12.55	0.3000	12.38	0.4251	0.1739	50	0.40	020.10	0
020	Total Phosphorus as P2O5 (%)	0309	12.56	0.1300	12.38	0.4251	0.1739	50	0.41	020.20	0
020	Total Phosphorus as P2O5 (%)	0406	12.56	0.5900	12.38	0.4251	0.1739	50	0.41	020.20	0
020	Total Phosphorus as P2O5 (%)	0428	12.58	0.6026	12.38	0.4251	0.1739	50	0.47	020.20	0
020	Total Phosphorus as P2O5 (%)	0368	12.60	0.3420	12.38	0.4251	0.1739	50	0.50	020.50	0
020	Total Phosphorus as P2O5 (%)	0096	12.64	0.0300	12.38	0.4251	0.1739	50	0.60	020.40	0
020	Total Phosphorus as P2O5 (%)	0292	12.66	0.0100	12.38	0.4251	0.1739	50	0.64	020.20	0
020	Total Phosphorus as P2O5 (%)	0516	12.71	0.0200	12.38	0.4251	0.1739	50	0.77	020.20	0
020	Total Phosphorus as P2O5 (%)	0324	12.80	0.0000	12.38	0.4251	0.1739	50	0.98	020.20	0
020	Total Phosphorus as P2O5 (%)	0423	12.80	0.0400	12.38	0.4251	0.1739	50	0.98	020.50	0
020	Total Phosphorus as P2O5 (%)	0522	12.85	0.0500	12.38	0.4251	0.1739	50	1.09	020.20	0
020	Total Phosphorus as P2O5 (%)	0444	13.04	0.2800	12.38	0.4251	0.1739	50	1.55	020.10	0
020	Total Phosphorus as P2O5 (%)	0451	13.08	0.5700	12.38	0.4251	0.1739	50	1.63	020.50	0
020	Total Phosphorus as P2O5 (%)	0390	13.43	0.4600	12.38	0.4251	0.1739	50	2.47	020.50	0
020	Total Phosphorus as P2O5 (%)	0307	13.44	0.4710	12.38	0.4251	0.1739	50	2.50	020.50	0
020	Total Phosphorus as P2O5 (%)	0483	13.92	0.1200	12.38	0.4251	0.1739	50	3.62	020.50	0
020	Total Phosphorus as P2O5 (%)	0260	13.01	2.190	12.38	0.4251	0.1739	50	1.47	020.50	1
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	0.0900	0.0000				1		030.40	0
040	Indirect Available Phosphorus as P2O5 (12%)	0487	12.15	0.1000				2		040.99	0
040	Indirect Available Phosphorus as P2O5 (12%)	0096	12.55	0.0200				2		040.40	0
041	Direct Available Phosphorus as P2O5 (12%)	0070	11.25*	0.1000	12.39	0.3135	0.2101	45	-3.65	041.50	0
041	Direct Available Phosphorus as P2O5 (12%)	0007	11.35*	0.3000	12.39	0.3135	0.2101	45	-3.33	041.50	0
041	Direct Available Phosphorus as P2O5 (12%)	0486	11.79	0.1900	12.39	0.3135	0.2101	45	-1.94	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0397	11.85	0.0430	12.39	0.3135	0.2101	45	-1.73	041.20	0
041	Direct Available Phosphorus as P2O5 (12%)	0397	11.85	0.0430	12.39	0.3135	0.2101	45	-1.73	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0511	11.87	0.0000	12.39	0.3135	0.2101	45	-1.67	041.51	0
041	Direct Available Phosphorus as P2O5 (12%)	0117	12.01	0.0200	12.39	0.3135	0.2101	45	-1.22	041.51	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 (12%)	0043	12.02	0.1400	12.39	0.3135	0.2101	45	-1.19	041.50	0
041	Direct Available Phosphorus as P2O5 (12%)	0518	12.04	0.0300	12.39	0.3135	0.2101	45	-1.14	041.99	0
041	Direct Available Phosphorus as P2O5 (12%)	0423	12.06	0.0700	12.39	0.3135	0.2101	45	-1.08	041.51	0
041	Direct Available Phosphorus as P2O5 (12%)	0360	12.22	0.0200	12.39	0.3135	0.2101	45	-0.55	041.51	0
041	Direct Available Phosphorus as P2O5 (12%)	0029	12.27	0.0300	12.39	0.3135	0.2101	45	-0.41	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0472	12.28	0.1300	12.39	0.3135	0.2101	45	-0.38	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0025	12.28	0.0480	12.39	0.3135	0.2101	45	-0.36	041.51	0
041	Direct Available Phosphorus as P2O5 (12%)	0095	12.29	0.5500	12.39	0.3135	0.2101	45	-0.35	041.40	0
041	Direct Available Phosphorus as P2O5 (12%)	0177	12.30	0.0145	12.39	0.3135	0.2101	45	-0.31	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0073	12.37	0.0200	12.39	0.3135	0.2101	45	-0.07	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0231	12.38	0.0600	12.39	0.3135	0.2101	45	-0.04	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0102	12.40	0.0000	12.39	0.3135	0.2101	45	0.02	041.10	0
041	Direct Available Phosphorus as P2O5 (12%)	0177	12.40	0.0186	12.39	0.3135	0.2101	45	0.03	041.10	0
041	Direct Available Phosphorus as P2O5 (12%)	0513	12.42	0.1900	12.39	0.3135	0.2101	45	0.07	041.11	0
041	Direct Available Phosphorus as P2O5 (12%)	0230	12.45	0.5000	12.39	0.3135	0.2101	45	0.18	041.99	0
041	Direct Available Phosphorus as P2O5 (12%)	0086	12.46	0.1191	12.39	0.3135	0.2101	45	0.23	041.10	0
041	Direct Available Phosphorus as P2O5 (12%)	0027	12.47	0.5440	12.39	0.3135	0.2101	45	0.25	041.20	0
041	Direct Available Phosphorus as P2O5 (12%)	0040	12.50	0.0000	12.39	0.3135	0.2101	45	0.34	041.10	0
041	Direct Available Phosphorus as P2O5 (12%)	0494	12.50	0.0200	12.39	0.3135	0.2101	45	0.34	041.10	0
041	Direct Available Phosphorus as P2O5 (12%)	0131	12.50	0.2200	12.39	0.3135	0.2101	45	0.34	041.40	0
041	Direct Available Phosphorus as P2O5 (12%)	0522	12.51	0.0700	12.39	0.3135	0.2101	45	0.36	041.21	0
041	Direct Available Phosphorus as P2O5 (12%)	0105	12.52	0.0000	12.39	0.3135	0.2101	45	0.40	041.11	0
041	Direct Available Phosphorus as P2O5 (12%)	0105	12.53	0.1300	12.39	0.3135	0.2101	45	0.42	041.99	0
041	Direct Available Phosphorus as P2O5 (12%)	0377	12.53	0.2200	12.39	0.3135	0.2101	45	0.44	041.51	0
041	Direct Available Phosphorus as P2O5 (12%)	0041	12.54	0.0800	12.39	0.3135	0.2101	45	0.47	041.10	0
041	Direct Available Phosphorus as P2O5 (12%)	0354	12.56	0.0370	12.39	0.3135	0.2101	45	0.54	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0220	12.58	0.0600	12.39	0.3135	0.2101	45	0.59	041.11	0
041	Direct Available Phosphorus as P2O5 (12%)	0136	12.60	0.0400	12.39	0.3135	0.2101	45	0.66	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0043	12.61	0.0300	12.39	0.3135	0.2101	45	0.67	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0291	12.61	0.0200	12.39	0.3135	0.2101	45	0.69	041.50	0
041	Direct Available Phosphorus as P2O5 (12%)	0105	12.62	0.0000	12.39	0.3135	0.2101	45	0.72	041.60	0
041	Direct Available Phosphorus as P2O5 (12%)	0049	12.66	0.0800	12.39	0.3135	0.2101	45	0.85	041.10	0
041	Direct Available Phosphorus as P2O5 (12%)	0028	12.68	0.0900	12.39	0.3135	0.2101	45	0.90	041.40	0
041	Direct Available Phosphorus as P2O5 (12%)	0055	12.70	0.0300	12.39	0.3135	0.2101	45	0.96	041.11	0
041	Direct Available Phosphorus as P2O5 (12%)	0452	12.78	0.0100	12.39	0.3135	0.2101	45	1.22	041.50	0
041	Direct Available Phosphorus as P2O5 (12%)	0494	12.84	0.3400	12.39	0.3135	0.2101	45	1.42	041.51	0
041	Direct Available Phosphorus as P2O5 (12%)	0325	13.65	1.500	12.39	0.3135	0.2101	45	4.01	041.50	0
041	Direct Available Phosphorus as P2O5 (12%)	0368	14.95	3.295	12.39	0.3135	0.2101	45	8.17	041.50	0
041	Direct Available Phosphorus as P2O5 (12%)	0023	6.275*	12.55	12.39	0.3135	0.2101	45		041.51	4
042	Water Soluble Orthophosphate as P2O5 (%)	0513	10.33	0.0900				1		042.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0520	9.780	0.0200	10.58	0.5236	0.0640	5	-1.34	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0309	10.41	0.0700	10.58	0.5236	0.0640	5	-0.30	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0405	10.78	0.0300	10.58	0.5236	0.0640	5	0.32	048.20	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				
048	Water Soluble Phosphorus as P2O5 (%)	0096	10.78	0.1000	10.58	0.5236	0.0640	5	0.33	048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0420	11.17	0.1000	10.58	0.5236	0.0640	5	0.98	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	11.07	0.4400	10.58	0.5236	0.0640	5	0.81	048.50	1
050	Soluble Potassium as K2O (12%)	0521	10.08*	0.0004	12.26	0.3697	0.1682	85	-5.90	050.99	0
050	Soluble Potassium as K2O (12%)	0422	11.31*	0.1100	12.26	0.3697	0.1682	85	-2.59	050.50	0
050	Soluble Potassium as K2O (12%)	0482	11.50	0.6000	12.26	0.3697	0.1682	85	-2.06	050.99	0
050	Soluble Potassium as K2O (12%)	0234	11.57	0.0200	12.26	0.3697	0.1682	85	-1.87	050.30	0
050	Soluble Potassium as K2O (12%)	0443	11.67	0.0700	12.26	0.3697	0.1682	85	-1.61	050.60	0
