



Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 30

Sample # 240111

Regular PT Scheme

Labs Reporting: 59

MAP/Zn

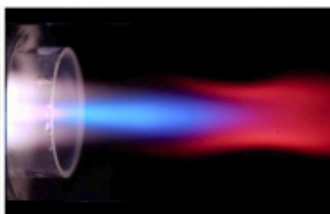
Statistical Summary

Issue Date : 02/29/2024

Analyte Code	Analyte Sample # 240111	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
001	Ammoniacal N (%)	20	19	11.83	0.4456	11.82		0.3690	0.1058	3.12%		0.1311	2.76%
005	Urea N (%)	1		0.3103									
010	Total N (12%)	49	48	11.98	0.2575	11.97	0.6096	0.2282	0.0412	1.91%	0.87	0.0805	2.75%
020	Total P2O5 (%)	33	32	40.60	1.843	40.48		1.197	0.2644	2.96%		0.2017	1.57%
040	Indirect Available P2O5 (40%)	1		39.50									
041	Direct Available P2O5 (40%)	30	28	39.04	6.565	40.24	0.9036	0.5966	0.1409	1.48%	1.54	0.2281	1.58%
048	Water Soluble P2O5 (%)	5	5	35.94	1.070	35.94		1.070	0.5981	2.98%		0.4000	1.67%
050	Soluble K2O (%)	7	6	0.1385	0.0518	0.1393	0.4100	0.0267	0.0136	19.16%	0.15	0.0078	5.38%
101	Acid Soluble Ca (%)	5	4	0.1982	0.1124	0.2453	0.2123	0.0455	0.0285	18.57%	0.50	0.0133	4.94%
121	Acid Soluble Mg (%)	7	6	0.7094	0.0802	0.7128	0.2356	0.0742	0.0379	10.42%	0.73	0.0132	4.21%
143	Elemental S (%)	5	5	7.491	2.311	7.491		2.311	1.292	30.84%		0.1476	2.95%
145	Sulfate S, HCl soluble (%)	9	9	7.005	2.236	7.005		2.535	1.056	36.19%		0.0890	2.98%
148	Total S (10%)	33	32	9.744	1.420	9.966	0.6983	0.6277	0.1387	6.30%	2.09	0.1801	2.83%
149	S - HNO3 soluble (%)	1		5.783									
151	Acid Soluble As (ppm)	11	8	8.668	5.672	11.68		1.554	0.6869	13.31%		0.5585	11.05%
165	Acid Soluble B (%)	4	3	0.0087	0.0027	0.0082	0.0042	0.0031	0.0022	37.59%	1.70	0.0001	8.24%
181	Acid Soluble Cd (ppm)	10	7	4.218	2.178	5.336		0.4485	0.2119	8.41%		0.1764	12.43%
191	Acid Soluble Cr (ppm)	10	9	117.2	13.42	119.3		13.18	5.491	11.05%		2.912	7.79%
202	Acid Soluble Co (ppm)	11	7	2.272	1.841	2.529	1.7587	0.6257	0.2956	24.74%	0.83	0.1402	13.91%
221	Acid Soluble Cu (%)	9	5	0.0015	0.0032	0.0003	0.0050	0.0001	0.0001	40.82%	0.06	0.0004	13.56%
241	Acid Soluble Fe (%)	6	5	1.061	0.7332	0.7658	0.0816	0.1373	0.0767	17.92%	3.92	0.1084	4.16%
251	Acid Soluble Pb (ppm)	10	7	7.689	6.759	11.21		5.322	2.514	47.50%		1.424	11.12%
261	Acid Soluble Mn (%)	6	4	0.0154	0.0111	0.0224	0.0072	0.0028	0.0018	12.58%	0.91	0.0018	7.08%
281	Acid Soluble Hg (ppm)	5	1	0.4232	0.8824	0.0224		0.0028	0.0035	12.58%		0.0000	22.00%
289	Acid Soluble Mo (ppm)	12	9	7.887	3.687	9.564	3.8693	0.8121	0.3384	8.49%	0.49	0.3629	11.39%
291	Acid Soluble Ni (ppm)	12	9	16.18	10.22	16.87		0.9526	0.3969	5.65%		0.5959	10.46%
301	Acid Soluble Se (ppm)	9	1	1.415	3.246	16.87		0.9526	1.191	5.65%		0.0500	10.46%
311	Sodium (%)	2	2	0.1740	0.0085								
321	Acid Soluble Zn (1%)	49	48	0.9786	0.0788	0.9793	0.1029	0.0743	0.0134	7.59%	1.68	0.0311	4.01%

Analyte Code	Analyte Sample # 240111	# 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
325	Water Soluble Zn (%)	3	3	0.8120	0.1412	0.8120		0.1412	0.1019	17.38%		0.0080	4.13%

The Analyte IA Ratio = $2.33 * \text{Robust SD} / \text{IA at the Analyte Assigned Value}$. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting. 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: 30

