

Analyte PT For All Labs

Sample # 230714

DAP 18-46-0

Magruder Fertilizer Proficiency Testing Program

Regular PT Scheme Sample Doubles with P Scheme

Statistical Summary

Analytes: 37

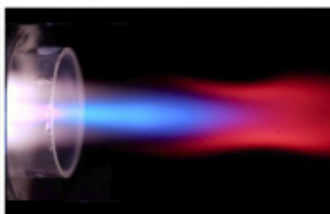
Labs Reporting: 79

Issue Date : 08/31/2023

Analyte Code	Analyte Sample # 230714	# 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 (%)	28	26	16.59	2.700	17.11		0.6366	0.1561	3.72%		0.1581	2.42%
002	Nitrate N (%)	2	2	0.5958	0.3525								
005	Urea N (%)	1		0.3900									
010	Total N (18%)	64	64	17.39	0.3442	17.40	0.6909	0.2801	0.0438	1.61%	0.94	0.0937	2.40%
020	Total P2O5 (%)	42	42	45.68	1.850	45.99		0.9811	0.1892	2.13%		0.4119	1.47%
030	Citrate Insoluble P2O5 (%)	5	5	0.0430	0.0211	0.0430		0.0211	0.0118	49.06%		0.0325	6.42%
040	Indirect Available P2O5 (46%)	6	6	46.37	0.6306	46.37	1.0056	0.7151	0.3649	1.54%	1.66	0.1700	1.47%
041	Direct Available P2O5 (46%)	41	40	46.12	1.378	46.14	1.0021	0.5394	0.1066	1.17%	1.25	0.2865	1.47%
042	Water Soluble OrthoP As P2O5 (%)	1		41.14									
048	Water Soluble P2O5 (%)	15	15	41.66	1.952	41.59		1.111	0.3587	2.67%		0.1344	1.55%
050	Soluble K2O (%)	8	8	0.2939	0.2312	0.2326	0.4100	0.0851	0.0376	36.56%	0.48	0.0497	4.98%
060	Water (Free) (%)	5	5	2.644	0.9515	2.644		0.9515	0.5319	35.99%		0.0923	3.46%
101	Acid Soluble Ca (%)	12	11	0.2753	0.1041	0.2725	0.2136	0.0571	0.0215	20.97%	0.62	0.0136	4.86%
121	Acid Soluble Mg (%)	16	15	0.6794	0.1614	0.6701	0.2335	0.0624	0.0201	9.31%	0.62	0.0203	4.25%
131	Water Soluble Mg (%)	2	2	0.0900	0.0424								
145	Sulfate S, HCl soluble (%)	3	3	1.243	0.0506	1.243		0.0506	0.0365	4.07%		0.0600	3.87%
148	Total S (%)	9	7	1.675	1.981	1.255	0.2627	0.4328	0.2045	34.49%	3.84	0.0450	3.87%
149	S - HNO3 soluble (%)	1		1.193									
151	Acid Soluble As (ppm)	20	19	14.07	5.252	14.12		1.362	0.3905	9.65%		0.5338	10.74%
165	Acid Soluble B (%)	8	5	4.360	12.02	0.1511	0.0257	0.3032	0.1695	200.61%	27.52	0.0676	5.32%
171	Water Soluble B (%)	1		0.0113									
181	Acid Soluble Cd (ppm)	21	20	3.697	1.723	3.286		0.3150	0.0881	9.59%		0.2034	13.37%
191	Acid Soluble Cr (ppm)	22	21	115.8	12.56	116.0		10.14	2.766	8.74%		2.114	7.82%
202	Acid Soluble Co (ppm)	19	16	3.727	2.689	2.658	1.7973	0.4855	0.1517	18.27%	0.63	0.1175	13.81%
221	Acid Soluble Cu (%)	17	5	0.0509	0.2045	0.0006	0.0051	0.0005	0.0003	80.39%	0.23	0.0005	12.19%
241	Acid Soluble Fe (%)	16	16	0.9759	0.1712	0.9763	0.1026	0.0677	0.0212	6.93%	1.54	0.0327	4.01%
251	Acid Soluble Pb (ppm)	21	13	3.000	1.978	2.456		2.116	0.7335	86.15%		0.1322	13.97%
261	Acid Soluble Mn (%)	11	10	58.48	130.1	0.0303	0.0080	0.0023	0.0009	7.67%	0.67	0.0007	6.77%
271	Water Soluble Mn (%)	1		0.0010									

Analyte Code	Analyte Sample # 230714	# 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
281	Acid Soluble Hg (ppm)	11	4	0.3106	0.6717	0.0109		0.0085	0.0053	78.26%		0.0009	22.00%
289	Acid Soluble Mo (ppm)	22	21	13.84	4.902	12.86	4.8579	2.362	0.6444	18.37%	1.13	0.8672	10.89%
291	Acid Soluble Ni (ppm)	23	22	13.29	7.551	11.41		1.472	0.3924	12.91%		0.5003	11.09%
301	Acid Soluble Se (ppm)	15	6	2.096	3.677	0.7478		0.6075	0.3100	81.23%		0.1394	16.71%
311	Sodium (%)	4	4	0.2111	0.0448	0.2111	0.0261	0.0448	0.0280	21.23%	4.00	0.0263	5.05%
321	Acid Soluble Zn (%)	23	20	2.462	11.78	0.0056	0.0056	0.0010	0.0003	17.68%	0.41	0.0005	8.74%
325	Water Soluble Zn (%)	3	1	0.0009	0.0003	0.0056		0.0010	0.0012	17.68%		0.0000	8.74%
431	Soluble Si in nonliquids (%)	1		0.0068									