050	Soluble Potassium as K2O (12%)	0035	11.67	1.000	12.26	0.3697	0.1682	85	-1.60	050.61	0
050	Soluble Potassium as K2O (12%)	0055	11.68	0.0500	12.26	0.3697	0.1682	85	-1.59	050.50	0
050	Soluble Potassium as K2O (12%)	0506	11.75	0.3000	12.26	0.3697	0.1682	85	-1.38	050.99	0
050	Soluble Potassium as K2O (12%)	0356	11.79	0.3200	12.26	0.3697	0.1682	85	-1.27	050.30	0
050	Soluble Potassium as K2O (12%)	0511	11.80	0.0000	12.26	0.3697	0.1682	85	-1.25	050.51	0
050	Soluble Potassium as K2O (12%)	0325	11.85	0.3000	12.26	0.3697	0.1682	85	-1.11	050.99	0
050	Soluble Potassium as K2O (12%)	0523	11.85	0.1000	12.26	0.3697	0.1682	85	-1.11	050.99	0
050	Soluble Potassium as K2O (12%)	0508	11.86	0.3000	12.26	0.3697	0.1682	85	-1.08	050.99	0
050	Soluble Potassium as K2O (12%)	0402	11.87	0.0300	12.26	0.3697	0.1682	85	-1.07	050.99	0
050	Soluble Potassium as K2O (12%)	0456	11.90	0.2000	12.26	0.3697	0.1682	85	-0.98	050.61	0
050	Soluble Potassium as K2O (12%)	0096	11.96	0.0000	12.26	0.3697	0.1682	85	-0.81	050.99	0
050	Soluble Potassium as K2O (12%)	0073	11.97	0.1700	12.26	0.3697	0.1682	85	-0.80	050.00	0
050	Soluble Potassium as K2O (12%)	0500	12.00	0.0300	12.26	0.3697	0.1682	85	-0.72	050.99	0
050	Soluble Potassium as K2O (12%)	0157	12.00	0.2000	12.26	0.3697	0.1682	85	-0.71	050.50	0
050	Soluble Potassium as K2O (12%)	0007	12.00	0.2000	12.26	0.3697	0.1682	85	-0.71	050.51	0
050	Soluble Potassium as K2O (12%)	0518	12.00	0.0000	12.26	0.3697	0.1682	85	-0.71	050.99	0
050	Soluble Potassium as K2O (12%)	0043	12.01	0.0500	12.26	0.3697	0.1682	85	-0.69	050.99	0
050	Soluble Potassium as K2O (12%)	0428	12.02	0.7789	12.26	0.3697	0.1682	85	-0.65	050.30	0
050	Soluble Potassium as K2O (12%)	0472	12.03	0.2600	12.26	0.3697	0.1682	85	-0.63	050.31	0
050	Soluble Potassium as K2O (12%)	0457	12.08	0.3000	12.26	0.3697	0.1682	85	-0.49	050.99	0
050	Soluble Potassium as K2O (12%)	0309	12.09	0.0000	12.26	0.3697	0.1682	85	-0.46	050.60	0
050	Soluble Potassium as K2O (12%)	0510	12.09	0.0306	12.26	0.3697	0.1682	85	-0.46	050.60	0
050	Soluble Potassium as K2O (12%)	0300	12.10	0.1300	12.26	0.3697	0.1682	85	-0.45	050.99	0
050	Soluble Potassium as K2O (12%)	0522	12.10	0.0600	12.26	0.3697	0.1682	85	-0.44	050.00	0
050	Soluble Potassium as K2O (12%)	0390	12.11	0.1200	12.26	0.3697	0.1682	85	-0.41	050.50	0
050	Soluble Potassium as K2O (12%)	0520	12.13	0.0200	12.26	0.3697	0.1682	85	-0.35	050.99	0
050	Soluble Potassium as K2O (12%)	0117	12.14	0.1200	12.26	0.3697	0.1682	85	-0.33	050.52	0
050	Soluble Potassium as K2O (12%)	0483	12.17	0.0000	12.26	0.3697	0.1682	85	-0.25	050.51	0
050	Soluble Potassium as K2O (12%)	0042	12.18	0.0600	12.26	0.3697	0.1682	85	-0.22	050.99	0
050	Soluble Potassium as K2O (12%)	0040	12.20	0.2000	12.26	0.3697	0.1682	85	-0.17	050.30	0
050	Soluble Potassium as K2O (12%)	0406	12.20	0.2000	12.26	0.3697	0.1682	85	-0.17	050.50	0
050	Soluble Potassium as K2O (12%)	0493	12.20	0.1000	12.26	0.3697	0.1682	85	-0.17	050.99	0
050	Soluble Potassium as K2O (12%)	0420	12.22	0.0720	12.26	0.3697	0.1682	85	-0.12	050.50	0
050	Soluble Potassium as K2O (12%)	0354	12.22	0.0180	12.26	0.3697	0.1682	85	-0.12	050.52	0
050	Soluble Potassium as K2O (12%)	0405	12.23	0.0100	12.26	0.3697	0.1682	85	-0.10	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 (12%)	0105	12.24	0.1500	12.26	0.3697	0.1682	85	-0.07	050.62	0
050	Soluble Potassium as K2O (12%)	0090	12.24	0.1000	12.26	0.3697	0.1682	85	-0.06	050.60	0
050	Soluble Potassium as K2O (12%)	0070	12.25	0.1000	12.26	0.3697	0.1682	85	-0.03	050.51	0
050	Soluble Potassium as K2O (12%)	0041	12.26	0.8400	12.26	0.3697	0.1682	85	0.00	050.60	0
050	Soluble Potassium as K2O (12%)	0105	12.27	0.1300	12.26	0.3697	0.1682	85	0.01	050.60	0
050	Soluble Potassium as K2O (12%)	0309	12.28	0.0100	12.26	0.3697	0.1682	85	0.04	050.30	0
050	Soluble Potassium as K2O (12%)	0377	12.28	0.0300	12.26	0.3697	0.1682	85	0.04	050.52	0
050	Soluble Potassium as K2O (12%)	0177	12.29	0.4711	12.26	0.3697	0.1682	85	0.08	050.99	0
050	Soluble Potassium as K2O (12%)	0291	12.31	0.0100	12.26	0.3697	0.1682	85	0.12	050.51	0
050	Soluble Potassium as K2O (12%)	0368	12.31	0.1571	12.26	0.3697	0.1682	85	0.12	050.99	0
050	Soluble Potassium as K2O (12%)	0025	12.31	0.1810	12.26	0.3697	0.1682	85	0.13	050.52	0
050	Soluble Potassium as K2O (12%)	0131	12.36	0.0800	12.26	0.3697	0.1682	85	0.27	050.61	0
050	Soluble Potassium as K2O (12%)	0157	12.40	0.0000	12.26	0.3697	0.1682	85	0.38	050.30	0
050	Soluble Potassium as K2O (12%)	0452	12.42	0.0100	12.26	0.3697	0.1682	85	0.42	050.51	0
050	Soluble Potassium as K2O (12%)	0231	12.43	0.0100	12.26	0.3697	0.1682	85	0.44	050.00	0
050	Soluble Potassium as K2O (12%)	0220	12.44	0.0300	12.26	0.3697	0.1682	85	0.47	050.00	0
050	Soluble Potassium as K2O (12%)	0324	12.45	0.1000	12.26	0.3697	0.1682	85	0.51	050.50	0
050	Soluble Potassium as K2O (12%)	0421	12.46	0.0100	12.26	0.3697	0.1682	85	0.52	050.99	0
050	Soluble Potassium as K2O (12%)	0389	12.48	0.3500	12.26	0.3697	0.1682	85	0.58	050.99	0
050	Soluble Potassium as K2O (12%)	0494	12.48	0.0200	12.26	0.3697	0.1682	85	0.59	050.52	0
050	Soluble Potassium as K2O (12%)	0292	12.49	0.0100	12.26	0.3697	0.1682	85	0.61	050.50	0
050	Soluble Potassium as K2O (12%)	0494	12.52	0.6300	12.26	0.3697	0.1682	85	0.69	050.00	0
050	Soluble Potassium as K2O (12%)	0360	12.52	0.1900	12.26	0.3697	0.1682	85	0.69	050.52	0
050	Soluble Potassium as K2O (12%)	0513	12.52	0.0800	12.26	0.3697	0.1682	85	0.70	050.61	0
050	Soluble Potassium as K2O (12%)	0136	12.54	0.1100	12.26	0.3697	0.1682	85	0.74	050.30	0
050	Soluble Potassium as K2O (12%)	0043	12.55	0.0500	12.26	0.3697	0.1682	85	0.77	050.51	0
050	Soluble Potassium as K2O (12%)	0397	12.55	0.1220	12.26	0.3697	0.1682	85	0.78	050.50	0
050	Soluble Potassium as K2O (12%)	0049	12.55	0.1800	12.26	0.3697	0.1682	85	0.78	050.00	0
050	Soluble Potassium as K2O (12%)	0498	12.55	0.3000	12.26	0.3697	0.1682	85	0.78	050.31	0
050	Soluble Potassium as K2O (12%)	0433	12.56	0.0482	12.26	0.3697	0.1682	85	0.82	050.99	0
050	Soluble Potassium as K2O (12%)	0516	12.59	0.1500	12.26	0.3697	0.1682	85	0.88	050.30	0
050	Soluble Potassium as K2O (12%)	0029	12.59	0.0700	12.26	0.3697	0.1682	85	0.88	050.62	0
050	Soluble Potassium as K2O (12%)	0102	12.60	0.0000	12.26	0.3697	0.1682	85	0.92	050.00	0
050	Soluble Potassium as K2O (12%)	0095	12.61	0.2300	12.26	0.3697	0.1682	85	0.93	050.62	0
050	Soluble Potassium as K2O (12%)	0486	12.66	0.4000	12.26	0.3697	0.1682	85	1.08	050.52	0
050	Soluble Potassium as K2O (12%)	0169	12.75	0.3600	12.26	0.3697	0.1682	85	1.32	050.60	0
050	Soluble Potassium as K2O (12%)	0487	12.75	0.1000	12.26	0.3697	0.1682	85	1.32	050.99	0
050	Soluble Potassium as K2O (12%)	0028	12.76	0.0300	12.26	0.3697	0.1682	85	1.34	050.62	0
050	Soluble Potassium as K2O (12%)	0444	12.77	0.3900	12.26	0.3697	0.1682	85	1.36	050.99	0
050	Soluble Potassium as K2O (12%)	0230	12.80	0.0000	12.26	0.3697	0.1682	85	1.46	050.50	0
050	Soluble Potassium as K2O (12%)	0423	12.82	0.0300	12.26	0.3697	0.1682	85	1.50	050.52	0
050	Soluble Potassium as K2O (12%)	0307	12.82	0.3870	12.26	0.3697	0.1682	85	1.51	050.99	0
050	Soluble Potassium as K2O (12%)	0444	12.84	0.2900	12.26	0.3697	0.1682	85	1.55	050.50	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				
050	Soluble Potassium as K2O (12%)	0055	12.92	0.0300	12.26	0.3697	0.1682	85	1.77	050.00	0
050	Soluble Potassium as K2O (12%)	0451	13.34	0.7900	12.26	0.3697	0.1682	85	2.90	050.99	0
050	Soluble Potassium as K2O (12%)	0260	12.47	6.570	12.26	0.3697	0.1682	85	0.55	050.51	1
050	Soluble Potassium as K2O (12%)	0023	6.390*	12.78	12.26	0.3697	0.1682	85		050.52	4
