

Analyte PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Analytes: 31

Sample # 221011

Regular PT Scheme

Labs Reporting: 74

High Micros

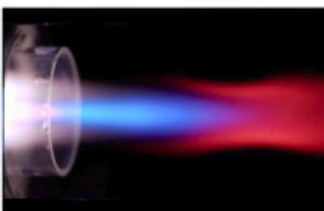
Statistical Summary

Issue Date : 11/30/2022

Analyte Code	Analyte Sample # 221011	# 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 (%)	1		0.0700									
002	Nitrate N (%)	1		0.0430									
005	Urea N (%)	1		0.2300									
010	Total N (%)	7	4	1.151	2.902	0.0432	0.4900	0.0329	0.0205	76.11%	0.16	0.0054	6.42%
020	Total P2O5 (%)	5	3	0.0941	0.1280	0.1566		0.1347	0.0972	86.05%		0.0374	5.29%
041	Direct Available P2O5 (%)	3	1	0.0392	0.0527	0.1566	0.6700	0.1347	0.1684	86.05%	0.47	0.0010	5.29%
050	Soluble K2O (%)	6	3	0.0628	0.1413	0.1251	0.4100	0.1956	0.1412	156.39%	1.11	0.1135	5.47%
060	Water (Free) (%)	1		9.650									
101	Acid Soluble Ca (%)	12	10	0.2362	0.1752	0.2045	0.2102	0.0184	0.0073	8.98%	0.20	0.0086	5.08%
121	Acid Soluble Mg (%)	16	15	0.1500	0.0419	0.1443	0.2072	0.0338	0.0109	23.45%	0.38	0.0077	5.35%
143	Elemental S (%)	2	2	2.048	2.322								
145	Sulfate S, HCl soluble (%)	3	3	12.26	0.1633	12.26		0.1633	0.1178	1.33%		0.1002	2.74%
148	Total S (%)	14	14	12.09	0.9968	12.16	0.8081	0.9483	0.3168	7.80%	2.73	0.3319	2.75%
149	S - HNO3 soluble (%)	2	2	12.42	1.129								
151	Acid Soluble As (ppm)	18	10	3.067	3.781	1.881		0.9242	0.3653	49.12%		0.4909	14.55%
165	Acid Soluble B (2.6%)	56	55	2.465	0.2582	2.476	0.3743	0.1628	0.0274	6.58%	1.01	0.0672	3.49%
171	Water Soluble B (%)	7	7	2.530	0.0561	2.524		0.0482	0.0228	1.91%		0.0286	3.48%
181	Acid Soluble Cd (ppm)	26	26	26.37	3.883	26.61		3.449	0.8454	12.96%		0.7958	9.76%
191	Acid Soluble Cr (ppm)	19	18	33.80	15.44	30.02		10.37	3.056	34.55%		1.893	9.59%
202	Acid Soluble Co (ppm)	22	21	83.36	17.73	83.97	26.1906	8.520	2.324	10.15%	0.76	2.492	8.21%
221	Acid Soluble Cu (10%)	71	69	9.926	1.636	10.24	1.0000	0.5441	0.0819	5.31%	1.27	0.2094	2.82%
241	Acid Soluble Fe (9%)	67	67	8.434	1.230	8.615	0.8665	0.8056	0.1230	9.35%	2.17	0.2428	2.89%
251	Acid Soluble Pb (ppm)	22	21	306.9	58.80	313.1		52.52	14.33	16.77%		14.54	6.74%
261	Acid Soluble Mn (12%)	66	64	8.727	4.308	8.180	0.8230	0.5453	0.0852	6.67%	1.54	0.2014	2.92%
271	Water Soluble Mn (%)	2	2	9.033	0.2934								
281	Acid Soluble Hg (ppm)	13	5	0.3445	0.6021	0.0515		0.0034	0.0019	6.51%		0.0030	22.00%
289	Acid Soluble Mo (ppm)	17	13	10.49	23.52	4.285	2.2856	2.821	0.9779	65.82%	2.88	0.6891	12.85%
291	Acid Soluble Ni (ppm)	22	21	150.0	25.76	151.8		17.89	4.879	11.78%		7.729	7.51%
301	Acid Soluble Se (ppm)	18	14	16.98	17.33	20.12		20.24	6.763	100.62%		1.758	10.18%

Analyte Code	Analyte Sample # 221011	# 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
311	Sodium (%)	8	7	1.188	0.4120	1.321	0.1371	0.0622	0.0294	4.71%	1.06	0.0084	3.84%
321	Acid Soluble Zn (%)	40	39	4.283	0.9545	4.144	0.4194	0.3937	0.0788	9.50%	2.19	0.2409	3.23%

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.