Sample # 240111

Regular PT Scheme

Labs Reporting: 59

MAP/Zn

Lab Values

Issue Date : 02/29/2024

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 (%)	0368	10.64	0.1555	11.82	0.3690	0.1311	19	-3.18	001.99	0
001	Ammoniacal N (%)	0451	11.38	0.2400	11.82	0.3690	0.1311	19	-1.19	001.10	0
001	Ammoniacal N (%)	0524	11.39	0.2116	11.82	0.3690	0.1311	19	-1.17	001.99	0
001	Ammoniacal N (%)	0389	11.40	0.0900	11.82	0.3690	0.1311	19	-1.15	001.10	0
001	Ammoniacal N (%)	0564	11.47	0.0500	11.82	0.3690	0.1311	19	-0.96	001.99	0
001	Ammoniacal N (%)	0405	11.65	0.0300	11.82	0.3690	0.1311	19	-0.47	001.99	0
001	Ammoniacal N (%)	0600	11.78	0.0500	11.82	0.3690	0.1311	19	-0.12	001.99	0
001	Ammoniacal N (%)	0220	11.81	0.1800	11.82	0.3690	0.1311	19	-0.02	001.99	0
001	Ammoniacal N (%)	0498	11.85	0.3000	11.82	0.3690	0.1311	19	0.08	001.10	0
001	Ammoniacal N (%)	0027	11.88	0.0150	11.82	0.3690	0.1311	19	0.16	001.99	0
001	Ammoniacal N (%)	0444	11.90	0.2000	11.82	0.3690	0.1311	19	0.22	001.10	0
001	Ammoniacal N (%)	0559	11.95	0.0100	11.82	0.3690	0.1311	19	0.34	001.99	0
001	Ammoniacal N (%)	0562	11.95	0.0100	11.82	0.3690	0.1311	19	0.34	001.99	0
001	Ammoniacal N (%)	0547	11.95	0.1000	11.82	0.3690	0.1311	19	0.36	001.10	0
001	Ammoniacal N (%)	0619	12.02	0.0600	11.82	0.3690	0.1311	19	0.55	001.10	0
001	Ammoniacal N (%)	0619	12.02	0.0600	11.82	0.3690	0.1311	19	0.55	001.99	0
001	Ammoniacal N (%)	0635	12.18	0.2000	11.82	0.3690	0.1311	19	0.98	001.99	0
001	Ammoniacal N (%)	0255	12.42	0.4200	11.82	0.3690	0.1311	19	1.63	001.99	0
001	Ammoniacal N (%)	0537	12.45	0.2300	11.82	0.3690	0.1311	19	1.70	001.99	0
001	Ammoniacal N (%)	0553	12.63	1.100	11.82	0.3690	0.1311	19	2.20	001.99	1
005	Urea N (%)	0524	0.3103	0.0363				1		005.99	0
010	Total N (12%)	0220	11.41	0.0800	11.97	0.2282	0.0805	48	-2.47	010.99	0
010	Total N (12%)	0422	11.51	0.1200	11.97	0.2282	0.0805	48	-2.03	010.60	0
010	Total N (12%)	0042	11.55	0.1000	11.97	0.2282	0.0805	48	-1.86	010.60	0
010	Total N (12%)	0421	11.61	0.1400	11.97	0.2282	0.0805	48	-1.59	010.60	0
010	Total N (12%)	0023	11.61	0.0250	11.97	0.2282	0.0805	48	-1.59	010.60	0
010	Total N (12%)	0518	11.65	0.3000	11.97	0.2282	0.0805	48	-1.42	010.99	0
010	Total N (12%)	0524	11.73	0.0759	11.97	0.2282	0.0805	48	-1.09	010.99	0
010	Total N (12%)	0472	11.73	0.0600	11.97	0.2282	0.0805	48	-1.07	010.60	0
010	Total N (12%)	0073	11.77	0.0200	11.97	0.2282	0.0805	48	-0.89	010.60	0
010	Total N (12%)	0136	11.80	0.1300	11.97	0.2282	0.0805	48	-0.78	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 (12%)	0095	11.82	0.0600	11.97	0.2282	0.0805	48	-0.67	010.60	0
010	Total N (12%)	0498	11.85	0.3000	11.97	0.2282	0.0805	48	-0.54	010.12	0
010	Total N (12%)	0527	11.85	0.0240	11.97	0.2282	0.0805	48	-0.54	010.60	0
010	Total N (12%)	0543	11.87	0.0500	11.97	0.2282	0.0805	48	-0.47	010.60	0
010	Total N (12%)	0600	11.87	0.0600	11.97	0.2282	0.0805	48	-0.45	010.99	0
010	Total N (12%)	0157	11.90	0.0000	11.97	0.2282	0.0805	48	-0.32	010.60	0
010	Total N (12%)	0234	11.91	0.1900	11.97	0.2282	0.0805	48	-0.30	010.60	0
010	Total N (12%)	0220	11.92	0.1500	11.97	0.2282	0.0805	48	-0.26	010.60	0
010	Total N (12%)	0389	11.94	0.0100	11.97	0.2282	0.0805	48	-0.17	010.60	0
010	Total N (12%)	0231	11.95	0.0200	11.97	0.2282	0.0805	48	-0.10	010.60	0
010	Total N (12%)	0072	11.97	0.0700	11.97	0.2282	0.0805	48	-0.04	010.60	0
010	Total N (12%)	0405	11.97	0.0400	11.97	0.2282	0.0805	48	-0.01	010.60	0
010	Total N (12%)	0561	11.99	0.0200	11.97	0.2282	0.0805	48	0.07	010.60	0
010	Total N (12%)	0102	12.00	0.0100	11.97	0.2282	0.0805	48	0.09	010.60	0
010	Total N (12%)	0137	12.00	0.0330	11.97	0.2282	0.0805	48	0.10	010.60	0
010	Total N (12%)	0043	12.00	0.0600	11.97	0.2282	0.0805	48	0.12	010.60	0
010	Total N (12%)	0354	12.00	0.0000	11.97	0.2282	0.0805	48	0.12	010.60	0
010	Total N (12%)	0452	12.00	0.1670	11.97	0.2282	0.0805	48	0.13	010.60	0
010	Total N (12%)	0501	12.01	0.0200	11.97	0.2282	0.0805	48	0.16	010.60	0
010	Total N (12%)	0292	12.02	0.0900	11.97	0.2282	0.0805	48	0.18	010.60	0
010	Total N (12%)	0451	12.02	0.1000	11.97	0.2282	0.0805	48	0.20	010.60	0
010	Total N (12%)	0114	12.04	0.0300	11.97	0.2282	0.0805	48	0.27	010.60	0
010	Total N (12%)	0291	12.04	0.0200	11.97	0.2282	0.0805	48	0.29	010.60	0
010	Total N (12%)	0368	12.06	0.2500	11.97	0.2282	0.0805	48	0.38	010.60	0
010	Total N (12%)	0547	12.07	0.0100	11.97	0.2282	0.0805	48	0.40	010.60	0
010	Total N (12%)	0040	12.10	0.2000	11.97	0.2282	0.0805	48	0.56	010.60	0
010	Total N (12%)	0564	12.10	0.0000	11.97	0.2282	0.0805	48	0.56	010.99	0
