

Analyte PT For All Labs
 Sample # 240811
 Grade 21-7-14

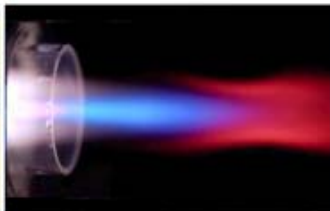
Magruder Fertilizer Proficiency Testing Program
 Regular PT Scheme
 Statistical Summary

Analytes: 39
 # Labs Reporting: 66
 Issue Date : 09/30/2024

Analyte Code	Analyte Sample # 240811	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Hornitz %RSD
001	Ammoniacal N (%)	28	27	11.01	0.2830	11.05		0.1755	0.0422	1.59%		0.0897	2.79%
002	Nitrate N (%)	22	21	9.889	0.6525	9.903		0.3358	0.0916	3.39%		0.1001	2.83%
005	Urea N (%)	1		0.4956									
009	Ammoniacal Plus Nitrate N (%)	5	5	20.90	0.0994	20.90		0.0994	0.0556	0.48%		0.1620	2.19%
010	Total N (21%)	52	51	20.87	0.5968	20.87	0.7387	0.5123	0.0897	2.45%	1.62	0.1548	2.19%
020	Total P2O5 (%)	34	32	6.879	0.5483	6.979		0.2801	0.0619	4.01%		0.0963	2.99%
030	Citrate Insoluble P2O5 (%)	1		0.0100									
040	Indirect Available P2O5 (7%)	2	2	6.975	0.2404								
041	Direct Available P2O5 (7%)	41	40	6.879	0.2964	6.908	0.6791	0.2274	0.0449	3.29%	0.78	0.0715	2.99%
048	Water Soluble P2O5 (%)	9	9	5.186	0.2100	5.183		0.2302	0.0959	4.44%		0.0766	3.12%
050	Soluble K2O (14%)	65	64	13.93	0.6271	13.97	0.8689	0.4944	0.0773	3.54%	1.33	0.1485	2.68%
060	Water (Free) (%)	3	3	0.9233	0.4197	0.9233		0.4197	0.3029	45.45%		0.1074	4.05%
101	Acid Soluble Ca (%)	10	9	1.985	0.3469	1.936	0.2968	0.3395	0.1415	17.54%	2.67	0.0224	3.62%
121	Acid Soluble Mg (%)	12	12	0.1244	0.0433	0.1229	0.2061	0.0280	0.0101	22.75%	0.32	0.0202	5.48%
131	Water Soluble Mg (%)	1		0.0800									
143	Elemental S (%)	4	3	3.467	4.165	4.622		4.245	3.064	91.85%		0.1800	3.18%
145	Sulfate S, HCl soluble (%)	10	10	5.186	0.1878	5.170		0.1540	0.0609	2.98%		0.0847	3.12%
146	Total S in Liquid (5.1%)	1		5.240									
148	Total S (5.1%)	40	38	5.076	0.3972	5.132	0.4566	0.2374	0.0481	4.63%	1.21	0.0891	3.13%
149	S - HNO3 soluble (%)	4	4	5.112	0.3746	5.112		0.3746	0.2341	7.33%		0.1082	3.13%
151	Acid Soluble As (ppm)	13	11	6.563	3.912	6.953		3.608	1.360	51.89%		0.9439	11.95%
165	Acid Soluble B (%)	8	5	0.0268	0.0581	0.0366	0.0085	0.0747	0.0418	204.25%	20.51	0.1101	6.58%
171	Water Soluble B (%)	1		0.0112									
181	Acid Soluble Cd (ppm)	14	8	0.7479	0.4832	0.5796		0.0697	0.0308	12.03%		0.0141	17.37%
190	Water Soluble Cl (%)	1		0.2600									
191	Acid Soluble Cr (ppm)	13	12	14.51	3.321	14.13		2.238	0.8074	15.83%		0.4722	10.74%
202	Acid Soluble Co (ppm)	11	6	0.7520	0.6806	0.6248	1.1874	0.1265	0.0646	20.25%	0.25	0.0340	17.17%
221	Acid Soluble Cu (%)	15	13	0.5227	2.013	0.0010	0.0051	0.0002	0.0001	23.71%	0.10	0.0001	11.39%
241	Acid Soluble Fe (%)	13	10	0.0441	0.0284	0.0513	0.0101	0.0193	0.0076	37.70%	4.45	0.0012	6.25%

Analyte Code	Analyte Sample # 240811	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
251	Acid Soluble Pb (ppm)	13	9	2.589	1.322	2.406		0.9826	0.4094	40.83%		0.1000	14.02%
261	Acid Soluble Mn (%)	8	6	0.0079	0.0059	0.0043	0.0054	0.0005	0.0003	12.09%	0.22	0.0002	9.09%
281	Acid Soluble Hg (ppm)	7	1	0.4816	0.8113	0.0043		0.0005	0.0006	12.09%		0.0000	22.00%
289	Acid Soluble Mo (ppm)	10	6	1.071	1.030	0.7327	1.2198	0.1733	0.0885	23.66%	0.33	0.1191	16.76%
291	Acid Soluble Ni (ppm)	14	11	4.294	5.323	3.396		0.3814	0.1438	11.23%		0.1532	13.31%
301	Acid Soluble Se (ppm)	11	3	4.019	6.462	10.49		9.010	6.502	85.93%		0.6593	11.23%
311	Sodium (%)	7	7	0.1586	0.0174	0.1586	0.0209	0.0197	0.0093	12.43%	2.20	0.0069	5.28%
321	Acid Soluble Zn (%)	16	14	0.0041	0.0048	0.0023	0.0052	0.0007	0.0002	29.84%	0.30	0.0005	10.00%
325	Water Soluble Zn (%)	1		0.0011									
431	Soluble Si in nonliquids (%)	1		0.0060									

The Analyte IA Ratio = 2.33 * Robust SD / IA at the Analyte Assigned Value. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting. The Horwitz %RSD is calculated using the Thompson Modification, Analyst,2000,125,385-386.



Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 39

Sample # 240811

Regular PT Scheme

Labs Reporting: 66

Grade 21-7-14

Lab Values

Issue Date : 09/30/2024

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
001	Ammoniacal N (%)	0389	10.44	0.0800	11.05	0.1755	0.0897	27	-3.48	001.10	0
001	Ammoniacal N (%)	0451	10.68	0.1900	11.05	0.1755	0.0897	27	-2.14	001.10	0
001	Ammoniacal N (%)	0231	10.76	0.2400	11.05	0.1755	0.0897	27	-1.65	001.10	0
001	Ammoniacal N (%)	0524	10.79	0.0190	11.05	0.1755	0.0897	27	-1.45	001.99	0
001	Ammoniacal N (%)	0605	10.82	0.1200	11.05	0.1755	0.0897	27	-1.31	001.99	0
001	Ammoniacal N (%)	0394	10.91	0.0180	11.05	0.1755	0.0897	27	-0.80	001.99	0
001	Ammoniacal N (%)	0136	10.95	0.0800	11.05	0.1755	0.0897	27	-0.57	001.99	0
001	Ammoniacal N (%)	0517	11.03	0.1500	11.05	0.1755	0.0897	27	-0.14	001.99	0
001	Ammoniacal N (%)	0553	11.04	0.0700	11.05	0.1755	0.0897	27	-0.09	001.99	0
001	Ammoniacal N (%)	0444	11.05	0.1000	11.05	0.1755	0.0897	27	0.00	001.10	0
001	Ammoniacal N (%)	0562	11.05	0.0600	11.05	0.1755	0.0897	27	0.00	001.99	0
001	Ammoniacal N (%)	0600	11.05	0.0600	11.05	0.1755	0.0897	27	0.00	001.99	0
001	Ammoniacal N (%)	0538	11.06	0.1500	11.05	0.1755	0.0897	27	0.03	001.99	0
001	Ammoniacal N (%)	0513	11.07	0.0300	11.05	0.1755	0.0897	27	0.09	001.99	0
001	Ammoniacal N (%)	0564	11.08	0.0500	11.05	0.1755	0.0897	27	0.14	001.99	0
001	Ammoniacal N (%)	0584	11.08	0.1100	11.05	0.1755	0.0897	27	0.14	001.99	0
001	Ammoniacal N (%)	0405	11.09	0.0500	11.05	0.1755	0.0897	27	0.20	001.99	0
001	Ammoniacal N (%)	0537	11.09	0.1400	11.05	0.1755	0.0897	27	0.23	001.99	0
001	Ammoniacal N (%)	0510	11.09	0.0057	11.05	0.1755	0.0897	27	0.26	001.99	0
001	Ammoniacal N (%)	0423	11.10	0.0300	11.05	0.1755	0.0897	27	0.26	001.99	0
001	Ammoniacal N (%)	0619	11.20	0.0000	11.05	0.1755	0.0897	27	0.86	001.10	0
001	Ammoniacal N (%)	0619	11.20	0.0000	11.05	0.1755	0.0897	27	0.86	001.99	0
001	Ammoniacal N (%)	0549	11.22	0.0100	11.05	0.1755	0.0897	27	0.94	001.99	0
001	Ammoniacal N (%)	0027	11.24	0.1100	11.05	0.1755	0.0897	27	1.05	001.99	0
001	Ammoniacal N (%)	0220	11.25	0.2000	11.05	0.1755	0.0897	27	1.14	001.99	0
001	Ammoniacal N (%)	0559	11.26	0.0100	11.05	0.1755	0.0897	27	1.17	001.99	0
001	Ammoniacal N (%)	0255	11.71	0.5500	11.05	0.1755	0.0897	27	3.73	001.99	0
001	Ammoniacal N (%)	0572	10.14	1.460	11.05	0.1755	0.0897	27	-5.19	001.99	1
002	Nitrate N (%)	0220	7.625	0.0700	9.903	0.3358	0.1001	21	-6.78	002.99	0
002	Nitrate N (%)	0029	9.405	0.0700	9.903	0.3358	0.1001	21	-1.48	002.99	0
002	Nitrate N (%)	0553	9.530	0.5000	9.903	0.3358	0.1001	21	-1.11	002.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
002	Nitrate N (%)	0564	9.585	0.0300	9.903	0.3358	0.1001	21	-0.95	002.99	0
002	Nitrate N (%)	0518	9.650	0.1000	9.903	0.3358	0.1001	21	-0.75	002.99	0
002	Nitrate N (%)	0562	9.770	0.1400	9.903	0.3358	0.1001	21	-0.40	002.99	0
002	Nitrate N (%)	0600	9.770	0.1400	9.903	0.3358	0.1001	21	-0.40	002.99	0
002	Nitrate N (%)	0605	9.835	0.1300	9.903	0.3358	0.1001	21	-0.20	002.99	0
002	Nitrate N (%)	0517	9.850	0.1000	9.903	0.3358	0.1001	21	-0.16	002.99	0
002	Nitrate N (%)	0584	9.875	0.0700	9.903	0.3358	0.1001	21	-0.08	002.99	0
002	Nitrate N (%)	0537	9.885	0.1900	9.903	0.3358	0.1001	21	-0.05	002.99	0
002	Nitrate N (%)	0538	9.895	0.0700	9.903	0.3358	0.1001	21	-0.02	002.99	0
002	Nitrate N (%)	0444	9.900	0.2000	9.903	0.3358	0.1001	21	-0.01	002.99	0
002	Nitrate N (%)	0549	9.965	0.0300	9.903	0.3358	0.1001	21	0.18	002.99	0
002	Nitrate N (%)	0513	10.06	0.0200	9.903	0.3358	0.1001	21	0.47	002.99	0
002	Nitrate N (%)	0394	10.10	0.0380	9.903	0.3358	0.1001	21	0.58	002.99	0
002	Nitrate N (%)	0231	10.13	0.1800	9.903	0.3358	0.1001	21	0.68	002.99	0
002	Nitrate N (%)	0027	10.22	0.0400	9.903	0.3358	0.1001	21	0.94	002.99	0
002	Nitrate N (%)	0559	10.33	0.0100	9.903	0.3358	0.1001	21	1.26	002.99	0
002	Nitrate N (%)	0423	10.54	0.0400	9.903	0.3358	0.1001	21	1.90	002.99	0
002	Nitrate N (%)	0547	11.40	0.4000	9.903	0.3358	0.1001	21	4.46	002.99	0
002	Nitrate N (%)	0136	10.25	1.130	9.903	0.3358	0.1001	21	1.02	002.99	1
005	Urea N (%)	0524	0.4956	0.0009				1		005.99	0
009	Ammoniacal Plus Nitrate N (%)	0517	20.80	0.2000	20.90	0.0994	0.1620	5	-1.00	009.10	0
009	Ammoniacal Plus Nitrate N (%)	0619	20.85	0.1000	20.90	0.0994	0.1620	5	-0.49	009.10	0
009	Ammoniacal Plus Nitrate N (%)	0619	20.85	0.1000	20.90	0.0994	0.1620	5	-0.49	009.99	0
009	Ammoniacal Plus Nitrate N (%)	0537	20.95	0.1100	20.90	0.0994	0.1620	5	0.46	009.10	0
009	Ammoniacal Plus Nitrate N (%)	0444	21.05	0.3000	20.90	0.0994	0.1620	5	1.52	009.10	0
010	Total N (21%)	0324	19.75†	0.5000	20.87	0.5123	0.1548	51	-2.18	010.60	0
010	Total N (21%)	0588	19.85†	0.1000	20.87	0.5123	0.1548	51	-1.99	010.60	0
010	Total N (21%)	0523	19.90†	0.3300	20.87	0.5123	0.1548	51	-1.90	010.60	0
010	Total N (21%)	0102	20.01†	0.0300	20.87	0.5123	0.1548	51	-1.69	010.60	0
010	Total N (21%)	0572	20.10†	0.4700	20.87	0.5123	0.1548	51	-1.51	010.12	0
010	Total N (21%)	0095	20.12†	0.2900	20.87	0.5123	0.1548	51	-1.47	010.60	0
010	Total N (21%)	0042	20.25	0.6020	20.87	0.5123	0.1548	51	-1.21	010.60	0
010	Total N (21%)	0035	20.25	0.3000	20.87	0.5123	0.1548	51	-1.21	010.60	0
010	Total N (21%)	0185	20.26	0.1400	20.87	0.5123	0.1548	51	-1.19	010.60	0
010	Total N (21%)	0422	20.26	0.0400	20.87	0.5123	0.1548	51	-1.19	010.60	0
010	Total N (21%)	0524	20.58	0.0090	20.87	0.5123	0.1548	51	-0.56	010.99	0
010	Total N (21%)	0029	20.59	0.1400	20.87	0.5123	0.1548	51	-0.54	010.60	0
010	Total N (21%)	0521	20.64	0.0000	20.87	0.5123	0.1548	51	-0.46	010.60	0
010	Total N (21%)	0562	20.65	0.1000	20.87	0.5123	0.1548	51	-0.43	010.99	0
010	Total N (21%)	0600	20.65	0.1000	20.87	0.5123	0.1548	51	-0.43	010.99	0
010	Total N (21%)	0169	20.66	0.0300	20.87	0.5123	0.1548	51	-0.42	010.60	0
010	Total N (21%)	0605	20.66	0.0100	20.87	0.5123	0.1548	51	-0.42	010.99	0
010	Total N (21%)	0055	20.67	0.0400	20.87	0.5123	0.1548	51	-0.40	010.60	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
010	Total N (21%)	0389	20.70	0.0200	20.87	0.5123	0.1548	51	-0.33	010.60	0
010	Total N (21%)	0564	20.78	0.0300	20.87	0.5123	0.1548	51	-0.18	010.99	0
010	Total N (21%)	0451	20.82	0.1500	20.87	0.5123	0.1548	51	-0.11	010.60	0
010	Total N (21%)	0543	20.84	0.1800	20.87	0.5123	0.1548	51	-0.06	010.60	0
010	Total N (21%)	0231	20.88	0.1300	20.87	0.5123	0.1548	51	0.01	010.60	0
010	Total N (21%)	0234	20.88	0.1200	20.87	0.5123	0.1548	51	0.02	010.60	0
010	Total N (21%)	0423	20.90	0.0200	20.87	0.5123	0.1548	51	0.06	010.60	0
010	Total N (21%)	0561	20.90	0.0600	20.87	0.5123	0.1548	51	0.06	010.60	0