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: 37

Sample # 230714

Regular PT Scheme Sample Doubles with P Scheme

Labs Reporting: 79

DAP 18-46-0

Lab Values

Issue Date : 08/31/2023

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	15.04	0.1750	17.11	0.6366	0.1581	26	-3.25	001.99	0
001	Ammoniacal N (%)	0220	16.19	0.3200	17.11	0.6366	0.1581	26	-1.44	001.99	0
001	Ammoniacal N (%)	0231	16.29	0.4900	17.11	0.6366	0.1581	26	-1.29	001.10	0
001	Ammoniacal N (%)	0389	16.34	0.0300	17.11	0.6366	0.1581	26	-1.21	001.10	0
001	Ammoniacal N (%)	0572	16.51	0.0300	17.11	0.6366	0.1581	26	-0.95	001.99	0
001	Ammoniacal N (%)	0451	16.68	0.7900	17.11	0.6366	0.1581	26	-0.68	001.10	0
001	Ammoniacal N (%)	0524	16.69	0.5000	17.11	0.6366	0.1581	26	-0.65	001.99	0
001	Ammoniacal N (%)	0587	16.84	0.0300	17.11	0.6366	0.1581	26	-0.43	001.99	0
001	Ammoniacal N (%)	0593	16.94	0.0400	17.11	0.6366	0.1581	26	-0.26	001.99	0
001	Ammoniacal N (%)	0626	16.95	0.0500	17.11	0.6366	0.1581	26	-0.25	001.99	0
001	Ammoniacal N (%)	0553	17.00	0.0000	17.11	0.6366	0.1581	26	-0.17	001.99	0
001	Ammoniacal N (%)	0586	17.01	0.0000	17.11	0.6366	0.1581	26	-0.15	001.99	0
001	Ammoniacal N (%)	0581	17.03	0.0600	17.11	0.6366	0.1581	26	-0.12	001.99	0
001	Ammoniacal N (%)	0563	17.06	0.0000	17.11	0.6366	0.1581	26	-0.07	001.99	0
001	Ammoniacal N (%)	0405	17.08	0.0500	17.11	0.6366	0.1581	26	-0.05	001.99	0
001	Ammoniacal N (%)	0513	17.20	0.0600	17.11	0.6366	0.1581	26	0.15	001.99	0
001	Ammoniacal N (%)	0394	17.32	0.1430	17.11	0.6366	0.1581	26	0.34	001.99	0
001	Ammoniacal N (%)	0498	17.40	0.2000	17.11	0.6366	0.1581	26	0.46	001.10	0
001	Ammoniacal N (%)	0558	17.41	0.0382	17.11	0.6366	0.1581	26	0.47	001.99	0
001	Ammoniacal N (%)	0577	17.55	0.1000	17.11	0.6366	0.1581	26	0.70	001.99	0
001	Ammoniacal N (%)	0580	17.63	0.0000	17.11	0.6366	0.1581	26	0.82	001.10	0
001	Ammoniacal N (%)	0444	17.75	0.3000	17.11	0.6366	0.1581	26	1.01	001.10	0
001	Ammoniacal N (%)	0600	17.82	0.0800	17.11	0.6366	0.1581	26	1.12	001.99	0
001	Ammoniacal N (%)	0562	17.93	0.0500	17.11	0.6366	0.1581	26	1.29	001.99	0
001	Ammoniacal N (%)	0605	17.99	0.3900	17.11	0.6366	0.1581	26	1.38	001.99	0
001	Ammoniacal N (%)	0584	18.26	0.1400	17.11	0.6366	0.1581	26	1.81	001.99	0
001	Ammoniacal N (%)	0255	17.47	1.100	17.11	0.6366	0.1581	26	0.57	001.99	1
001	Ammoniacal N (%)	0096	3.235	0.0300	17.11	0.6366	0.1581	26	-21.79	001.99	2
002	Nitrate N (%)	0553	0.3465	0.0010				2		002.99	0
002	Nitrate N (%)	0563	0.8450	0.0100				2		002.20	0
005	Urea N (%)	0524	0.3900	0.0000				1		005.99	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				
010	Total N (18%)	0521	15.98†	0.0000	17.40	0.2801	0.0937	64	-5.05	010.60	0
010	Total N (18%)	0102	16.70†	0.0300	17.40	0.2801	0.0937	64	-2.50	010.60	0
010	Total N (18%)	0572	16.87	0.0100	17.40	0.2801	0.0937	64	-1.89	010.12	0
010	Total N (18%)	0524	16.95	0.0469	17.40	0.2801	0.0937	64	-1.60	010.99	0
010	Total N (18%)	0018	16.95	0.1000	17.40	0.2801	0.0937	64	-1.59	010.60	0
010	Total N (18%)	0042	16.95	0.1000	17.40	0.2801	0.0937	64	-1.59	010.60	0
010	Total N (18%)	0422	16.99	0.0600	17.40	0.2801	0.0937	64	-1.45	010.60	0
010	Total N (18%)	0231	17.09	0.0200	17.40	0.2801	0.0937	64	-1.09	010.60	0
010	Total N (18%)	0043	17.15	0.2900	17.40	0.2801	0.0937	64	-0.89	010.60	0
010	Total N (18%)	0351	17.15	0.1000	17.40	0.2801	0.0937	64	-0.87	010.60	0
010	Total N (18%)	0371	17.15	0.1400	17.40	0.2801	0.0937	64	-0.87	010.60	0
010	Total N (18%)	0356	17.20	0.0170	17.40	0.2801	0.0937	64	-0.70	010.60	0
010	Total N (18%)	0354	17.20	0.0000	17.40	0.2801	0.0937	64	-0.70	010.60	0
010	Total N (18%)	0095	17.20	0.1200	17.40	0.2801	0.0937	64	-0.70	010.60	0
010	Total N (18%)	0588	17.21	0.1300	17.40	0.2801	0.0937	64	-0.68	010.60	0
010	Total N (18%)	0055	17.21	0.0800	17.40	0.2801	0.0937	64	-0.66	010.60	0
010	Total N (18%)	0255	17.21	0.1510	17.40	0.2801	0.0937	64	-0.65	010.60	0
010	Total N (18%)	0472	17.23	0.0100	17.40	0.2801	0.0937	64	-0.61	010.60	0