010	Total N (12%)	0055	12.14	0.0500	11.97	0.2282	0.0805	48	0.71	010.60	0
010	Total N (12%)	0049	12.15	0.0300	11.97	0.2282	0.0805	48	0.75	010.60	0
010	Total N (12%)	0177	12.15	0.1670	11.97	0.2282	0.0805	48	0.76	010.60	0
010	Total N (12%)	0029	12.15	0.2000	11.97	0.2282	0.0805	48	0.77	010.60	0
010	Total N (12%)	0169	12.26	0.0200	11.97	0.2282	0.0805	48	1.26	010.60	0
010	Total N (12%)	0559	12.29	0.0100	11.97	0.2282	0.0805	48	1.37	010.99	0
010	Total N (12%)	0562	12.29	0.0300	11.97	0.2282	0.0805	48	1.37	010.99	0
010	Total N (12%)	0588	12.33	0.3900	11.97	0.2282	0.0805	48	1.54	010.60	0
010	Total N (12%)	0568	12.50	0.0000	11.97	0.2282	0.0805	48	2.31	010.12	0
010	Total N (12%)	0521	12.64±	0.0000	11.97	0.2282	0.0805	48	2.92	010.60	0
010	Total N (12%)	0255	12.68±	0.0100	11.97	0.2282	0.0805	48	3.10	010.60	0
010	Total N (12%)	0028	11.85	0.4300	11.97	0.2282	0.0805	48	-0.56	010.60	1
020	Total P2O5 (%)	0389	36.00	0.4000	40.48	1.197	0.2017	32	-3.74	020.50	0
020	Total P2O5 (%)	0472	36.70	0.2600	40.48	1.197	0.2017	32	-3.16	020.50	0
020	Total P2O5 (%)	0433	38.54	0.2100	40.48	1.197	0.2017	32	-1.62	020.50	0
020	Total P2O5 (%)	0368	39.28	1.370	40.48	1.197	0.2017	32	-1.00	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 (%)	0564	39.55	0.0400	40.48	1.197	0.2017	32	-0.77	020.99	0
020	Total P2O5 (%)	0255	39.58	0.8930	40.48	1.197	0.2017	32	-0.75	020.50	0
020	Total P2O5 (%)	0543	39.61	0.1360	40.48	1.197	0.2017	32	-0.73	020.50	0
020	Total P2O5 (%)	0521	39.74	0.0000	40.48	1.197	0.2017	32	-0.62	020.50	0
020	Total P2O5 (%)	0444	39.91	0.0600	40.48	1.197	0.2017	32	-0.47	020.50	0
020	Total P2O5 (%)	0600	39.93	0.0600	40.48	1.197	0.2017	32	-0.46	020.99	0
020	Total P2O5 (%)	0527	39.96	0.1166	40.48	1.197	0.2017	32	-0.43	020.50	0
020	Total P2O5 (%)	0291	40.07	0.0300	40.48	1.197	0.2017	32	-0.34	020.50	0
020	Total P2O5 (%)	0501	40.10	0.2000	40.48	1.197	0.2017	32	-0.31	020.50	0
020	Total P2O5 (%)	0451	40.11	0.2000	40.48	1.197	0.2017	32	-0.31	020.50	0
020	Total P2O5 (%)	0234	40.35	0.1000	40.48	1.197	0.2017	32	-0.11	020.50	0
020	Total P2O5 (%)	0231	40.44	0.1400	40.48	1.197	0.2017	32	-0.03	020.20	0
020	Total P2O5 (%)	0405	40.44	0.0000	40.48	1.197	0.2017	32	-0.03	020.20	0
020	Total P2O5 (%)	0444	40.50	0.1600	40.48	1.197	0.2017	32	0.02	020.10	0
020	Total P2O5 (%)	0169	40.53	0.0400	40.48	1.197	0.2017	32	0.05	020.20	0
020	Total P2O5 (%)	0547	40.55	0.1000	40.48	1.197	0.2017	32	0.06	020.20	0
020	Total P2O5 (%)	0114	40.58	0.0200	40.48	1.197	0.2017	32	0.09	020.10	0
020	Total P2O5 (%)	0561	40.61	0.0200	40.48	1.197	0.2017	32	0.11	020.20	0
020	Total P2O5 (%)	0619	40.85	0.1000	40.48	1.197	0.2017	32	0.31	020.10	0
020	Total P2O5 (%)	0619	40.85	0.1000	40.48	1.197	0.2017	32	0.31	020.99	0
020	Total P2O5 (%)	0292	41.30	0.0400	40.48	1.197	0.2017	32	0.69	020.20	0
020	Total P2O5 (%)	0498	41.30	0.8000	40.48	1.197	0.2017	32	0.69	020.20	0
020	Total P2O5 (%)	0559	41.99	0.0100	40.48	1.197	0.2017	32	1.26	020.99	0
020	Total P2O5 (%)	0562	41.99	0.0300	40.48	1.197	0.2017	32	1.26	020.99	0
020	Total P2O5 (%)	0422	42.69	0.3600	40.48	1.197	0.2017	32	1.85	020.50	0
020	Total P2O5 (%)	0588	42.84	0.8300	40.48	1.197	0.2017	32	1.97	020.50	0
020	Total P2O5 (%)	0524	43.22	2.581	40.48	1.197	0.2017	32	2.29	020.50	0
020	Total P2O5 (%)	0515	44.07	0.6100	40.48	1.197	0.2017	32	3.00	020.99	0
020	Total P2O5 (%)	0042	45.80	5.000	40.48	1.197	0.2017	32	4.45	020.50	1
040	Indirect Available P2O5 (40%)	0547	39.50±	0.0000				1		040.50	0
041	Direct Available P2O5 (40%)	0472	37.56†	0.6600	40.24	0.5966	0.2281	28	-4.49	041.21	0
041	Direct Available P2O5 (40%)	0137	39.07†	0.6500	40.24	0.5966	0.2281	28	-1.97	041.50	0
041	Direct Available P2O5 (40%)	0177	39.47	0.2134	40.24	0.5966	0.2281	28	-1.28	041.21	0
041	Direct Available P2O5 (40%)	0405	39.55	0.0200	40.24	0.5966	0.2281	28	-1.16	041.11	0
041	Direct Available P2O5 (40%)	0421	39.75	0.3000	40.24	0.5966	0.2281	28	-0.82	041.50	0
041	Direct Available P2O5 (40%)	0600	39.76	0.1200	40.24	0.5966	0.2281	28	-0.81	041.99	0
041	Direct Available P2O5 (40%)	0485	39.80	0.2000	40.24	0.5966	0.2281	28	-0.74	041.11	0
041	Direct Available P2O5 (40%)	0609	39.82	0.2000	40.24	0.5966	0.2281	28	-0.71	041.21	0
041	Direct Available P2O5 (40%)	0043	39.90	0.1900	40.24	0.5966	0.2281	28	-0.58	041.51	0
041	Direct Available P2O5 (40%)	0073	39.90	0.1400	40.24	0.5966	0.2281	28	-0.57	041.11	0
041	Direct Available P2O5 (40%)	0537	39.99	0.1400	40.24	0.5966	0.2281	28	-0.42	041.99	0
041	Direct Available P2O5 (40%)	0029	40.23	0.7500	40.24	0.5966	0.2281	28	-0.03	041.40	0