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Analytes: 31

Sample # 221011

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Labs Reporting: 74

High Micros

Lab Values

Issue Date : 11/30/2022

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
001	Ammoniacal N (%)	0524	0.0700	0.0200				1		001.99	0
002	Nitrate N (%)	0553	0.0430	0.0020				1		002.99	0
005	Urea N (%)	0524	0.2300	0.1000				1		005.99	0
010	Total N (%)	0422	0.0150	0.0100	0.0432	0.0329	0.0054	4	-0.73	010.60	0
010	Total N (%)	0472	0.0150	0.0000	0.0432	0.0329	0.0054	4	-0.73	010.60	0
010	Total N (%)	0524	0.0658	0.0077	0.0432	0.0329	0.0054	4	0.58	010.99	0
010	Total N (%)	0354	0.0770	0.0040	0.0432	0.0329	0.0054	4	0.87	010.60	0
010	Total N (%)	0516	0.1435	0.0370	0.0432	0.0329	0.0054	4	2.59	010.60	1
010	Total N (%)	0291	7.730	0.0000	0.0432	0.0329	0.0054	4	198.31	010.60	2
010	Total N (%)	0527	< 0.01		0.0432	0.0329	0.0054	4		010.60	5
020	Total P2O5 (%)	0572	0.0117	0.0015	0.1566	0.1347	0.0374	3	-1.08	020.99	0
020	Total P2O5 (%)	0524	0.1800	0.0206	0.1566	0.1347	0.0374	3	0.17	020.50	0
020	Total P2O5 (%)	0516	0.2780	0.0900	0.1566	0.1347	0.0374	3	0.90	020.50	0
020	Total P2O5 (%)	0552	0.0000	0.0000	0.1566	0.1347	0.0374	3		020.50	4
020	Total P2O5 (%)	0527	< 0.001		0.1566	0.1347	0.0374	3		020.50	5
041	Direct Available P2O5 (%)	0553	0.0075	0.0010				1		041.20	0
041	Direct Available P2O5 (%)	0354	< 0.01					1		041.21	5
041	Direct Available P2O5 (%)	0009	< 0.1					1		041.10	5
050	Soluble K2O (%)	0553	0.0100	0.0000	0.1251	0.1956	0.1135	3	-0.48	050.99	0
050	Soluble K2O (%)	0524	0.0143	0.0004	0.1251	0.1956	0.1135	3	-0.46	050.99	0
050	Soluble K2O (%)	0516	0.3510	0.3400	0.1251	0.1956	0.1135	3	0.94	050.99	0
050	Soluble K2O (%)	0552	0.0000	0.0000	0.1251	0.1956	0.1135	3		050.99	4
050	Soluble K2O (%)	0354	0.0005	0.0010	0.1251	0.1956	0.1135	3		050.52	4
050	Soluble K2O (%)	0527	< 0.001		0.1251	0.1956	0.1135	3		050.99	5
060	Water (Free) (%)	0009	9.650	0.1000				1		060.99	0
101	Acid Soluble Ca (%)	0572	0.1779	0.0036	0.2045	0.0184	0.0086	10	-1.45	101.99	0
101	Acid Soluble Ca (%)	0389	0.1800	0.0000	0.2045	0.0184	0.0086	10	-1.34	101.99	0
101	Acid Soluble Ca (%)	0009	0.2000	0.0000	0.2045	0.0184	0.0086	10	-0.25	101.33	0
101	Acid Soluble Ca (%)	0494	0.2034	0.0026	0.2045	0.0184	0.0086	10	-0.06	101.33	0
101	Acid Soluble Ca (%)	0472	0.2050	0.0300	0.2045	0.0184	0.0086	10	0.03	101.33	0
101	Acid Soluble Ca (%)	0035	0.2080	0.0220	0.2045	0.0184	0.0086	10	0.19	101.30	0
101	Acid Soluble Ca (%)	0423	0.2085	0.0010	0.2045	0.0184	0.0086	10	0.22	101.32	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
101	Acid Soluble Ca (%)	0025	0.2130	0.0100	0.2045	0.0184	0.0086	10	0.46	101.33	0
101	Acid Soluble Ca (%)	0421	0.2175	0.0070	0.2045	0.0184	0.0086	10	0.71	101.33	0
101	Acid Soluble Ca (%)	0354	0.2650	0.0100	0.2045	0.0184	0.0086	10	3.29	101.30	0
101	Acid Soluble Ca (%)	0552	0.7550	0.0900	0.2045	0.0184	0.0086	10	29.98	101.99	1
101	Acid Soluble Ca (%)	0527	< 0.001		0.2045	0.0184	0.0086	10		101.33	5
121	Acid Soluble Mg (%)	0524	0.0787	0.0096	0.1443	0.0338	0.0077	15	-1.94	121.99	0
121	Acid Soluble Mg (%)	0472	0.0900	0.0000	0.1443	0.0338	0.0077	15	-1.60	121.33	0
121	Acid Soluble Mg (%)	0421	0.0990	0.0060	0.1443	0.0338	0.0077	15	-1.34	121.33	0
121	Acid Soluble Mg (%)	0035	0.1265	0.0190	0.1443	0.0338	0.0077	15	-0.53	121.30	0
121	Acid Soluble Mg (%)	0515	0.1375	0.0029	0.1443	0.0338	0.0077	15	-0.20	121.99	0
121	Acid Soluble Mg (%)	0515	0.1400	0.0013	0.1443	0.0338	0.0077	15	-0.13	121.33	0
121	Acid Soluble Mg (%)	0354	0.1450	0.0100	0.1443	0.0338	0.0077	15	0.02	121.30	0
121	Acid Soluble Mg (%)	0572	0.1533	0.0224	0.1443	0.0338	0.0077	15	0.27	121.99	0
121	Acid Soluble Mg (%)	0553	0.1545	0.0170	0.1443	0.0338	0.0077	15	0.30	121.00	0
121	Acid Soluble Mg (%)	0423	0.1545	0.0010	0.1443	0.0338	0.0077	15	0.30	121.32	0
121	Acid Soluble Mg (%)	0009	0.1600	0.0000	0.1443	0.0338	0.0077	15	0.47	121.33	0
121	Acid Soluble Mg (%)	0494	0.1669	0.0143	0.1443	0.0338	0.0077	15	0.67	121.33	0
121	Acid Soluble Mg (%)	0527	0.1779	0.0022	0.1443	0.0338	0.0077	15	0.99	121.33	0
121	Acid Soluble Mg (%)	0516	0.1800	0.0060	0.1443	0.0338	0.0077	15	1.06	121.99	0
121	Acid Soluble Mg (%)	0025	0.1820	0.0040	0.1443	0.0338	0.0077	15	1.12	121.33	0
121	Acid Soluble Mg (%)	0552	0.2550	0.0700	0.1443	0.0338	0.0077	15	3.27	121.99	1
143	Elemental S (%)	0494	0.4067	0.0160				2		143.00	0
143	Elemental S (%)	0389	3.690	0.0200				2		143.99	0
145	Sulfate S, HCl soluble (%)	0553	12.09	0.0300	12.26	0.1633	0.1002	3	-1.06	145.99	0
145	Sulfate S, HCl soluble (%)	0419	12.28	0.1527	12.26	0.1633	0.1002	3	0.14	145.99	0
145	Sulfate S, HCl soluble (%)	0494	12.41	0.1180	12.26	0.1633	0.1002	3	0.92	145.00	0
148	Total S (%)	0515	9.728	0.2285	12.16	0.9483	0.3319	14	-2.57	148.07	0
148	Total S (%)	0527	11.17	0.4307	12.16	0.9483	0.3319	14	-1.04	148.07	0
148	Total S (%)	0472	11.21	0.0100	12.16	0.9483	0.3319	14	-1.01	148.07	0
148	Total S (%)	0260	11.34	0.8700	12.16	0.9483	0.3319	14	-0.87	148.07	0
148	Total S (%)	0572	11.75	0.4305	12.16	0.9483	0.3319	14	-0.43	148.99	0
148	Total S (%)	0354	11.95	0.5000	12.16	0.9483	0.3319	14	-0.22	148.99	0
148	Total S (%)	0231	12.15	0.1000	12.16	0.9483	0.3319	14	-0.01	148.01	0
148	Total S (%)	0035	12.25	0.3000	12.16	0.9483	0.3319	14	0.09	148.07	0
148	Total S (%)	0516	12.53	0.1050	12.16	0.9483	0.3319	14	0.39	148.99	0
148	Total S (%)	0513	12.80	0.0600	12.16	0.9483	0.3319	14	0.67	148.07	0
148	Total S (%)	0494	12.82	0.1016	12.16	0.9483	0.3319	14	0.69	148.01	0
148	Total S (%)	0494	12.92	1.210	12.16	0.9483	0.3319	14	0.79	148.07	0
148	Total S (%)	0421	13.20	0.2000	12.16	0.9483	0.3319	14	1.09	148.07	0
148	Total S (%)	0451	13.45	0.1000	12.16	0.9483	0.3319	14	1.36	148.00	0
149	S - HNO3 soluble (%)	0423	11.63	0.2500				2		149.04	0
149	S - HNO3 soluble (%)	0524	13.22	0.3588				2		149.04	0
151	Acid Soluble As (ppm)	0481	0.9700	0.0400	1.881	0.9242	0.4909	10	-0.99	151.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
151	Acid Soluble As (ppm)	0524	1.149	0.0177	1.881	0.9242	0.4909	10	-0.79	151.30	0
151	Acid Soluble As (ppm)	0476	1.245	0.0900	1.881	0.9242	0.4909	10	-0.69	151.30	0
151	Acid Soluble As (ppm)	0515	1.331	1.069	1.881	0.9242	0.4909	10	-0.60	151.34	0
151	Acid Soluble As (ppm)	0136	1.745	0.0100	1.881	0.9242	0.4909	10	-0.15	151.33	0
151	Acid Soluble As (ppm)	0009	1.850	0.1000	1.881	0.9242	0.4909	10	-0.03	151.99	0
151	Acid Soluble As (ppm)	0572	1.910	0.6700	1.881	0.9242	0.4909	10	0.03	151.99	0
151	Acid Soluble As (ppm)	0563	2.079	0.0390	1.881	0.9242	0.4909	10	0.21	151.33	0
151	Acid Soluble As (ppm)	0494	5.970	0.9200	1.881	0.9242	0.4909	10	4.42	151.33	0
151	Acid Soluble As (ppm)	0419	16.16	1.953	1.881	0.9242	0.4909	10	15.45	151.30	0
151	Acid Soluble As (ppm)	0368	4.600	4.800	1.881	0.9242	0.4909	10	2.94	151.34	1
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	1.881	0.9242	0.4909	10		151.30	4
151	Acid Soluble As (ppm)	0527	< 0.0001		1.881	0.9242	0.4909	10		151.33	5
151	Acid Soluble As (ppm)	0220	< 1		1.881	0.9242	0.4909	10		151.32	5
151	Acid Soluble As (ppm)	0220	< 1		1.881	0.9242	0.4909	10		151.99	5
151	Acid Soluble As (ppm)	0405	< 3		1.881	0.9242	0.4909	10		151.32	5
151	Acid Soluble As (ppm)	0009	< 5		1.881	0.9242	0.4909	10		151.33	5
151	Acid Soluble As (ppm)	0605	< 6.2		1.881	0.9242	0.4909	10		151.30	5
165	Acid Soluble B (2.6%)	0476	1.175†	0.0100	2.476	0.1628	0.0672	55	-7.99	165.99	0
165	Acid Soluble B (2.6%)	0419	2.079†	0.0246	2.476	0.1628	0.0672	55	-2.44	165.30	0
165	Acid Soluble B (2.6%)	0324	2.080†	0.1800	2.476	0.1628	0.0672	55	-2.43	165.30	0
165	Acid Soluble B (2.6%)	0377	2.085†	0.1500	2.476	0.1628	0.0672	55	-2.40	165.30	0
165	Acid Soluble B (2.6%)	0553	2.143	0.0250	2.476	0.1628	0.0672	55	-2.05	165.00	0