010	Total N (21%)	0538	20.95	0.0800	20.87	0.5123	0.1548	51	0.16	010.99	0
010	Total N (21%)	0510	21.00	0.1854	20.87	0.5123	0.1548	51	0.25	010.11	0
010	Total N (21%)	0025	21.00	0.5000	20.87	0.5123	0.1548	51	0.26	010.60	0
010	Total N (21%)	0136	21.01	0.1000	20.87	0.5123	0.1548	51	0.28	010.60	0
010	Total N (21%)	0220	21.03	0.1100	20.87	0.5123	0.1548	51	0.30	010.60	0
010	Total N (21%)	0043	21.03	0.0400	20.87	0.5123	0.1548	51	0.31	010.60	0
010	Total N (21%)	0444	21.05	0.3000	20.87	0.5123	0.1548	51	0.35	010.99	0
010	Total N (21%)	0354	21.05	0.1000	20.87	0.5123	0.1548	51	0.35	010.60	0
010	Total N (21%)	0527	21.08	0.3340	20.87	0.5123	0.1548	51	0.42	010.60	0
010	Total N (21%)	0485	21.10	0.4000	20.87	0.5123	0.1548	51	0.45	010.60	0
010	Total N (21%)	0513	21.13	0.0100	20.87	0.5123	0.1548	51	0.50	010.99	0
010	Total N (21%)	0177	21.14	0.1050	20.87	0.5123	0.1548	51	0.53	010.60	0
010	Total N (21%)	0472	21.16	0.1500	20.87	0.5123	0.1548	51	0.56	010.60	0
010	Total N (21%)	0494	21.17	0.0800	20.87	0.5123	0.1548	51	0.59	010.60	0
010	Total N (21%)	0040	21.20	0.0000	20.87	0.5123	0.1548	51	0.65	010.60	0
010	Total N (21%)	0405	21.24	0.0100	20.87	0.5123	0.1548	51	0.71	010.60	0
010	Total N (21%)	0049	21.29	0.4600	20.87	0.5123	0.1548	51	0.82	010.60	0
010	Total N (21%)	0518	21.30	0.2000	20.87	0.5123	0.1548	51	0.84	010.99	0
010	Total N (21%)	0027	21.42	0.1500	20.87	0.5123	0.1548	51	1.07	010.17	0
010	Total N (21%)	0292	21.55	0.5500	20.87	0.5123	0.1548	51	1.32	010.60	0
010	Total N (21%)	0307	21.55	0.1000	20.87	0.5123	0.1548	51	1.33	010.60	0
010	Total N (21%)	0559	21.58	0.0100	20.87	0.5123	0.1548	51	1.38	010.99	0
010	Total N (21%)	0073	21.87‡	0.0000	20.87	0.5123	0.1548	51	1.95	010.60	0
010	Total N (21%)	0255	22.32‡	0.0210	20.87	0.5123	0.1548	51	2.84	010.60	0
010	Total N (21%)	0023	22.81‡	0.3440	20.87	0.5123	0.1548	51	3.79	010.60	0
010	Total N (21%)	0542	19.77†	0.9300	20.87	0.5123	0.1548	51	-2.15	010.60	1
020	Total P2O5 (%)	0423	6.189	0.0060	6.979	0.2801	0.0963	32	-2.82	020.50	0
020	Total P2O5 (%)	0543	6.225	0.1010	6.979	0.2801	0.0963	32	-2.69	020.50	0
020	Total P2O5 (%)	0255	6.461	0.0550	6.979	0.2801	0.0963	32	-1.85	020.50	0
020	Total P2O5 (%)	0524	6.632	0.0223	6.979	0.2801	0.0963	32	-1.24	020.50	0
020	Total P2O5 (%)	0389	6.660	0.0400	6.979	0.2801	0.0963	32	-1.14	020.50	0
020	Total P2O5 (%)	0510	6.712	0.0017	6.979	0.2801	0.0963	32	-0.95	020.20	0
020	Total P2O5 (%)	0444	6.715	0.1100	6.979	0.2801	0.0963	32	-0.94	020.50	0
020	Total P2O5 (%)	0405	6.815	0.0500	6.979	0.2801	0.0963	32	-0.58	020.20	0
020	Total P2O5 (%)	0472	6.825	0.0300	6.979	0.2801	0.0963	32	-0.55	020.50	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
020	Total P2O5 (%)	0513	6.835	0.0300	6.979	0.2801	0.0963	32	-0.51	020.99	0
020	Total P2O5 (%)	0451	6.880	0.1460	6.979	0.2801	0.0963	32	-0.35	020.50	0
020	Total P2O5 (%)	0394	6.887	0.0060	6.979	0.2801	0.0963	32	-0.33	020.20	0
020	Total P2O5 (%)	0035	6.900	0.0000	6.979	0.2801	0.0963	32	-0.28	020.40	0
020	Total P2O5 (%)	0561	6.920	0.0200	6.979	0.2801	0.0963	32	-0.21	020.20	0
020	Total P2O5 (%)	0444	6.975	0.0500	6.979	0.2801	0.0963	32	-0.01	020.10	0
020	Total P2O5 (%)	0572	6.975	0.1700	6.979	0.2801	0.0963	32	-0.01	020.99	0
020	Total P2O5 (%)	0619	7.005	0.4100	6.979	0.2801	0.0963	32	0.09	020.10	0
020	Total P2O5 (%)	0169	7.025	0.0100	6.979	0.2801	0.0963	32	0.17	020.50	0
020	Total P2O5 (%)	0231	7.030	0.0400	6.979	0.2801	0.0963	32	0.18	020.20	0
020	Total P2O5 (%)	0234	7.045	0.2500	6.979	0.2801	0.0963	32	0.24	020.50	0
020	Total P2O5 (%)	0619	7.085	0.0900	6.979	0.2801	0.0963	32	0.38	020.50	0
020	Total P2O5 (%)	0619	7.085	0.0900	6.979	0.2801	0.0963	32	0.38	020.99	0
020	Total P2O5 (%)	0588	7.170	0.5600	6.979	0.2801	0.0963	32	0.68	020.50	0
020	Total P2O5 (%)	0324	7.190	0.2000	6.979	0.2801	0.0963	32	0.75	020.20	0
020	Total P2O5 (%)	0292	7.205	0.0100	6.979	0.2801	0.0963	32	0.81	020.20	0
020	Total P2O5 (%)	0515	7.213	1.002	6.979	0.2801	0.0963	32	0.84	020.99	0
020	Total P2O5 (%)	0307	7.215	0.3900	6.979	0.2801	0.0963	32	0.84	020.50	0
020	Total P2O5 (%)	0559	7.265	0.0100	6.979	0.2801	0.0963	32	1.02	020.99	0
020	Total P2O5 (%)	0422	7.280	0.4538	6.979	0.2801	0.0963	32	1.08	020.50	0
020	Total P2O5 (%)	0527	7.329	0.0548	6.979	0.2801	0.0963	32	1.25	020.50	0
020	Total P2O5 (%)	0564	7.370	0.0400	6.979	0.2801	0.0963	32	1.40	020.99	0
020	Total P2O5 (%)	0523	7.550	0.1000	6.979	0.2801	0.0963	32	2.04	020.50	0
020	Total P2O5 (%)	0042	6.956	1.665	6.979	0.2801	0.0963	32	-0.08	020.40	1
020	Total P2O5 (%)	0552	4.280	0.5000	6.979	0.2801	0.0963	32	-9.63	020.50	2
030	Citrate Insoluble P2O5 (%)	0405	0.0100	0.0000				1		030.20	0
040	Indirect Available P2O5 (7%)	0405	6.805‡	0.0500				2		040.99	0
040	Indirect Available P2O5 (7%)	0572	7.145‡	0.5300				2		040.99	0
041	Direct Available P2O5 (7%)	0521	6.124†	0.0000	6.908	0.2274	0.0715	40	-3.45	041.50	0
041	Direct Available P2O5 (7%)	0472	6.170†	0.0200	6.908	0.2274	0.0715	40	-3.25	041.21	0
041	Direct Available P2O5 (7%)	0423	6.316	0.0070	6.908	0.2274	0.0715	40	-2.61	041.51	0
041	Direct Available P2O5 (7%)	0055	6.433	0.0050	6.908	0.2274	0.0715	40	-2.09	041.21	0
041	Direct Available P2O5 (7%)	0049	6.480	0.0200	6.908	0.2274	0.0715	40	-1.88	041.11	0
041	Direct Available P2O5 (7%)	0095	6.605	0.1900	6.908	0.2274	0.0715	40	-1.33	041.21	0
041	Direct Available P2O5 (7%)	0072	6.695	0.1500	6.908	0.2274	0.0715	40	-0.94	041.51	0
041	Direct Available P2O5 (7%)	0513	6.730	0.0200	6.908	0.2274	0.0715	40	-0.78	041.11	0
041	Direct Available P2O5 (7%)	0547	6.750	0.1000	6.908	0.2274	0.0715	40	-0.70	041.51	0
041	Direct Available P2O5 (7%)	0086	6.765	0.0817	6.908	0.2274	0.0715	40	-0.63	041.10	0
041	Direct Available P2O5 (7%)	0055	6.798	0.1650	6.908	0.2274	0.0715	40	-0.49	041.11	0
041	Direct Available P2O5 (7%)	0405	6.815	0.0100	6.908	0.2274	0.0715	40	-0.41	041.11	0
041	Direct Available P2O5 (7%)	0485	6.820	0.0200	6.908	0.2274	0.0715	40	-0.39	041.11	0
041	Direct Available P2O5 (7%)	0605	6.850	0.2000	6.908	0.2274	0.0715	40	-0.26	041.50	0
041	Direct Available P2O5 (7%)	0394	6.868	0.0290	6.908	0.2274	0.0715	40	-0.18	041.21	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
041	Direct Available P2O5 (7%)	0553	6.880	0.0200	6.908	0.2274	0.0715	40	-0.13	041.20	0
041	Direct Available P2O5 (7%)	0220	6.890	0.0400	6.908	0.2274	0.0715	40	-0.08	041.11	0
041	Direct Available P2O5 (7%)	0040	6.900	0.0000	6.908	0.2274	0.0715	40	-0.04	041.51	0
041	Direct Available P2O5 (7%)	0177	6.915	0.0483	6.908	0.2274	0.0715	40	0.03	041.10	0
041	Direct Available P2O5 (7%)	0029	6.925	0.1500	6.908	0.2274	0.0715	40	0.07	041.40	0
041	Direct Available P2O5 (7%)	0572	6.930	0.1000	6.908	0.2274	0.0715	40	0.09	041.99	0