041	Direct Available P2O5 (40%)	0354	40.25	0.1000	40.24	0.5966	0.2281	28	0.02	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 (40%)	0102	40.29	0.0700	40.24	0.5966	0.2281	28	0.07	041.10	0
041	Direct Available P2O5 (40%)	0072	40.38	0.1630	40.24	0.5966	0.2281	28	0.24	041.51	0
041	Direct Available P2O5 (40%)	0405	40.39	0.0100	40.24	0.5966	0.2281	28	0.24	041.99	0
041	Direct Available P2O5 (40%)	0177	40.40	0.0512	40.24	0.5966	0.2281	28	0.26	041.10	0
041	Direct Available P2O5 (40%)	0553	40.40	0.1400	40.24	0.5966	0.2281	28	0.27	041.20	0
041	Direct Available P2O5 (40%)	0518	40.45	0.3000	40.24	0.5966	0.2281	28	0.35	041.99	0
041	Direct Available P2O5 (40%)	0635	40.47	0.2100	40.24	0.5966	0.2281	28	0.38	041.10	0
041	Direct Available P2O5 (40%)	0095	40.52	0.7300	40.24	0.5966	0.2281	28	0.46	041.21	0
041	Direct Available P2O5 (40%)	0220	40.55	0.0900	40.24	0.5966	0.2281	28	0.51	041.11	0
041	Direct Available P2O5 (40%)	0049	40.71	0.1900	40.24	0.5966	0.2281	28	0.78	041.11	0
041	Direct Available P2O5 (40%)	0072	40.88	0.0300	40.24	0.5966	0.2281	28	1.06	041.11	0
041	Direct Available P2O5 (40%)	0117	40.95	0.1190	40.24	0.5966	0.2281	28	1.18	041.11	0
041	Direct Available P2O5 (40%)	0136	41.05	0.5000	40.24	0.5966	0.2281	28	1.36	041.51	0
041	Direct Available P2O5 (40%)	0040	41.10	0.8000	40.24	0.5966	0.2281	28	1.44	041.10	0
041	Direct Available P2O5 (40%)	0023	42.78±	0.2950	40.24	0.5966	0.2281	28	4.25	041.51	0
041	Direct Available P2O5 (40%)	0452	40.30	3.580	40.24	0.5966	0.2281	28	0.10	041.20	1
041	Direct Available P2O5 (40%)	0568	4.560±	0.0000	40.24	0.5966	0.2281	28	-59.81	041.21	2
048	Water Soluble P2O5 (%)	0472	34.20	0.4800	35.94	1.070	0.4000	5	-1.63	048.20	0
048	Water Soluble P2O5 (%)	0444	35.66	0.3600	35.94	1.070	0.4000	5	-0.27	048.10	0
048	Water Soluble P2O5 (%)	0619	36.50	0.4000	35.94	1.070	0.4000	5	0.52	048.10	0
048	Water Soluble P2O5 (%)	0619	36.50	0.4000	35.94	1.070	0.4000	5	0.52	048.99	0
048	Water Soluble P2O5 (%)	0444	36.86	0.3600	35.94	1.070	0.4000	5	0.86	048.50	0
050	Soluble K2O (%)	0422	0.0334	0.0063	0.1393	0.0267	0.0078	6	-3.54	050.50	0
050	Soluble K2O (%)	0354	0.1300	0.0020	0.1393	0.0267	0.0078	6	-0.31	050.52	0
050	Soluble K2O (%)	0527	0.1363	0.0063	0.1393	0.0267	0.0078	6	-0.10	050.99	0
050	Soluble K2O (%)	0524	0.1466	0.0033	0.1393	0.0267	0.0078	6	0.24	050.99	0
050	Soluble K2O (%)	0568	0.1600	0.0000	0.1393	0.0267	0.0078	6	0.69	050.51	0
050	Soluble K2O (%)	0588	0.1635	0.0210	0.1393	0.0267	0.0078	6	0.81	050.99	0
050	Soluble K2O (%)	0137	0.2000	0.4000	0.1393	0.0267	0.0078	6		050.52	4
101	Acid Soluble Ca (%)	0568	0.1810	0.0000	0.2453	0.0455	0.0133	4	-1.41	101.30	0
101	Acid Soluble Ca (%)	0389	0.2450	0.0100	0.2453	0.0455	0.0133	4	-0.01	101.99	0
101	Acid Soluble Ca (%)	0472	0.2750	0.0100	0.2453	0.0455	0.0133	4	0.65	101.33	0
101	Acid Soluble Ca (%)	0354	0.2800	0.0200	0.2453	0.0455	0.0133	4	0.76	101.30	0
101	Acid Soluble Ca (%)	0527	< 0.01		0.2453	0.0455	0.0133	4		101.33	5
121	Acid Soluble Mg (%)	0515	0.6493	0.0212	0.7128	0.0742	0.0132	6	-0.76	121.33	0
121	Acid Soluble Mg (%)	0568	0.6690	0.0000	0.7128	0.0742	0.0132	6	-0.53	121.30	0
121	Acid Soluble Mg (%)	0527	0.6760	0.0036	0.7128	0.0742	0.0132	6	-0.44	121.33	0
121	Acid Soluble Mg (%)	0354	0.7050	0.0100	0.7128	0.0742	0.0132	6	-0.09	121.30	0
121	Acid Soluble Mg (%)	0524	0.7535	0.0112	0.7128	0.0742	0.0132	6	0.49	121.99	0
121	Acid Soluble Mg (%)	0472	0.8700	0.0200	0.7128	0.0742	0.0132	6	1.89	121.33	0
121	Acid Soluble Mg (%)	0515	0.6427	0.2362	0.7128	0.0742	0.0132	6	-0.84	121.99	1
143	Elemental S (%)	0485	4.340	0.3000	7.491	2.311	0.1476	5	-1.36	143.00	0
143	Elemental S (%)	0368	6.394	0.1162	7.491	2.311	0.1476	5	-0.47	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 (%)	0389	7.290	0.1200	7.491	2.311	0.1476	5	-0.09	143.99	0
143	Elemental S (%)	0255	9.342	0.1820	7.491	2.311	0.1476	5	0.80	143.99	0
143	Elemental S (%)	0291	10.09	0.0200	7.491	2.311	0.1476	5	1.12	143.99	0
145	Sulfate S, HCl soluble (%)	0553	5.025	0.0300	7.005	2.535	0.0890	9	-0.72	145.99	0
145	Sulfate S, HCl soluble (%)	0136	5.335	0.0900	7.005	2.535	0.0890	9	-0.61	145.99	0
145	Sulfate S, HCl soluble (%)	0561	5.535	0.0100	7.005	2.535	0.0890	9	-0.54	145.00	0
145	Sulfate S, HCl soluble (%)	0485	5.580	0.1000	7.005	2.535	0.0890	9	-0.52	145.00	0
145	Sulfate S, HCl soluble (%)	0027	5.780	0.3000	7.005	2.535	0.0890	9	-0.45	145.00	0
145	Sulfate S, HCl soluble (%)	0220	5.895	0.1500	7.005	2.535	0.0890	9	-0.40	145.00	0
145	Sulfate S, HCl soluble (%)	0600	9.750	0.0600	7.005	2.535	0.0890	9	1.00	145.99	0
145	Sulfate S, HCl soluble (%)	0537	10.03	0.0400	7.005	2.535	0.0890	9	1.10	145.00	0