010	Total N (18%)	0394	17.24	0.1150	17.40	0.2801	0.0937	64	-0.57	010.99	0
010	Total N (18%)	0451	17.27	0.1500	17.40	0.2801	0.0937	64	-0.46	010.60	0
010	Total N (18%)	0389	17.28	0.0300	17.40	0.2801	0.0937	64	-0.43	010.60	0
010	Total N (18%)	0086	17.30	0.1600	17.40	0.2801	0.0937	64	-0.33	010.60	0
010	Total N (18%)	0292	17.32	0.0100	17.40	0.2801	0.0937	64	-0.29	010.60	0
010	Total N (18%)	0360	17.32	0.0100	17.40	0.2801	0.0937	64	-0.29	010.60	0
010	Total N (18%)	0494	17.34	0.0600	17.40	0.2801	0.0937	64	-0.20	010.60	0
010	Total N (18%)	0029	17.35	0.0600	17.40	0.2801	0.0937	64	-0.16	010.60	0
010	Total N (18%)	0035	17.35	0.1000	17.40	0.2801	0.0937	64	-0.16	010.60	0
010	Total N (18%)	0234	17.35	0.2400	17.40	0.2801	0.0937	64	-0.16	010.60	0
010	Total N (18%)	0324	17.35	0.1000	17.40	0.2801	0.0937	64	-0.16	010.60	0
010	Total N (18%)	0561	17.36	0.0100	17.40	0.2801	0.0937	64	-0.14	010.60	0
010	Total N (18%)	0037	17.37	0.0070	17.40	0.2801	0.0937	64	-0.09	010.60	0
010	Total N (18%)	0027	17.38	0.1000	17.40	0.2801	0.0937	64	-0.05	010.60	0
010	Total N (18%)	0485	17.40	0.0900	17.40	0.2801	0.0937	64	0.00	010.60	0
010	Total N (18%)	0498	17.40	0.2000	17.40	0.2801	0.0937	64	0.02	010.12	0
010	Total N (18%)	0136	17.40	0.2000	17.40	0.2801	0.0937	64	0.02	010.60	0
010	Total N (18%)	0534	17.40	0.0000	17.40	0.2801	0.0937	64	0.02	010.60	0
010	Total N (18%)	0558	17.41	0.0382	17.40	0.2801	0.0937	64	0.04	010.99	0
010	Total N (18%)	0543	17.42	0.0500	17.40	0.2801	0.0937	64	0.07	010.60	0
010	Total N (18%)	0220	17.44	0.0700	17.40	0.2801	0.0937	64	0.14	010.60	0
010	Total N (18%)	0049	17.44	0.0100	17.40	0.2801	0.0937	64	0.14	010.60	0
010	Total N (18%)	0073	17.45	0.0900	17.40	0.2801	0.0937	64	0.18	010.60	0
010	Total N (18%)	0307	17.45	0.3000	17.40	0.2801	0.0937	64	0.20	010.60	0
010	Total N (18%)	0106	17.46	0.0200	17.40	0.2801	0.0937	64	0.23	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 (18%)	0405	17.47	0.0200	17.40	0.2801	0.0937	64	0.27	010.60	0
010	Total N (18%)	0581	17.49	0.1000	17.40	0.2801	0.0937	64	0.34	010.17	0
010	Total N (18%)	0040	17.50	0.0000	17.40	0.2801	0.0937	64	0.37	010.60	0
010	Total N (18%)	0023	17.57	0.0120	17.40	0.2801	0.0937	64	0.61	010.60	0
010	Total N (18%)	0368	17.57	0.0700	17.40	0.2801	0.0937	64	0.63	010.60	0
010	Total N (18%)	0177	17.59	0.2110	17.40	0.2801	0.0937	64	0.71	010.60	0
010	Total N (18%)	0542	17.60	0.0730	17.40	0.2801	0.0937	64	0.74	010.60	0
010	Total N (18%)	0580	17.61	0.1900	17.40	0.2801	0.0937	64	0.75	010.12	0
010	Total N (18%)	0291	17.62	0.0100	17.40	0.2801	0.0937	64	0.79	010.60	0
010	Total N (18%)	0518	17.65	0.3000	17.40	0.2801	0.0937	64	0.91	010.99	0
010	Total N (18%)	0527	17.69	0.1460	17.40	0.2801	0.0937	64	1.06	010.60	0
010	Total N (18%)	0025	17.73	0.1700	17.40	0.2801	0.0937	64	1.18	010.60	0
010	Total N (18%)	0377	17.73	0.3100	17.40	0.2801	0.0937	64	1.18	010.60	0
010	Total N (18%)	0444	17.75	0.3000	17.40	0.2801	0.0937	64	1.27	010.99	0
010	Total N (18%)	0563	17.90	0.0100	17.40	0.2801	0.0937	64	1.78	010.99	0
010	Total N (18%)	0600	17.93	0.0600	17.40	0.2801	0.0937	64	1.91	010.99	0
010	Total N (18%)	0626	17.99	0.0500	17.40	0.2801	0.0937	64	2.11	010.60	0
010	Total N (18%)	0605	17.99	0.3900	17.40	0.2801	0.0937	64	2.11	010.99	0
010	Total N (18%)	0568	18.00	0.0000	17.40	0.2801	0.0937	64	2.16	010.12	0
010	Total N (18%)	0510	18.05	0.0333	17.40	0.2801	0.0937	64	2.36	010.11	0
010	Total N (18%)	0562	18.11±	0.0800	17.40	0.2801	0.0937	64	2.55	010.99	0
020	Total P2O5 (%)	0324	40.80	2.600	45.99	0.9811	0.4119	42	-5.29	020.20	0
020	Total P2O5 (%)	0371	40.86	0.0700	45.99	0.9811	0.4119	42	-5.24	020.20	0
020	Total P2O5 (%)	0042	41.41	2.000	45.99	0.9811	0.4119	42	-4.67	020.40	0
020	Total P2O5 (%)	0543	41.57	1.298	45.99	0.9811	0.4119	42	-4.51	020.50	0
020	Total P2O5 (%)	0389	42.64	0.8900	45.99	0.9811	0.4119	42	-3.42	020.50	0
020	Total P2O5 (%)	0307	43.30	2.200	45.99	0.9811	0.4119	42	-2.75	020.50	0
020	Total P2O5 (%)	0472	44.56	0.4700	45.99	0.9811	0.4119	42	-1.47	020.50	0