165	Acid Soluble B (2.6%)	0292	2.270	0.0000	2.476	0.1628	0.0672	55	-1.26	165.30	0
165	Acid Soluble B (2.6%)	0220	2.275	0.0100	2.476	0.1628	0.0672	55	-1.23	165.30	0
165	Acid Soluble B (2.6%)	0472	2.295	0.0100	2.476	0.1628	0.0672	55	-1.11	165.99	0
165	Acid Soluble B (2.6%)	0563	2.313	0.1150	2.476	0.1628	0.0672	55	-1.00	165.99	0
165	Acid Soluble B (2.6%)	0561	2.320	0.0800	2.476	0.1628	0.0672	55	-0.96	165.99	0
165	Acid Soluble B (2.6%)	0389	2.330	0.0000	2.476	0.1628	0.0672	55	-0.89	165.30	0
165	Acid Soluble B (2.6%)	0405	2.345	0.0300	2.476	0.1628	0.0672	55	-0.80	165.00	0
165	Acid Soluble B (2.6%)	0009	2.350	0.3000	2.476	0.1628	0.0672	55	-0.77	165.99	0
165	Acid Soluble B (2.6%)	0073	2.365	0.2900	2.476	0.1628	0.0672	55	-0.68	165.30	0
165	Acid Soluble B (2.6%)	0577	2.375	0.1100	2.476	0.1628	0.0672	55	-0.62	165.00	0
165	Acid Soluble B (2.6%)	0485	2.380	0.3000	2.476	0.1628	0.0672	55	-0.59	165.30	0
165	Acid Soluble B (2.6%)	0397	2.384	0.0001	2.476	0.1628	0.0672	55	-0.56	165.30	0
165	Acid Soluble B (2.6%)	0394	2.390	0.0000	2.476	0.1628	0.0672	55	-0.53	165.30	0
165	Acid Soluble B (2.6%)	0260	2.403	0.0950	2.476	0.1628	0.0672	55	-0.45	165.30	0
165	Acid Soluble B (2.6%)	0481	2.405	0.1100	2.476	0.1628	0.0672	55	-0.43	165.00	0
165	Acid Soluble B (2.6%)	0572	2.413	0.0954	2.476	0.1628	0.0672	55	-0.39	165.99	0
165	Acid Soluble B (2.6%)	0421	2.420	0.0060	2.476	0.1628	0.0672	55	-0.34	165.99	0
165	Acid Soluble B (2.6%)	0136	2.425	0.0100	2.476	0.1628	0.0672	55	-0.31	165.99	0
165	Acid Soluble B (2.6%)	0423	2.455	0.0100	2.476	0.1628	0.0672	55	-0.13	165.99	0
165	Acid Soluble B (2.6%)	0231	2.460	0.0200	2.476	0.1628	0.0672	55	-0.10	165.99	0
165	Acid Soluble B (2.6%)	0605	2.490	0.0180	2.476	0.1628	0.0672	55	0.09	165.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
165	Acid Soluble B (2.6%)	0043	2.495	0.0900	2.476	0.1628	0.0672	55	0.12	165.30	0
165	Acid Soluble B (2.6%)	0055	2.505	0.1100	2.476	0.1628	0.0672	55	0.18	165.00	0
165	Acid Soluble B (2.6%)	0559	2.505	0.0100	2.476	0.1628	0.0672	55	0.18	165.99	0
165	Acid Soluble B (2.6%)	0106	2.506	0.3416	2.476	0.1628	0.0672	55	0.18	165.30	0
165	Acid Soluble B (2.6%)	0518	2.520	0.0600	2.476	0.1628	0.0672	55	0.27	165.00	0
165	Acid Soluble B (2.6%)	0023	2.520	0.0000	2.476	0.1628	0.0672	55	0.27	165.30	0
165	Acid Soluble B (2.6%)	0524	2.527	0.0124	2.476	0.1628	0.0672	55	0.32	165.99	0
165	Acid Soluble B (2.6%)	0521	2.528	0.0220	2.476	0.1628	0.0672	55	0.32	165.99	0
165	Acid Soluble B (2.6%)	0354	2.530	0.0000	2.476	0.1628	0.0672	55	0.33	165.30	0
165	Acid Soluble B (2.6%)	0513	2.540	0.0200	2.476	0.1628	0.0672	55	0.40	165.30	0
165	Acid Soluble B (2.6%)	0291	2.555	0.0100	2.476	0.1628	0.0672	55	0.49	165.99	0
165	Acid Soluble B (2.6%)	0533	2.560	0.0600	2.476	0.1628	0.0672	55	0.52	165.00	0
165	Acid Soluble B (2.6%)	0042	2.579	0.0390	2.476	0.1628	0.0672	55	0.63	165.99	0
165	Acid Soluble B (2.6%)	0025	2.585	0.0700	2.476	0.1628	0.0672	55	0.67	165.30	0
165	Acid Soluble B (2.6%)	0444	2.585	0.0500	2.476	0.1628	0.0672	55	0.67	165.30	0
165	Acid Soluble B (2.6%)	0516	2.593	0.0590	2.476	0.1628	0.0672	55	0.72	165.99	0
165	Acid Soluble B (2.6%)	0234	2.600	0.1000	2.476	0.1628	0.0672	55	0.76	165.30	0
165	Acid Soluble B (2.6%)	0360	2.600	0.0200	2.476	0.1628	0.0672	55	0.76	165.99	0
165	Acid Soluble B (2.6%)	0527	2.610	0.0235	2.476	0.1628	0.0672	55	0.82	165.99	0
165	Acid Soluble B (2.6%)	0049	2.613	0.0065	2.476	0.1628	0.0672	55	0.84	165.30	0
165	Acid Soluble B (2.6%)	0255	2.614	0.0140	2.476	0.1628	0.0672	55	0.85	165.99	0
165	Acid Soluble B (2.6%)	0508	2.616	0.0280	2.476	0.1628	0.0672	55	0.86	165.30	0
165	Acid Soluble B (2.6%)	0558	2.633	0.0432	2.476	0.1628	0.0672	55	0.97	165.00	0
165	Acid Soluble B (2.6%)	0095	2.670	0.0200	2.476	0.1628	0.0672	55	1.19	165.99	0
165	Acid Soluble B (2.6%)	0368	2.670	0.0562	2.476	0.1628	0.0672	55	1.20	165.99	0
165	Acid Soluble B (2.6%)	0552	2.755	0.0500	2.476	0.1628	0.0672	55	1.72	165.99	0
165	Acid Soluble B (2.6%)	0422	2.870±	0.0840	2.476	0.1628	0.0672	55	2.42	165.30	0
165	Acid Soluble B (2.6%)	0515	2.912±	0.2764	2.476	0.1628	0.0672	55	2.68	165.99	0
165	Acid Soluble B (2.6%)	0534	3.030±	0.0200	2.476	0.1628	0.0672	55	3.41	165.00	0
165	Acid Soluble B (2.6%)	0451	2.787	0.4340	2.476	0.1628	0.0672	55	1.91	165.30	1
171	Water Soluble B (%)	0567	2.485	0.0100	2.524	0.0482	0.0286	7	-0.73	171.10	0
171	Water Soluble B (%)	0551	2.490	0.0200	2.524	0.0482	0.0286	7	-0.63	171.10	0
171	Water Soluble B (%)	0556	2.495	0.0100	2.524	0.0482	0.0286	7	-0.54	171.10	0
171	Water Soluble B (%)	0565	2.500	0.0400	2.524	0.0482	0.0286	7	-0.45	171.10	0
171	Water Soluble B (%)	0564	2.540	0.0400	2.524	0.0482	0.0286	7	0.31	171.10	0
171	Water Soluble B (%)	0600	2.560	0.0400	2.524	0.0482	0.0286	7	0.68	171.99	0
171	Water Soluble B (%)	0538	2.640	0.0400	2.524	0.0482	0.0286	7	2.18	171.10	0
181	Acid Soluble Cd (ppm)	0476	16.06	2.030	26.61	3.449	0.7958	26	-3.06	181.30	0
181	Acid Soluble Cd (ppm)	0444	18.65	0.7900	26.61	3.449	0.7958	26	-2.31	181.30	0
181	Acid Soluble Cd (ppm)	0609	22.55	0.5000	26.61	3.449	0.7958	26	-1.18	181.33	0
181	Acid Soluble Cd (ppm)	0028	22.70	0.4000	26.61	3.449	0.7958	26	-1.13	181.99	0
181	Acid Soluble Cd (ppm)	0534	22.93	0.1700	26.61	3.449	0.7958	26	-1.07	181.00	0
181	Acid Soluble Cd (ppm)	0389	23.14	0.0700	26.61	3.449	0.7958	26	-1.01	181.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
181	Acid Soluble Cd (ppm)	0524	24.03	0.0243	26.61	3.449	0.7958	26	-0.75	181.30	0
181	Acid Soluble Cd (ppm)	0605	24.25	1.080	26.61	3.449	0.7958	26	-0.68	181.30	0
181	Acid Soluble Cd (ppm)	0481	25.15	0.1000	26.61	3.449	0.7958	26	-0.42	181.99	0
181	Acid Soluble Cd (ppm)	0563	25.84	0.1910	26.61	3.449	0.7958	26	-0.22	181.33	0
181	Acid Soluble Cd (ppm)	0009	26.00	2.000	26.61	3.449	0.7958	26	-0.18	181.99	0
181	Acid Soluble Cd (ppm)	0394	26.79	0.1530	26.61	3.449	0.7958	26	0.05	181.30	0
181	Acid Soluble Cd (ppm)	0368	26.80	1.200	26.61	3.449	0.7958	26	0.06	181.34	0
181	Acid Soluble Cd (ppm)	0515	27.13	1.384	26.61	3.449	0.7958	26	0.15	181.34	0
181	Acid Soluble Cd (ppm)	0255	27.63	0.0600	26.61	3.449	0.7958	26	0.30	181.30	0
181	Acid Soluble Cd (ppm)	0009	28.00	2.000	26.61	3.449	0.7958	26	0.40	181.33	0
181	Acid Soluble Cd (ppm)	0035	28.10	2.600	26.61	3.449	0.7958	26	0.43	181.30	0
181	Acid Soluble Cd (ppm)	0136	28.65	0.1000	26.61	3.449	0.7958	26	0.59	181.33	0
181	Acid Soluble Cd (ppm)	0515	28.66	2.359	26.61	3.449	0.7958	26	0.59	181.33	0
181	Acid Soluble Cd (ppm)	0405	29.00	0.0000	26.61	3.449	0.7958	26	0.69	181.32	0
181	Acid Soluble Cd (ppm)	0572	29.56	0.7960	26.61	3.449	0.7958	26	0.86	181.99	0
181	Acid Soluble Cd (ppm)	0220	29.60	0.6000	26.61	3.449	0.7958	26	0.87	181.32	0
181	Acid Soluble Cd (ppm)	0220	29.60	0.2000	26.61	3.449	0.7958	26	0.87	181.99	0
181	Acid Soluble Cd (ppm)	0527	29.69	0.2651	26.61	3.449	0.7958	26	0.89	181.33	0
181	Acid Soluble Cd (ppm)	0494	31.35	1.100	26.61	3.449	0.7958	26	1.38	181.33	0
181	Acid Soluble Cd (ppm)	0419	33.86	0.5200	26.61	3.449	0.7958	26	2.10	181.30	0
191	Acid Soluble Cr (ppm)	0476	12.70	1.600	30.02	10.37	1.893	18	-1.67	191.30	0
191	Acid Soluble Cr (ppm)	0136	18.10	0.6000	30.02	10.37	1.893	18	-1.15	191.33	0
191	Acid Soluble Cr (ppm)	0572	20.95	10.63	30.02	10.37	1.893	18	-0.87	191.99	0
191	Acid Soluble Cr (ppm)	0481	21.89	3.040	30.02	10.37	1.893	18	-0.78	191.99	0
191	Acid Soluble Cr (ppm)	0527	24.19	0.1822	30.02	10.37	1.893	18	-0.56	191.33	0
191	Acid Soluble Cr (ppm)	0419	25.29	0.9210	30.02	10.37	1.893	18	-0.46	191.30	0
191	Acid Soluble Cr (ppm)	0515	26.08	1.458	30.02	10.37	1.893	18	-0.38	191.33	0
191	Acid Soluble Cr (ppm)	0605	27.68	0.5300	30.02	10.37	1.893	18	-0.23	191.30	0
191	Acid Soluble Cr (ppm)	0563	27.87	2.561	30.02	10.37	1.893	18	-0.21	191.33	0