145	Sulfate S, HCl soluble (%)	0635	10.12	0.1300	7.005	2.535	0.0890	9	1.13	145.00	0
148	Total S (10%)	0354	5.245†	0.1700	9.966	0.6277	0.1801	32	-7.52	148.99	0
148	Total S (10%)	0564	5.395†	0.0100	9.966	0.6277	0.1801	32	-7.28	148.01	0
148	Total S (10%)	0543	7.258†	0.1950	9.966	0.6277	0.1801	32	-4.32	148.07	0
148	Total S (10%)	0472	8.765†	0.0900	9.966	0.6277	0.1801	32	-1.91	148.07	0
148	Total S (10%)	0231	8.900†	0.0000	9.966	0.6277	0.1801	32	-1.70	148.01	0
148	Total S (10%)	0055	9.523	0.3350	9.966	0.6277	0.1801	32	-0.71	148.01	0
148	Total S (10%)	0028	9.560	0.1400	9.966	0.6277	0.1801	32	-0.65	148.01	0
148	Total S (10%)	0433	9.595	0.0300	9.966	0.6277	0.1801	32	-0.59	148.99	0
148	Total S (10%)	0405	9.710	0.0000	9.966	0.6277	0.1801	32	-0.41	148.00	0
148	Total S (10%)	0023	9.756	0.0450	9.966	0.6277	0.1801	32	-0.34	148.99	0
148	Total S (10%)	0292	9.815	0.0300	9.966	0.6277	0.1801	32	-0.24	148.07	0
148	Total S (10%)	0136	9.840	0.2000	9.966	0.6277	0.1801	32	-0.20	148.07	0
148	Total S (10%)	0600	9.850	0.1000	9.966	0.6277	0.1801	32	-0.19	148.99	0
148	Total S (10%)	0177	9.886	0.0353	9.966	0.6277	0.1801	32	-0.13	148.07	0
148	Total S (10%)	0485	9.910	0.3800	9.966	0.6277	0.1801	32	-0.09	148.01	0
148	Total S (10%)	0452	9.930	0.0400	9.966	0.6277	0.1801	32	-0.06	148.99	0
148	Total S (10%)	0043	9.951	0.0720	9.966	0.6277	0.1801	32	-0.02	148.07	0
148	Total S (10%)	0049	10.11	0.0600	9.966	0.6277	0.1801	32	0.23	148.00	0
148	Total S (10%)	0072	10.15	0.0690	9.966	0.6277	0.1801	32	0.29	148.99	0
148	Total S (10%)	0521	10.16	0.0000	9.966	0.6277	0.1801	32	0.31	148.00	0
148	Total S (10%)	0422	10.18	0.6220	9.966	0.6277	0.1801	32	0.34	148.99	0
148	Total S (10%)	0040	10.20	0.0000	9.966	0.6277	0.1801	32	0.37	148.07	0
148	Total S (10%)	0527	10.22	0.0989	9.966	0.6277	0.1801	32	0.41	148.07	0
148	Total S (10%)	0073	10.28	0.4000	9.966	0.6277	0.1801	32	0.50	148.00	0
148	Total S (10%)	0029	10.37	0.2400	9.966	0.6277	0.1801	32	0.64	148.00	0
148	Total S (10%)	0609	10.40	0.2000	9.966	0.6277	0.1801	32	0.69	148.00	0
148	Total S (10%)	0102	10.47	0.5500	9.966	0.6277	0.1801	32	0.79	148.07	0
148	Total S (10%)	0157	10.65	0.3000	9.966	0.6277	0.1801	32	1.09	148.00	0
148	Total S (10%)	0547	10.68‡	0.0300	9.966	0.6277	0.1801	32	1.13	148.00	0
148	Total S (10%)	0451	10.80‡	0.4000	9.966	0.6277	0.1801	32	1.33	148.00	0
148	Total S (10%)	0220	11.72‡	0.0700	9.966	0.6277	0.1801	32	2.79	148.99	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				
148	Total S (10%)	0421	12.55±	0.5000	9.966	0.6277	0.1801	32	-4.12	148.07	0
148	Total S (10%)	0515	9.729	1.063	9.966	0.6277	0.1801	32	-0.38	148.07	1
149	S - HNO3 soluble (%)	0524	5.783	0.0464				1		149.04	0
151	Acid Soluble As (ppm)	0368	9.750	1.900	11.68	1.554	0.5585	8	-1.13	151.34	0
151	Acid Soluble As (ppm)	0498	10.45	0.9000	11.68	1.554	0.5585	8	-0.72	151.00	0
151	Acid Soluble As (ppm)	0527	10.95	0.5563	11.68	1.554	0.5585	8	-0.43	151.33	0
151	Acid Soluble As (ppm)	0220	11.45	0.1000	11.68	1.554	0.5585	8	-0.13	151.99	0
151	Acid Soluble As (ppm)	0220	11.55	0.1000	11.68	1.554	0.5585	8	-0.08	151.32	0
151	Acid Soluble As (ppm)	0136	12.46	0.0200	11.68	1.554	0.5585	8	0.46	151.33	0
151	Acid Soluble As (ppm)	0524	12.81	0.3701	11.68	1.554	0.5585	8	0.66	151.30	0
151	Acid Soluble As (ppm)	0405	15.50	1.000	11.68	1.554	0.5585	8	2.25	151.32	0
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	11.68	1.554	0.5585	8		151.30	4
151	Acid Soluble As (ppm)	0515	< 0.186		11.68	1.554	0.5585	8		151.34	5
151	Acid Soluble As (ppm)	0515	< 0.25		11.68	1.554	0.5585	8		151.33	5
165	Acid Soluble B (%)	0524	0.0047	0.0001	0.0082	0.0031	0.0001	3	-1.15	165.99	0
165	Acid Soluble B (%)	0354	0.0100	0.0000	0.0082	0.0031	0.0001	3	0.58	165.30	0
165	Acid Soluble B (%)	0472	0.0100	0.0000	0.0082	0.0031	0.0001	3	0.58	165.99	0
165	Acid Soluble B (%)	0527	< 0.01		0.0082	0.0031	0.0001	3		165.99	5
181	Acid Soluble Cd (ppm)	0255	4.858	0.2740	5.336	0.4485	0.1764	7	-0.96	181.30	0
181	Acid Soluble Cd (ppm)	0524	4.960	0.1553	5.336	0.4485	0.1764	7	-0.76	181.30	0
181	Acid Soluble Cd (ppm)	0527	5.177	0.1562	5.336	0.4485	0.1764	7	-0.32	181.33	0
181	Acid Soluble Cd (ppm)	0136	5.260	0.1200	5.336	0.4485	0.1764	7	-0.15	181.33	0
181	Acid Soluble Cd (ppm)	0220	5.500	0.0000	5.336	0.4485	0.1764	7	0.33	181.99	0
181	Acid Soluble Cd (ppm)	0220	5.600	0.0000	5.336	0.4485	0.1764	7	0.53	181.32	0
181	Acid Soluble Cd (ppm)	0405	6.000	0.0000	5.336	0.4485	0.1764	7	1.34	181.32	0
181	Acid Soluble Cd (ppm)	0368	4.500	0.8000	5.336	0.4485	0.1764	7	-1.69	181.34	1
181	Acid Soluble Cd (ppm)	0515	< 0.133		5.336	0.4485	0.1764	7		181.34	5