060	Water (Free) (%)	0510	0.5260	0.0094	1.469	0.7796	0.0428	7	-1.09	060.99	0
060	Water (Free) (%)	0007	0.8650	0.0100	1.469	0.7796	0.0428	7	-0.70	060.00	0
060	Water (Free) (%)	0096	1.045	0.0300	1.469	0.7796	0.0428	7	-0.49	060.00	0
060	Water (Free) (%)	0513	1.405	0.0300	1.469	0.7796	0.0428	7	-0.07	060.99	0
060	Water (Free) (%)	0518	2.045	0.1100	1.469	0.7796	0.0428	7	0.67	060.30	0
060	Water (Free) (%)	0009	2.150	0.1000	1.469	0.7796	0.0428	7	0.79	060.99	0
060	Water (Free) (%)	0513	2.245	0.0100	1.469	0.7796	0.0428	7	0.90	060.30	0
101	Acid Soluble Calcium (%)	0420	0.3057	0.0108	0.3344	0.0159	0.0189	15	-1.80	101.30	0
101	Acid Soluble Calcium (%)	0389	0.3150	0.0100	0.3344	0.0159	0.0189	15	-1.22	101.99	0
101	Acid Soluble Calcium (%)	0035	0.3195	0.1010	0.3344	0.0159	0.0189	15	-0.94	101.30	0
101	Acid Soluble Calcium (%)	0482	0.3250	0.0100	0.3344	0.0159	0.0189	15	-0.59	101.30	0
101	Acid Soluble Calcium (%)	0102	0.3290	0.0060	0.3344	0.0159	0.0189	15	-0.34	101.30	0
101	Acid Soluble Calcium (%)	0472	0.3300	0.0000	0.3344	0.0159	0.0189	15	-0.28	101.30	0
101	Acid Soluble Calcium (%)	0421	0.3305	0.0090	0.3344	0.0159	0.0189	15	-0.25	101.33	0
101	Acid Soluble Calcium (%)	0300	0.3337	0.0007	0.3344	0.0159	0.0189	15	-0.05	101.32	0
101	Acid Soluble Calcium (%)	0096	0.3345	0.0010	0.3344	0.0159	0.0189	15	0.00	101.30	0
101	Acid Soluble Calcium (%)	0117	0.3347	0.0284	0.3344	0.0159	0.0189	15	0.02	101.33	0
101	Acid Soluble Calcium (%)	0105	0.3425	0.0150	0.3344	0.0159	0.0189	15	0.51	101.00	0
101	Acid Soluble Calcium (%)	0105	0.3520	0.0400	0.3344	0.0159	0.0189	15	1.10	101.03	0
101	Acid Soluble Calcium (%)	0423	0.3520	0.0080	0.3344	0.0159	0.0189	15	1.10	101.32	0
101	Acid Soluble Calcium (%)	0521	0.3526	0.0000	0.3344	0.0159	0.0189	15	1.14	101.32	0
101	Acid Soluble Calcium (%)	0354	0.3550	0.0440	0.3344	0.0159	0.0189	15	1.29	101.30	0
101	Acid Soluble Calcium (%)	0483	0.7135	0.3710	0.3344	0.0159	0.0189	15	23.80	101.30	2
121	Acid Soluble Magnesium (%)	0035	0.2885	0.0310	0.3208	0.0172	0.0115	20	-1.88	121.30	0
121	Acid Soluble Magnesium (%)	0230	0.2965	0.0030	0.3208	0.0172	0.0115	20	-1.42	121.30	0
121	Acid Soluble Magnesium (%)	0472	0.3000	0.0400	0.3208	0.0172	0.0115	20	-1.21	121.30	0
121	Acid Soluble Magnesium (%)	0105	0.3075	0.0050	0.3208	0.0172	0.0115	20	-0.78	121.00	0
121	Acid Soluble Magnesium (%)	0423	0.3115	0.0050	0.3208	0.0172	0.0115	20	-0.54	121.32	0
121	Acid Soluble Magnesium (%)	0420	0.3117	0.0023	0.3208	0.0172	0.0115	20	-0.53	121.30	0
121	Acid Soluble Magnesium (%)	0524	0.3122	0.0027	0.3208	0.0172	0.0115	20	-0.51	121.99	0
121	Acid Soluble Magnesium (%)	0105	0.3185	0.0290	0.3208	0.0172	0.0115	20	-0.14	121.03	0
121	Acid Soluble Magnesium (%)	0457	0.3190	0.0040	0.3208	0.0172	0.0115	20	-0.11	121.00	0
121	Acid Soluble Magnesium (%)	0482	0.3200	0.0200	0.3208	0.0172	0.0115	20	-0.05	121.30	0
121	Acid Soluble Magnesium (%)	0389	0.3200	0.0040	0.3208	0.0172	0.0115	20	-0.05	121.99	0
121	Acid Soluble Magnesium (%)	0096	0.3250	0.0100	0.3208	0.0172	0.0115	20	0.24	121.30	0
121	Acid Soluble Magnesium (%)	0521	0.3259	0.0000	0.3208	0.0172	0.0115	20	0.29	121.32	0
121	Acid Soluble Magnesium (%)	0354	0.3270	0.0080	0.3208	0.0172	0.0115	20	0.36	121.30	0
121	Acid Soluble Magnesium (%)	0300	0.3270	0.0040	0.3208	0.0172	0.0115	20	0.36	121.32	0
121	Acid Soluble Magnesium (%)	0117	0.3303	0.0063	0.3208	0.0172	0.0115	20	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 (%)	0102	0.3315	0.0078	0.3208	0.0172	0.0115	20	0.62	121.30	0
121	Acid Soluble Magnesium (%)	0043	0.3450	0.0100	0.3208	0.0172	0.0115	20	1.41	121.00	0
121	Acid Soluble Magnesium (%)	0220	0.3500	0.0000	0.3208	0.0172	0.0115	20	1.70	121.99	0
121	Acid Soluble Magnesium (%)	0421	0.3540	0.0380	0.3208	0.0172	0.0115	20	1.93	121.33	0
121	Acid Soluble Magnesium (%)	0483	0.4115	0.0730	0.3208	0.0172	0.0115	20	5.28	121.30	1
143	Elemental Sulfur (%)	0472	11.91	0.0500	12.73	0.8816	0.2750	4	-0.94	143.99	0
143	Elemental Sulfur (%)	0389	12.05	0.1000	12.73	0.8816	0.2750	4	-0.77	143.99	0
143	Elemental Sulfur (%)	0055	13.32	0.0500	12.73	0.8816	0.2750	4	0.66	143.00	0
143	Elemental Sulfur (%)	0390	13.65	0.9000	12.73	0.8816	0.2750	4	1.04	143.99	0
145	Sulfate Sulfur, HCl soluble (%)	0518	9.070	0.0200	11.97	1.397	0.1823	7	-1.88	145.99	0
145	Sulfate Sulfur, HCl soluble (%)	0169	10.72	0.2600	11.97	1.397	0.1823	7	-0.81	145.99	0
145	Sulfate Sulfur, HCl soluble (%)	0444	12.16	0.0000	11.97	1.397	0.1823	7	0.12	145.99	0
145	Sulfate Sulfur, HCl soluble (%)	0027	12.49	0.5500	11.97	1.397	0.1823	7	0.33	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0522	12.52	0.1600	11.97	1.397	0.1823	7	0.35	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0397	12.61	0.2160	11.97	1.397	0.1823	7	0.41	145.00	0
145	Sulfate Sulfur, HCl soluble (%)	0043	13.44	0.0700	11.97	1.397	0.1823	7	0.95	145.00	0
148	Total Sulfur (9%)	0457	8.970*	0.0400	12.42	0.7564	0.2192	38	-4.56	148.01	0
148	Total Sulfur (9%)	0515	9.616*	0.4457	12.42	0.7564	0.2192	38	-3.71	148.07	0
148	Total Sulfur (9%)	0520	10.62*	0.0200	12.42	0.7564	0.2192	38	-2.38	148.99	0
148	Total Sulfur (9%)	0220	10.70*	0.0500	12.42	0.7564	0.2192	38	-2.28	148.99	0
148	Total Sulfur (9%)	0510	10.70*	0.0474	12.42	0.7564	0.2192	38	-2.28	148.01	0
148	Total Sulfur (9%)	0422	10.86*	0.3700	12.42	0.7564	0.2192	38	-2.07	148.99	0
148	Total Sulfur (9%)	0444	11.76	0.1200	12.42	0.7564	0.2192	38	-0.87	148.07	0
148	Total Sulfur (9%)	0523	11.76	0.2200	12.42	0.7564	0.2192	38	-0.87	148.99	0
148	Total Sulfur (9%)	0506	11.95	0.5000	12.42	0.7564	0.2192	38	-0.62	148.99	0
148	Total Sulfur (9%)	0300	12.08	0.0300	12.42	0.7564	0.2192	38	-0.46	148.99	0
148	Total Sulfur (9%)	0096	12.10	0.1100	12.42	0.7564	0.2192	38	-0.43	148.99	0
148	Total Sulfur (9%)	0105	12.19	0.1300	12.42	0.7564	0.2192	38	-0.31	148.01	0
148	Total Sulfur (9%)	0102	12.21	0.0700	12.42	0.7564	0.2192	38	-0.28	148.01	0
148	Total Sulfur (9%)	0117	12.23	0.2500	12.42	0.7564	0.2192	38	-0.26	148.07	0
148	Total Sulfur (9%)	0292	12.24	0.0700	12.42	0.7564	0.2192	38	-0.24	148.07	0
148	Total Sulfur (9%)	0025	12.34	0.2300	12.42	0.7564	0.2192	38	-0.11	148.00	0
148	Total Sulfur (9%)	0157	12.40	0.0000	12.42	0.7564	0.2192	38	-0.03	148.00	0
148	Total Sulfur (9%)	0040	12.50	0.0000	12.42	0.7564	0.2192	38	0.11	148.01	0
148	Total Sulfur (9%)	0029	12.53	0.2200	12.42	0.7564	0.2192	38	0.15	148.00	0
148	Total Sulfur (9%)	0028	12.55	0.0800	12.42	0.7564	0.2192	38	0.17	148.01	0
148	Total Sulfur (9%)	0231	12.60	0.2000	12.42	0.7564	0.2192	38	0.24	148.01	0
148	Total Sulfur (9%)	0486	12.63	0.1600	12.42	0.7564	0.2192	38	0.28	148.07	0
148	Total Sulfur (9%)	0324	12.65	0.3000	12.42	0.7564	0.2192	38	0.30	148.01	0
148	Total Sulfur (9%)	0482	12.65	0.5000	12.42	0.7564	0.2192	38	0.30	148.99	0
148	Total Sulfur (9%)	0177	12.69	0.0472	12.42	0.7564	0.2192	38	0.35	148.07	0
148	Total Sulfur (9%)	0354	12.69	0.1600	12.42	0.7564	0.2192	38	0.36	148.99	0
148	Total Sulfur (9%)	0157	12.70	0.0000	12.42	0.7564	0.2192	38	0.37	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 (9%)	0360	12.75	0.3100	12.42	0.7564	0.2192	38	0.43	148.00	0
148	Total Sulfur (9%)	0102	12.83	0.0818	12.42	0.7564	0.2192	38	0.54	148.07	0
148	Total Sulfur (9%)	0421	12.99	0.0100	12.42	0.7564	0.2192	38	0.75	148.07	0
148	Total Sulfur (9%)	0307	13.03	0.2430	12.42	0.7564	0.2192	38	0.80	148.99	0
148	Total Sulfur (9%)	0095	13.06	0.0000	12.42	0.7564	0.2192	38	0.85	148.01	0
148	Total Sulfur (9%)	0483	13.25	0.1000	12.42	0.7564	0.2192	38	1.10	148.07	0
148	Total Sulfur (9%)	0452	13.26	0.0100	12.42	0.7564	0.2192	38	1.10	148.99	0
148	Total Sulfur (9%)	0368	13.29	0.1128	12.42	0.7564	0.2192	38	1.15	148.07	0
148	Total Sulfur (9%)	0291	13.34	0.0900	12.42	0.7564	0.2192	38	1.21	148.99	0