020	Total P2O5 (%)	0572	44.59	0.9100	45.99	0.9811	0.4119	42	-1.44	020.99	0
020	Total P2O5 (%)	0580	45.49	0.1200	45.99	0.9811	0.4119	42	-0.51	020.20	0
020	Total P2O5 (%)	0356	45.55	0.3650	45.99	0.9811	0.4119	42	-0.45	020.20	0
020	Total P2O5 (%)	0521	45.64	0.0000	45.99	0.9811	0.4119	42	-0.36	020.50	0
020	Total P2O5 (%)	0451	45.67	0.0200	45.99	0.9811	0.4119	42	-0.33	020.50	0
020	Total P2O5 (%)	0587	45.67	0.1400	45.99	0.9811	0.4119	42	-0.33	020.99	0
020	Total P2O5 (%)	0515	45.80	2.600	45.99	0.9811	0.4119	42	-0.20	020.99	0
020	Total P2O5 (%)	0292	45.82	0.1200	45.99	0.9811	0.4119	42	-0.18	020.20	0
020	Total P2O5 (%)	0114	45.89	0.5100	45.99	0.9811	0.4119	42	-0.11	020.10	0
020	Total P2O5 (%)	0405	45.96	0.1400	45.99	0.9811	0.4119	42	-0.03	020.20	0
020	Total P2O5 (%)	0615	46.05	0.9000	45.99	0.9811	0.4119	42	0.06	020.20	0
020	Total P2O5 (%)	0586	46.09	0.2300	45.99	0.9811	0.4119	42	0.09	020.40	0
020	Total P2O5 (%)	0513	46.11	0.0400	45.99	0.9811	0.4119	42	0.12	020.99	0
020	Total P2O5 (%)	0368	46.17	0.2299	45.99	0.9811	0.4119	42	0.18	020.50	0
020	Total P2O5 (%)	0231	46.23	0.0100	45.99	0.9811	0.4119	42	0.24	020.20	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 (%)	0561	46.23	0.1400	45.99	0.9811	0.4119	42	0.24	020.20	0
020	Total P2O5 (%)	0444	46.25	0.5000	45.99	0.9811	0.4119	42	0.26	020.10	0
020	Total P2O5 (%)	0096	46.25	0.0400	45.99	0.9811	0.4119	42	0.26	020.40	0
020	Total P2O5 (%)	0234	46.25	0.1000	45.99	0.9811	0.4119	42	0.26	020.50	0
020	Total P2O5 (%)	0600	46.25	0.1000	45.99	0.9811	0.4119	42	0.26	020.99	0
020	Total P2O5 (%)	0562	46.28	0.0500	45.99	0.9811	0.4119	42	0.29	020.99	0
020	Total P2O5 (%)	0593	46.30	0.0700	45.99	0.9811	0.4119	42	0.31	020.20	0
020	Total P2O5 (%)	0588	46.41	1.490	45.99	0.9811	0.4119	42	0.42	020.50	0
020	Total P2O5 (%)	0581	46.44	0.1400	45.99	0.9811	0.4119	42	0.46	020.20	0
020	Total P2O5 (%)	0527	46.48	0.0611	45.99	0.9811	0.4119	42	0.50	020.50	0
020	Total P2O5 (%)	0422	46.52	0.4583	45.99	0.9811	0.4119	42	0.53	020.50	0
020	Total P2O5 (%)	0291	46.66	0.0100	45.99	0.9811	0.4119	42	0.67	020.50	0
020	Total P2O5 (%)	0035	46.85	0.1000	45.99	0.9811	0.4119	42	0.87	020.40	0
020	Total P2O5 (%)	0255	46.87	1.076	45.99	0.9811	0.4119	42	0.89	020.50	0
020	Total P2O5 (%)	0510	46.87	0.1399	45.99	0.9811	0.4119	42	0.90	020.20	0
020	Total P2O5 (%)	0220	47.00	0.2500	45.99	0.9811	0.4119	42	1.02	020.20	0
020	Total P2O5 (%)	0626	47.04	0.1300	45.99	0.9811	0.4119	42	1.06	020.40	0
020	Total P2O5 (%)	0563	48.45	0.5000	45.99	0.9811	0.4119	42	2.50	020.20	0
020	Total P2O5 (%)	0524	48.47	1.055	45.99	0.9811	0.4119	42	2.53	020.50	0
020	Total P2O5 (%)	0260	48.93	0.0560	45.99	0.9811	0.4119	42	3.00	020.50	0
030	Citrate Insoluble P2O5 (%)	0586	0.0200	0.0000	0.0430	0.0211	0.0325	5	-1.09	030.40	0
030	Citrate Insoluble P2O5 (%)	0593	0.0300	0.0400	0.0430	0.0211	0.0325	5	-0.62	030.20	0
030	Citrate Insoluble P2O5 (%)	0096	0.0400	0.0200	0.0430	0.0211	0.0325	5	-0.14	030.40	0
030	Citrate Insoluble P2O5 (%)	0581	0.0500	0.0600	0.0430	0.0211	0.0325	5	0.33	030.50	0
030	Citrate Insoluble P2O5 (%)	0220	0.0750	0.0100	0.0430	0.0211	0.0325	5	1.52	030.20	0
040	Indirect Available P2O5 (46%)	0498	45.35†	0.3000	46.37	0.7151	0.1700	6	-1.27	040.20	0
040	Indirect Available P2O5 (46%)	0096	46.21	0.0600	46.37	0.7151	0.1700	6	-0.20	040.40	0
040	Indirect Available P2O5 (46%)	0593	46.27	0.0300	46.37	0.7151	0.1700	6	-0.13	040.99	0
040	Indirect Available P2O5 (46%)	0581	46.35	0.0900	46.37	0.7151	0.1700	6	-0.04	040.20	0
040	Indirect Available P2O5 (46%)	0220	46.92	0.2400	46.37	0.7151	0.1700	6	0.68	040.20	0
040	Indirect Available P2O5 (46%)	0547	47.15	0.3000	46.37	0.7151	0.1700	6	0.97	040.50	0
041	Direct Available P2O5 (46%)	0220	41.75†	0.0900	46.14	0.5394	0.2865	40	-8.15	041.11	0
041	Direct Available P2O5 (46%)	0572	44.43†	0.3600	46.14	0.5394	0.2865	40	-3.17	041.99	0
041	Direct Available P2O5 (46%)	0558	44.57†	0.0408	46.14	0.5394	0.2865	40	-2.91	041.21	0
041	Direct Available P2O5 (46%)	0095	45.05†	0.6000	46.14	0.5394	0.2865	40	-2.02	041.21	0