181	Acid Soluble Cd (ppm)	0515	< 0.19		5.336	0.4485	0.1764	7		181.33	5
191	Acid Soluble Cr (ppm)	0498	90.55	2.300	119.3	13.18	2.912	9	-2.01	191.00	0
191	Acid Soluble Cr (ppm)	0368	104.5	19.00	119.3	13.18	2.912	9	-1.04	191.34	0
191	Acid Soluble Cr (ppm)	0524	115.5	2.491	119.3	13.18	2.912	9	-0.26	191.30	0
191	Acid Soluble Cr (ppm)	0527	117.5	0.2692	119.3	13.18	2.912	9	-0.13	191.33	0
191	Acid Soluble Cr (ppm)	0136	117.9	1.400	119.3	13.18	2.912	9	-0.10	191.33	0
191	Acid Soluble Cr (ppm)	0220	127.6	0.0000	119.3	13.18	2.912	9	0.58	191.99	0
191	Acid Soluble Cr (ppm)	0515	128.8	6.100	119.3	13.18	2.912	9	0.66	191.33	0
191	Acid Soluble Cr (ppm)	0220	128.8	0.6000	119.3	13.18	2.912	9	0.67	191.32	0
191	Acid Soluble Cr (ppm)	0405	133.5	3.000	119.3	13.18	2.912	9	1.00	191.32	0
191	Acid Soluble Cr (ppm)	0515	107.0	57.31	119.3	13.18	2.912	9	-0.86	191.34	1
202	Acid Soluble Co (ppm)	0368	1.900	0.4000	2.529	0.6257	0.1402	7	-0.91	202.34	0
202	Acid Soluble Co (ppm)	0527	2.150	0.0457	2.529	0.6257	0.1402	7	-0.55	202.33	0
202	Acid Soluble Co (ppm)	0220	2.200	0.2000	2.529	0.6257	0.1402	7	-0.48	202.99	0
202	Acid Soluble Co (ppm)	0220	2.300	0.0000	2.529	0.6257	0.1402	7	-0.33	202.32	0
202	Acid Soluble Co (ppm)	0501	2.685	0.0300	2.529	0.6257	0.1402	7	0.23	202.34	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
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202	Acid Soluble Co (ppm)	0405	3.000	0.0000	2.529	0.6257	0.1402	7	0.68	202.32	0
202	Acid Soluble Co (ppm)	0524	4.090	0.0254	2.529	0.6257	0.1402	7	2.26	202.30	0
202	Acid Soluble Co (ppm)	0255	6.270	12.54	2.529	0.6257	0.1402	7		202.99	4
202	Acid Soluble Co (ppm)	0136	< 0.0003		2.529	0.6257	0.1402	7		202.33	5
202	Acid Soluble Co (ppm)	0515	< 0.139		2.529	0.6257	0.1402	7		202.34	5
202	Acid Soluble Co (ppm)	0515	< 0.26		2.529	0.6257	0.1402	7		202.33	5
221	Acid Soluble Cu (%)	0220	0.0002	0.0000	0.0003	0.0001	0.0004	5	-0.71	221.32	0
221	Acid Soluble Cu (%)	0524	0.0002	0.0000	0.0003	0.0001	0.0004	5	-0.71	221.99	0
221	Acid Soluble Cu (%)	0136	0.0003	0.0000	0.0003	0.0001	0.0004	5	0.00	221.33	0
221	Acid Soluble Cu (%)	0527	0.0003	0.0000	0.0003	0.0001	0.0004	5	0.00	221.33	0
221	Acid Soluble Cu (%)	0368	0.0005	0.0004	0.0003	0.0001	0.0004	5	1.43	221.99	0
221	Acid Soluble Cu (%)	0515	0.0014	0.0014	0.0003	0.0001	0.0004	5	7.84	221.99	1
221	Acid Soluble Cu (%)	0255	0.0000	0.0000	0.0003	0.0001	0.0004	5		221.30	4
221	Acid Soluble Cu (%)	0405	< 0.0002		0.0003	0.0001	0.0004	5		221.32	5
221	Acid Soluble Cu (%)	0354	< 0.01		0.0003	0.0001	0.0004	5		221.30	5
241	Acid Soluble Fe (%)	0515	0.5502	0.3486	0.7658	0.1373	0.1084	5	-1.37	241.99	0
241	Acid Soluble Fe (%)	0472	0.7400	0.0000	0.7658	0.1373	0.1084	5	-0.16	241.33	0
241	Acid Soluble Fe (%)	0354	0.8050	0.0100	0.7658	0.1373	0.1084	5	0.25	241.30	0
241	Acid Soluble Fe (%)	0524	0.8109	0.0511	0.7658	0.1373	0.1084	5	0.29	241.99	0
241	Acid Soluble Fe (%)	0527	0.9228	0.0238	0.7658	0.1373	0.1084	5	1.00	241.33	0
241	Acid Soluble Fe (%)	0515	2.537	2.031	0.7658	0.1373	0.1084	5	11.26	241.33	1
251	Acid Soluble Pb (ppm)	0498	1.250	0.3000	11.21	5.322	1.424	7	-1.69	251.00	0
251	Acid Soluble Pb (ppm)	0524	8.155	0.9428	11.21	5.322	1.424	7	-0.52	251.30	0
251	Acid Soluble Pb (ppm)	0136	10.01	1.600	11.21	5.322	1.424	7	-0.20	251.33	0
251	Acid Soluble Pb (ppm)	0220	12.30	0.2000	11.21	5.322	1.424	7	0.19	251.32	0
251	Acid Soluble Pb (ppm)	0368	12.70	2.600	11.21	5.322	1.424	7	0.25	251.34	0
251	Acid Soluble Pb (ppm)	0220	14.05	2.900	11.21	5.322	1.424	7	0.48	251.99	0
251	Acid Soluble Pb (ppm)	0405	18.00	0.0000	11.21	5.322	1.424	7	1.15	251.32	0
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	11.21	5.322	1.424	7		251.30	4
251	Acid Soluble Pb (ppm)	0515	< 0.21		11.21	5.322	1.424	7		251.33	5
251	Acid Soluble Pb (ppm)	0515	< 0.216		11.21	5.322	1.424	7		251.34	5
261	Acid Soluble Mn (%)	0354	0.0200	0.0000	0.0224	0.0028	0.0018	4	-0.73	261.30	0
261	Acid Soluble Mn (%)	0472	0.0200	0.0000	0.0224	0.0028	0.0018	4	-0.73	261.35	0
261	Acid Soluble Mn (%)	0524	0.0243	0.0034	0.0224	0.0028	0.0018	4	0.57	261.99	0
261	Acid Soluble Mn (%)	0527	0.0254	0.0001	0.0224	0.0028	0.0018	4	0.88	261.35	0
261	Acid Soluble Mn (%)	0515	< 0.0011		0.0224	0.0028	0.0018	4		261.99	5
261	Acid Soluble Mn (%)	0515	< 0.0017		0.0224	0.0028	0.0018	4		261.35	5
281	Acid Soluble Hg (ppm)	0524	0.0048	0.0002				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)	0515	< 0.1					1		281.30	5
281	Acid Soluble Hg (ppm)	0405	< 2					1		281.30	5
289	Acid Soluble Mo (ppm)	0255	7.254	0.0960	9.564	0.8121	0.3629	9	-2.85	289.30	0