191	Acid Soluble Cr (ppm)	0524	29.86	0.9725	30.02	10.37	1.893	18	-0.02	191.30	0
191	Acid Soluble Cr (ppm)	0405	31.50	3.000	30.02	10.37	1.893	18	0.14	191.32	0
191	Acid Soluble Cr (ppm)	0368	32.10	1.600	30.02	10.37	1.893	18	0.20	191.34	0
191	Acid Soluble Cr (ppm)	0515	32.59	1.072	30.02	10.37	1.893	18	0.25	191.34	0
191	Acid Soluble Cr (ppm)	0494	33.60	1.200	30.02	10.37	1.893	18	0.35	191.33	0
191	Acid Soluble Cr (ppm)	0389	37.48	0.0100	30.02	10.37	1.893	18	0.72	191.30	0
191	Acid Soluble Cr (ppm)	0220	62.50	2.000	30.02	10.37	1.893	18	3.13	191.32	0
191	Acid Soluble Cr (ppm)	0220	64.00	0.0000	30.02	10.37	1.893	18	3.28	191.99	0
191	Acid Soluble Cr (ppm)	0609	65.65	2.700	30.02	10.37	1.893	18	3.43	191.33	0
191	Acid Soluble Cr (ppm)	0035	48.20	18.60	30.02	10.37	1.893	18	1.75	191.30	1
202	Acid Soluble Co (ppm)	0476	43.48	0.7600	83.97	8.520	2.492	21	-4.75	202.30	0
202	Acid Soluble Co (ppm)	0389	59.16	0.1200	83.97	8.520	2.492	21	-2.91	202.30	0
202	Acid Soluble Co (ppm)	0255	59.53	0.2800	83.97	8.520	2.492	21	-2.87	202.99	0
202	Acid Soluble Co (ppm)	0423	76.34	0.4200	83.97	8.520	2.492	21	-0.90	202.32	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
202	Acid Soluble Co (ppm)	0563	77.52	7.584	83.97	8.520	2.492	21	-0.76	202.33	0
202	Acid Soluble Co (ppm)	0605	78.59	3.960	83.97	8.520	2.492	21	-0.63	202.30	0
202	Acid Soluble Co (ppm)	0524	80.08	0.3016	83.97	8.520	2.492	21	-0.46	202.30	0
202	Acid Soluble Co (ppm)	0220	81.05	0.9000	83.97	8.520	2.492	21	-0.34	202.32	0
202	Acid Soluble Co (ppm)	0220	83.50	1.000	83.97	8.520	2.492	21	-0.06	202.99	0
202	Acid Soluble Co (ppm)	0009	85.50	7.000	83.97	8.520	2.492	21	0.18	202.99	0
202	Acid Soluble Co (ppm)	0515	86.15	1.892	83.97	8.520	2.492	21	0.26	202.34	0
202	Acid Soluble Co (ppm)	0368	86.55	1.900	83.97	8.520	2.492	21	0.30	202.34	0
202	Acid Soluble Co (ppm)	0136	86.95	1.900	83.97	8.520	2.492	21	0.35	202.33	0
202	Acid Soluble Co (ppm)	0009	87.50	1.000	83.97	8.520	2.492	21	0.41	202.33	0
202	Acid Soluble Co (ppm)	0515	88.53	3.899	83.97	8.520	2.492	21	0.53	202.33	0
202	Acid Soluble Co (ppm)	0035	89.25	4.500	83.97	8.520	2.492	21	0.62	202.30	0
202	Acid Soluble Co (ppm)	0494	89.80	3.800	83.97	8.520	2.492	21	0.68	202.33	0
202	Acid Soluble Co (ppm)	0609	90.05	1.100	83.97	8.520	2.492	21	0.71	202.33	0
202	Acid Soluble Co (ppm)	0405	90.50	1.000	83.97	8.520	2.492	21	0.77	202.32	0
202	Acid Soluble Co (ppm)	0527	95.17	0.2203	83.97	8.520	2.492	21	1.32	202.33	0
202	Acid Soluble Co (ppm)	0419	140.9	8.800	83.97	8.520	2.492	21	6.68	202.30	0
202	Acid Soluble Co (ppm)	0572	77.76	23.04	83.97	8.520	2.492	21	-0.73	202.99	1
221	Acid Soluble Cu (10%)	0518	3.795†	0.1700	10.24	0.5441	0.2094	69	-11.84	221.00	0
221	Acid Soluble Cu (10%)	0476	4.655†	0.0100	10.24	0.5441	0.2094	69	-10.26	221.99	0
221	Acid Soluble Cu (10%)	0324	8.880†	0.0600	10.24	0.5441	0.2094	69	-2.50	221.30	0
221	Acid Soluble Cu (10%)	0553	9.125†	0.1500	10.24	0.5441	0.2094	69	-2.05	221.00	0
221	Acid Soluble Cu (10%)	0073	9.210†	1.140	10.24	0.5441	0.2094	69	-1.89	221.02	0
221	Acid Soluble Cu (10%)	0377	9.290	0.3400	10.24	0.5441	0.2094	69	-1.74	221.30	0
221	Acid Soluble Cu (10%)	0220	9.410	0.1400	10.24	0.5441	0.2094	69	-1.52	221.32	0
221	Acid Soluble Cu (10%)	0042	9.525	0.0900	10.24	0.5441	0.2094	69	-1.31	221.99	0
221	Acid Soluble Cu (10%)	0055	9.550	0.3000	10.24	0.5441	0.2094	69	-1.27	221.33	0
221	Acid Soluble Cu (10%)	0177	9.653	0.0230	10.24	0.5441	0.2094	69	-1.08	221.33	0
221	Acid Soluble Cu (10%)	0472	9.665	0.1100	10.24	0.5441	0.2094	69	-1.05	221.33	0
221	Acid Soluble Cu (10%)	0255	9.681	0.0050	10.24	0.5441	0.2094	69	-1.03	221.30	0
221	Acid Soluble Cu (10%)	0292	9.770	0.1600	10.24	0.5441	0.2094	69	-0.86	221.32	0
221	Acid Soluble Cu (10%)	0106	9.790	0.4408	10.24	0.5441	0.2094	69	-0.82	221.33	0
221	Acid Soluble Cu (10%)	0009	9.800	0.4000	10.24	0.5441	0.2094	69	-0.81	221.33	0
221	Acid Soluble Cu (10%)	0405	9.803	0.1833	10.24	0.5441	0.2094	69	-0.80	221.32	0
221	Acid Soluble Cu (10%)	0485	9.805	0.3900	10.24	0.5441	0.2094	69	-0.80	221.00	0
221	Acid Soluble Cu (10%)	0260	9.895	0.4100	10.24	0.5441	0.2094	69	-0.63	221.33	0
221	Acid Soluble Cu (10%)	0049	9.946	0.1795	10.24	0.5441	0.2094	69	-0.54	221.30	0
221	Acid Soluble Cu (10%)	0515	9.972	0.1582	10.24	0.5441	0.2094	69	-0.49	221.99	0
221	Acid Soluble Cu (10%)	0558	9.982	0.0072	10.24	0.5441	0.2094	69	-0.47	221.99	0
221	Acid Soluble Cu (10%)	0368	9.991	0.1369	10.24	0.5441	0.2094	69	-0.45	221.99	0
221	Acid Soluble Cu (10%)	0534	10.02	0.1300	10.24	0.5441	0.2094	69	-0.41	221.03	0
221	Acid Soluble Cu (10%)	0481	10.03	0.0700	10.24	0.5441	0.2094	69	-0.39	221.99	0
221	Acid Soluble Cu (10%)	0521	10.06	0.2410	10.24	0.5441	0.2094	69	-0.34	221.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
221	Acid Soluble Cu (10%)	0029	10.07	0.2700	10.24	0.5441	0.2094	69	-0.32	221.00	0
221	Acid Soluble Cu (10%)	0561	10.11	0.4600	10.24	0.5441	0.2094	69	-0.24	221.33	0
221	Acid Soluble Cu (10%)	0419	10.12	0.0530	10.24	0.5441	0.2094	69	-0.22	221.33	0
221	Acid Soluble Cu (10%)	0028	10.15	0.5100	10.24	0.5441	0.2094	69	-0.17	221.32	0
221	Acid Soluble Cu (10%)	0538	10.21	0.1300	10.24	0.5441	0.2094	69	-0.06	221.99	0
221	Acid Soluble Cu (10%)	0234	10.23	0.7600	10.24	0.5441	0.2094	69	-0.02	221.30	0
221	Acid Soluble Cu (10%)	0444	10.24	0.1200	10.24	0.5441	0.2094	69	0.00	221.30	0
221	Acid Soluble Cu (10%)	0600	10.25	0.1000	10.24	0.5441	0.2094	69	0.02	221.99	0
221	Acid Soluble Cu (10%)	0397	10.26	0.0009	10.24	0.5441	0.2094	69	0.03	221.30	0
221	Acid Soluble Cu (10%)	0513	10.28	0.0800	10.24	0.5441	0.2094	69	0.08	221.00	0
221	Acid Soluble Cu (10%)	0577	10.30	0.0700	10.24	0.5441	0.2094	69	0.10	221.00	0
221	Acid Soluble Cu (10%)	0567	10.32	0.0900	10.24	0.5441	0.2094	69	0.14	221.99	0
221	Acid Soluble Cu (10%)	0559	10.32	0.0100	10.24	0.5441	0.2094	69	0.14	221.99	0
221	Acid Soluble Cu (10%)	0136	10.35	0.1000	10.24	0.5441	0.2094	69	0.20	221.33	0
221	Acid Soluble Cu (10%)	0551	10.36	0.0400	10.24	0.5441	0.2094	69	0.22	221.00	0
221	Acid Soluble Cu (10%)	0552	10.37	0.4100	10.24	0.5441	0.2094	69	0.23	221.30	0
221	Acid Soluble Cu (10%)	0565	10.37	0.0200	10.24	0.5441	0.2094	69	0.24	221.99	0
221	Acid Soluble Cu (10%)	0533	10.40	0.0400	10.24	0.5441	0.2094	69	0.30	221.00	0
221	Acid Soluble Cu (10%)	0040	10.41	0.1302	10.24	0.5441	0.2094	69	0.32	221.00	0
221	Acid Soluble Cu (10%)	0422	10.44	0.4600	10.24	0.5441	0.2094	69	0.37	221.30	0
221	Acid Soluble Cu (10%)	0563	10.45	0.5900	10.24	0.5441	0.2094	69	0.38	221.33	0
221	Acid Soluble Cu (10%)	0605	10.46	0.0800	10.24	0.5441	0.2094	69	0.41	221.99	0
221	Acid Soluble Cu (10%)	0035	10.50	0.6000	10.24	0.5441	0.2094	69	0.48	221.30	0
221	Acid Soluble Cu (10%)	0423	10.51	0.0400	10.24	0.5441	0.2094	69	0.50	221.32	0
221	Acid Soluble Cu (10%)	0025	10.55	0.5000	10.24	0.5441	0.2094	69	0.57	221.33	0
221	Acid Soluble Cu (10%)	0231	10.56	0.0200	10.24	0.5441	0.2094	69	0.59	221.30	0
221	Acid Soluble Cu (10%)	0564	10.57	0.0200	10.24	0.5441	0.2094	69	0.61	221.99	0
221	Acid Soluble Cu (10%)	0095	10.64	0.5100	10.24	0.5441	0.2094	69	0.73	221.32	0
221	Acid Soluble Cu (10%)	0508	10.69	0.0200	10.24	0.5441	0.2094	69	0.83	221.30	0
221	Acid Soluble Cu (10%)	0157	10.70	0.2000	10.24	0.5441	0.2094	69	0.85	221.30	0
221	Acid Soluble Cu (10%)	0291	10.72	0.0100	10.24	0.5441	0.2094	69	0.88	221.30	0
221	Acid Soluble Cu (10%)	0394	10.74	0.0400	10.24	0.5441	0.2094	69	0.92	221.32	0
221	Acid Soluble Cu (10%)	0102	10.75	0.1100	10.24	0.5441	0.2094	69	0.93	221.30	0
221	Acid Soluble Cu (10%)	0354	10.79	0.0100	10.24	0.5441	0.2094	69	1.00	221.30	0
221	Acid Soluble Cu (10%)	0043	10.80	0.0500	10.24	0.5441	0.2094	69	1.02	221.33	0
221	Acid Soluble Cu (10%)	0389	10.80	0.0100	10.24	0.5441	0.2094	69	1.02	221.99	0