148	Total Sulfur (9%)	0230	13.50	2.800	12.42	0.7564	0.2192	38	1.43	148.01	0
148	Total Sulfur (9%)	0451	14.00	0.2000	12.42	0.7564	0.2192	38	2.09	148.00	0
148	Total Sulfur (9%)	0023	6.203*	12.41	12.42	0.7564	0.2192	38		148.07	4
149	Sulfur - HNO3 soluble (%)	0423	12.28	0.0500	12.77	0.6628	0.0481	4	-0.75	149.04	0
149	Sulfur - HNO3 soluble (%)	0040	12.50	0.0800	12.77	0.6628	0.0481	4	-0.41	149.04	0
149	Sulfur - HNO3 soluble (%)	0521	12.56	0.0000	12.77	0.6628	0.0481	4	-0.32	149.04	0
149	Sulfur - HNO3 soluble (%)	0524	13.75	0.0622	12.77	0.6628	0.0481	4	1.47	149.04	0
151	Acid Soluble Arsenic (ppm)	0027	180.1	10.20	237.2	27.62	4.223	16	-2.07	151.99	0
151	Acid Soluble Arsenic (ppm)	0444	186.5	7.000	237.2	27.62	4.223	16	-1.83	151.30	0
151	Acid Soluble Arsenic (ppm)	0523	196.2	0.9000	237.2	27.62	4.223	16	-1.48	151.30	0
151	Acid Soluble Arsenic (ppm)	0515	215.7	5.963	237.2	27.62	4.223	16	-0.78	151.34	0
151	Acid Soluble Arsenic (ppm)	0117	227.2	1.900	237.2	27.62	4.223	16	-0.36	151.33	0
151	Acid Soluble Arsenic (ppm)	0515	231.1	7.178	237.2	27.62	4.223	16	-0.22	151.33	0
151	Acid Soluble Arsenic (ppm)	0230	245.5	1.000	237.2	27.62	4.223	16	0.30	151.34	0
151	Acid Soluble Arsenic (ppm)	0300	246.0	0.9900	237.2	27.62	4.223	16	0.32	151.32	0
151	Acid Soluble Arsenic (ppm)	0520	247.3	0.4000	237.2	27.62	4.223	16	0.37	151.30	0
151	Acid Soluble Arsenic (ppm)	0220	250.5	9.000	237.2	27.62	4.223	16	0.48	151.33	0
151	Acid Soluble Arsenic (ppm)	0037	250.9	8.530	237.2	27.62	4.223	16	0.50	151.33	0
151	Acid Soluble Arsenic (ppm)	0521	252.2	0.0000	237.2	27.62	4.223	16	0.54	151.32	0
151	Acid Soluble Arsenic (ppm)	0368	253.7	14.50	237.2	27.62	4.223	16	0.60	151.30	0
151	Acid Soluble Arsenic (ppm)	0102	254.3	0.0080	237.2	27.62	4.223	16	0.62	151.30	0
151	Acid Soluble Arsenic (ppm)	0009	260.0	0.0000	237.2	27.62	4.223	16	0.83	151.99	0
151	Acid Soluble Arsenic (ppm)	0511	272.6	0.0000	237.2	27.62	4.223	16	1.28	151.30	0
165	Acid Soluble Boron (0.1%)	0309	0.0900	0.0000	0.1065	0.0090	0.0248	41	-1.83	165.70	0
165	Acid Soluble Boron (0.1%)	0230	0.0932	0.0002	0.1065	0.0090	0.0248	41	-1.47	165.99	0
165	Acid Soluble Boron (0.1%)	0523	0.0935	0.0010	0.1065	0.0090	0.0248	41	-1.44	165.99	0
165	Acid Soluble Boron (0.1%)	0486	0.0950	0.0100	0.1065	0.0090	0.0248	41	-1.27	165.99	0
165	Acid Soluble Boron (0.1%)	0324	0.0974	0.0018	0.1065	0.0090	0.0248	41	-1.01	165.30	0
165	Acid Soluble Boron (0.1%)	0457	0.0986	0.0033	0.1065	0.0090	0.0248	41	-0.88	165.99	0
165	Acid Soluble Boron (0.1%)	0220	0.0995	0.0010	0.1065	0.0090	0.0248	41	-0.77	165.00	0
165	Acid Soluble Boron (0.1%)	0506	0.1000	0.0000	0.1065	0.0090	0.0248	41	-0.72	165.00	0
165	Acid Soluble Boron (0.1%)	0452	0.1000	0.0000	0.1065	0.0090	0.0248	41	-0.72	165.99	0
165	Acid Soluble Boron (0.1%)	0117	0.1002	0.0020	0.1065	0.0090	0.0248	41	-0.70	165.99	0
165	Acid Soluble Boron (0.1%)	0521	0.1005	0.0000	0.1065	0.0090	0.0248	41	-0.66	165.30	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				
165	Acid Soluble Boron (0.1%)	0055	0.1010	0.0020	0.1065	0.0090	0.0248	41	-0.61	165.00	0
165	Acid Soluble Boron (0.1%)	0354	0.1010	0.0000	0.1065	0.0090	0.0248	41	-0.61	165.30	0
165	Acid Soluble Boron (0.1%)	0423	0.1015	0.0010	0.1065	0.0090	0.0248	41	-0.55	165.99	0
165	Acid Soluble Boron (0.1%)	0102	0.1019	0.0026	0.1065	0.0090	0.0248	41	-0.51	165.30	0
165	Acid Soluble Boron (0.1%)	0397	0.1020	0.0002	0.1065	0.0090	0.0248	41	-0.50	165.00	0
165	Acid Soluble Boron (0.1%)	0494	0.1030	0.0013	0.1065	0.0090	0.0248	41	-0.39	165.30	0
165	Acid Soluble Boron (0.1%)	0524	0.1030	0.0020	0.1065	0.0090	0.0248	41	-0.39	165.99	0
165	Acid Soluble Boron (0.1%)	0043	0.1050	0.0060	0.1065	0.0090	0.0248	41	-0.17	165.99	0
165	Acid Soluble Boron (0.1%)	0444	0.1050	0.0100	0.1065	0.0090	0.0248	41	-0.17	165.30	0
165	Acid Soluble Boron (0.1%)	0482	0.1050	0.0100	0.1065	0.0090	0.0248	41	-0.17	165.99	0
165	Acid Soluble Boron (0.1%)	0389	0.1055	0.0010	0.1065	0.0090	0.0248	41	-0.11	165.30	0
165	Acid Soluble Boron (0.1%)	0421	0.1070	0.0020	0.1065	0.0090	0.0248	41	0.06	165.99	0
165	Acid Soluble Boron (0.1%)	0025	0.1090	0.0020	0.1065	0.0090	0.0248	41	0.28	165.99	0
165	Acid Soluble Boron (0.1%)	0231	0.1100	0.0000	0.1065	0.0090	0.0248	41	0.39	165.30	0
165	Acid Soluble Boron (0.1%)	0291	0.1100	0.0000	0.1065	0.0090	0.0248	41	0.39	165.30	0
165	Acid Soluble Boron (0.1%)	0095	0.1100	0.0000	0.1065	0.0090	0.0248	41	0.39	165.99	0
165	Acid Soluble Boron (0.1%)	0360	0.1100	0.0040	0.1065	0.0090	0.0248	41	0.39	165.99	0
165	Acid Soluble Boron (0.1%)	0472	0.1100	0.0000	0.1065	0.0090	0.0248	41	0.39	165.99	0
165	Acid Soluble Boron (0.1%)	0307	0.1110	0.0060	0.1065	0.0090	0.0248	41	0.50	165.30	0
165	Acid Soluble Boron (0.1%)	0433	0.1113	0.0006	0.1065	0.0090	0.0248	41	0.53	165.30	0
165	Acid Soluble Boron (0.1%)	0042	0.1115	0.0050	0.1065	0.0090	0.0248	41	0.55	165.99	0
165	Acid Soluble Boron (0.1%)	0520	0.1145	0.0002	0.1065	0.0090	0.0248	41	0.89	165.30	0
165	Acid Soluble Boron (0.1%)	0136	0.1150	0.0100	0.1065	0.0090	0.0248	41	0.94	165.30	0
165	Acid Soluble Boron (0.1%)	0105	0.1159	0.0112	0.1065	0.0090	0.0248	41	1.04	165.00	0
165	Acid Soluble Boron (0.1%)	0515	0.1177	0.0277	0.1065	0.0090	0.0248	41	1.24	165.99	0
165	Acid Soluble Boron (0.1%)	0300	0.1185	0.0004	0.1065	0.0090	0.0248	41	1.33	165.99	0
165	Acid Soluble Boron (0.1%)	0511	0.1200	0.0000	0.1065	0.0090	0.0248	41	1.50	165.99	0
165	Acid Soluble Boron (0.1%)	0483	0.1215	0.0010	0.1065	0.0090	0.0248	41	1.66	165.99	0
165	Acid Soluble Boron (0.1%)	0397	0.5266	0.8629	0.1065	0.0090	0.0248	41	46.50	165.30	0
165	Acid Soluble Boron (0.1%)	0422	1.055	0.0300	0.1065	0.0090	0.0248	41	105.01	165.30	0
165	Acid Soluble Boron (0.1%)	0377	267.5	9.000	0.1065	0.0090	0.0248	41	29603.21	165.30	2
165	Acid Soluble Boron (0.1%)	0023	0.05400*	0.1080	0.1065	0.0090	0.0248	41		165.30	4
171	Water Soluble Boron (%)	0444	0.0920	0.0080	0.1063	0.0125	0.0070	4	-1.14	171.99	0
171	Water Soluble Boron (%)	0402	0.1040	0.0080	0.1063	0.0125	0.0070	4	-0.18	171.99	0
171	Water Soluble Boron (%)	0027	0.1065	0.0090	0.1063	0.0125	0.0070	4	0.02	171.99	0
171	Water Soluble Boron (%)	0518	0.1225	0.0030	0.1063	0.0125	0.0070	4	1.30	171.10	0
181	Acid Soluble Cadmium (ppm)	0444	171.5	25.00	234.6	25.97	7.914	23	-2.43	181.30	0
181	Acid Soluble Cadmium (ppm)	0027	178.1	10.20	234.6	25.97	7.914	23	-2.17	181.99	0
181	Acid Soluble Cadmium (ppm)	0523	180.2	1.400	234.6	25.97	7.914	23	-2.10	181.30	0
181	Acid Soluble Cadmium (ppm)	0035	189.5	5.000	234.6	25.97	7.914	23	-1.74	181.30	0
181	Acid Soluble Cadmium (ppm)	0300	220.5	2.130	234.6	25.97	7.914	23	-0.54	181.32	0
181	Acid Soluble Cadmium (ppm)	0515	225.6	9.671	234.6	25.97	7.914	23	-0.34	181.33	0
181	Acid Soluble Cadmium (ppm)	0220	226.0	8.000	234.6	25.97	7.914	23	-0.33	181.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
181	Acid Soluble Cadmium (ppm)	0520	229.5	0.0400	234.6	25.97	7.914	23	-0.19	181.30	0
181	Acid Soluble Cadmium (ppm)	0487	231.0	6.000	234.6	25.97	7.914	23	-0.14	181.99	0
181	Acid Soluble Cadmium (ppm)	0230	232.0	4.000	234.6	25.97	7.914	23	-0.10	181.34	0
181	Acid Soluble Cadmium (ppm)	0117	232.2	10.10	234.6	25.97	7.914	23	-0.09	181.33	0
181	Acid Soluble Cadmium (ppm)	0389	234.5	1.000	234.6	25.97	7.914	23	0.00	181.30	0
181	Acid Soluble Cadmium (ppm)	0096	238.4	2.200	234.6	25.97	7.914	23	0.15	181.30	0
181	Acid Soluble Cadmium (ppm)	0515	240.3	19.06	234.6	25.97	7.914	23	0.22	181.34	0
181	Acid Soluble Cadmium (ppm)	0452	241.8	3.900	234.6	25.97	7.914	23	0.28	181.30	0
181	Acid Soluble Cadmium (ppm)	0524	244.5	2.893	234.6	25.97	7.914	23	0.38	181.30	0