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			Value	Range	Rob Mean	Rob SD	Rob R-bar				
289	Acid Soluble Mo (ppm)	0524	8.884	0.3312	9.564	0.8121	0.3629	9	-0.84	289.30	0
289	Acid Soluble Mo (ppm)	0220	9.250	0.1000	9.564	0.8121	0.3629	9	-0.39	289.99	0
289	Acid Soluble Mo (ppm)	0136	9.300	0.2000	9.564	0.8121	0.3629	9	-0.33	289.33	0
289	Acid Soluble Mo (ppm)	0220	9.400	0.0000	9.564	0.8121	0.3629	9	-0.20	289.32	0
289	Acid Soluble Mo (ppm)	0501	9.990	0.0200	9.564	0.8121	0.3629	9	0.52	289.34	0
289	Acid Soluble Mo (ppm)	0234	10.00	0.0000	9.564	0.8121	0.3629	9	0.54	289.30	0
289	Acid Soluble Mo (ppm)	0527	10.41	0.7930	9.564	0.8121	0.3629	9	1.04	289.33	0
289	Acid Soluble Mo (ppm)	0405	10.50	1.000	9.564	0.8121	0.3629	9	1.15	289.32	0
289	Acid Soluble Mo (ppm)	0368	9.250	2.100	9.564	0.8121	0.3629	9	-0.39	289.34	1
289	Acid Soluble Mo (ppm)	0515	< 0.178		9.564	0.8121	0.3629	9		289.34	5
289	Acid Soluble Mo (ppm)	0515	< 0.23		9.564	0.8121	0.3629	9		289.33	5
291	Acid Soluble Ni (ppm)	0220	15.50	0.4000	16.87	0.9526	0.5959	9	-1.44	291.32	0
291	Acid Soluble Ni (ppm)	0220	15.90	1.600	16.87	0.9526	0.5959	9	-1.02	291.99	0
291	Acid Soluble Ni (ppm)	0498	16.45	0.1000	16.87	0.9526	0.5959	9	-0.44	291.00	0
291	Acid Soluble Ni (ppm)	0527	16.86	0.3839	16.87	0.9526	0.5959	9	-0.01	291.33	0
291	Acid Soluble Ni (ppm)	0501	16.95	0.1000	16.87	0.9526	0.5959	9	0.09	291.34	0
291	Acid Soluble Ni (ppm)	0368	17.05	0.3000	16.87	0.9526	0.5959	9	0.19	291.34	0
291	Acid Soluble Ni (ppm)	0136	17.40	4.000	16.87	0.9526	0.5959	9	0.56	291.33	0
291	Acid Soluble Ni (ppm)	0524	17.41	0.1357	16.87	0.9526	0.5959	9	0.57	291.30	0
291	Acid Soluble Ni (ppm)	0405	19.00	0.0000	16.87	0.9526	0.5959	9	2.24	291.32	0
291	Acid Soluble Ni (ppm)	0255	41.21	25.93	16.87	0.9526	0.5959	9	25.55	291.99	1
291	Acid Soluble Ni (ppm)	0515	< 0.18		16.87	0.9526	0.5959	9		291.34	5
291	Acid Soluble Ni (ppm)	0515	< 0.26		16.87	0.9526	0.5959	9		291.33	5
301	Acid Soluble Se (ppm)	0524	0.2309	0.0309				1		301.30	0
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000				1		301.99	4
301	Acid Soluble Se (ppm)	0527	< 0.01					1		301.33	5
301	Acid Soluble Se (ppm)	0515	< 0.226					1		301.34	5
301	Acid Soluble Se (ppm)	0515	< 0.27					1		301.33	5
301	Acid Soluble Se (ppm)	0220	< 0.3					1		301.32	5
301	Acid Soluble Se (ppm)	0220	< 0.3					1		301.99	5
301	Acid Soluble Se (ppm)	0368	< 1.4					1		301.34	5
301	Acid Soluble Se (ppm)	0405	< 10					1		301.32	5
311	Sodium (%)	0527	0.1680	0.0053				2		311.33	0
311	Sodium (%)	0354	0.1800	0.0000				2		311.99	0
321	Acid Soluble Zn (1%)	0515	0.8364†	0.0792	0.9793	0.0743	0.0311	48	-1.92	321.99	0
321	Acid Soluble Zn (1%)	0354	0.8550†	0.0300	0.9793	0.0743	0.0311	48	-1.67	321.30	0
321	Acid Soluble Zn (1%)	0177	0.8692†	0.0037	0.9793	0.0743	0.0311	48	-1.48	321.33	0
321	Acid Soluble Zn (1%)	0040	0.8710†	0.0000	0.9793	0.0743	0.0311	48	-1.46	321.33	0
321	Acid Soluble Zn (1%)	0485	0.8800	0.0560	0.9793	0.0743	0.0311	48	-1.34	321.00	0
321	Acid Soluble Zn (1%)	0472	0.8850	0.0100	0.9793	0.0743	0.0311	48	-1.27	321.33	0
321	Acid Soluble Zn (1%)	0255	0.8930	0.0460	0.9793	0.0743	0.0311	48	-1.16	321.30	0
321	Acid Soluble Zn (1%)	0157	0.8970	0.0320	0.9793	0.0743	0.0311	48	-1.11	321.30	0
321	Acid Soluble Zn (1%)	0368	0.9127	0.0953	0.9793	0.0743	0.0311	48	-0.90	321.99	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				
321	Acid Soluble Zn (1%)	0136	0.9150	0.0300	0.9793	0.0743	0.0311	48	-0.87	321.33	0
321	Acid Soluble Zn (1%)	0292	0.9300	0.0000	0.9793	0.0743	0.0311	48	-0.66	321.30	0