041	Direct Available P2O5 (7%)	0102	6.945	0.0100	6.908	0.2274	0.0715	40	0.16	041.10	0
041	Direct Available P2O5 (7%)	0136	6.950	0.1000	6.908	0.2274	0.0715	40	0.18	041.51	0
041	Direct Available P2O5 (7%)	0117	6.969	0.0757	6.908	0.2274	0.0715	40	0.27	041.51	0
041	Direct Available P2O5 (7%)	0027	6.980	0.0400	6.908	0.2274	0.0715	40	0.31	041.20	0
041	Direct Available P2O5 (7%)	0517	7.000	0.1000	6.908	0.2274	0.0715	40	0.40	041.11	0
041	Direct Available P2O5 (7%)	0562	7.000	0.0800	6.908	0.2274	0.0715	40	0.40	041.99	0
041	Direct Available P2O5 (7%)	0600	7.000	0.0800	6.908	0.2274	0.0715	40	0.40	041.99	0
041	Direct Available P2O5 (7%)	0043	7.001	0.0110	6.908	0.2274	0.0715	40	0.40	041.51	0
041	Direct Available P2O5 (7%)	0538	7.015	0.0700	6.908	0.2274	0.0715	40	0.47	041.99	0
041	Direct Available P2O5 (7%)	0185	7.020	0.1200	6.908	0.2274	0.0715	40	0.49	041.11	0
041	Direct Available P2O5 (7%)	0073	7.025	0.0900	6.908	0.2274	0.0715	40	0.51	041.11	0
041	Direct Available P2O5 (7%)	0584	7.025	0.0900	6.908	0.2274	0.0715	40	0.51	041.99	0
041	Direct Available P2O5 (7%)	0494	7.100	0.0000	6.908	0.2274	0.0715	40	0.84	041.51	0
041	Direct Available P2O5 (7%)	0549	7.150	0.0200	6.908	0.2274	0.0715	40	1.06	041.99	0
041	Direct Available P2O5 (7%)	0518	7.200	0.2000	6.908	0.2274	0.0715	40	1.28	041.99	0
041	Direct Available P2O5 (7%)	0023	7.240	0.0060	6.908	0.2274	0.0715	40	1.46	041.51	0
041	Direct Available P2O5 (7%)	0231	7.260	0.0400	6.908	0.2274	0.0715	40	1.55	041.21	0
041	Direct Available P2O5 (7%)	0354	7.410	0.3400	6.908	0.2274	0.0715	40	2.21	041.21	0
041	Direct Available P2O5 (7%)	0537	7.585	0.0700	6.908	0.2274	0.0715	40	2.97	041.99	0
041	Direct Available P2O5 (7%)	0177	6.514	0.3704	6.908	0.2274	0.0715	40	-1.74	041.21	1
048	Water Soluble P2O5 (%)	0472	4.895	0.0100	5.183	0.2302	0.0766	9	-1.15	048.20	0
048	Water Soluble P2O5 (%)	0394	4.910	0.0100	5.183	0.2302	0.0766	9	-1.09	048.20	0
048	Water Soluble P2O5 (%)	0513	5.025	0.0100	5.183	0.2302	0.0766	9	-0.63	048.99	0
048	Water Soluble P2O5 (%)	0619	5.240	0.0800	5.183	0.2302	0.0766	9	0.23	048.10	0
048	Water Soluble P2O5 (%)	0619	5.240	0.0800	5.183	0.2302	0.0766	9	0.23	048.99	0
048	Water Soluble P2O5 (%)	0619	5.265	0.0300	5.183	0.2302	0.0766	9	0.33	048.50	0
048	Water Soluble P2O5 (%)	0444	5.270	0.0600	5.183	0.2302	0.0766	9	0.35	048.10	0
048	Water Soluble P2O5 (%)	0444	5.270	0.2000	5.183	0.2302	0.0766	9	0.35	048.50	0
048	Water Soluble P2O5 (%)	0572	5.560	0.3400	5.183	0.2302	0.0766	9	1.51	048.99	0
050	Soluble K2O (14%)	0524	11.76†	0.0126	13.97	0.4944	0.1485	64	-4.48	050.99	0
050	Soluble K2O (14%)	0472	11.99†	0.0600	13.97	0.4944	0.1485	64	-4.01	050.32	0
050	Soluble K2O (14%)	0423	12.68†	0.0080	13.97	0.4944	0.1485	64	-2.62	050.52	0
050	Soluble K2O (14%)	0523	12.80†	0.2000	13.97	0.4944	0.1485	64	-2.37	050.99	0
050	Soluble K2O (14%)	0543	12.84†	0.1130	13.97	0.4944	0.1485	64	-2.30	050.52	0
050	Soluble K2O (14%)	0521	12.88†	0.0000	13.97	0.4944	0.1485	64	-2.21	050.99	0
050	Soluble K2O (14%)	0552	13.16	0.3500	13.97	0.4944	0.1485	64	-1.65	050.99	0
050	Soluble K2O (14%)	0157	13.35	0.1000	13.97	0.4944	0.1485	64	-1.26	050.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
050	Soluble K2O (14%)	0055	13.36	0.1950	13.97	0.4944	0.1485	64	-1.24	050.50	0
050	Soluble K2O (14%)	0292	13.44	0.0600	13.97	0.4944	0.1485	64	-1.08	050.50	0
050	Soluble K2O (14%)	0177	13.44	0.0067	13.97	0.4944	0.1485	64	-1.08	050.99	0
050	Soluble K2O (14%)	0157	13.50	0.2000	13.97	0.4944	0.1485	64	-0.96	050.30	0
050	Soluble K2O (14%)	0619	13.55	0.3000	13.97	0.4944	0.1485	64	-0.85	050.50	0
050	Soluble K2O (14%)	0485	13.65	0.1000	13.97	0.4944	0.1485	64	-0.65	050.52	0
050	Soluble K2O (14%)	0043	13.66	0.0600	13.97	0.4944	0.1485	64	-0.63	050.52	0
050	Soluble K2O (14%)	0035	13.70	0.2000	13.97	0.4944	0.1485	64	-0.55	050.61	0
050	Soluble K2O (14%)	0389	13.75	0.0300	13.97	0.4944	0.1485	64	-0.46	050.99	0
050	Soluble K2O (14%)	0619	13.75	0.1000	13.97	0.4944	0.1485	64	-0.45	050.00	0
050	Soluble K2O (14%)	0619	13.75	0.1000	13.97	0.4944	0.1485	64	-0.45	050.99	0
050	Soluble K2O (14%)	0324	13.80	0.6000	13.97	0.4944	0.1485	64	-0.35	050.50	0
050	Soluble K2O (14%)	0354	13.80	0.2000	13.97	0.4944	0.1485	64	-0.35	050.52	0
050	Soluble K2O (14%)	0220	13.81	0.0600	13.97	0.4944	0.1485	64	-0.33	050.00	0
050	Soluble K2O (14%)	0027	13.81	0.2200	13.97	0.4944	0.1485	64	-0.33	050.99	0
050	Soluble K2O (14%)	0231	13.81	0.0000	13.97	0.4944	0.1485	64	-0.33	050.00	0
050	Soluble K2O (14%)	0055	13.86	0.0800	13.97	0.4944	0.1485	64	-0.24	050.00	0
050	Soluble K2O (14%)	0553	13.88	0.0900	13.97	0.4944	0.1485	64	-0.20	050.99	0
050	Soluble K2O (14%)	0559	13.89	0.0100	13.97	0.4944	0.1485	64	-0.18	050.99	0
050	Soluble K2O (14%)	0117	13.92	0.0892	13.97	0.4944	0.1485	64	-0.11	050.52	0
050	Soluble K2O (14%)	0072	13.92	0.0600	13.97	0.4944	0.1485	64	-0.11	050.00	0
050	Soluble K2O (14%)	0451	13.95	0.3300	13.97	0.4944	0.1485	64	-0.06	050.99	0
050	Soluble K2O (14%)	0588	13.95	0.9000	13.97	0.4944	0.1485	64	-0.05	050.99	0
050	Soluble K2O (14%)	0136	13.96	0.3900	13.97	0.4944	0.1485	64	-0.04	050.52	0
050	Soluble K2O (14%)	0605	13.97	0.0300	13.97	0.4944	0.1485	64	-0.01	050.99	0
050	Soluble K2O (14%)	0023	13.98	0.0160	13.97	0.4944	0.1485	64	0.01	050.52	0
050	Soluble K2O (14%)	0234	13.98	0.1600	13.97	0.4944	0.1485	64	0.02	050.99	0
050	Soluble K2O (14%)	0510	13.99	0.0057	13.97	0.4944	0.1485	64	0.04	050.60	0
050	Soluble K2O (14%)	0255	14.01	0.4930	13.97	0.4944	0.1485	64	0.07	050.99	0
050	Soluble K2O (14%)	0538	14.04	0.1300	13.97	0.4944	0.1485	64	0.13	050.99	0
050	Soluble K2O (14%)	0444	14.13	0.0500	13.97	0.4944	0.1485	64	0.31	050.00	0
050	Soluble K2O (14%)	0564	14.17	0.0300	13.97	0.4944	0.1485	64	0.39	050.99	0
050	Soluble K2O (14%)	0394	14.19	0.1070	13.97	0.4944	0.1485	64	0.43	050.62	0
050	Soluble K2O (14%)	0040	14.20	0.2000	13.97	0.4944	0.1485	64	0.46	050.30	0
050	Soluble K2O (14%)	0518	14.20	0.0000	13.97	0.4944	0.1485	64	0.46	050.99	0
050	Soluble K2O (14%)	0549	14.23	0.0300	13.97	0.4944	0.1485	64	0.51	050.99	0
050	Soluble K2O (14%)	0307	14.25	1.500	13.97	0.4944	0.1485	64	0.56	050.99	0
050	Soluble K2O (14%)	0444	14.26	0.0300	13.97	0.4944	0.1485	64	0.57	050.50	0
050	Soluble K2O (14%)	0513	14.26	0.1700	13.97	0.4944	0.1485	64	0.57	050.62	0
050	Soluble K2O (14%)	0494	14.27	0.2100	13.97	0.4944	0.1485	64	0.59	050.52	0
050	Soluble K2O (14%)	0517	14.30	0.1000	13.97	0.4944	0.1485	64	0.66	050.99	0
050	Soluble K2O (14%)	0562	14.30	0.2000	13.97	0.4944	0.1485	64	0.66	050.99	0
050	Soluble K2O (14%)	0600	14.30	0.2000	13.97	0.4944	0.1485	64	0.66	050.99	0