181	Acid Soluble Cadmium (ppm)	0102	247.1	19.15	234.6	25.97	7.914	23	0.48	181.30	0
181	Acid Soluble Cadmium (ppm)	0511	252.1	0.0000	234.6	25.97	7.914	23	0.67	181.30	0
181	Acid Soluble Cadmium (ppm)	0009	255.0	10.00	234.6	25.97	7.914	23	0.79	181.99	0
181	Acid Soluble Cadmium (ppm)	0482	258.5	1.000	234.6	25.97	7.914	23	0.92	181.30	0
181	Acid Soluble Cadmium (ppm)	0368	262.6	21.50	234.6	25.97	7.914	23	1.08	181.30	0
181	Acid Soluble Cadmium (ppm)	0037	268.1	14.77	234.6	25.97	7.914	23	1.29	181.33	0
181	Acid Soluble Cadmium (ppm)	0506	287.5	5.000	234.6	25.97	7.914	23	2.04	181.99	0
190	Water Soluble Chlorine (%)	0105	9.600	0.0200				1		190.00	0
191	Acid Soluble Chromium (ppm)	0444	39.64	2.620	51.58	5.242	1.743	19	-2.28	191.30	0
191	Acid Soluble Chromium (ppm)	0389	46.25	0.5000	51.58	5.242	1.743	19	-1.02	191.30	0
191	Acid Soluble Chromium (ppm)	0096	47.15	1.700	51.58	5.242	1.743	19	-0.85	191.30	0
191	Acid Soluble Chromium (ppm)	0035	47.55	2.900	51.58	5.242	1.743	19	-0.77	191.30	0
191	Acid Soluble Chromium (ppm)	0230	47.55	0.3000	51.58	5.242	1.743	19	-0.77	191.34	0
191	Acid Soluble Chromium (ppm)	0368	48.20	2.000	51.58	5.242	1.743	19	-0.65	191.30	0
191	Acid Soluble Chromium (ppm)	0300	48.99	0.0760	51.58	5.242	1.743	19	-0.50	191.32	0
191	Acid Soluble Chromium (ppm)	0523	49.22	1.240	51.58	5.242	1.743	19	-0.45	191.30	0
191	Acid Soluble Chromium (ppm)	0482	49.65	0.1000	51.58	5.242	1.743	19	-0.37	191.30	0
191	Acid Soluble Chromium (ppm)	0515	51.15	1.148	51.58	5.242	1.743	19	-0.08	191.34	0
191	Acid Soluble Chromium (ppm)	0117	52.14	1.890	51.58	5.242	1.743	19	0.11	191.33	0
191	Acid Soluble Chromium (ppm)	0511	52.20	0.0000	51.58	5.242	1.743	19	0.12	191.30	0
191	Acid Soluble Chromium (ppm)	0102	53.40	0.2510	51.58	5.242	1.743	19	0.35	191.30	0
191	Acid Soluble Chromium (ppm)	0515	53.61	6.148	51.58	5.242	1.743	19	0.39	191.33	0
191	Acid Soluble Chromium (ppm)	0452	56.17	0.0200	51.58	5.242	1.743	19	0.88	191.30	0
191	Acid Soluble Chromium (ppm)	0220	56.75	2.900	51.58	5.242	1.743	19	0.99	191.99	0
191	Acid Soluble Chromium (ppm)	0009	57.50	3.000	51.58	5.242	1.743	19	1.13	191.99	0
191	Acid Soluble Chromium (ppm)	0037	60.00	0.8200	51.58	5.242	1.743	19	1.61	191.33	0
191	Acid Soluble Chromium (ppm)	0506	90.25	5.500	51.58	5.242	1.743	19	7.38	191.99	0
202	Acid Soluble Cobalt (ppm)	0524	0.1510	0.0889	2.420	0.5044	0.1678	15	-4.50	202.30	0
202	Acid Soluble Cobalt (ppm)	0515	0.7890	0.6106	2.420	0.5044	0.1678	15	-3.23	202.33	0
202	Acid Soluble Cobalt (ppm)	0523	2.064	0.0090	2.420	0.5044	0.1678	15	-0.71	202.30	0
202	Acid Soluble Cobalt (ppm)	0102	2.098	0.0820	2.420	0.5044	0.1678	15	-0.64	202.30	0
202	Acid Soluble Cobalt (ppm)	0220	2.150	0.1000	2.420	0.5044	0.1678	15	-0.54	202.99	0
202	Acid Soluble Cobalt (ppm)	0511	2.280	0.0000	2.420	0.5044	0.1678	15	-0.28	202.30	0
202	Acid Soluble Cobalt (ppm)	0389	2.350	0.1000	2.420	0.5044	0.1678	15	-0.14	202.30	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				
202	Acid Soluble Cobalt (ppm)	0482	2.500	0.4000	2.420	0.5044	0.1678	15	0.16	202.30	0
202	Acid Soluble Cobalt (ppm)	0096	2.560	0.0200	2.420	0.5044	0.1678	15	0.28	202.30	0
202	Acid Soluble Cobalt (ppm)	0423	2.575	0.1300	2.420	0.5044	0.1678	15	0.31	202.32	0
202	Acid Soluble Cobalt (ppm)	0035	2.635	0.2500	2.420	0.5044	0.1678	15	0.43	202.30	0
202	Acid Soluble Cobalt (ppm)	0452	2.760	0.0000	2.420	0.5044	0.1678	15	0.67	202.30	0
202	Acid Soluble Cobalt (ppm)	0009	2.800	0.2000	2.420	0.5044	0.1678	15	0.75	202.99	0
202	Acid Soluble Cobalt (ppm)	0300	3.042	0.1760	2.420	0.5044	0.1678	15	1.23	202.32	0
202	Acid Soluble Cobalt (ppm)	0037	3.165	0.3500	2.420	0.5044	0.1678	15	1.48	202.33	0
202	Acid Soluble Cobalt (ppm)	0368	3.405	1.710	2.420	0.5044	0.1678	15	1.95	202.30	1
202	Acid Soluble Cobalt (ppm)	0515	0.7420	1.484	2.420	0.5044	0.1678	15		202.34	4
221	Acid Soluble Copper (0.1%)	0042	0.1200*	0.0000	0.1774	0.0139	0.0064	55	-4.13	221.99	0
221	Acid Soluble Copper (0.1%)	0027	0.1390*	0.0060	0.1774	0.0139	0.0064	55	-2.77	221.99	0
221	Acid Soluble Copper (0.1%)	0515	0.1464*	0.0047	0.1774	0.0139	0.0064	55	-2.24	221.99	0
221	Acid Soluble Copper (0.1%)	0397	0.1529*	0.0009	0.1774	0.0139	0.0064	55	-1.77	221.03	0
221	Acid Soluble Copper (0.1%)	0055	0.1600	0.0000	0.1774	0.0139	0.0064	55	-1.25	221.30	0
221	Acid Soluble Copper (0.1%)	0324	0.1600	0.0040	0.1774	0.0139	0.0064	55	-1.25	221.30	0
221	Acid Soluble Copper (0.1%)	0354	0.1600	0.0020	0.1774	0.0139	0.0064	55	-1.25	221.30	0
221	Acid Soluble Copper (0.1%)	0360	0.1600	0.0020	0.1774	0.0139	0.0064	55	-1.25	221.30	0
221	Acid Soluble Copper (0.1%)	0452	0.1600	0.0000	0.1774	0.0139	0.0064	55	-1.25	221.30	0
221	Acid Soluble Copper (0.1%)	0486	0.1600	0.0000	0.1774	0.0139	0.0064	55	-1.25	221.33	0
221	Acid Soluble Copper (0.1%)	0177	0.1637	0.0007	0.1774	0.0139	0.0064	55	-0.99	221.33	0
221	Acid Soluble Copper (0.1%)	0498	0.1650	0.0100	0.1774	0.0139	0.0064	55	-0.89	221.00	0
221	Acid Soluble Copper (0.1%)	0472	0.1700	0.0000	0.1774	0.0139	0.0064	55	-0.54	221.30	0
221	Acid Soluble Copper (0.1%)	0230	0.1705	0.0050	0.1774	0.0139	0.0064	55	-0.50	221.30	0
221	Acid Soluble Copper (0.1%)	0523	0.1705	0.0210	0.1774	0.0139	0.0064	55	-0.50	221.99	0
221	Acid Soluble Copper (0.1%)	0035	0.1715	0.0270	0.1774	0.0139	0.0064	55	-0.43	221.30	0
221	Acid Soluble Copper (0.1%)	0521	0.1716	0.0000	0.1774	0.0139	0.0064	55	-0.42	221.32	0
221	Acid Soluble Copper (0.1%)	0389	0.1720	0.0040	0.1774	0.0139	0.0064	55	-0.39	221.99	0
221	Acid Soluble Copper (0.1%)	0300	0.1731	0.0023	0.1774	0.0139	0.0064	55	-0.32	221.32	0
221	Acid Soluble Copper (0.1%)	0433	0.1744	0.0008	0.1774	0.0139	0.0064	55	-0.22	221.30	0
221	Acid Soluble Copper (0.1%)	0307	0.1745	0.0070	0.1774	0.0139	0.0064	55	-0.21	221.30	0
221	Acid Soluble Copper (0.1%)	0291	0.1750	0.0100	0.1774	0.0139	0.0064	55	-0.18	221.30	0
221	Acid Soluble Copper (0.1%)	0136	0.1750	0.0100	0.1774	0.0139	0.0064	55	-0.18	221.33	0
221	Acid Soluble Copper (0.1%)	0117	0.1758	0.0036	0.1774	0.0139	0.0064	55	-0.12	221.33	0
221	Acid Soluble Copper (0.1%)	0457	0.1765	0.0050	0.1774	0.0139	0.0064	55	-0.07	221.00	0
221	Acid Soluble Copper (0.1%)	0524	0.1765	0.0200	0.1774	0.0139	0.0064	55	-0.07	221.99	0
221	Acid Soluble Copper (0.1%)	0043	0.1790	0.0020	0.1774	0.0139	0.0064	55	0.11	221.00	0
221	Acid Soluble Copper (0.1%)	0516	0.1800	0.0200	0.1774	0.0139	0.0064	55	0.18	221.00	0
221	Acid Soluble Copper (0.1%)	0105	0.1800	0.0080	0.1774	0.0139	0.0064	55	0.18	221.03	0
221	Acid Soluble Copper (0.1%)	0095	0.1800	0.0000	0.1774	0.0139	0.0064	55	0.18	221.30	0
221	Acid Soluble Copper (0.1%)	0009	0.1800	0.0000	0.1774	0.0139	0.0064	55	0.18	221.99	0
221	Acid Soluble Copper (0.1%)	0506	0.1800	0.0000	0.1774	0.0139	0.0064	55	0.18	221.99	0
221	Acid Soluble Copper (0.1%)	0515	0.1805	0.0312	0.1774	0.0139	0.0064	55	0.22	221.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
221	Acid Soluble Copper (0.1%)	0096	0.1811	0.0019	0.1774	0.0139	0.0064	55	0.26	221.30	0
221	Acid Soluble Copper (0.1%)	0220	0.1815	0.0070	0.1774	0.0139	0.0064	55	0.29	221.99	0
221	Acid Soluble Copper (0.1%)	0511	0.1820	0.0000	0.1774	0.0139	0.0064	55	0.33	221.30	0
221	Acid Soluble Copper (0.1%)	0368	0.1822	0.0067	0.1774	0.0139	0.0064	55	0.34	221.30	0
221	Acid Soluble Copper (0.1%)	0420	0.1829	0.0009	0.1774	0.0139	0.0064	55	0.39	221.30	0
221	Acid Soluble Copper (0.1%)	0029	0.1837	0.0074	0.1774	0.0139	0.0064	55	0.45	221.00	0
221	Acid Soluble Copper (0.1%)	0402	0.1845	0.0070	0.1774	0.0139	0.0064	55	0.51	221.30	0
221	Acid Soluble Copper (0.1%)	0444	0.1850	0.0100	0.1774	0.0139	0.0064	55	0.54	221.30	0
221	Acid Soluble Copper (0.1%)	0482	0.1850	0.0100	0.1774	0.0139	0.0064	55	0.54	221.30	0