321	Acid Soluble Zn (1%)	0220	0.9400	0.0200	0.9793	0.0743	0.0311	48	-0.53	321.32	0
321	Acid Soluble Zn (1%)	0433	0.9500	0.0000	0.9793	0.0743	0.0311	48	-0.39	321.30	0
321	Acid Soluble Zn (1%)	0072	0.9546	0.0241	0.9793	0.0743	0.0311	48	-0.33	321.30	0
321	Acid Soluble Zn (1%)	0444	0.9550	0.0100	0.9793	0.0743	0.0311	48	-0.33	321.30	0
321	Acid Soluble Zn (1%)	0562	0.9550	0.0100	0.9793	0.0743	0.0311	48	-0.33	321.99	0
321	Acid Soluble Zn (1%)	0042	0.9550	0.0700	0.9793	0.0743	0.0311	48	-0.33	321.99	0
321	Acid Soluble Zn (1%)	0389	0.9600	0.0000	0.9793	0.0743	0.0311	48	-0.26	321.99	0
321	Acid Soluble Zn (1%)	0049	0.9650	0.0220	0.9793	0.0743	0.0311	48	-0.19	321.30	0
321	Acid Soluble Zn (1%)	0559	0.9650	0.0100	0.9793	0.0743	0.0311	48	-0.19	321.99	0
321	Acid Soluble Zn (1%)	0498	0.9650	0.0700	0.9793	0.0743	0.0311	48	-0.19	321.03	0
321	Acid Soluble Zn (1%)	0095	0.9700	0.0200	0.9793	0.0743	0.0311	48	-0.13	321.32	0
321	Acid Soluble Zn (1%)	0421	0.9750	0.0300	0.9793	0.0743	0.0311	48	-0.06	321.33	0
321	Acid Soluble Zn (1%)	0501	0.9750	0.0500	0.9793	0.0743	0.0311	48	-0.06	321.99	0
321	Acid Soluble Zn (1%)	0102	0.9800	0.0200	0.9793	0.0743	0.0311	48	0.01	321.33	0
321	Acid Soluble Zn (1%)	0029	0.9803	0.0007	0.9793	0.0743	0.0311	48	0.01	321.00	0
321	Acid Soluble Zn (1%)	0527	0.9823	0.0020	0.9793	0.0743	0.0311	48	0.04	321.33	0
321	Acid Soluble Zn (1%)	0600	0.9870	0.0100	0.9793	0.0743	0.0311	48	0.10	321.99	0
321	Acid Soluble Zn (1%)	0543	0.9895	0.0090	0.9793	0.0743	0.0311	48	0.14	321.33	0
321	Acid Soluble Zn (1%)	0524	0.9912	0.0205	0.9793	0.0743	0.0311	48	0.16	321.99	0
321	Acid Soluble Zn (1%)	0537	0.9950	0.0100	0.9793	0.0743	0.0311	48	0.21	321.00	0
321	Acid Soluble Zn (1%)	0561	0.9950	0.0100	0.9793	0.0743	0.0311	48	0.21	321.33	0
321	Acid Soluble Zn (1%)	0515	1.003	0.0465	0.9793	0.0743	0.0311	48	0.31	321.33	0
321	Acid Soluble Zn (1%)	0553	1.015	0.0300	0.9793	0.0743	0.0311	48	0.48	321.00	0
321	Acid Soluble Zn (1%)	0169	1.017	0.0040	0.9793	0.0743	0.0311	48	0.51	321.33	0
321	Acid Soluble Zn (1%)	0291	1.020	0.0000	0.9793	0.0743	0.0311	48	0.55	321.30	0
321	Acid Soluble Zn (1%)	0023	1.023	0.0090	0.9793	0.0743	0.0311	48	0.58	321.99	0
321	Acid Soluble Zn (1%)	0231	1.025	0.0500	0.9793	0.0743	0.0311	48	0.61	321.30	0
321	Acid Soluble Zn (1%)	0405	1.025	0.0100	0.9793	0.0743	0.0311	48	0.61	321.32	0
321	Acid Soluble Zn (1%)	0234	1.040	0.1200	0.9793	0.0743	0.0311	48	0.82	321.30	0
321	Acid Soluble Zn (1%)	0043	1.064	0.0420	0.9793	0.0743	0.0311	48	1.14	321.33	0
321	Acid Soluble Zn (1%)	0518	1.065	0.0300	0.9793	0.0743	0.0311	48	1.15	321.99	0
321	Acid Soluble Zn (1%)	0485	1.085‡	0.1100	0.9793	0.0743	0.0311	48	1.42	321.32	0
321	Acid Soluble Zn (1%)	0451	1.097‡	0.0260	0.9793	0.0743	0.0311	48	1.58	321.30	0
321	Acid Soluble Zn (1%)	0619	1.120‡	0.0200	0.9793	0.0743	0.0311	48	1.89	321.30	0
321	Acid Soluble Zn (1%)	0452	1.120‡	0.0200	0.9793	0.0743	0.0311	48	1.89	321.33	0
321	Acid Soluble Zn (1%)	0635	1.135‡	0.0700	0.9793	0.0743	0.0311	48	2.09	321.99	0
321	Acid Soluble Zn (1%)	0619	1.170‡	0.1200	0.9793	0.0743	0.0311	48	2.57	321.99	0
321	Acid Soluble Zn (1%)	0055	0.7975†	0.2150	0.9793	0.0743	0.0311	48	-2.45	321.33	1
325	Water Soluble Zn (%)	0619	0.7305	0.0070	0.8120	0.1412	0.0080	3	-0.58	325.30	0
325	Water Soluble Zn (%)	0619	0.7305	0.0070	0.8120	0.1412	0.0080	3	-0.58	325.99	0
325	Water Soluble Zn (%)	0564	0.9750	0.0100	0.8120	0.1412	0.0080	3	1.15	325.99	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				

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.