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			Value	Range	Rob Mean	Rob SD	Rob R-bar				
050	Soluble K2O (14%)	0537	14.31	0.3900	13.97	0.4944	0.1485	64	0.67	050.99	0
050	Soluble K2O (14%)	0527	14.36	0.1593	13.97	0.4944	0.1485	64	0.79	050.99	0
050	Soluble K2O (14%)	0572	14.44	0.4200	13.97	0.4944	0.1485	64	0.95	050.99	0
050	Soluble K2O (14%)	0072	14.51	0.1200	13.97	0.4944	0.1485	64	1.09	050.52	0
050	Soluble K2O (14%)	0185	14.53	0.0200	13.97	0.4944	0.1485	64	1.13	050.32	0
050	Soluble K2O (14%)	0405	14.56	0.2500	13.97	0.4944	0.1485	64	1.18	050.00	0
050	Soluble K2O (14%)	0049	14.56	0.1200	13.97	0.4944	0.1485	64	1.19	050.00	0
050	Soluble K2O (14%)	0169	14.64	0.0200	13.97	0.4944	0.1485	64	1.35	050.50	0
050	Soluble K2O (14%)	0561	14.68	0.1500	13.97	0.4944	0.1485	64	1.42	050.00	0
050	Soluble K2O (14%)	0102	14.69	0.0000	13.97	0.4944	0.1485	64	1.45	050.00	0
050	Soluble K2O (14%)	0095	14.71	0.1600	13.97	0.4944	0.1485	64	1.49	050.62	0
050	Soluble K2O (14%)	0422	15.06‡	0.3133	13.97	0.4944	0.1485	64	2.20	050.50	0
050	Soluble K2O (14%)	0073	15.29‡	0.2600	13.97	0.4944	0.1485	64	2.66	050.30	0
050	Soluble K2O (14%)	0042	14.55	3.250	13.97	0.4944	0.1485	64	1.16	050.99	1
060	Water (Free) (%)	0513	0.4500	0.0200	0.9233	0.4197	0.1074	3	-1.13	060.00	0
060	Water (Free) (%)	0510	1.070	0.0023	0.9233	0.4197	0.1074	3	0.35	060.99	0
060	Water (Free) (%)	0518	1.250	0.3000	0.9233	0.4197	0.1074	3	0.78	060.30	0
101	Acid Soluble Ca (%)	0494	1.652	0.0058	1.936	0.3395	0.0224	9	-0.77	101.33	0
101	Acid Soluble Ca (%)	0422	1.689	0.0290	1.936	0.3395	0.0224	9	-0.67	101.30	0
101	Acid Soluble Ca (%)	0423	1.741	0.0030	1.936	0.3395	0.0224	9	-0.53	101.32	0
101	Acid Soluble Ca (%)	0354	1.750	0.0200	1.936	0.3395	0.0224	9	-0.51	101.30	0
101	Acid Soluble Ca (%)	0472	1.855	0.0100	1.936	0.3395	0.0224	9	-0.22	101.33	0
101	Acid Soluble Ca (%)	0035	1.860	0.1600	1.936	0.3395	0.0224	9	-0.21	101.30	0
101	Acid Soluble Ca (%)	0513	2.025	0.0100	1.936	0.3395	0.0224	9	0.24	101.99	0
101	Acid Soluble Ca (%)	0527	2.408	0.0008	1.936	0.3395	0.0224	9	1.28	101.33	0
101	Acid Soluble Ca (%)	0572	2.710	0.0600	1.936	0.3395	0.0224	9	2.10	101.99	0
101	Acid Soluble Ca (%)	0552	2.160	0.4200	1.936	0.3395	0.0224	9	0.61	101.99	1
121	Acid Soluble Mg (%)	0515	0.0392	0.0618	0.1229	0.0280	0.0202	12	-2.99	121.33	0
121	Acid Soluble Mg (%)	0515	0.0854	0.0444	0.1229	0.0280	0.0202	12	-1.34	121.99	0
121	Acid Soluble Mg (%)	0472	0.1050	0.0100	0.1229	0.0280	0.0202	12	-0.64	121.33	0
121	Acid Soluble Mg (%)	0524	0.1193	0.0000	0.1229	0.0280	0.0202	12	-0.13	121.99	0
121	Acid Soluble Mg (%)	0572	0.1200	0.0000	0.1229	0.0280	0.0202	12	-0.10	121.99	0
121	Acid Soluble Mg (%)	0494	0.1205	0.0007	0.1229	0.0280	0.0202	12	-0.09	121.33	0
121	Acid Soluble Mg (%)	0422	0.1221	0.0009	0.1229	0.0280	0.0202	12	-0.03	121.30	0
121	Acid Soluble Mg (%)	0423	0.1260	0.0020	0.1229	0.0280	0.0202	12	0.11	121.32	0
121	Acid Soluble Mg (%)	0354	0.1350	0.0100	0.1229	0.0280	0.0202	12	0.43	121.30	0
121	Acid Soluble Mg (%)	0035	0.1425	0.0050	0.1229	0.0280	0.0202	12	0.70	121.30	0
121	Acid Soluble Mg (%)	0527	0.1530	0.0023	0.1229	0.0280	0.0202	12	1.08	121.33	0
121	Acid Soluble Mg (%)	0552	0.2250	0.0900	0.1229	0.0280	0.0202	12	3.65	121.99	0
131	Water Soluble Mg (%)	0572	0.0800	0.0000				1		131.99	0
143	Elemental S (%)	0405	0.1075	0.0050	4.622	4.245	0.1800	3	-1.06	143.00	0
143	Elemental S (%)	0389	5.225	0.0100	4.622	4.245	0.1800	3	0.14	143.99	0
143	Elemental S (%)	0255	8.534	0.5250	4.622	4.245	0.1800	3	0.92	143.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
143	Elemental S (%)	0485	< 0.003		4.622	4.245	0.1800	3		143.00	5
145	Sulfate S, HCl soluble (%)	0444	4.895	0.1700	5.170	0.1540	0.0847	10	-1.66	145.99	0
145	Sulfate S, HCl soluble (%)	0537	5.030	0.0800	5.170	0.1540	0.0847	10	-0.85	145.99	0
145	Sulfate S, HCl soluble (%)	0405	5.060	0.0000	5.170	0.1540	0.0847	10	-0.67	145.00	0
145	Sulfate S, HCl soluble (%)	0562	5.150	0.1000	5.170	0.1540	0.0847	10	-0.12	145.99	0
145	Sulfate S, HCl soluble (%)	0600	5.150	0.1000	5.170	0.1540	0.0847	10	-0.12	145.99	0
145	Sulfate S, HCl soluble (%)	0177	5.188	0.0364	5.170	0.1540	0.0847	10	0.11	145.00	0
145	Sulfate S, HCl soluble (%)	0485	5.235	0.0100	5.170	0.1540	0.0847	10	0.39	145.00	0
145	Sulfate S, HCl soluble (%)	0561	5.265	0.2700	5.170	0.1540	0.0847	10	0.57	145.00	0
145	Sulfate S, HCl soluble (%)	0619	5.285	0.0100	5.170	0.1540	0.0847	10	0.69	145.99	0
145	Sulfate S, HCl soluble (%)	0553	5.600	0.0600	5.170	0.1540	0.0847	10	2.60	145.99	0
146	Total S in Liquid (5.1%)	0027	5.240±	0.2600				1		146.00	0
148	Total S (5.1%)	0494	4.738	0.0990	5.132	0.2374	0.0891	38	-1.66	148.07	0
148	Total S (5.1%)	0394	4.751	0.1037	5.132	0.2374	0.0891	38	-1.60	148.07	0
148	Total S (5.1%)	0292	4.775	0.0300	5.132	0.2374	0.0891	38	-1.50	148.07	0
148	Total S (5.1%)	0405	4.800	0.0000	5.132	0.2374	0.0891	38	-1.40	148.00	0
148	Total S (5.1%)	0136	4.805	0.0100	5.132	0.2374	0.0891	38	-1.38	148.99	0
148	Total S (5.1%)	0472	4.830	0.0400	5.132	0.2374	0.0891	38	-1.27	148.07	0
148	Total S (5.1%)	0307	4.890	0.2200	5.132	0.2374	0.0891	38	-1.02	148.99	0
148	Total S (5.1%)	0543	4.912	0.1710	5.132	0.2374	0.0891	38	-0.93	148.07	0
148	Total S (5.1%)	0354	4.980	0.0200	5.132	0.2374	0.0891	38	-0.64	148.99	0
148	Total S (5.1%)	0177	4.981	0.0433	5.132	0.2374	0.0891	38	-0.64	148.07	0
148	Total S (5.1%)	0572	5.025	0.1700	5.132	0.2374	0.0891	38	-0.45	148.99	0
148	Total S (5.1%)	0538	5.045	0.1500	5.132	0.2374	0.0891	38	-0.37	148.01	0
148	Total S (5.1%)	0605	5.075	0.0900	5.132	0.2374	0.0891	38	-0.24	148.99	0
148	Total S (5.1%)	0023	5.088	0.1410	5.132	0.2374	0.0891	38	-0.19	148.99	0
148	Total S (5.1%)	0025	5.090	0.1990	5.132	0.2374	0.0891	38	-0.18	148.00	0