221	Acid Soluble Copper (0.1%)	0487	0.1850	0.0100	0.1774	0.0139	0.0064	55	0.54	221.99	0
221	Acid Soluble Copper (0.1%)	0105	0.1855	0.0010	0.1774	0.0139	0.0064	55	0.58	221.00	0
221	Acid Soluble Copper (0.1%)	0025	0.1865	0.0110	0.1774	0.0139	0.0064	55	0.65	221.33	0
221	Acid Soluble Copper (0.1%)	0102	0.1884	0.0003	0.1774	0.0139	0.0064	55	0.78	221.30	0
221	Acid Soluble Copper (0.1%)	0231	0.1900	0.0000	0.1774	0.0139	0.0064	55	0.90	221.03	0
221	Acid Soluble Copper (0.1%)	0157	0.1905	0.0030	0.1774	0.0139	0.0064	55	0.94	221.30	0
221	Acid Soluble Copper (0.1%)	0037	0.1945	0.0050	0.1774	0.0139	0.0064	55	1.23	221.33	0
221	Acid Soluble Copper (0.1%)	0483	0.1990	0.0040	0.1774	0.0139	0.0064	55	1.55	221.30	0
221	Acid Soluble Copper (0.1%)	0422	0.2000	0.0040	0.1774	0.0139	0.0064	55	1.62	221.30	0
221	Acid Soluble Copper (0.1%)	0421	0.2000	0.0040	0.1774	0.0139	0.0064	55	1.62	221.33	0
221	Acid Soluble Copper (0.1%)	0423	0.2030	0.0020	0.1774	0.0139	0.0064	55	1.84	221.32	0
221	Acid Soluble Copper (0.1%)	0040	0.2042	0.0279	0.1774	0.0139	0.0064	55	1.92	221.00	0
221	Acid Soluble Copper (0.1%)	0390	0.2045	0.0210	0.1774	0.0139	0.0064	55	1.95	221.30	0
221	Acid Soluble Copper (0.1%)	0377	434.0	12.00	0.1774	0.0139	0.0064	55	31211.04	221.30	2
221	Acid Soluble Copper (0.1%)	0023	0.09100*	0.1820	0.1774	0.0139	0.0064	55		221.03	4
241	Acid Soluble Iron (0.5%)	0518	0.4500*	0.0200	0.9097	0.0566	0.0201	52	-8.12	241.99	0
241	Acid Soluble Iron (0.5%)	0042	0.5950*	0.0300	0.9097	0.0566	0.0201	52	-5.56	241.99	0
241	Acid Soluble Iron (0.5%)	0498	0.6950*	0.0300	0.9097	0.0566	0.0201	52	-3.79	241.00	0
241	Acid Soluble Iron (0.5%)	0516	0.8250	0.0300	0.9097	0.0566	0.0201	52	-1.50	241.00	0
241	Acid Soluble Iron (0.5%)	0486	0.8250	0.0100	0.9097	0.0566	0.0201	52	-1.50	241.33	0
241	Acid Soluble Iron (0.5%)	0472	0.8400	0.0200	0.9097	0.0566	0.0201	52	-1.23	241.30	0
241	Acid Soluble Iron (0.5%)	0389	0.8565	0.0050	0.9097	0.0566	0.0201	52	-0.94	241.99	0
241	Acid Soluble Iron (0.5%)	0230	0.8655	0.0330	0.9097	0.0566	0.0201	52	-0.78	241.30	0
241	Acid Soluble Iron (0.5%)	0515	0.8669	0.0686	0.9097	0.0566	0.0201	52	-0.76	241.33	0
241	Acid Soluble Iron (0.5%)	0300	0.8696	0.0025	0.9097	0.0566	0.0201	52	-0.71	241.32	0
241	Acid Soluble Iron (0.5%)	0354	0.8715	0.0130	0.9097	0.0566	0.0201	52	-0.67	241.30	0
241	Acid Soluble Iron (0.5%)	0433	0.8719	0.0074	0.9097	0.0566	0.0201	52	-0.67	241.30	0
241	Acid Soluble Iron (0.5%)	0397	0.8741	0.0060	0.9097	0.0566	0.0201	52	-0.63	241.33	0
241	Acid Soluble Iron (0.5%)	0043	0.8750	0.0300	0.9097	0.0566	0.0201	52	-0.61	241.00	0
241	Acid Soluble Iron (0.5%)	0452	0.8750	0.0100	0.9097	0.0566	0.0201	52	-0.61	241.30	0
241	Acid Soluble Iron (0.5%)	0025	0.8780	0.0040	0.9097	0.0566	0.0201	52	-0.56	241.33	0
241	Acid Soluble Iron (0.5%)	0055	0.8800	0.0200	0.9097	0.0566	0.0201	52	-0.52	241.30	0
241	Acid Soluble Iron (0.5%)	0177	0.8800	0.0056	0.9097	0.0566	0.0201	52	-0.52	241.33	0
241	Acid Soluble Iron (0.5%)	0117	0.8839	0.0011	0.9097	0.0566	0.0201	52	-0.46	241.33	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				
241	Acid Soluble Iron (0.5%)	0291	0.8850	0.0100	0.9097	0.0566	0.0201	52	-0.44	241.30	0
241	Acid Soluble Iron (0.5%)	0420	0.8867	0.0109	0.9097	0.0566	0.0201	52	-0.41	241.30	0
241	Acid Soluble Iron (0.5%)	0523	0.8880	0.0040	0.9097	0.0566	0.0201	52	-0.38	241.99	0
241	Acid Soluble Iron (0.5%)	0423	0.8885	0.0050	0.9097	0.0566	0.0201	52	-0.37	241.32	0
241	Acid Soluble Iron (0.5%)	0095	0.9000	0.0000	0.9097	0.0566	0.0201	52	-0.17	241.30	0
241	Acid Soluble Iron (0.5%)	0231	0.9000	0.0000	0.9097	0.0566	0.0201	52	-0.17	241.30	0
241	Acid Soluble Iron (0.5%)	0457	0.9020	0.0080	0.9097	0.0566	0.0201	52	-0.14	241.00	0
241	Acid Soluble Iron (0.5%)	0444	0.9050	0.0100	0.9097	0.0566	0.0201	52	-0.08	241.30	0
241	Acid Soluble Iron (0.5%)	0096	0.9090	0.0000	0.9097	0.0566	0.0201	52	-0.01	241.30	0
241	Acid Soluble Iron (0.5%)	0136	0.9100	0.0000	0.9097	0.0566	0.0201	52	0.01	241.33	0
241	Acid Soluble Iron (0.5%)	0515	0.9166	0.0049	0.9097	0.0566	0.0201	52	0.12	241.99	0
241	Acid Soluble Iron (0.5%)	0360	0.9180	0.0080	0.9097	0.0566	0.0201	52	0.15	241.30	0
241	Acid Soluble Iron (0.5%)	0368	0.9224	0.0008	0.9097	0.0566	0.0201	52	0.22	241.30	0
241	Acid Soluble Iron (0.5%)	0102	0.9343	0.0043	0.9097	0.0566	0.0201	52	0.43	241.30	0
241	Acid Soluble Iron (0.5%)	0029	0.9392	0.0241	0.9097	0.0566	0.0201	52	0.52	241.00	0
241	Acid Soluble Iron (0.5%)	0482	0.9400	0.0400	0.9097	0.0566	0.0201	52	0.54	241.30	0
241	Acid Soluble Iron (0.5%)	0220	0.9400	0.0200	0.9097	0.0566	0.0201	52	0.54	241.99	0
241	Acid Soluble Iron (0.5%)	0035	0.9445	0.0370	0.9097	0.0566	0.0201	52	0.61	241.30	0
241	Acid Soluble Iron (0.5%)	0521	0.9465	0.0000	0.9097	0.0566	0.0201	52	0.65	241.32	0
241	Acid Soluble Iron (0.5%)	0157	0.9470	0.0020	0.9097	0.0566	0.0201	52	0.66	241.30	0
241	Acid Soluble Iron (0.5%)	0324	0.9470	0.0220	0.9097	0.0566	0.0201	52	0.66	241.30	0
241	Acid Soluble Iron (0.5%)	0105	0.9525	0.0930	0.9097	0.0566	0.0201	52	0.76	241.03	0
241	Acid Soluble Iron (0.5%)	0037	0.9555	0.0470	0.9097	0.0566	0.0201	52	0.81	241.33	0
241	Acid Soluble Iron (0.5%)	0040	0.9600	0.0200	0.9097	0.0566	0.0201	52	0.89	241.00	0
241	Acid Soluble Iron (0.5%)	0511	0.9700	0.0000	0.9097	0.0566	0.0201	52	1.06	241.30	0
241	Acid Soluble Iron (0.5%)	0506	0.9700	0.0200	0.9097	0.0566	0.0201	52	1.06	241.99	0
241	Acid Soluble Iron (0.5%)	0421	0.9770	0.0020	0.9097	0.0566	0.0201	52	1.19	241.33	0
241	Acid Soluble Iron (0.5%)	0524	0.9775	0.0192	0.9097	0.0566	0.0201	52	1.20	241.99	0
241	Acid Soluble Iron (0.5%)	0105	0.9815	0.0370	0.9097	0.0566	0.0201	52	1.27	241.00	0
241	Acid Soluble Iron (0.5%)	0422	1.010	0.0000	0.9097	0.0566	0.0201	52	1.77	241.30	0
241	Acid Soluble Iron (0.5%)	0027	1.033	0.0390	0.9097	0.0566	0.0201	52	2.17	241.99	0
241	Acid Soluble Iron (0.5%)	0390	1.064	0.1320	0.9097	0.0566	0.0201	52	2.72	241.30	0
241	Acid Soluble Iron (0.5%)	0483	1.080	0.0800	0.9097	0.0566	0.0201	52	3.01	241.30	0
241	Acid Soluble Iron (0.5%)	0377	2,308	45.00	0.9097	0.0566	0.0201	52	40722.08	241.30	2
241	Acid Soluble Iron (0.5%)	0023	0.4110*	0.8220	0.9097	0.0566	0.0201	52		241.33	4
251	Acid Soluble Lead (ppm)	0523	817.7	29.20	1,067	73.60	21.06	18	-3.39	251.30	0
251	Acid Soluble Lead (ppm)	0482	916.5	21.00	1,067	73.60	21.06	18	-2.05	251.30	0
251	Acid Soluble Lead (ppm)	0035	920.0	28.00	1,067	73.60	21.06	18	-2.00	251.30	0
251	Acid Soluble Lead (ppm)	0300	1,020	5.180	1,067	73.60	21.06	18	-0.65	251.32	0
251	Acid Soluble Lead (ppm)	0389	1,025	8.000	1,067	73.60	21.06	18	-0.57	251.30	0
251	Acid Soluble Lead (ppm)	0230	1,025	10.00	1,067	73.60	21.06	18	-0.57	251.34	0
251	Acid Soluble Lead (ppm)	0524	1,057	81.51	1,067	73.60	21.06	18	-0.13	251.30	0
251	Acid Soluble Lead (ppm)	0117	1,061	24.00	1,067	73.60	21.06	18	-0.08	251.33	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				
251	Acid Soluble Lead (ppm)	0096	1,071	10.00	1,067	73.60	21.06	18	0.05	251.30	0
251	Acid Soluble Lead (ppm)	0515	1,091	40.40	1,067	73.60	21.06	18	0.33	251.34	0
251	Acid Soluble Lead (ppm)	0220	1,095	15.00	1,067	73.60	21.06	18	0.37	251.99	0
251	Acid Soluble Lead (ppm)	0368	1,098	12.00	1,067	73.60	21.06	18	0.42	251.30	0
251	Acid Soluble Lead (ppm)	0102	1,107	12.29	1,067	73.60	21.06	18	0.54	251.30	0
251	Acid Soluble Lead (ppm)	0452	1,129	11.00	1,067	73.60	21.06	18	0.83	251.30	0
251	Acid Soluble Lead (ppm)	0520	1,129	0.1000	1,067	73.60	21.06	18	0.84	251.30	0
251	Acid Soluble Lead (ppm)	0037	1,135	21.37	1,067	73.60	21.06	18	0.93	251.33	0
251	Acid Soluble Lead (ppm)	0487	1,145	50.00	1,067	73.60	21.06	18	1.06	251.99	0
251	Acid Soluble Lead (ppm)	0511	1,150	0.0000	1,067	73.60	21.06	18	1.13	251.30	0