041	Direct Available P2O5 (46%)	0027	45.55	0.9600	46.14	0.5394	0.2865	40	-1.11	041.20	0
041	Direct Available P2O5 (46%)	0494	45.60	0.1600	46.14	0.5394	0.2865	40	-1.00	041.51	0
041	Direct Available P2O5 (46%)	0472	45.61	0.1600	46.14	0.5394	0.2865	40	-0.98	041.21	0
041	Direct Available P2O5 (46%)	0117	45.77	0.5444	46.14	0.5394	0.2865	40	-0.69	041.51	0
041	Direct Available P2O5 (46%)	0485	45.80	1.000	46.14	0.5394	0.2865	40	-0.63	041.11	0
041	Direct Available P2O5 (46%)	0626	45.81	0.1300	46.14	0.5394	0.2865	40	-0.62	041.40	0
041	Direct Available P2O5 (46%)	0394	45.84	0.0200	46.14	0.5394	0.2865	40	-0.57	041.21	0
041	Direct Available P2O5 (46%)	0360	45.87	0.2500	46.14	0.5394	0.2865	40	-0.51	041.51	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 (46%)	0600	45.88	0.1500	46.14	0.5394	0.2865	40	-0.49	041.99	0
041	Direct Available P2O5 (46%)	0562	45.93	0.0400	46.14	0.5394	0.2865	40	-0.39	041.99	0
041	Direct Available P2O5 (46%)	0351	45.95	0.3000	46.14	0.5394	0.2865	40	-0.35	041.11	0
041	Direct Available P2O5 (46%)	0377	45.96	0.5500	46.14	0.5394	0.2865	40	-0.35	041.51	0
041	Direct Available P2O5 (46%)	0513	46.04	0.0400	46.14	0.5394	0.2865	40	-0.19	041.11	0
041	Direct Available P2O5 (46%)	0055	46.09	0.2800	46.14	0.5394	0.2865	40	-0.09	041.11	0
041	Direct Available P2O5 (46%)	0354	46.10	0.0000	46.14	0.5394	0.2865	40	-0.08	041.21	0
041	Direct Available P2O5 (46%)	0405	46.12	0.1600	46.14	0.5394	0.2865	40	-0.04	041.11	0
041	Direct Available P2O5 (46%)	0177	46.16	0.0998	46.14	0.5394	0.2865	40	0.04	041.21	0
041	Direct Available P2O5 (46%)	0086	46.17	0.0677	46.14	0.5394	0.2865	40	0.04	041.10	0
041	Direct Available P2O5 (46%)	0231	46.19	0.0600	46.14	0.5394	0.2865	40	0.09	041.21	0
041	Direct Available P2O5 (46%)	0177	46.23	0.2540	46.14	0.5394	0.2865	40	0.16	041.10	0
041	Direct Available P2O5 (46%)	0023	46.23	0.2510	46.14	0.5394	0.2865	40	0.17	041.51	0
041	Direct Available P2O5 (46%)	0040	46.25	0.1000	46.14	0.5394	0.2865	40	0.20	041.10	0
041	Direct Available P2O5 (46%)	0055	46.29	1.040	46.14	0.5394	0.2865	40	0.28	041.21	0
041	Direct Available P2O5 (46%)	0136	46.30	0.3500	46.14	0.5394	0.2865	40	0.29	041.51	0
041	Direct Available P2O5 (46%)	0605	46.41	0.1700	46.14	0.5394	0.2865	40	0.49	041.50	0
041	Direct Available P2O5 (46%)	0584	46.51	0.3100	46.14	0.5394	0.2865	40	0.67	041.99	0
041	Direct Available P2O5 (46%)	0494	46.53	0.1700	46.14	0.5394	0.2865	40	0.71	041.10	0
041	Direct Available P2O5 (46%)	0102	46.57	0.0500	46.14	0.5394	0.2865	40	0.79	041.10	0
041	Direct Available P2O5 (46%)	0553	46.57	0.5700	46.14	0.5394	0.2865	40	0.79	041.20	0
041	Direct Available P2O5 (46%)	0518	46.65	0.3000	46.14	0.5394	0.2865	40	0.94	041.99	0
041	Direct Available P2O5 (46%)	0043	46.76	0.1900	46.14	0.5394	0.2865	40	1.14	041.51	0
041	Direct Available P2O5 (46%)	0073	46.90	0.0800	46.14	0.5394	0.2865	40	1.41	041.11	0
041	Direct Available P2O5 (46%)	0025	46.90	1.400	46.14	0.5394	0.2865	40	1.41	041.51	0
041	Direct Available P2O5 (46%)	0117	47.07	0.6417	46.14	0.5394	0.2865	40	1.73	041.11	0
041	Direct Available P2O5 (46%)	0029	47.30±	1.390	46.14	0.5394	0.2865	40	2.14	041.40	0
041	Direct Available P2O5 (46%)	0568	52.60±	0.0000	46.14	0.5394	0.2865	40	11.97	041.21	0
041	Direct Available P2O5 (46%)	0049	44.75†	2.180	46.14	0.5394	0.2865	40	-2.58	041.11	1
042	Water Soluble OrthoP As P2O5 (%)	0558	41.14	0.0343				1		042.10	0
048	Water Soluble P2O5 (%)	0472	37.89	0.3000	41.59	1.111	0.1344	15	-3.33	048.20	0
048	Water Soluble P2O5 (%)	0572	39.14	0.0700	41.59	1.111	0.1344	15	-2.21	048.99	0
048	Water Soluble P2O5 (%)	0513	40.51	0.0800	41.59	1.111	0.1344	15	-0.97	048.99	0
048	Water Soluble P2O5 (%)	0394	41.04	0.2440	41.59	1.111	0.1344	15	-0.50	048.20	0
048	Water Soluble P2O5 (%)	0586	41.26	0.0600	41.59	1.111	0.1344	15	-0.30	048.40	0
048	Water Soluble P2O5 (%)	0626	41.39	0.0700	41.59	1.111	0.1344	15	-0.19	048.40	0
048	Water Soluble P2O5 (%)	0231	41.61	0.0700	41.59	1.111	0.1344	15	0.01	048.20	0