148	Total S (5.1%)	0584	5.095	0.0300	5.132	0.2374	0.0891	38	-0.15	148.01	0
148	Total S (5.1%)	0040	5.100	0.0000	5.132	0.2374	0.0891	38	-0.13	148.07	0
148	Total S (5.1%)	0029	5.103	0.0340	5.132	0.2374	0.0891	38	-0.12	148.00	0
148	Total S (5.1%)	0422	5.128	0.1180	5.132	0.2374	0.0891	38	-0.02	148.99	0
148	Total S (5.1%)	0043	5.163	0.0720	5.132	0.2374	0.0891	38	0.13	148.99	0
148	Total S (5.1%)	0405	5.170	0.0000	5.132	0.2374	0.0891	38	0.16	148.01	0
148	Total S (5.1%)	0055	5.198	0.1150	5.132	0.2374	0.0891	38	0.28	148.01	0
148	Total S (5.1%)	0177	5.198	0.0403	5.132	0.2374	0.0891	38	0.28	148.01	0
148	Total S (5.1%)	0072	5.200	0.0640	5.132	0.2374	0.0891	38	0.29	148.99	0
148	Total S (5.1%)	0559	5.215	0.0100	5.132	0.2374	0.0891	38	0.35	148.99	0
148	Total S (5.1%)	0485	5.235	0.0100	5.132	0.2374	0.0891	38	0.44	148.01	0
148	Total S (5.1%)	0513	5.250	0.0600	5.132	0.2374	0.0891	38	0.50	148.07	0
148	Total S (5.1%)	0169	5.255	0.0100	5.132	0.2374	0.0891	38	0.52	148.07	0
148	Total S (5.1%)	0619	5.285	0.0100	5.132	0.2374	0.0891	38	0.65	148.99	0
148	Total S (5.1%)	0102	5.310	0.1600	5.132	0.2374	0.0891	38	0.75	148.07	0
148	Total S (5.1%)	0049	5.318	0.1330	5.132	0.2374	0.0891	38	0.78	148.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
148	Total S (5.1%)	0527	5.339	0.1058	5.132	0.2374	0.0891	38	0.87	148.07	0
148	Total S (5.1%)	0451	5.376	0.2110	5.132	0.2374	0.0891	38	1.03	148.00	0
148	Total S (5.1%)	0564	5.380	0.0200	5.132	0.2374	0.0891	38	1.05	148.01	0
148	Total S (5.1%)	0521	5.426	0.0000	5.132	0.2374	0.0891	38	1.24	148.07	0
148	Total S (5.1%)	0324	5.440	0.2400	5.132	0.2374	0.0891	38	1.30	148.01	0
148	Total S (5.1%)	0220	5.490	0.1200	5.132	0.2374	0.0891	38	1.51	148.01	0
148	Total S (5.1%)	0220	5.575	0.0500	5.132	0.2374	0.0891	38	1.87	148.99	0
148	Total S (5.1%)	0515	5.014	0.6710	5.132	0.2374	0.0891	38	-0.50	148.07	1
148	Total S (5.1%)	0523	3.005†	0.2500	5.132	0.2374	0.0891	38	-8.96	148.99	2
149	S - HNO3 soluble (%)	0423	4.560	0.0030	5.112	0.3746	0.1082	4	-1.47	149.04	0
149	S - HNO3 soluble (%)	0524	5.218	0.3699	5.112	0.3746	0.1082	4	0.28	149.04	0
149	S - HNO3 soluble (%)	0619	5.285	0.0100	5.112	0.3746	0.1082	4	0.46	149.99	0
149	S - HNO3 soluble (%)	0231	5.385	0.0500	5.112	0.3746	0.1082	4	0.73	149.04	0
151	Acid Soluble As (ppm)	0136	2.400	0.0000	6.953	3.608	0.9439	11	-1.26	151.33	0
151	Acid Soluble As (ppm)	0524	2.665	0.0500	6.953	3.608	0.9439	11	-1.19	151.30	0
151	Acid Soluble As (ppm)	0572	3.770	0.0600	6.953	3.608	0.9439	11	-0.88	151.99	0
151	Acid Soluble As (ppm)	0523	5.347	0.0290	6.953	3.608	0.9439	11	-0.45	151.30	0
151	Acid Soluble As (ppm)	0515	5.997	7.669	6.953	3.608	0.9439	11	-0.27	151.34	0
151	Acid Soluble As (ppm)	0527	7.480	0.4260	6.953	3.608	0.9439	11	0.15	151.33	0
151	Acid Soluble As (ppm)	0494	8.735	0.0300	6.953	3.608	0.9439	11	0.49	151.33	0
151	Acid Soluble As (ppm)	0515	9.122	8.456	6.953	3.608	0.9439	11	0.60	151.33	0
151	Acid Soluble As (ppm)	0220	9.250	0.3000	6.953	3.608	0.9439	11	0.64	151.32	0
151	Acid Soluble As (ppm)	0220	9.350	0.1000	6.953	3.608	0.9439	11	0.66	151.99	0
151	Acid Soluble As (ppm)	0405	15.00	2.000	6.953	3.608	0.9439	11	2.23	151.32	0
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	6.953	3.608	0.9439	11		151.30	4
151	Acid Soluble As (ppm)	0605	< 6.2		6.953	3.608	0.9439	11		151.30	5
165	Acid Soluble B (%)	0524	0.0005	0.0000	0.0366	0.0747	0.1101	5	-0.42	165.99	0
165	Acid Soluble B (%)	0423	0.0010	0.0000	0.0366	0.0747	0.1101	5	-0.42	165.99	0
165	Acid Soluble B (%)	0422	0.0014	0.0001	0.0366	0.0747	0.1101	5	-0.41	165.30	0
165	Acid Soluble B (%)	0472	0.0100	0.0000	0.0366	0.0747	0.1101	5	-0.31	165.99	0
165	Acid Soluble B (%)	0552	0.1700	0.2200	0.0366	0.0747	0.1101	5	1.56	165.99	0
165	Acid Soluble B (%)	0354	< 0.01		0.0366	0.0747	0.1101	5		165.30	5
165	Acid Soluble B (%)	0527	< 0.01		0.0366	0.0747	0.1101	5		165.99	5
165	Acid Soluble B (%)	0572	< 0.0115		0.0366	0.0747	0.1101	5		165.99	5
171	Water Soluble B (%)	0572	< 0.0112					0		171.99	5
181	Acid Soluble Cd (ppm)	0494	0.4900	0.0060	0.5796	0.0697	0.0141	8	-1.28	181.33	0
181	Acid Soluble Cd (ppm)	0524	0.5380	0.0054	0.5796	0.0697	0.0141	8	-0.60	181.30	0
181	Acid Soluble Cd (ppm)	0220	0.5500	0.0000	0.5796	0.0697	0.0141	8	-0.42	181.32	0
181	Acid Soluble Cd (ppm)	0220	0.5550	0.0100	0.5796	0.0697	0.0141	8	-0.35	181.99	0
181	Acid Soluble Cd (ppm)	0572	0.5750	0.0300	0.5796	0.0697	0.0141	8	-0.07	181.99	0
181	Acid Soluble Cd (ppm)	0523	0.6045	0.0010	0.5796	0.0697	0.0141	8	0.36	181.30	0
181	Acid Soluble Cd (ppm)	0394	0.6400	0.0080	0.5796	0.0697	0.0141	8	0.87	181.30	0
181	Acid Soluble Cd (ppm)	0527	0.7291	0.0506	0.5796	0.0697	0.0141	8	2.14	181.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
181	Acid Soluble Cd (ppm)	0255	1.617	0.8090	0.5796	0.0697	0.0141	8	14.87	181.30	1
181	Acid Soluble Cd (ppm)	0515	< 0.133		0.5796	0.0697	0.0141	8		181.34	5
181	Acid Soluble Cd (ppm)	0515	< 0.19		0.5796	0.0697	0.0141	8		181.33	5
181	Acid Soluble Cd (ppm)	0405	< 1		0.5796	0.0697	0.0141	8		181.32	5
181	Acid Soluble Cd (ppm)	0136	< 1		0.5796	0.0697	0.0141	8		181.33	5
181	Acid Soluble Cd (ppm)	0605	< 1.85		0.5796	0.0697	0.0141	8		181.30	5
190	Water Soluble Cl (%)	0553	0.2600	0.0200				1		190.00	0
191	Acid Soluble Cr (ppm)	0515	7.827	4.346	14.13	2.238	0.4722	12	-2.82	191.34	0
191	Acid Soluble Cr (ppm)	0524	10.83	0.0403	14.13	2.238	0.4722	12	-1.47	191.30	0
191	Acid Soluble Cr (ppm)	0572	13.12	0.5900	14.13	2.238	0.4722	12	-0.45	191.99	0
191	Acid Soluble Cr (ppm)	0136	13.15	0.9000	14.13	2.238	0.4722	12	-0.44	191.33	0
191	Acid Soluble Cr (ppm)	0394	13.15	0.2420	14.13	2.238	0.4722	12	-0.44	191.30	0
191	Acid Soluble Cr (ppm)	0605	13.76	0.0210	14.13	2.238	0.4722	12	-0.16	191.30	0
191	Acid Soluble Cr (ppm)	0405	15.00	0.0000	14.13	2.238	0.4722	12	0.39	191.32	0