251	Acid Soluble Lead (ppm)	0515	1,176	199.1	1,067	73.60	21.06	18	1.48	251.33	1
261	Acid Soluble Manganese (0.4%)	0498	0.3550*	0.0100	0.4180	0.0227	0.0083	52	-2.78	261.11	0
261	Acid Soluble Manganese (0.4%)	0486	0.3750	0.0100	0.4180	0.0227	0.0083	52	-1.90	261.35	0
261	Acid Soluble Manganese (0.4%)	0035	0.3840	0.0060	0.4180	0.0227	0.0083	52	-1.50	261.30	0
261	Acid Soluble Manganese (0.4%)	0444	0.3850	0.0300	0.4180	0.0227	0.0083	52	-1.45	261.32	0
261	Acid Soluble Manganese (0.4%)	0397	0.3932	0.0099	0.4180	0.0227	0.0083	52	-1.10	261.35	0
261	Acid Soluble Manganese (0.4%)	0291	0.3950	0.0100	0.4180	0.0227	0.0083	52	-1.01	261.30	0
261	Acid Soluble Manganese (0.4%)	0452	0.3950	0.0100	0.4180	0.0227	0.0083	52	-1.01	261.30	0
261	Acid Soluble Manganese (0.4%)	0055	0.3950	0.0100	0.4180	0.0227	0.0083	52	-1.01	261.32	0
261	Acid Soluble Manganese (0.4%)	0506	0.3950	0.0100	0.4180	0.0227	0.0083	52	-1.01	261.99	0
261	Acid Soluble Manganese (0.4%)	0423	0.3980	0.0120	0.4180	0.0227	0.0083	52	-0.88	261.34	0
261	Acid Soluble Manganese (0.4%)	0025	0.3990	0.0060	0.4180	0.0227	0.0083	52	-0.84	261.35	0
261	Acid Soluble Manganese (0.4%)	0117	0.3994	0.0010	0.4180	0.0227	0.0083	52	-0.82	261.35	0
261	Acid Soluble Manganese (0.4%)	0457	0.3995	0.0030	0.4180	0.0227	0.0083	52	-0.82	261.12	0
261	Acid Soluble Manganese (0.4%)	0230	0.4015	0.0130	0.4180	0.0227	0.0083	52	-0.73	261.31	0
261	Acid Soluble Manganese (0.4%)	0300	0.4032	0.0015	0.4180	0.0227	0.0083	52	-0.65	261.34	0
261	Acid Soluble Manganese (0.4%)	0516	0.4050	0.0100	0.4180	0.0227	0.0083	52	-0.57	261.00	0
261	Acid Soluble Manganese (0.4%)	0433	0.4052	0.0007	0.4180	0.0227	0.0083	52	-0.57	261.30	0
261	Acid Soluble Manganese (0.4%)	0515	0.4065	0.0048	0.4180	0.0227	0.0083	52	-0.51	261.35	0
261	Acid Soluble Manganese (0.4%)	0515	0.4075	0.0005	0.4180	0.0227	0.0083	52	-0.46	261.99	0
261	Acid Soluble Manganese (0.4%)	0389	0.4075	0.0010	0.4180	0.0227	0.0083	52	-0.46	261.99	0
261	Acid Soluble Manganese (0.4%)	0095	0.4100	0.0000	0.4180	0.0227	0.0083	52	-0.35	261.99	0
261	Acid Soluble Manganese (0.4%)	0420	0.4149	0.0023	0.4180	0.0227	0.0083	52	-0.14	261.30	0
261	Acid Soluble Manganese (0.4%)	0220	0.4150	0.0100	0.4180	0.0227	0.0083	52	-0.13	261.99	0
261	Acid Soluble Manganese (0.4%)	0523	0.4175	0.0130	0.4180	0.0227	0.0083	52	-0.02	261.99	0
261	Acid Soluble Manganese (0.4%)	0402	0.4195	0.0010	0.4180	0.0227	0.0083	52	0.07	261.32	0
261	Acid Soluble Manganese (0.4%)	0520	0.4198	0.0002	0.4180	0.0227	0.0083	52	0.08	261.32	0
261	Acid Soluble Manganese (0.4%)	0231	0.4200	0.0000	0.4180	0.0227	0.0083	52	0.09	261.30	0
261	Acid Soluble Manganese (0.4%)	0136	0.4200	0.0000	0.4180	0.0227	0.0083	52	0.09	261.35	0
261	Acid Soluble Manganese (0.4%)	0177	0.4209	0.0002	0.4180	0.0227	0.0083	52	0.13	261.35	0
261	Acid Soluble Manganese (0.4%)	0421	0.4215	0.0030	0.4180	0.0227	0.0083	52	0.15	261.35	0
261	Acid Soluble Manganese (0.4%)	0354	0.4230	0.0040	0.4180	0.0227	0.0083	52	0.22	261.30	0
261	Acid Soluble Manganese (0.4%)	0105	0.4235	0.0310	0.4180	0.0227	0.0083	52	0.24	261.15	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 (0.4%)	0324	0.4235	0.0030	0.4180	0.0227	0.0083	52	0.24	261.31	0
261	Acid Soluble Manganese (0.4%)	0037	0.4260	0.0260	0.4180	0.0227	0.0083	52	0.35	261.35	0
261	Acid Soluble Manganese (0.4%)	0029	0.4267	0.0030	0.4180	0.0227	0.0083	52	0.38	261.12	0
261	Acid Soluble Manganese (0.4%)	0043	0.4275	0.0030	0.4180	0.0227	0.0083	52	0.42	261.00	0
261	Acid Soluble Manganese (0.4%)	0360	0.4290	0.0040	0.4180	0.0227	0.0083	52	0.49	261.31	0
261	Acid Soluble Manganese (0.4%)	0511	0.4300	0.0000	0.4180	0.0227	0.0083	52	0.53	261.31	0
261	Acid Soluble Manganese (0.4%)	0042	0.4300	0.0000	0.4180	0.0227	0.0083	52	0.53	261.99	0
261	Acid Soluble Manganese (0.4%)	0368	0.4346	0.0166	0.4180	0.0227	0.0083	52	0.73	261.30	0
261	Acid Soluble Manganese (0.4%)	0096	0.4348	0.0041	0.4180	0.0227	0.0083	52	0.74	261.30	0
261	Acid Soluble Manganese (0.4%)	0040	0.4350	0.0020	0.4180	0.0227	0.0083	52	0.75	261.12	0
261	Acid Soluble Manganese (0.4%)	0472	0.4350	0.0100	0.4180	0.0227	0.0083	52	0.75	261.30	0
261	Acid Soluble Manganese (0.4%)	0524	0.4401	0.0099	0.4180	0.0227	0.0083	52	0.97	261.99	0
261	Acid Soluble Manganese (0.4%)	0105	0.4430	0.0140	0.4180	0.0227	0.0083	52	1.10	261.12	0
261	Acid Soluble Manganese (0.4%)	0482	0.4450	0.0100	0.4180	0.0227	0.0083	52	1.19	261.31	0
261	Acid Soluble Manganese (0.4%)	0483	0.4485	0.0070	0.4180	0.0227	0.0083	52	1.35	261.32	0
261	Acid Soluble Manganese (0.4%)	0521	0.4511	0.0000	0.4180	0.0227	0.0083	52	1.46	261.34	0
261	Acid Soluble Manganese (0.4%)	0102	0.4549	0.0195	0.4180	0.0227	0.0083	52	1.63	261.30	0
261	Acid Soluble Manganese (0.4%)	0027	0.4735	0.0070	0.4180	0.0227	0.0083	52	2.45	261.99	0
261	Acid Soluble Manganese (0.4%)	0422	0.4790	0.0040	0.4180	0.0227	0.0083	52	2.69	261.30	0
261	Acid Soluble Manganese (0.4%)	0390	0.4950	0.0660	0.4180	0.0227	0.0083	52	3.40	261.30	0
261	Acid Soluble Manganese (0.4%)	0377	1,133	44.00	0.4180	0.0227	0.0083	52	49950.48	261.30	2
261	Acid Soluble Manganese (0.4%)	0023	0.2035*	0.4070	0.4180	0.0227	0.0083	52		261.35	4
271	Water Soluble Manganese (%)	0444	0.2050	0.0100				1		271.30	0
281	Acid Soluble Mercury (ppm)	0515	16.08	0.2150	20.88	4.998	0.3763	4	-0.96	281.30	0
281	Acid Soluble Mercury (ppm)	0511	19.50	0.0000	20.88	4.998	0.3763	4	-0.28	281.00	0
281	Acid Soluble Mercury (ppm)	0117	20.03	1.290	20.88	4.998	0.3763	4	-0.17	281.00	0
281	Acid Soluble Mercury (ppm)	0487	27.90	0.0000	20.88	4.998	0.3763	4	1.41	281.99	0
289	Acid Soluble Molybdenum (250ppm)	0368	6.029	0.0550	9.214	1.427	0.4445	21	-2.23	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0515	7.317	1.608	9.214	1.427	0.4445	21	-1.33	289.33	0
289	Acid Soluble Molybdenum (250ppm)	0486	7.500	1.000	9.214	1.427	0.4445	21	-1.20	289.33	0
289	Acid Soluble Molybdenum (250ppm)	0096	7.750	0.1000	9.214	1.427	0.4445	21	-1.03	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0521	8.042	0.0000	9.214	1.427	0.4445	21	-0.82	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0433	8.560	0.2075	9.214	1.427	0.4445	21	-0.46	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0102	8.596	0.8960	9.214	1.427	0.4445	21	-0.43	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0300	8.773	0.1190	9.214	1.427	0.4445	21	-0.31	289.32	0
289	Acid Soluble Molybdenum (250ppm)	0452	9.100	0.0000	9.214	1.427	0.4445	21	-0.08	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0423	9.120	0.2800	9.214	1.427	0.4445	21	-0.07	289.33	0
289	Acid Soluble Molybdenum (250ppm)	0397	9.344	0.2223	9.214	1.427	0.4445	21	0.09	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0117	9.454	0.3980	9.214	1.427	0.4445	21	0.17	289.33	0
289	Acid Soluble Molybdenum (250ppm)	0230	9.590	0.1800	9.214	1.427	0.4445	21	0.26	289.34	0
289	Acid Soluble Molybdenum (250ppm)	0220	9.650	1.700	9.214	1.427	0.4445	21	0.31	289.99	0
289	Acid Soluble Molybdenum (250ppm)	0037	9.760	0.7200	9.214	1.427	0.4445	21	0.38	289.33	0
289	Acid Soluble Molybdenum (250ppm)	0220	9.900	0.0200	9.214	1.427	0.4445	21	0.48	289.33	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				
289	Acid Soluble Molybdenum (250ppm)	0009	9.900	0.2000	9.214	1.427	0.4445	21	0.48	289.99	0
289	Acid Soluble Molybdenum (250ppm)	0511	10.00	0.0000	9.214	1.427	0.4445	21	0.55	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0035	11.60	0.6000	9.214	1.427	0.4445	21	1.67	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0095	12.00	0.0000	9.214	1.427	0.4445	21	1.95	289.30	0
289	Acid Soluble Molybdenum (250ppm)	0042	12.34	1.030	9.214	1.427	0.4445	21	2.19	289.99	0