221	Acid Soluble Cu (10%)	0587	10.80	0.0500	10.24	0.5441	0.2094	69	1.02	221.99	0
221	Acid Soluble Cu (10%)	0527	10.92	0.0281	10.24	0.5441	0.2094	69	1.26	221.33	0
221	Acid Soluble Cu (10%)	0516	10.96	0.2400	10.24	0.5441	0.2094	69	1.33	221.99	0
221	Acid Soluble Cu (10%)	0451	10.99	0.7500	10.24	0.5441	0.2094	69	1.37	221.30	0
221	Acid Soluble Cu (10%)	0360	11.04	0.1100	10.24	0.5441	0.2094	69	1.46	221.30	0
221	Acid Soluble Cu (10%)	0524	11.09	0.9521	10.24	0.5441	0.2094	69	1.57	221.99	0
221	Acid Soluble Cu (10%)	0023	11.15	0.1000	10.24	0.5441	0.2094	69	1.68	221.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
221	Acid Soluble Cu (10%)	0572	11.51†	0.1098	10.24	0.5441	0.2094	69	2.35	221.99	0
221	Acid Soluble Cu (10%)	0515	9.160†	2.498	10.24	0.5441	0.2094	69	-1.98	221.33	1
221	Acid Soluble Cu (10%)	0494	0.1097†	0.0002	10.24	0.5441	0.2094	69	-18.61	221.33	2
241	Acid Soluble Fe (9%)	0476	3.835†	0.3300	8.615	0.8056	0.2428	67	-5.93	241.99	0
241	Acid Soluble Fe (9%)	0255	4.273†	0.1170	8.615	0.8056	0.2428	67	-5.39	241.30	0
241	Acid Soluble Fe (9%)	0042	4.300†	0.7000	8.615	0.8056	0.2428	67	-5.36	241.99	0
241	Acid Soluble Fe (9%)	0494	5.984†	0.0137	8.615	0.8056	0.2428	67	-3.27	241.33	0
241	Acid Soluble Fe (9%)	0292	6.370†	0.0400	8.615	0.8056	0.2428	67	-2.79	241.32	0
241	Acid Soluble Fe (9%)	0377	6.970†	0.0400	8.615	0.8056	0.2428	67	-2.04	241.30	0
241	Acid Soluble Fe (9%)	0035	7.325†	0.6500	8.615	0.8056	0.2428	67	-1.60	241.30	0
241	Acid Soluble Fe (9%)	0515	7.370†	0.1333	8.615	0.8056	0.2428	67	-1.55	241.99	0
241	Acid Soluble Fe (9%)	0605	7.372†	0.2390	8.615	0.8056	0.2428	67	-1.54	241.99	0
241	Acid Soluble Fe (9%)	0472	7.405†	0.0300	8.615	0.8056	0.2428	67	-1.50	241.33	0
241	Acid Soluble Fe (9%)	0533	7.495†	0.1700	8.615	0.8056	0.2428	67	-1.39	241.00	0
241	Acid Soluble Fe (9%)	0521	7.701†	0.0991	8.615	0.8056	0.2428	67	-1.14	241.99	0
241	Acid Soluble Fe (9%)	0397	7.827	0.0111	8.615	0.8056	0.2428	67	-0.98	241.30	0
241	Acid Soluble Fe (9%)	0073	7.945	1.130	8.615	0.8056	0.2428	67	-0.83	241.00	0
241	Acid Soluble Fe (9%)	0220	7.980	0.1000	8.615	0.8056	0.2428	67	-0.79	241.32	0
241	Acid Soluble Fe (9%)	0423	8.024	0.0180	8.615	0.8056	0.2428	67	-0.73	241.32	0
241	Acid Soluble Fe (9%)	0419	8.091	0.2010	8.615	0.8056	0.2428	67	-0.65	241.33	0
241	Acid Soluble Fe (9%)	0231	8.095	0.0100	8.615	0.8056	0.2428	67	-0.65	241.30	0
241	Acid Soluble Fe (9%)	0260	8.098	0.2150	8.615	0.8056	0.2428	67	-0.64	241.33	0
241	Acid Soluble Fe (9%)	0136	8.275	0.1300	8.615	0.8056	0.2428	67	-0.42	241.33	0
241	Acid Soluble Fe (9%)	0553	8.425	0.0500	8.615	0.8056	0.2428	67	-0.24	241.00	0
241	Acid Soluble Fe (9%)	0009	8.450	0.5000	8.615	0.8056	0.2428	67	-0.21	241.33	0
241	Acid Soluble Fe (9%)	0481	8.525	0.0300	8.615	0.8056	0.2428	67	-0.11	241.99	0
241	Acid Soluble Fe (9%)	0291	8.530	0.0200	8.615	0.8056	0.2428	67	-0.11	241.30	0
241	Acid Soluble Fe (9%)	0389	8.550	0.0000	8.615	0.8056	0.2428	67	-0.08	241.99	0
241	Acid Soluble Fe (9%)	0485	8.580	0.2800	8.615	0.8056	0.2428	67	-0.04	241.00	0
241	Acid Soluble Fe (9%)	0551	8.640	0.0200	8.615	0.8056	0.2428	67	0.03	241.00	0
241	Acid Soluble Fe (9%)	0177	8.655	0.0099	8.615	0.8056	0.2428	67	0.05	241.33	0
241	Acid Soluble Fe (9%)	0106	8.664	0.7387	8.615	0.8056	0.2428	67	0.06	241.33	0
241	Acid Soluble Fe (9%)	0577	8.670	0.3200	8.615	0.8056	0.2428	67	0.07	241.99	0
241	Acid Soluble Fe (9%)	0055	8.700	0.8000	8.615	0.8056	0.2428	67	0.11	241.33	0
241	Acid Soluble Fe (9%)	0394	8.750	0.1800	8.615	0.8056	0.2428	67	0.17	241.32	0
241	Acid Soluble Fe (9%)	0040	8.765	0.7700	8.615	0.8056	0.2428	67	0.19	241.00	0
241	Acid Soluble Fe (9%)	0405	8.766	0.0941	8.615	0.8056	0.2428	67	0.19	241.02	0
241	Acid Soluble Fe (9%)	0368	8.785	0.0475	8.615	0.8056	0.2428	67	0.21	241.99	0
241	Acid Soluble Fe (9%)	0572	8.794	0.2729	8.615	0.8056	0.2428	67	0.22	241.99	0
241	Acid Soluble Fe (9%)	0563	8.824	0.0680	8.615	0.8056	0.2428	67	0.26	241.33	0
241	Acid Soluble Fe (9%)	0451	8.841	0.3420	8.615	0.8056	0.2428	67	0.28	241.30	0
241	Acid Soluble Fe (9%)	0324	8.870	0.9200	8.615	0.8056	0.2428	67	0.32	241.30	0
241	Acid Soluble Fe (9%)	0025	8.870	0.4400	8.615	0.8056	0.2428	67	0.32	241.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
241	Acid Soluble Fe (9%)	0538	8.885	0.0500	8.615	0.8056	0.2428	67	0.33	241.99	0
241	Acid Soluble Fe (9%)	0028	8.905	0.4500	8.615	0.8056	0.2428	67	0.36	241.32	0
241	Acid Soluble Fe (9%)	0534	8.965	0.0700	8.615	0.8056	0.2428	67	0.43	241.03	0
241	Acid Soluble Fe (9%)	0558	8.965	0.0179	8.615	0.8056	0.2428	67	0.43	241.99	0
241	Acid Soluble Fe (9%)	0587	9.030	0.0800	8.615	0.8056	0.2428	67	0.51	241.99	0
241	Acid Soluble Fe (9%)	0527	9.039	0.0164	8.615	0.8056	0.2428	67	0.53	241.33	0
241	Acid Soluble Fe (9%)	0552	9.040	0.3000	8.615	0.8056	0.2428	67	0.53	241.30	0
241	Acid Soluble Fe (9%)	0234	9.055	0.0300	8.615	0.8056	0.2428	67	0.55	241.30	0
241	Acid Soluble Fe (9%)	0102	9.065	0.1900	8.615	0.8056	0.2428	67	0.56	241.30	0
241	Acid Soluble Fe (9%)	0029	9.081	0.2100	8.615	0.8056	0.2428	67	0.58	241.00	0
241	Acid Soluble Fe (9%)	0600	9.100	0.1000	8.615	0.8056	0.2428	67	0.60	241.99	0
241	Acid Soluble Fe (9%)	0559	9.115	0.0100	8.615	0.8056	0.2428	67	0.62	241.99	0
241	Acid Soluble Fe (9%)	0516	9.129	0.1870	8.615	0.8056	0.2428	67	0.64	241.99	0
241	Acid Soluble Fe (9%)	0360	9.165	0.2300	8.615	0.8056	0.2428	67	0.68	241.30	0
241	Acid Soluble Fe (9%)	0515	9.177	0.3709	8.615	0.8056	0.2428	67	0.70	241.33	0
241	Acid Soluble Fe (9%)	0567	9.185	0.0300	8.615	0.8056	0.2428	67	0.71	241.99	0
241	Acid Soluble Fe (9%)	0157	9.205	0.2700	8.615	0.8056	0.2428	67	0.73	241.30	0
241	Acid Soluble Fe (9%)	0444	9.215	0.1900	8.615	0.8056	0.2428	67	0.74	241.30	0
241	Acid Soluble Fe (9%)	0513	9.390	0.0200	8.615	0.8056	0.2428	67	0.96	241.30	0
241	Acid Soluble Fe (9%)	0354	9.415	0.4300	8.615	0.8056	0.2428	67	0.99	241.30	0
241	Acid Soluble Fe (9%)	0565	9.515±	0.0500	8.615	0.8056	0.2428	67	1.12	241.99	0
241	Acid Soluble Fe (9%)	0564	9.530±	0.0200	8.615	0.8056	0.2428	67	1.14	241.99	0
241	Acid Soluble Fe (9%)	0561	9.660±	0.5200	8.615	0.8056	0.2428	67	1.30	241.33	0
241	Acid Soluble Fe (9%)	0023	9.670±	0.0800	8.615	0.8056	0.2428	67	1.31	241.30	0
241	Acid Soluble Fe (9%)	0524	9.844±	0.8721	8.615	0.8056	0.2428	67	1.53	241.99	0
241	Acid Soluble Fe (9%)	0422	9.967±	0.9260	8.615	0.8056	0.2428	67	1.68	241.30	0
241	Acid Soluble Fe (9%)	0095	10.39±	0.2700	8.615	0.8056	0.2428	67	2.20	241.32	0
251	Acid Soluble Pb (ppm)	0476	134.8	5.320	313.1	52.52	14.54	21	-3.40	251.30	0
251	Acid Soluble Pb (ppm)	0444	208.0	10.00	313.1	52.52	14.54	21	-2.00	251.30	0
251	Acid Soluble Pb (ppm)	0220	246.0	10.00	313.1	52.52	14.54	21	-1.28	251.32	0
251	Acid Soluble Pb (ppm)	0220	246.0	2.000	313.1	52.52	14.54	21	-1.28	251.99	0
251	Acid Soluble Pb (ppm)	0389	264.6	0.9800	313.1	52.52	14.54	21	-0.92	251.30	0
251	Acid Soluble Pb (ppm)	0534	274.1	5.200	313.1	52.52	14.54	21	-0.74	251.00	0
251	Acid Soluble Pb (ppm)	0255	291.7	1.700	313.1	52.52	14.54	21	-0.41	251.30	0
251	Acid Soluble Pb (ppm)	0481	300.5	38.80	313.1	52.52	14.54	21	-0.24	251.99	0
251	Acid Soluble Pb (ppm)	0368	318.5	31.00	313.1	52.52	14.54	21	0.10	251.34	0
251	Acid Soluble Pb (ppm)	0028	322.0	18.00	313.1	52.52	14.54	21	0.17	251.99	0
251	Acid Soluble Pb (ppm)	0136	323.5	5.000	313.1	52.52	14.54	21	0.20	251.33	0
251	Acid Soluble Pb (ppm)	0605	325.5	27.59	313.1	52.52	14.54	21	0.24	251.30	0
251	Acid Soluble Pb (ppm)	0563	339.4	1.273	313.1	52.52	14.54	21	0.50	251.33	0
251	Acid Soluble Pb (ppm)	0527	341.1	1.838	313.1	52.52	14.54	21	0.53	251.33	0
251	Acid Soluble Pb (ppm)	0494	349.0	12.00	313.1	52.52	14.54	21	0.68	251.33	0
251	Acid Soluble Pb (ppm)	0524	354.9	17.19	313.1	52.52	14.54	21	0.80	251.30	0