048	Water Soluble P2O5 (%)	0593	41.78	0.1400	41.59	1.111	0.1344	15	0.17	048.20	0
048	Water Soluble P2O5 (%)	0096	41.85	0.0100	41.59	1.111	0.1344	15	0.23	048.40	0
048	Water Soluble P2O5 (%)	0581	41.91	0.1000	41.59	1.111	0.1344	15	0.28	048.20	0
048	Water Soluble P2O5 (%)	0444	42.02	0.6400	41.59	1.111	0.1344	15	0.38	048.50	0
048	Water Soluble P2O5 (%)	0600	42.03	0.1500	41.59	1.111	0.1344	15	0.39	048.99	0
048	Water Soluble P2O5 (%)	0405	42.15	0.0500	41.59	1.111	0.1344	15	0.50	048.20	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				
048	Water Soluble P2O5 (%)	0561	43.49	0.0400	41.59	1.111	0.1344	15	1.71	048.20	0
048	Water Soluble P2O5 (%)	0577	46.84	0.3800	41.59	1.111	0.1344	15	4.72	048.99	0
050	Soluble K2O (%)	0588	0.1445	0.1510	0.2326	0.0851	0.0497	8	-0.95	050.99	0
050	Soluble K2O (%)	0572	0.1800	0.0000	0.2326	0.0851	0.0497	8	-0.57	050.99	0
050	Soluble K2O (%)	0422	0.1900	0.0022	0.2326	0.0851	0.0497	8	-0.46	050.50	0
050	Soluble K2O (%)	0354	0.1940	0.0080	0.2326	0.0851	0.0497	8	-0.42	050.52	0
050	Soluble K2O (%)	0527	0.2079	0.0034	0.2326	0.0851	0.0497	8	-0.27	050.99	0
050	Soluble K2O (%)	0524	0.2645	0.0335	0.2326	0.0851	0.0497	8	0.34	050.99	0
050	Soluble K2O (%)	0568	0.3200	0.0000	0.2326	0.0851	0.0497	8	0.94	050.51	0
050	Soluble K2O (%)	0035	0.8500	0.1000	0.2326	0.0851	0.0497	8	6.64	050.61	0
060	Water (Free) (%)	0513	1.170	0.0400	2.644	0.9515	0.0923	5	-1.55	060.00	0
060	Water (Free) (%)	0581	2.190	0.1400	2.644	0.9515	0.0923	5	-0.48	060.00	0
060	Water (Free) (%)	0096	3.235	0.0300	2.644	0.9515	0.0923	5	0.62	060.00	0
060	Water (Free) (%)	0593	3.285	0.2500	2.644	0.9515	0.0923	5	0.67	060.30	0
060	Water (Free) (%)	0510	3.338	0.0017	2.644	0.9515	0.0923	5	0.73	060.99	0
101	Acid Soluble Ca (%)	0553	0.0230	0.0000	0.2725	0.0571	0.0136	11	-4.37	101.00	0
101	Acid Soluble Ca (%)	0472	0.2250	0.0100	0.2725	0.0571	0.0136	11	-0.83	101.33	0
101	Acid Soluble Ca (%)	0572	0.2300	0.0000	0.2725	0.0571	0.0136	11	-0.74	101.99	0
101	Acid Soluble Ca (%)	0527	0.2380	0.0109	0.2725	0.0571	0.0136	11	-0.60	101.33	0
101	Acid Soluble Ca (%)	0568	0.2400	0.0000	0.2725	0.0571	0.0136	11	-0.57	101.30	0
101	Acid Soluble Ca (%)	0037	0.2847	0.0196	0.2725	0.0571	0.0136	11	0.21	101.33	0
101	Acid Soluble Ca (%)	0630	0.3044	0.0083	0.2725	0.0571	0.0136	11	0.56	101.33	0
101	Acid Soluble Ca (%)	0494	0.3063	0.0033	0.2725	0.0571	0.0136	11	0.59	101.33	0
101	Acid Soluble Ca (%)	0096	0.3120	0.0100	0.2725	0.0571	0.0136	11	0.69	101.30	0
101	Acid Soluble Ca (%)	0354	0.3300	0.0400	0.2725	0.0571	0.0136	11	1.01	101.30	0
101	Acid Soluble Ca (%)	0593	0.3400	0.0200	0.2725	0.0571	0.0136	11	1.18	101.99	0
101	Acid Soluble Ca (%)	0581	0.4700	0.1000	0.2725	0.0571	0.0136	11	3.46	101.99	1
121	Acid Soluble Mg (%)	0515	0.3905	0.0775	0.6701	0.0624	0.0203	15	-4.48	121.99	0
121	Acid Soluble Mg (%)	0572	0.5050	0.0100	0.6701	0.0624	0.0203	15	-2.65	121.99	0
121	Acid Soluble Mg (%)	0037	0.6215	0.0435	0.6701	0.0624	0.0203	15	-0.78	121.33	0
121	Acid Soluble Mg (%)	0553	0.6245	0.0070	0.6701	0.0624	0.0203	15	-0.73	121.00	0
121	Acid Soluble Mg (%)	0630	0.6521	0.0192	0.6701	0.0624	0.0203	15	-0.29	121.33	0
121	Acid Soluble Mg (%)	0524	0.6648	0.0221	0.6701	0.0624	0.0203	15	-0.09	121.99	0
121	Acid Soluble Mg (%)	0494	0.6685	0.0009	0.6701	0.0624	0.0203	15	-0.03	121.33	0
121	Acid Soluble Mg (%)	0096	0.6730	0.0040	0.6701	0.0624	0.0203	15	0.05	121.30	0
121	Acid Soluble Mg (%)	0626	0.6750	0.0300	0.6701	0.0624	0.0203	15	0.08	121.00	0
121	Acid Soluble Mg (%)	0354	0.6900	0.0000	0.6701	0.0624	0.0203	15	0.32	121.30	0
121	Acid Soluble Mg (%)	0593	0.6900	0.0000	0.6701	0.0624	0.0203	15	0.32	121.99	0
121	Acid Soluble Mg (%)	0527	0.6920	0.0089	0.6701	0.0624	0.0203	15	0.35	121.33	0
121	Acid Soluble Mg (%)	0568	0.7200	0.0000	0.6701	0.0624	0.0203	15	0.80	121.30	0
121	Acid Soluble Mg (%)	0472	0.7800	0.0000	0.6701	0.0624	0.0203	15	1.76	121.33	0
121	Acid Soluble Mg (%)	0581	1.185	0.0300	0.6701	0.0624	0.0203	15	8.25	121.99	0
121	Acid Soluble Mg (%)	0515	0.6389	0.1340	0.6701	0.0624	0.0203	15	-0.50	121.33	1