289	Acid Soluble Molybdenum (250ppm)	0515	6.463	2.728	9.214	1.427	0.4445	21	-1.93	289.34	1
291	Acid Soluble Nickel (ppm)	0444	28.09	0.2300	36.87	5.193	2.677	17	-1.69	291.30	0
291	Acid Soluble Nickel (ppm)	0523	29.79	1.120	36.87	5.193	2.677	17	-1.36	291.30	0
291	Acid Soluble Nickel (ppm)	0035	31.80	1.000	36.87	5.193	2.677	17	-0.98	291.30	0
291	Acid Soluble Nickel (ppm)	0482	32.00	0.6000	36.87	5.193	2.677	17	-0.94	291.30	0
291	Acid Soluble Nickel (ppm)	0506	33.75	4.500	36.87	5.193	2.677	17	-0.60	291.99	0
291	Acid Soluble Nickel (ppm)	0515	34.62	6.657	36.87	5.193	2.677	17	-0.43	291.34	0
291	Acid Soluble Nickel (ppm)	0521	35.03	0.0000	36.87	5.193	2.677	17	-0.35	291.30	0
291	Acid Soluble Nickel (ppm)	0524	37.07	4.148	36.87	5.193	2.677	17	0.04	291.30	0
291	Acid Soluble Nickel (ppm)	0230	37.95	3.300	36.87	5.193	2.677	17	0.21	291.34	0
291	Acid Soluble Nickel (ppm)	0515	38.12	8.818	36.87	5.193	2.677	17	0.24	291.33	0
291	Acid Soluble Nickel (ppm)	0220	38.60	1.800	36.87	5.193	2.677	17	0.33	291.99	0
291	Acid Soluble Nickel (ppm)	0300	39.11	0.4900	36.87	5.193	2.677	17	0.43	291.32	0
291	Acid Soluble Nickel (ppm)	0009	39.50	1.000	36.87	5.193	2.677	17	0.51	291.99	0
291	Acid Soluble Nickel (ppm)	0117	41.21	2.420	36.87	5.193	2.677	17	0.84	291.33	0
291	Acid Soluble Nickel (ppm)	0096	41.35	0.7000	36.87	5.193	2.677	17	0.86	291.30	0
291	Acid Soluble Nickel (ppm)	0452	43.19	1.070	36.87	5.193	2.677	17	1.22	291.30	0
291	Acid Soluble Nickel (ppm)	0102	44.93	7.649	36.87	5.193	2.677	17	1.55	291.30	0
291	Acid Soluble Nickel (ppm)	0368	53.25	19.49	36.87	5.193	2.677	17	3.15	291.30	1
301	Acid Soluble Selenium (ppm)	0009	1.800	0.2000	3.623	3.141	0.2733	3	-0.58	301.99	0
301	Acid Soluble Selenium (ppm)	0524	1.820	0.5200	3.623	3.141	0.2733	3	-0.57	301.30	0
301	Acid Soluble Selenium (ppm)	0520	7.250	0.1000	3.623	3.141	0.2733	3	1.15	301.30	0
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	3.623	3.141	0.2733	3		301.33	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	3.623	3.141	0.2733	3		301.34	4
311	Sodium (%)	0102	0.1617	0.0021	0.2881	0.0362	0.0053	7	-3.16	311.33	0
311	Sodium (%)	0035	0.2635	0.0130	0.2881	0.0362	0.0053	7	-0.61	311.33	0
311	Sodium (%)	0482	0.2850	0.0100	0.2881	0.0362	0.0053	7	-0.08	311.99	0
311	Sodium (%)	0521	0.2892	0.0000	0.2881	0.0362	0.0053	7	0.03	311.32	0
311	Sodium (%)	0096	0.3000	0.0000	0.2881	0.0362	0.0053	7	0.30	311.99	0
311	Sodium (%)	0423	0.3185	0.0010	0.2881	0.0362	0.0053	7	0.76	311.33	0
311	Sodium (%)	0354	0.3265	0.0110	0.2881	0.0362	0.0053	7	0.96	311.99	0
321	Acid Soluble Zinc (2%)	0515	1.797*	0.1595	2.013	0.1101	0.0573	55	-1.96	321.99	0
321	Acid Soluble Zinc (2%)	0472	1.850	0.0600	2.013	0.1101	0.0573	55	-1.48	321.30	0
321	Acid Soluble Zinc (2%)	0307	1.861	0.0390	2.013	0.1101	0.0573	55	-1.38	321.30	0
321	Acid Soluble Zinc (2%)	0291	1.865	0.0100	2.013	0.1101	0.0573	55	-1.34	321.30	0
321	Acid Soluble Zinc (2%)	0117	1.875	0.0040	2.013	0.1101	0.0573	55	-1.25	321.33	0
321	Acid Soluble Zinc (2%)	0043	1.880	0.0400	2.013	0.1101	0.0573	55	-1.21	321.00	0
321	Acid Soluble Zinc (2%)	0360	1.890	0.1000	2.013	0.1101	0.0573	55	-1.12	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 (2%)	0292	1.915	0.0100	2.013	0.1101	0.0573	55	-0.89	321.30	0
321	Acid Soluble Zinc (2%)	0422	1.925	0.0900	2.013	0.1101	0.0573	55	-0.80	321.30	0
321	Acid Soluble Zinc (2%)	0444	1.935	0.1100	2.013	0.1101	0.0573	55	-0.71	321.30	0
321	Acid Soluble Zinc (2%)	0482	1.935	0.0700	2.013	0.1101	0.0573	55	-0.71	321.30	0
321	Acid Soluble Zinc (2%)	0523	1.939	0.0110	2.013	0.1101	0.0573	55	-0.68	321.99	0
321	Acid Soluble Zinc (2%)	0037	1.945	0.0700	2.013	0.1101	0.0573	55	-0.62	321.33	0
321	Acid Soluble Zinc (2%)	0324	1.945	0.1500	2.013	0.1101	0.0573	55	-0.62	321.30	0
321	Acid Soluble Zinc (2%)	0428	1.947	0.0023	2.013	0.1101	0.0573	55	-0.60	321.00	0
321	Acid Soluble Zinc (2%)	0177	1.948	0.0317	2.013	0.1101	0.0573	55	-0.59	321.33	0
321	Acid Soluble Zinc (2%)	0498	1.950	0.1000	2.013	0.1101	0.0573	55	-0.57	321.00	0
321	Acid Soluble Zinc (2%)	0389	1.950	0.0000	2.013	0.1101	0.0573	55	-0.57	321.99	0
321	Acid Soluble Zinc (2%)	0169	1.959	0.0050	2.013	0.1101	0.0573	55	-0.49	321.00	0
321	Acid Soluble Zinc (2%)	0397	1.967	0.0487	2.013	0.1101	0.0573	55	-0.42	321.33	0
321	Acid Soluble Zinc (2%)	0300	1.970	0.0080	2.013	0.1101	0.0573	55	-0.39	321.32	0
321	Acid Soluble Zinc (2%)	0029	1.972	0.0660	2.013	0.1101	0.0573	55	-0.37	321.00	0
321	Acid Soluble Zinc (2%)	0055	1.975	0.0500	2.013	0.1101	0.0573	55	-0.34	321.30	0
321	Acid Soluble Zinc (2%)	0506	1.985	0.0300	2.013	0.1101	0.0573	55	-0.25	321.99	0
321	Acid Soluble Zinc (2%)	0040	1.986	0.0490	2.013	0.1101	0.0573	55	-0.25	321.00	0
321	Acid Soluble Zinc (2%)	0095	1.990	0.0200	2.013	0.1101	0.0573	55	-0.21	321.30	0
321	Acid Soluble Zinc (2%)	0354	1.997	0.0350	2.013	0.1101	0.0573	55	-0.15	321.30	0
321	Acid Soluble Zinc (2%)	0105	2.000	0.0640	2.013	0.1101	0.0573	55	-0.12	321.03	0
321	Acid Soluble Zinc (2%)	0220	2.015	0.0700	2.013	0.1101	0.0573	55	0.02	321.99	0
321	Acid Soluble Zinc (2%)	0368	2.020	0.0577	2.013	0.1101	0.0573	55	0.06	321.30	0
321	Acid Soluble Zinc (2%)	0136	2.020	0.0400	2.013	0.1101	0.0573	55	0.06	321.33	0
321	Acid Soluble Zinc (2%)	0433	2.026	0.0001	2.013	0.1101	0.0573	55	0.12	321.30	0
321	Acid Soluble Zinc (2%)	0516	2.030	0.0200	2.013	0.1101	0.0573	55	0.15	321.00	0
321	Acid Soluble Zinc (2%)	0025	2.030	0.0600	2.013	0.1101	0.0573	55	0.15	321.33	0
321	Acid Soluble Zinc (2%)	0515	2.033	0.0592	2.013	0.1101	0.0573	55	0.18	321.33	0
321	Acid Soluble Zinc (2%)	0230	2.035	0.3100	2.013	0.1101	0.0573	55	0.20	321.30	0
321	Acid Soluble Zinc (2%)	0105	2.037	0.0210	2.013	0.1101	0.0573	55	0.21	321.00	0
321	Acid Soluble Zinc (2%)	0027	2.039	0.0540	2.013	0.1101	0.0573	55	0.24	321.99	0
321	Acid Soluble Zinc (2%)	0096	2.039	0.0080	2.013	0.1101	0.0573	55	0.24	321.30	0
321	Acid Soluble Zinc (2%)	0420	2.040	0.0400	2.013	0.1101	0.0573	55	0.25	321.30	0
321	Acid Soluble Zinc (2%)	0521	2.061	0.0000	2.013	0.1101	0.0573	55	0.43	321.32	0
321	Acid Soluble Zinc (2%)	0042	2.080	0.1400	2.013	0.1101	0.0573	55	0.61	321.99	0
321	Acid Soluble Zinc (2%)	0157	2.090	0.1600	2.013	0.1101	0.0573	55	0.70	321.30	0
321	Acid Soluble Zinc (2%)	0102	2.095	0.0590	2.013	0.1101	0.0573	55	0.74	321.30	0
321	Acid Soluble Zinc (2%)	0423	2.115	0.0300	2.013	0.1101	0.0573	55	0.93	321.32	0
321	Acid Soluble Zinc (2%)	0520	2.136	0.0002	2.013	0.1101	0.0573	55	1.12	321.30	0
321	Acid Soluble Zinc (2%)	0035	2.155	0.0700	2.013	0.1101	0.0573	55	1.29	321.30	0
321	Acid Soluble Zinc (2%)	0231	2.170	0.0200	2.013	0.1101	0.0573	55	1.43	321.30	0
321	Acid Soluble Zinc (2%)	0457	2.178	0.0340	2.013	0.1101	0.0573	55	1.50	321.00	0
321	Acid Soluble Zinc (2%)	0452	2.190	0.0000	2.013	0.1101	0.0573	55	1.61	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 (2%)	0421	2.195	0.0900	2.013	0.1101	0.0573	55	1.65	321.33	0
321	Acid Soluble Zinc (2%)	0524	2.207	0.0037	2.013	0.1101	0.0573	55	1.77	321.99	0
321	Acid Soluble Zinc (2%)	0483	2.235	0.0300	2.013	0.1101	0.0573	55	2.02	321.30	0
321	Acid Soluble Zinc (2%)	0390	2.240	0.3200	2.013	0.1101	0.0573	55	2.06	321.30	0
321	Acid Soluble Zinc (2%)	0486	2.250	0.0200	2.013	0.1101	0.0573	55	2.15	321.33	0
321	Acid Soluble Zinc (2%)	0377	4,752	50.00	2.013	0.1101	0.0573	55	43133.58	321.30	2
325	Water Soluble Zinc (%)	0444	1.135	0.0300	1.758	0.4184	0.0600	4	-1.49	325.30	0
325	Water Soluble Zinc (%)	0406	1.895	0.0900	1.758	0.4184	0.0600	4	0.33	325.30	0
325	Water Soluble Zinc (%)	0402	1.975	0.0500	1.758	0.4184	0.0600	4	0.52	325.30	0
325	Water Soluble Zinc (%)	0518	2.025	0.0700	1.758	0.4184	0.0600	4	0.64	325.99	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.