191	Acid Soluble Cr (ppm)	0035	15.65	1.900	14.13	2.238	0.4722	12	0.68	191.30	0
191	Acid Soluble Cr (ppm)	0523	15.81	0.1040	14.13	2.238	0.4722	12	0.75	191.30	0
191	Acid Soluble Cr (ppm)	0220	16.05	0.3000	14.13	2.238	0.4722	12	0.86	191.32	0
191	Acid Soluble Cr (ppm)	0220	16.05	0.3000	14.13	2.238	0.4722	12	0.86	191.99	0
191	Acid Soluble Cr (ppm)	0527	16.22	0.1431	14.13	2.238	0.4722	12	0.93	191.33	0
191	Acid Soluble Cr (ppm)	0515	22.07	23.85	14.13	2.238	0.4722	12	3.55	191.33	1
202	Acid Soluble Co (ppm)	0220	0.5000	0.0200	0.6248	0.1265	0.0340	6	-0.88	202.99	0
202	Acid Soluble Co (ppm)	0220	0.5500	0.0600	0.6248	0.1265	0.0340	6	-0.53	202.32	0
202	Acid Soluble Co (ppm)	0523	0.5910	0.0020	0.6248	0.1265	0.0340	6	-0.24	202.30	0
202	Acid Soluble Co (ppm)	0527	0.6084	0.0159	0.6248	0.1265	0.0340	6	-0.12	202.33	0
202	Acid Soluble Co (ppm)	0572	0.6850	0.0100	0.6248	0.1265	0.0340	6	0.42	202.99	0
202	Acid Soluble Co (ppm)	0524	1.328	0.2464	0.6248	0.1265	0.0340	6	4.95	202.30	0
202	Acid Soluble Co (ppm)	0255	0.1110	0.2220	0.6248	0.1265	0.0340	6		202.99	4
202	Acid Soluble Co (ppm)	0515	< 0.139		0.6248	0.1265	0.0340	6		202.34	5
202	Acid Soluble Co (ppm)	0515	< 0.26		0.6248	0.1265	0.0340	6		202.33	5
202	Acid Soluble Co (ppm)	0405	< 1		0.6248	0.1265	0.0340	6		202.32	5
202	Acid Soluble Co (ppm)	0136	< 2.5		0.6248	0.1265	0.0340	6		202.33	5
221	Acid Soluble Cu (%)	0405	0.0007	0.0001	0.0010	0.0002	0.0001	13	-1.34	221.32	0
221	Acid Soluble Cu (%)	0220	0.0007	0.0000	0.0010	0.0002	0.0001	13	-1.12	221.32	0
221	Acid Soluble Cu (%)	0422	0.0008	0.0000	0.0010	0.0002	0.0001	13	-0.68	221.30	0
221	Acid Soluble Cu (%)	0394	0.0008	0.0000	0.0010	0.0002	0.0001	13	-0.68	221.33	0
221	Acid Soluble Cu (%)	0524	0.0008	0.0000	0.0010	0.0002	0.0001	13	-0.68	221.99	0
221	Acid Soluble Cu (%)	0255	0.0010	0.0000	0.0010	0.0002	0.0001	13	0.21	221.30	0
221	Acid Soluble Cu (%)	0423	0.0010	0.0000	0.0010	0.0002	0.0001	13	0.21	221.32	0
221	Acid Soluble Cu (%)	0136	0.0010	0.0000	0.0010	0.0002	0.0001	13	0.21	221.33	0
221	Acid Soluble Cu (%)	0523	0.0010	0.0000	0.0010	0.0002	0.0001	13	0.21	221.99	0
221	Acid Soluble Cu (%)	0572	0.0010	0.0000	0.0010	0.0002	0.0001	13	0.21	221.99	0
221	Acid Soluble Cu (%)	0527	0.0011	0.0001	0.0010	0.0002	0.0001	13	0.43	221.33	0
221	Acid Soluble Cu (%)	0035	0.0014	0.0002	0.0010	0.0002	0.0001	13	1.98	221.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
221	Acid Soluble Cu (%)	0552	0.0200	0.0000	0.0010	0.0002	0.0001	13	84.34	221.30	0
221	Acid Soluble Cu (%)	0095	7.800	0.2400	0.0010	0.0002	0.0001	13	34533.34	221.32	1
221	Acid Soluble Cu (%)	0354	< 0.01		0.0010	0.0002	0.0001	13		221.30	5
241	Acid Soluble Fe (%)	0220	0.0007	0.0000	0.0513	0.0193	0.0012	10	-2.62	241.32	0
241	Acid Soluble Fe (%)	0423	0.0285	0.0010	0.0513	0.0193	0.0012	10	-1.18	241.32	0
241	Acid Soluble Fe (%)	0494	0.0492	0.0021	0.0513	0.0193	0.0012	10	-0.11	241.33	0
241	Acid Soluble Fe (%)	0524	0.0495	0.0001	0.0513	0.0193	0.0012	10	-0.09	241.99	0
241	Acid Soluble Fe (%)	0035	0.0495	0.0030	0.0513	0.0193	0.0012	10	-0.09	241.30	0
241	Acid Soluble Fe (%)	0572	0.0500	0.0000	0.0513	0.0193	0.0012	10	-0.07	241.99	0
241	Acid Soluble Fe (%)	0422	0.0542	0.0006	0.0513	0.0193	0.0012	10	0.15	241.30	0
241	Acid Soluble Fe (%)	0527	0.0593	0.0004	0.0513	0.0193	0.0012	10	0.42	241.33	0
241	Acid Soluble Fe (%)	0472	0.0700	0.0000	0.0513	0.0193	0.0012	10	0.97	241.33	0
241	Acid Soluble Fe (%)	0552	0.0900	0.0000	0.0513	0.0193	0.0012	10	2.00	241.30	0
241	Acid Soluble Fe (%)	0354	0.0700	0.0400	0.0513	0.0193	0.0012	10	0.97	241.30	1
241	Acid Soluble Fe (%)	0515	< 0.0012		0.0513	0.0193	0.0012	10		241.99	5
241	Acid Soluble Fe (%)	0515	< 0.0017		0.0513	0.0193	0.0012	10		241.33	5
251	Acid Soluble Pb (ppm)	0572	1.530	0.0400	2.406	0.9826	0.1000	9	-0.89	251.99	0
251	Acid Soluble Pb (ppm)	0523	1.563	0.0040	2.406	0.9826	0.1000	9	-0.86	251.30	0
251	Acid Soluble Pb (ppm)	0527	1.684	0.0631	2.406	0.9826	0.1000	9	-0.74	251.33	0
251	Acid Soluble Pb (ppm)	0524	2.155	0.0408	2.406	0.9826	0.1000	9	-0.26	251.30	0
251	Acid Soluble Pb (ppm)	0220	2.200	0.2000	2.406	0.9826	0.1000	9	-0.21	251.32	0
251	Acid Soluble Pb (ppm)	0220	2.250	0.1000	2.406	0.9826	0.1000	9	-0.16	251.99	0
251	Acid Soluble Pb (ppm)	0394	2.721	0.2530	2.406	0.9826	0.1000	9	0.32	251.30	0
251	Acid Soluble Pb (ppm)	0515	3.691	0.1630	2.406	0.9826	0.1000	9	1.31	251.34	0
251	Acid Soluble Pb (ppm)	0494	3.865	0.0500	2.406	0.9826	0.1000	9	1.48	251.33	0
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	2.406	0.9826	0.1000	9		251.30	4
251	Acid Soluble Pb (ppm)	0136	< 3		2.406	0.9826	0.1000	9		251.33	5
251	Acid Soluble Pb (ppm)	0405	< 4		2.406	0.9826	0.1000	9		251.32	5
251	Acid Soluble Pb (ppm)	0605	< 5		2.406	0.9826	0.1000	9		251.30	5
261	Acid Soluble Mn (%)	0524	0.0039	0.0001	0.0043	0.0005	0.0002	6	-0.73	261.99	0
261	Acid Soluble Mn (%)	0572	0.0040	0.0001	0.0043	0.0005	0.0002	6	-0.56	261.99	0
261	Acid Soluble Mn (%)	0422	0.0040	0.0000	0.0043	0.0005	0.0002	6	-0.47	261.30	0
261	Acid Soluble Mn (%)	0035	0.0043	0.0003	0.0043	0.0005	0.0002	6	-0.04	261.30	0
261	Acid Soluble Mn (%)	0527	0.0046	0.0001	0.0043	0.0005	0.0002	6	0.47	261.35	0
261	Acid Soluble Mn (%)	0552	0.0200	0.0000	0.0043	0.0005	0.0002	6	27.11	261.32	0
261	Acid Soluble Mn (%)	0423	0.0125	0.0010	0.0043	0.0005	0.0002	6	14.18	261.34	1
261	Acid Soluble Mn (%)	0354	< 0.01		0.0043	0.0005	0.0002	6		261.30	5
281	Acid Soluble Hg (ppm)	0524	0.0003	0.0000				1		281.99	0
281	Acid Soluble Hg (ppm)	0527	< 0.001					1		281.30	5
281	Acid Soluble Hg (ppm)	0220	< 0.01					1		281.99	5
281	Acid Soluble Hg (ppm)	0572	< 0.01					1		281.99	5
281	Acid Soluble Hg (ppm)	0515	< 0.1					1		281.30	5
281	Acid Soluble Hg (ppm)	0605	< 1.25					1		281.30	5