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251	Acid Soluble Pb (ppm)	0405	357.0	98.00	313.1	52.52	14.54	21	0.84	251.32	0
251	Acid Soluble Pb (ppm)	0035	358.5	1.000	313.1	52.52	14.54	21	0.86	251.30	0
251	Acid Soluble Pb (ppm)	0515	360.7	4.590	313.1	52.52	14.54	21	0.91	251.33	0
251	Acid Soluble Pb (ppm)	0419	361.5	7.281	313.1	52.52	14.54	21	0.92	251.30	0
251	Acid Soluble Pb (ppm)	0515	372.4	6.595	313.1	52.52	14.54	21	1.13	251.34	0
251	Acid Soluble Pb (ppm)	0572	301.4	106.1	313.1	52.52	14.54	21	-0.22	251.99	1
261	Acid Soluble Mn (12%)	0476	4.375†	0.0900	8.180	0.5453	0.2014	64	-6.98	261.99	0
261	Acid Soluble Mn (12%)	0035	6.635†	0.8300	8.180	0.5453	0.2014	64	-2.83	261.30	0
261	Acid Soluble Mn (12%)	0292	7.120†	0.0200	8.180	0.5453	0.2014	64	-1.94	261.31	0
261	Acid Soluble Mn (12%)	0377	7.205†	0.3100	8.180	0.5453	0.2014	64	-1.79	261.32	0
261	Acid Soluble Mn (12%)	0481	7.440	0.1000	8.180	0.5453	0.2014	64	-1.36	261.99	0
261	Acid Soluble Mn (12%)	0534	7.475	0.0500	8.180	0.5453	0.2014	64	-1.29	261.15	0
261	Acid Soluble Mn (12%)	0073	7.540	0.2200	8.180	0.5453	0.2014	64	-1.17	261.32	0
261	Acid Soluble Mn (12%)	0260	7.563	0.0150	8.180	0.5453	0.2014	64	-1.13	261.35	0
261	Acid Soluble Mn (12%)	0220	7.575	0.1300	8.180	0.5453	0.2014	64	-1.11	261.34	0
261	Acid Soluble Mn (12%)	0009	7.600	0.8000	8.180	0.5453	0.2014	64	-1.06	261.35	0
261	Acid Soluble Mn (12%)	0494	7.616	0.3281	8.180	0.5453	0.2014	64	-1.04	261.35	0
261	Acid Soluble Mn (12%)	0177	7.638	0.0267	8.180	0.5453	0.2014	64	-1.00	261.35	0
261	Acid Soluble Mn (12%)	0397	7.716	0.0111	8.180	0.5453	0.2014	64	-0.85	261.32	0
261	Acid Soluble Mn (12%)	0485	7.725	0.0700	8.180	0.5453	0.2014	64	-0.83	261.12	0
261	Acid Soluble Mn (12%)	0423	7.765	0.0300	8.180	0.5453	0.2014	64	-0.76	261.34	0
261	Acid Soluble Mn (12%)	0419	7.803	0.0130	8.180	0.5453	0.2014	64	-0.69	261.35	0
261	Acid Soluble Mn (12%)	0472	7.865	0.0100	8.180	0.5453	0.2014	64	-0.58	261.35	0
261	Acid Soluble Mn (12%)	0515	7.881	0.2847	8.180	0.5453	0.2014	64	-0.55	261.99	0
261	Acid Soluble Mn (12%)	0422	7.888	0.3660	8.180	0.5453	0.2014	64	-0.54	261.30	0
261	Acid Soluble Mn (12%)	0533	7.890	0.1000	8.180	0.5453	0.2014	64	-0.53	261.12	0
261	Acid Soluble Mn (12%)	0324	7.890	0.5600	8.180	0.5453	0.2014	64	-0.53	261.31	0
261	Acid Soluble Mn (12%)	0157	7.910	0.0200	8.180	0.5453	0.2014	64	-0.50	261.30	0
261	Acid Soluble Mn (12%)	0231	7.965	0.0700	8.180	0.5453	0.2014	64	-0.39	261.32	0
261	Acid Soluble Mn (12%)	0389	7.975	0.0300	8.180	0.5453	0.2014	64	-0.38	261.99	0
261	Acid Soluble Mn (12%)	0521	7.991	0.2740	8.180	0.5453	0.2014	64	-0.35	261.99	0
261	Acid Soluble Mn (12%)	0577	8.060	0.1400	8.180	0.5453	0.2014	64	-0.22	261.99	0
261	Acid Soluble Mn (12%)	0040	8.069	0.3350	8.180	0.5453	0.2014	64	-0.20	261.12	0
261	Acid Soluble Mn (12%)	0028	8.130	0.1200	8.180	0.5453	0.2014	64	-0.09	261.34	0
261	Acid Soluble Mn (12%)	0360	8.180	0.1000	8.180	0.5453	0.2014	64	0.00	261.31	0
261	Acid Soluble Mn (12%)	0291	8.185	0.0100	8.180	0.5453	0.2014	64	0.01	261.30	0
261	Acid Soluble Mn (12%)	0095	8.190	0.3200	8.180	0.5453	0.2014	64	0.02	261.34	0
261	Acid Soluble Mn (12%)	0444	8.210	0.1400	8.180	0.5453	0.2014	64	0.05	261.30	0
261	Acid Soluble Mn (12%)	0029	8.211	0.0640	8.180	0.5453	0.2014	64	0.06	261.12	0
261	Acid Soluble Mn (12%)	0255	8.220	0.0110	8.180	0.5453	0.2014	64	0.07	261.99	0
261	Acid Soluble Mn (12%)	0049	8.224	0.1296	8.180	0.5453	0.2014	64	0.08	261.32	0
261	Acid Soluble Mn (12%)	0368	8.233	0.2051	8.180	0.5453	0.2014	64	0.10	261.99	0
261	Acid Soluble Mn (12%)	0106	8.244	0.3533	8.180	0.5453	0.2014	64	0.12	261.35	0