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				
131	Water Soluble Mg (%)	0626	0.0600	0.0000				2		131.00	0
131	Water Soluble Mg (%)	0572	0.1200	0.0200				2		131.99	0
145	Sulfate S, HCl soluble (%)	0553	1.185	0.0700	1.243	0.0506	0.0600	3	-1.15	145.99	0
145	Sulfate S, HCl soluble (%)	0593	1.270	0.0000	1.243	0.0506	0.0600	3	0.53	145.99	0
145	Sulfate S, HCl soluble (%)	0581	1.275	0.0500	1.243	0.0506	0.0600	3	0.63	145.99	0
148	Total S (%)	0572	0.7250	0.0100	1.255	0.4328	0.0450	7	-1.11	148.99	0
148	Total S (%)	0422	1.090	0.0990	1.255	0.4328	0.0450	7	-0.35	148.99	0
148	Total S (%)	0472	1.120	0.0000	1.255	0.4328	0.0450	7	-0.28	148.07	0
148	Total S (%)	0494	1.145	0.0100	1.255	0.4328	0.0450	7	-0.23	148.07	0
148	Total S (%)	0354	1.210	0.0400	1.255	0.4328	0.0450	7	-0.09	148.99	0
148	Total S (%)	0593	1.590	0.0800	1.255	0.4328	0.0450	7	0.70	148.00	0
148	Total S (%)	0037	6.841	0.0310	1.255	0.4328	0.0450	7	11.67	148.07	0
148	Total S (%)	0515	1.258	0.5686	1.255	0.4328	0.0450	7	0.01	148.07	1
148	Total S (%)	0527	< 0.1		1.255	0.4328	0.0450	7		148.07	5
149	S - HNO3 soluble (%)	0524	1.193	0.0062				1		149.04	0
151	Acid Soluble As (ppm)	0096	10.20	0.4000	14.12	1.362	0.5338	19	-2.88	151.32	0
151	Acid Soluble As (ppm)	0605	12.41	0.0500	14.12	1.362	0.5338	19	-1.26	151.30	0
151	Acid Soluble As (ppm)	0394	12.60	0.6051	14.12	1.362	0.5338	19	-1.12	151.33	0
151	Acid Soluble As (ppm)	0630	12.86	1.649	14.12	1.362	0.5338	19	-0.92	151.30	0
151	Acid Soluble As (ppm)	0586	13.00	0.0000	14.12	1.362	0.5338	19	-0.82	151.30	0
151	Acid Soluble As (ppm)	0220	13.25	0.1000	14.12	1.362	0.5338	19	-0.64	151.99	0
151	Acid Soluble As (ppm)	0220	13.50	0.0000	14.12	1.362	0.5338	19	-0.45	151.32	0
151	Acid Soluble As (ppm)	0626	13.56	0.5700	14.12	1.362	0.5338	19	-0.41	151.99	0
151	Acid Soluble As (ppm)	0572	13.98	0.1500	14.12	1.362	0.5338	19	-0.10	151.99	0
151	Acid Soluble As (ppm)	0037	14.39	2.103	14.12	1.362	0.5338	19	0.20	151.33	0
151	Acid Soluble As (ppm)	0405	14.50	1.000	14.12	1.362	0.5338	19	0.28	151.32	0
151	Acid Soluble As (ppm)	0527	14.72	0.0919	14.12	1.362	0.5338	19	0.44	151.33	0
151	Acid Soluble As (ppm)	0136	14.81	0.3400	14.12	1.362	0.5338	19	0.51	151.33	0
151	Acid Soluble As (ppm)	0563	14.96	0.0900	14.12	1.362	0.5338	19	0.62	151.33	0
151	Acid Soluble As (ppm)	0035	15.25	0.1000	14.12	1.362	0.5338	19	0.83	151.30	0
151	Acid Soluble As (ppm)	0593	15.25	0.7000	14.12	1.362	0.5338	19	0.83	151.30	0
151	Acid Soluble As (ppm)	0524	15.36	2.502	14.12	1.362	0.5338	19	0.91	151.30	0
151	Acid Soluble As (ppm)	0368	15.60	0.0000	14.12	1.362	0.5338	19	1.09	151.34	0
151	Acid Soluble As (ppm)	0494	31.20	0.2000	14.12	1.362	0.5338	19	12.55	151.33	0
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	14.12	1.362	0.5338	19		151.30	4
165	Acid Soluble B (%)	0524	0.0049	0.0001	0.1511	0.3032	0.0676	5	-0.42	165.99	0
165	Acid Soluble B (%)	0354	0.0150	0.0100	0.1511	0.3032	0.0676	5	-0.39	165.30	0
165	Acid Soluble B (%)	0472	0.0150	0.0100	0.1511	0.3032	0.0676	5	-0.39	165.99	0
165	Acid Soluble B (%)	0553	0.0275	0.0030	0.1511	0.3032	0.0676	5	-0.36	165.00	0
165	Acid Soluble B (%)	0515	0.6933	0.3149	0.1511	0.3032	0.0676	5	1.56	165.99	0
165	Acid Soluble B (%)	0593	34.10	1.400	0.1511	0.3032	0.0676	5	97.75	165.99	1
165	Acid Soluble B (%)	0527	< 0.01		0.1511	0.3032	0.0676	5		165.99	5
165	Acid Soluble B (%)	0572	< 0.0109		0.1511	0.3032	0.0676	5		165.99	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				
171	Water Soluble B (%)	0572	< 0.0113					0		171.99	5
181	Acid Soluble Cd (ppm)	0096	1.450	0.5000	3.286	0.3150	0.2034	20	-5.83	181.32	0
181	Acid Soluble Cd (ppm)	0368	2.800	0.0000	3.286	0.3150	0.2034	20	-1.54	181.34	0
181	Acid Soluble Cd (ppm)	0630	2.969	0.3870	3.286	0.3150	0.2034	20	-1.01	181.30	0
181	Acid Soluble Cd (ppm)	0405	3.000	0.0000	3.286	0.3150	0.2034	20	-0.91	181.32	0
181	Acid Soluble Cd (ppm)	0524	3.065	0.2847	3.286	0.3150	0.2034	20	-0.70	181.30	0
181	Acid Soluble Cd (ppm)	0626	3.085	0.0500	3.286	0.3150	0.2034	20	-0.64	181.30	0
181	Acid Soluble Cd (ppm)	0220	3.150	0.1000	3.286	0.3150	0.2034	20	-0.43	181.99	0
181	Acid Soluble Cd (ppm)	0220	3.200	0.0000	3.286	0.3150	0.2034	20	-0.27	181.32	0
181	Acid Soluble Cd (ppm)	0035	3.205	0.0300	3.286	0.3150	0.2034	20	-0.26	181.30	0
181	Acid Soluble Cd (ppm)	0572	3.290	0.1400	3.286	0.3150	0.2034	20	0.01	181.99	0
181	Acid Soluble Cd (ppm)	0136	3.330	0.1400	3.286	0.3150	0.2034	20	0.14	181.33	0
181	Acid Soluble Cd (ppm)	0494	3.375	0.4700	3.286	0.3150	0.2034	20	0.28	181.33	0
181	Acid Soluble Cd (ppm)	0037	3.376	0.3139	3.286	0.3150	0.2034	20	0.29	181.33	0
181	Acid Soluble Cd (ppm)	0086	3.438	0.0088	3.286	0.3150	0.2034	20	0.48	181.33	0
181	Acid Soluble Cd (ppm)	0563	3.495	0.0100	3.286	0.3150	0.2034	20	0.66	181.33	0
181	Acid Soluble Cd (ppm)	0593	3.515	0.0900	3.286	0.3150	0.2034	20	0.73	181.30	0
181	Acid Soluble Cd (ppm)	0394	3.527	0.0930	3.286	0.3150	0.2034	20	0.76	181.30	0
181	Acid Soluble Cd (ppm)	0527	3.558	0.1164	3.286	0.3150	0.2034	20	0.86	181.33	0
181	Acid Soluble Cd (ppm)	0605	3.885	0.2300	3.286	0.3150	0.2034	20	1.90	181.30	0
181	Acid Soluble Cd (ppm)	0586	10.00	2.000	3.286	0.3150	0.2034	20	21.31	181.30	0