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
281	Acid Soluble Hg (ppm)	0405	< 2					1		281.30	5
289	Acid Soluble Mo (ppm)	0255	0.5230	0.2960	0.7327	0.1733	0.1191	6	-1.08	289.30	0
289	Acid Soluble Mo (ppm)	0220	0.6850	0.0700	0.7327	0.1733	0.1191	6	-0.25	289.32	0
289	Acid Soluble Mo (ppm)	0524	0.6945	0.1848	0.7327	0.1733	0.1191	6	-0.20	289.30	0
289	Acid Soluble Mo (ppm)	0220	0.7300	0.0600	0.7327	0.1733	0.1191	6	-0.01	289.99	0
289	Acid Soluble Mo (ppm)	0527	0.7712	0.0036	0.7327	0.1733	0.1191	6	0.20	289.33	0
289	Acid Soluble Mo (ppm)	0136	3.250	0.1000	0.7327	0.1733	0.1191	6	12.94	289.33	0
289	Acid Soluble Mo (ppm)	0515	< 0.178		0.7327	0.1733	0.1191	6		289.34	5
289	Acid Soluble Mo (ppm)	0515	< 0.23		0.7327	0.1733	0.1191	6		289.33	5
289	Acid Soluble Mo (ppm)	0405	< 1		0.7327	0.1733	0.1191	6		289.32	5
289	Acid Soluble Mo (ppm)	0572	< 2.65		0.7327	0.1733	0.1191	6		289.99	5
291	Acid Soluble Ni (ppm)	0524	2.839	0.0042	3.396	0.3814	0.1532	11	-1.46	291.30	0
291	Acid Soluble Ni (ppm)	0405	3.000	0.0000	3.396	0.3814	0.1532	11	-1.04	291.32	0
291	Acid Soluble Ni (ppm)	0394	3.103	0.0370	3.396	0.3814	0.1532	11	-0.77	291.30	0
291	Acid Soluble Ni (ppm)	0572	3.125	0.1300	3.396	0.3814	0.1532	11	-0.71	291.99	0
291	Acid Soluble Ni (ppm)	0523	3.274	0.0000	3.396	0.3814	0.1532	11	-0.32	291.30	0
291	Acid Soluble Ni (ppm)	0220	3.550	0.1000	3.396	0.3814	0.1532	11	0.40	291.99	0
291	Acid Soluble Ni (ppm)	0220	3.600	0.2000	3.396	0.3814	0.1532	11	0.53	291.32	0
291	Acid Soluble Ni (ppm)	0527	3.628	0.0488	3.396	0.3814	0.1532	11	0.61	291.33	0
291	Acid Soluble Ni (ppm)	0136	3.700	0.4000	3.396	0.3814	0.1532	11	0.80	291.33	0
291	Acid Soluble Ni (ppm)	0605	3.758	0.0380	3.396	0.3814	0.1532	11	0.95	291.30	0
291	Acid Soluble Ni (ppm)	0035	3.780	1.340	3.396	0.3814	0.1532	11	1.01	291.30	0
291	Acid Soluble Ni (ppm)	0255	22.33	7.290	3.396	0.3814	0.1532	11	49.62	291.99	1
291	Acid Soluble Ni (ppm)	0515	< 0.18		3.396	0.3814	0.1532	11		291.34	5
291	Acid Soluble Ni (ppm)	0515	< 0.26		3.396	0.3814	0.1532	11		291.33	5
301	Acid Soluble Se (ppm)	0524	0.2437	0.0520	10.49	9.010	0.6593	3	-0.92	301.30	0
301	Acid Soluble Se (ppm)	0523	14.02	0.2660	10.49	9.010	0.6593	3	0.32	301.30	0
301	Acid Soluble Se (ppm)	0572	17.19	1.660	10.49	9.010	0.6593	3	0.60	301.99	0
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000	10.49	9.010	0.6593	3		301.99	4
301	Acid Soluble Se (ppm)	0527	< 0.01		10.49	9.010	0.6593	3		301.33	5
301	Acid Soluble Se (ppm)	0515	< 0.226		10.49	9.010	0.6593	3		301.34	5
301	Acid Soluble Se (ppm)	0515	< 0.27		10.49	9.010	0.6593	3		301.33	5
301	Acid Soluble Se (ppm)	0220	< 0.3		10.49	9.010	0.6593	3		301.32	5
301	Acid Soluble Se (ppm)	0220	< 0.3		10.49	9.010	0.6593	3		301.99	5
301	Acid Soluble Se (ppm)	0605	< 1.65		10.49	9.010	0.6593	3		301.30	5
301	Acid Soluble Se (ppm)	0405	< 10		10.49	9.010	0.6593	3		301.32	5
311	Sodium (%)	0494	0.1422	0.0075	0.1586	0.0197	0.0069	7	-0.76	311.33	0
311	Sodium (%)	0572	0.1450	0.0100	0.1586	0.0197	0.0069	7	-0.62	311.99	0
311	Sodium (%)	0423	0.1455	0.0010	0.1586	0.0197	0.0069	7	-0.60	311.33	0
311	Sodium (%)	0422	0.1464	0.0012	0.1586	0.0197	0.0069	7	-0.56	311.32	0
311	Sodium (%)	0354	0.1750	0.0100	0.1586	0.0197	0.0069	7	0.75	311.99	0
311	Sodium (%)	0035	0.1765	0.0250	0.1586	0.0197	0.0069	7	0.82	311.33	0
311	Sodium (%)	0527	0.1798	0.0011	0.1586	0.0197	0.0069	7	0.97	311.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
321	Acid Soluble Zn (%)	0515	0.0011	0.0011	0.0023	0.0007	0.0005	14	-1.80	321.33	0
321	Acid Soluble Zn (%)	0494	0.0016	0.0002	0.0023	0.0007	0.0005	14	-0.99	321.33	0
321	Acid Soluble Zn (%)	0220	0.0019	0.0000	0.0023	0.0007	0.0005	14	-0.55	321.32	0
321	Acid Soluble Zn (%)	0405	0.0020	0.0000	0.0023	0.0007	0.0005	14	-0.40	321.32	0
321	Acid Soluble Zn (%)	0136	0.0020	0.0000	0.0023	0.0007	0.0005	14	-0.40	321.33	0
321	Acid Soluble Zn (%)	0422	0.0021	0.0001	0.0023	0.0007	0.0005	14	-0.33	321.30	0
321	Acid Soluble Zn (%)	0524	0.0021	0.0000	0.0023	0.0007	0.0005	14	-0.26	321.99	0
321	Acid Soluble Zn (%)	0572	0.0021	0.0004	0.0023	0.0007	0.0005	14	-0.26	321.99	0
321	Acid Soluble Zn (%)	0394	0.0022	0.0001	0.0023	0.0007	0.0005	14	-0.18	321.33	0
321	Acid Soluble Zn (%)	0035	0.0026	0.0003	0.0023	0.0007	0.0005	14	0.41	321.30	0
321	Acid Soluble Zn (%)	0527	0.0026	0.0001	0.0023	0.0007	0.0005	14	0.41	321.33	0
321	Acid Soluble Zn (%)	0423	0.0030	0.0000	0.0023	0.0007	0.0005	14	1.07	321.32	0
321	Acid Soluble Zn (%)	0255	0.0045	0.0010	0.0023	0.0007	0.0005	14	3.28	321.30	0
321	Acid Soluble Zn (%)	0523	0.0065	0.0030	0.0023	0.0007	0.0005	14	6.23	321.99	0
321	Acid Soluble Zn (%)	0552	0.0200	0.0200	0.0023	0.0007	0.0005	14	26.12	321.30	1
321	Acid Soluble Zn (%)	0354	< 0.01		0.0023	0.0007	0.0005	14		321.30	5
325	Water Soluble Zn (%)	0572	0.0011	0.0001				1		325.99	0
431	Soluble Si in nonliquids (%)	0572	< 0.006					0		431.99	5

Interpreting Z Scores and Flags:

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated.

Notes:

*Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. Identical duplicates not included in calculation of Rob R-bar. Your offset values are higher (‡) or lower (†) than the Robust Analyte value ± Investigational Allowance. Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.