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			Value	Range	Rob Mean	Rob SD	Range				
261	Acid Soluble Mn (12%)	0394	8.290	0.0600	8.180	0.5453	0.2014	64	0.20	261.34	0
261	Acid Soluble Mn (12%)	0552	8.300	0.3400	8.180	0.5453	0.2014	64	0.22	261.32	0
261	Acid Soluble Mn (12%)	0136	8.305	0.0500	8.180	0.5453	0.2014	64	0.23	261.35	0
261	Acid Soluble Mn (12%)	0023	8.330	0.0600	8.180	0.5453	0.2014	64	0.27	261.32	0
261	Acid Soluble Mn (12%)	0587	8.330	0.1600	8.180	0.5453	0.2014	64	0.27	261.99	0
261	Acid Soluble Mn (12%)	0551	8.360	0.0200	8.180	0.5453	0.2014	64	0.33	261.12	0
261	Acid Soluble Mn (12%)	0043	8.380	0.2000	8.180	0.5453	0.2014	64	0.37	261.35	0
261	Acid Soluble Mn (12%)	0561	8.425	0.0700	8.180	0.5453	0.2014	64	0.45	261.35	0
261	Acid Soluble Mn (12%)	0605	8.502	0.0750	8.180	0.5453	0.2014	64	0.59	261.99	0
261	Acid Soluble Mn (12%)	0055	8.550	0.3000	8.180	0.5453	0.2014	64	0.68	261.35	0
261	Acid Soluble Mn (12%)	0600	8.550	0.1000	8.180	0.5453	0.2014	64	0.68	261.99	0
261	Acid Soluble Mn (12%)	0565	8.560	0.0400	8.180	0.5453	0.2014	64	0.70	261.99	0
261	Acid Soluble Mn (12%)	0354	8.567	0.1350	8.180	0.5453	0.2014	64	0.71	261.30	0
261	Acid Soluble Mn (12%)	0527	8.617	0.0201	8.180	0.5453	0.2014	64	0.80	261.35	0
261	Acid Soluble Mn (12%)	0564	8.625	0.0500	8.180	0.5453	0.2014	64	0.82	261.99	0
261	Acid Soluble Mn (12%)	0567	8.650	0.1000	8.180	0.5453	0.2014	64	0.86	261.99	0
261	Acid Soluble Mn (12%)	0234	8.675	0.4900	8.180	0.5453	0.2014	64	0.91	261.30	0
261	Acid Soluble Mn (12%)	0563	8.716	0.5490	8.180	0.5453	0.2014	64	0.98	261.35	0
261	Acid Soluble Mn (12%)	0025	8.805	0.8300	8.180	0.5453	0.2014	64	1.15	261.35	0
261	Acid Soluble Mn (12%)	0513	8.840	0.0200	8.180	0.5453	0.2014	64	1.21	261.32	0
261	Acid Soluble Mn (12%)	0572	8.901	0.1353	8.180	0.5453	0.2014	64	1.32	261.99	0
261	Acid Soluble Mn (12%)	0042	8.955	0.6500	8.180	0.5453	0.2014	64	1.42	261.99	0
261	Acid Soluble Mn (12%)	0524	9.122‡	0.8860	8.180	0.5453	0.2014	64	1.73	261.99	0
261	Acid Soluble Mn (12%)	0451	9.432‡	0.4880	8.180	0.5453	0.2014	64	2.30	261.32	0
261	Acid Soluble Mn (12%)	0553	10.15‡	0.3000	8.180	0.5453	0.2014	64	3.61	261.00	0
261	Acid Soluble Mn (12%)	0558	11.92‡	0.0668	8.180	0.5453	0.2014	64	6.86	261.99	0
261	Acid Soluble Mn (12%)	0559	12.45‡	0.0100	8.180	0.5453	0.2014	64	7.82	261.99	0
261	Acid Soluble Mn (12%)	0515	6.312‡	4.510	8.180	0.5453	0.2014	64	-3.43	261.35	1
261	Acid Soluble Mn (12%)	0516	42.19‡	1.154	8.180	0.5453	0.2014	64	62.37	261.99	2
271	Water Soluble Mn (%)	0518	8.825	0.1500				2		271.00	0
271	Water Soluble Mn (%)	0538	9.240	0.2200				2		271.00	0
281	Acid Soluble Hg (ppm)	0524	0.0466	0.0007	0.0515	0.0034	0.0030	5	-1.48	281.99	0
281	Acid Soluble Hg (ppm)	0220	0.0500	0.0000	0.0515	0.0034	0.0030	5	-0.45	281.99	0
281	Acid Soluble Hg (ppm)	0572	0.0520	0.0040	0.0515	0.0034	0.0030	5	0.15	281.99	0
281	Acid Soluble Hg (ppm)	0035	0.0545	0.0090	0.0515	0.0034	0.0030	5	0.89	281.99	0
281	Acid Soluble Hg (ppm)	0368	0.0545	0.0014	0.0515	0.0034	0.0030	5	0.89	281.99	0
281	Acid Soluble Hg (ppm)	0563	0.1255	0.0370	0.0515	0.0034	0.0030	5	22.06	281.30	1
281	Acid Soluble Hg (ppm)	0527	< 0.001		0.0515	0.0034	0.0030	5		281.30	5
281	Acid Soluble Hg (ppm)	0009	< 0.044		0.0515	0.0034	0.0030	5		281.99	5
281	Acid Soluble Hg (ppm)	0476	< 0.1		0.0515	0.0034	0.0030	5		281.30	5
281	Acid Soluble Hg (ppm)	0117	< 0.2		0.0515	0.0034	0.0030	5		281.00	5
281	Acid Soluble Hg (ppm)	0481	< 0.5		0.0515	0.0034	0.0030	5		281.00	5
281	Acid Soluble Hg (ppm)	0605	< 1.25		0.0515	0.0034	0.0030	5		281.30	5

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
281	Acid Soluble Hg (ppm)	0405	< 2		0.0515	0.0034	0.0030	5		281.30	5
289	Acid Soluble Mo (ppm)	0220	0.6000	0.2000	4.285	2.821	0.6891	13	-1.31	289.99	0
289	Acid Soluble Mo (ppm)	0220	1.050	0.1000	4.285	2.821	0.6891	13	-1.15	289.32	0
289	Acid Soluble Mo (ppm)	0476	1.120	0.3000	4.285	2.821	0.6891	13	-1.12	289.30	0
289	Acid Soluble Mo (ppm)	0255	3.380	0.3200	4.285	2.821	0.6891	13	-0.32	289.30	0
289	Acid Soluble Mo (ppm)	0234	3.500	1.000	4.285	2.821	0.6891	13	-0.28	289.30	0
289	Acid Soluble Mo (ppm)	0524	4.040	0.0073	4.285	2.821	0.6891	13	-0.09	289.30	0
289	Acid Soluble Mo (ppm)	0136	4.215	0.3300	4.285	2.821	0.6891	13	-0.02	289.33	0
289	Acid Soluble Mo (ppm)	0527	4.345	0.4652	4.285	2.821	0.6891	13	0.02	289.33	0
289	Acid Soluble Mo (ppm)	0572	5.086	1.728	4.285	2.821	0.6891	13	0.28	289.99	0
289	Acid Soluble Mo (ppm)	0563	5.094	0.1080	4.285	2.821	0.6891	13	0.29	289.33	0
289	Acid Soluble Mo (ppm)	0405	7.000	2.000	4.285	2.821	0.6891	13	0.96	289.32	0
289	Acid Soluble Mo (ppm)	0494	7.765	1.530	4.285	2.821	0.6891	13	1.23	289.33	0
289	Acid Soluble Mo (ppm)	0419	16.11	0.8700	4.285	2.821	0.6891	13	4.19	289.30	0
289	Acid Soluble Mo (ppm)	0516	15.00	10.00	4.285	2.821	0.6891	13	3.80	289.30	1
289	Acid Soluble Mo (ppm)	0106	0.0000	0.0000	4.285	2.821	0.6891	13		289.33	4
289	Acid Soluble Mo (ppm)	0368	< 0.1		4.285	2.821	0.6891	13		289.34	5
289	Acid Soluble Mo (ppm)	0481	< 100		4.285	2.821	0.6891	13		289.99	5
291	Acid Soluble Ni (ppm)	0476	77.41	0.7800	151.8	17.89	7.729	21	-4.16	291.30	0
291	Acid Soluble Ni (ppm)	0444	102.0	2.000	151.8	17.89	7.729	21	-2.78	291.30	0
291	Acid Soluble Ni (ppm)	0605	133.7	10.42	151.8	17.89	7.729	21	-1.01	291.30	0
291	Acid Soluble Ni (ppm)	0028	137.0	8.000	151.8	17.89	7.729	21	-0.83	291.99	0
291	Acid Soluble Ni (ppm)	0394	138.3	7.524	151.8	17.89	7.729	21	-0.75	291.30	0
291	Acid Soluble Ni (ppm)	0136	140.5	11.00	151.8	17.89	7.729	21	-0.63	291.33	0
291	Acid Soluble Ni (ppm)	0368	144.5	1.000	151.8	17.89	7.729	21	-0.41	291.34	0
291	Acid Soluble Ni (ppm)	0009	145.0	10.00	151.8	17.89	7.729	21	-0.38	291.33	0
291	Acid Soluble Ni (ppm)	0009	145.0	10.00	151.8	17.89	7.729	21	-0.38	291.99	0
291	Acid Soluble Ni (ppm)	0563	149.4	17.88	151.8	17.89	7.729	21	-0.13	291.33	0
291	Acid Soluble Ni (ppm)	0405	150.0	0.0000	151.8	17.89	7.729	21	-0.10	291.32	0
291	Acid Soluble Ni (ppm)	0515	153.8	8.833	151.8	17.89	7.729	21	0.11	291.34	0
291	Acid Soluble Ni (ppm)	0255	156.5	3.100	151.8	17.89	7.729	21	0.26	291.99	0
291	Acid Soluble Ni (ppm)	0494	160.5	3.000	151.8	17.89	7.729	21	0.49	291.33	0
291	Acid Soluble Ni (ppm)	0220	161.0	4.000	151.8	17.89	7.729	21	0.52	291.99	0
291	Acid Soluble Ni (ppm)	0527	162.0	0.4867	151.8	17.89	7.729	21	0.57	291.33	0
291	Acid Soluble Ni (ppm)	0524	163.6	4.477	151.8	17.89	7.729	21	0.66	291.30	0
291	Acid Soluble Ni (ppm)	0035	167.0	26.00	151.8	17.89	7.729	21	0.85	291.30	0
291	Acid Soluble Ni (ppm)	0419	172.4	1.805	151.8	17.89	7.729	21	1.15	291.30	0
291	Acid Soluble Ni (ppm)	0220	191.5	7.000	151.8	17.89	7.729	21	2.22	291.32	0
291	Acid Soluble Ni (ppm)	0515	199.9	24.99	151.8	17.89	7.729	21	2.69	291.33	0
291	Acid Soluble Ni (ppm)	0572	149.0	68.59	151.8	17.89	7.729	21	-0.16	291.99	1
301	Acid Soluble Se (ppm)	0009	0.8150	0.0300	20.12	20.24	1.758	14	-0.95	301.99	0
301	Acid Soluble Se (ppm)	0476	1.170	0.2400	20.12	20.24	1.758	14	-0.94	301.30	0
301	Acid Soluble Se (ppm)	0572	1.809	0.7200	20.12	20.24	1.758	14	-0.90	301.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
301	Acid Soluble Se (ppm)	0563	2.439	0.1600	20.12	20.24	1.758	14	-0.87	301.33	0
301	Acid Soluble Se (ppm)	0220	3.000	0.2000	20.12	20.24	1.758	14	-0.85	301.32	0
301	Acid Soluble Se (ppm)	0220	3.050	0.1000	20.12	20.24	1.758	14	-0.84	301.99	0
301	Acid Soluble Se (ppm)	0255	17.63	0.8400	20.12	20.24	1.758	14	-0.12	301.99	0
301	Acid Soluble Se (ppm)	0419	24.70	0.2890	20.12	20.24	1.758	14	0.23	301.30	0
301	Acid Soluble Se (ppm)	0524	25.64	0.0380	20.12	20.24	1.758	14	0.27	301.30	0
301	Acid Soluble Se (ppm)	0515	33.69	4.806	20.12	20.24	1.758	14	0.67	301.33	0
301	Acid Soluble Se (ppm)	0494	37.85	5.300	20.12	20.24	1.758	14	0.88	301.33	0
301	Acid Soluble Se (ppm)	0043	41.60	6.680	20.12	20.24	1.758	14	1.06	301.33	0
301	Acid Soluble Se (ppm)	0515	42.29	3.210	20.12	20.24	1.758	14	1.09	301.34	0
301	Acid Soluble Se (ppm)	0405	46.00	2.000	20.12	20.24	1.758	14	1.28	301.32	0
301	Acid Soluble Se (ppm)	0527	< 0.01		20.12	20.24	1.758	14		301.33	5
301	Acid Soluble Se (ppm)	0481	< 0.5		20.12	20.24	1.758	14		301.99	5
301	Acid Soluble Se (ppm)	0368	< 1.4		20.12	20.24	1.758	14		301.34	5
301	Acid Soluble Se (ppm)	0009	< 22		20.12	20.24	1.758	14		301.33	5
311	Sodium (%)	0419	0.1724	0.0013	1.321	0.0622	0.0084	7	-16.69	311.33	0
311	Sodium (%)	0035	1.300	0.0200	1.321	0.0622	0.0084	7	-0.30	311.33	0
311	Sodium (%)	0354	1.305	0.0100	1.321	0.0622	0.0084	7	-0.23	311.99	0
311	Sodium (%)	0553	1.308	0.0050	1.321	0.0622	0.0084	7	-0.19	311.00	0
311	Sodium (%)	0423	1.344	0.0160	1.321	0.0622	0.0084	7	0.34	311.33	0
311	Sodium (%)	0527	1.362	0.0066	1.321	0.0622	0.0084	7	0.60	311.33	0
311	Sodium (%)	0009	1.400	0.0000	1.321	0.0622	0.0084	7	1.15	311.33	0
311	Sodium (%)	0572	1.317	0.0654	1.321	0.0622	0.0084	7	-0.06	311.99	1
321	Acid Soluble Zn (%)	0476	1.935	0.1300	4.144	0.3937	0.2409	39	-5.61	321.99	0
321	Acid Soluble Zn (%)	0494	3.547	0.7413	4.144	0.3937	0.2409	39	-1.52	321.33	0
321	Acid Soluble Zn (%)	0572	3.627	0.9933	4.144	0.3937	0.2409	39	-1.31	321.99	0
321	Acid Soluble Zn (%)	0255	3.654	0.0330	4.144	0.3937	0.2409	39	-1.24	321.30	0
321	Acid Soluble Zn (%)	0419	3.686	0.0640	4.144	0.3937	0.2409	39	-1.16	321.33	0
321	Acid Soluble Zn (%)	0405	3.694	0.0426	4.144	0.3937	0.2409	39	-1.14	321.32	0
321	Acid Soluble Zn (%)	0553	3.818	0.4350	4.144	0.3937	0.2409	39	-0.83	321.00	0
321	Acid Soluble Zn (%)	0481	3.830	0.0400	4.144	0.3937	0.2409	39	-0.80	321.99	0
321	Acid Soluble Zn (%)	0552	3.840	0.0800	4.144	0.3937	0.2409	39	-0.77	321.30	0
321	Acid Soluble Zn (%)	0472	3.840	0.0400	4.144	0.3937	0.2409	39	-0.77	321.33	0
321	Acid Soluble Zn (%)	0009	3.850	0.3000	4.144	0.3937	0.2409	39	-0.75	321.33	0
321	Acid Soluble Zn (%)	0354	3.870	0.0200	4.144	0.3937	0.2409	39	-0.69	321.30	0
321	Acid Soluble Zn (%)	0260	3.878	0.1550	4.144	0.3937	0.2409	39	-0.68	321.33	0
321	Acid Soluble Zn (%)	0028	3.900	0.3200	4.144	0.3937	0.2409	39	-0.62	321.32	0
321	Acid Soluble Zn (%)	0389	3.985	0.0500	4.144	0.3937	0.2409	39	-0.40	321.99	0
321	Acid Soluble Zn (%)	0220	4.005	0.0500	4.144	0.3937	0.2409	39	-0.35	321.32	0
321	Acid Soluble Zn (%)	0368	4.059	0.1085	4.144	0.3937	0.2409	39	-0.22	321.99	0
321	Acid Soluble Zn (%)	0106	4.180	0.3960	4.144	0.3937	0.2409	39	0.09	321.33	0
321	Acid Soluble Zn (%)	0231	4.200	0.0800	4.144	0.3937	0.2409	39	0.14	321.30	0
321	Acid Soluble Zn (%)	0043	4.210	0.0200	4.144	0.3937	0.2409	39	0.17	321.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	Range				
321	Acid Soluble Zn (%)	0524	4.216	0.0462	4.144	0.3937	0.2409	39	0.18	321.99	0
321	Acid Soluble Zn (%)	0513	4.220	0.0400	4.144	0.3937	0.2409	39	0.19	321.30	0
321	Acid Soluble Zn (%)	0527	4.229	0.0644	4.144	0.3937	0.2409	39	0.22	321.33	0
321	Acid Soluble Zn (%)	0516	4.244	0.0870	4.144	0.3937	0.2409	39	0.25	321.99	0
321	Acid Soluble Zn (%)	0605	4.320	0.1430	4.144	0.3937	0.2409	39	0.45	321.99	0
321	Acid Soluble Zn (%)	0136	4.330	0.1000	4.144	0.3937	0.2409	39	0.47	321.33	0
321	Acid Soluble Zn (%)	0423	4.335	0.1300	4.144	0.3937	0.2409	39	0.49	321.32	0
321	Acid Soluble Zn (%)	0095	4.405	0.0900	4.144	0.3937	0.2409	39	0.66	321.32	0
321	Acid Soluble Zn (%)	0035	4.410	0.9800	4.144	0.3937	0.2409	39	0.68	321.30	0
321	Acid Soluble Zn (%)	0394	4.412	0.1371	4.144	0.3937	0.2409	39	0.68	321.32	0
321	Acid Soluble Zn (%)	0533	4.420	0.3200	4.144	0.3937	0.2409	39	0.70	321.00	0
321	Acid Soluble Zn (%)	0515	4.421	0.6140	4.144	0.3937	0.2409	39	0.71	321.99	0
321	Acid Soluble Zn (%)	0551	4.490	0.0200	4.144	0.3937	0.2409	39	0.88	321.00	0
321	Acid Soluble Zn (%)	0600	4.500	0.1000	4.144	0.3937	0.2409	39	0.91	321.99	0
321	Acid Soluble Zn (%)	0534	4.565	0.1300	4.144	0.3937	0.2409	39	1.07	321.03	0
321	Acid Soluble Zn (%)	0234	4.650	0.2000	4.144	0.3937	0.2409	39	1.29	321.30	0
321	Acid Soluble Zn (%)	0421	5.065	0.9500	4.144	0.3937	0.2409	39	2.34	321.33	0
321	Acid Soluble Zn (%)	0025	6.155	1.110	4.144	0.3937	0.2409	39	5.11	321.33	0
321	Acid Soluble Zn (%)	0049	8.754	0.0361	4.144	0.3937	0.2409	39	11.71	321.30	0
321	Acid Soluble Zn (%)	0515	5.588	1.489	4.144	0.3937	0.2409	39	3.67	321.33	1

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. 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.