181	Acid Soluble Cd (ppm)	0255	6.930	6.781	3.286	0.3150	0.2034	20	11.57	181.30	1
191	Acid Soluble Cr (ppm)	0572	90.26	3.790	116.0	10.14	2.114	21	-2.54	191.99	0
191	Acid Soluble Cr (ppm)	0626	100.5	1.740	116.0	10.14	2.114	21	-1.52	191.30	0
191	Acid Soluble Cr (ppm)	0626	101.1	2.670	116.0	10.14	2.114	21	-1.47	191.99	0
191	Acid Soluble Cr (ppm)	0563	104.8	0.0900	116.0	10.14	2.114	21	-1.11	191.33	0
191	Acid Soluble Cr (ppm)	0035	110.0	2.000	116.0	10.14	2.114	21	-0.59	191.30	0
191	Acid Soluble Cr (ppm)	0605	113.8	1.410	116.0	10.14	2.114	21	-0.22	191.30	0
191	Acid Soluble Cr (ppm)	0394	114.6	0.4540	116.0	10.14	2.114	21	-0.14	191.30	0
191	Acid Soluble Cr (ppm)	0630	115.2	2.300	116.0	10.14	2.114	21	-0.08	191.30	0
191	Acid Soluble Cr (ppm)	0524	116.3	3.593	116.0	10.14	2.114	21	0.03	191.30	0
191	Acid Soluble Cr (ppm)	0136	116.4	3.200	116.0	10.14	2.114	21	0.04	191.33	0
191	Acid Soluble Cr (ppm)	0368	116.5	1.000	116.0	10.14	2.114	21	0.05	191.34	0
191	Acid Soluble Cr (ppm)	0086	117.3	2.937	116.0	10.14	2.114	21	0.13	191.33	0
191	Acid Soluble Cr (ppm)	0220	117.5	1.000	116.0	10.14	2.114	21	0.15	191.99	0
191	Acid Soluble Cr (ppm)	0037	117.6	11.56	116.0	10.14	2.114	21	0.16	191.33	0
191	Acid Soluble Cr (ppm)	0494	118.0	0.0000	116.0	10.14	2.114	21	0.20	191.33	0
191	Acid Soluble Cr (ppm)	0405	118.5	1.000	116.0	10.14	2.114	21	0.25	191.32	0
191	Acid Soluble Cr (ppm)	0220	121.0	0.0000	116.0	10.14	2.114	21	0.49	191.32	0
191	Acid Soluble Cr (ppm)	0527	124.0	0.0630	116.0	10.14	2.114	21	0.79	191.33	0
191	Acid Soluble Cr (ppm)	0027	129.5	2.558	116.0	10.14	2.114	21	1.33	191.30	0
191	Acid Soluble Cr (ppm)	0593	131.0	4.000	116.0	10.14	2.114	21	1.48	191.30	0
191	Acid Soluble Cr (ppm)	0586	152.0	2.000	116.0	10.14	2.114	21	3.55	191.30	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				
191	Acid Soluble Cr (ppm)	0096	101.4	31.20	116.0	10.14	2.114	21	-1.44	191.30	1
202	Acid Soluble Co (ppm)	0572	1.970	0.0800	2.658	0.4855	0.1175	16	-1.42	202.99	0
202	Acid Soluble Co (ppm)	0563	2.040	0.0400	2.658	0.4855	0.1175	16	-1.27	202.33	0
202	Acid Soluble Co (ppm)	0593	2.085	0.0700	2.658	0.4855	0.1175	16	-1.18	202.30	0
202	Acid Soluble Co (ppm)	0368	2.350	0.1000	2.658	0.4855	0.1175	16	-0.63	202.34	0
202	Acid Soluble Co (ppm)	0630	2.354	0.3220	2.658	0.4855	0.1175	16	-0.63	202.30	0
202	Acid Soluble Co (ppm)	0494	2.435	0.0300	2.658	0.4855	0.1175	16	-0.46	202.33	0
202	Acid Soluble Co (ppm)	0220	2.700	0.0000	2.658	0.4855	0.1175	16	0.09	202.99	0
202	Acid Soluble Co (ppm)	0136	2.725	0.0300	2.658	0.4855	0.1175	16	0.14	202.33	0
202	Acid Soluble Co (ppm)	0220	2.750	0.1000	2.658	0.4855	0.1175	16	0.19	202.32	0
202	Acid Soluble Co (ppm)	0037	2.777	0.3758	2.658	0.4855	0.1175	16	0.24	202.33	0
202	Acid Soluble Co (ppm)	0605	2.795	0.1500	2.658	0.4855	0.1175	16	0.28	202.30	0
202	Acid Soluble Co (ppm)	0527	2.873	0.1053	2.658	0.4855	0.1175	16	0.44	202.33	0
202	Acid Soluble Co (ppm)	0086	2.899	0.0963	2.658	0.4855	0.1175	16	0.50	202.33	0
202	Acid Soluble Co (ppm)	0405	3.000	0.0000	2.658	0.4855	0.1175	16	0.70	202.32	0
202	Acid Soluble Co (ppm)	0524	3.963	0.0675	2.658	0.4855	0.1175	16	2.69	202.30	0
202	Acid Soluble Co (ppm)	0586	8.000	4.000	2.658	0.4855	0.1175	16	11.00	202.30	0
202	Acid Soluble Co (ppm)	0255	13.10	20.07	2.658	0.4855	0.1175	16	21.50	202.99	1
202	Acid Soluble Co (ppm)	0626	< 5		2.658	0.4855	0.1175	16		202.30	5
202	Acid Soluble Co (ppm)	0626	< 5		2.658	0.4855	0.1175	16		202.99	5
221	Acid Soluble Cu (%)	0572	0.0001	0.0000	0.0006	0.0005	0.0005	5	-1.04	221.99	0
221	Acid Soluble Cu (%)	0524	0.0003	0.0000	0.0006	0.0005	0.0005	5	-0.63	221.99	0
221	Acid Soluble Cu (%)	0086	0.0004	0.0000	0.0006	0.0005	0.0005	5	-0.43	221.33	0
221	Acid Soluble Cu (%)	0035	0.0010	0.0000	0.0006	0.0005	0.0005	5	0.80	221.30	0
221	Acid Soluble Cu (%)	0368	0.0013	0.0005	0.0006	0.0005	0.0005	5	1.31	221.99	0
221	Acid Soluble Cu (%)	0593	0.8445	0.0650	0.0006	0.0005	0.0005	5	1720.79	221.99	1
221	Acid Soluble Cu (%)	0255	0.0000	0.0000	0.0006	0.0005	0.0005	5		221.30	4
221	Acid Soluble Cu (%)	0106	0.0000	0.0000	0.0006	0.0005	0.0005	5		221.33	4
221	Acid Soluble Cu (%)	0586	0.0000	0.0000	0.0006	0.0005	0.0005	5		221.99	4
221	Acid Soluble Cu (%)	0527	< 0.0001		0.0006	0.0005	0.0005	5		221.33	5
221	Acid Soluble Cu (%)	0405	< 0.0002		0.0006	0.0005	0.0005	5		221.32	5
221	Acid Soluble Cu (%)	0136	< 0.0002		0.0006	0.0005	0.0005	5		221.33	5
221	Acid Soluble Cu (%)	0394	< 0.0002		0.0006	0.0005	0.0005	5		221.33	5
221	Acid Soluble Cu (%)	0626	< 0.0005		0.0006	0.0005	0.0005	5		221.33	5
221	Acid Soluble Cu (%)	0626	< 0.001		0.0006	0.0005	0.0005	5		221.00	5
221	Acid Soluble Cu (%)	0553	< 0.005		0.0006	0.0005	0.0005	5		221.00	5
221	Acid Soluble Cu (%)	0354	< 0.01		0.0006	0.0005	0.0005	5		221.30	5
241	Acid Soluble Fe (%)	0515	0.6171	0.1163	0.9763	0.0677	0.0327	16	-5.31	241.99	0
241	Acid Soluble Fe (%)	0515	0.7433	0.0085	0.9763	0.0677	0.0327	16	-3.44	241.33	0
241	Acid Soluble Fe (%)	0630	0.8957	0.0807	0.9763	0.0677	0.0327	16	-1.19	241.33	0
241	Acid Soluble Fe (%)	0037	0.9200	0.0680	0.9763	0.0677	0.0327	16	-0.83	241.33	0
241	Acid Soluble Fe (%)	0626	0.9550	0.0100	0.9763	0.0677	0.0327	16	-0.31	241.00	0
241	Acid Soluble Fe (%)	0096	0.9650	0.0000	0.9763	0.0677	0.0327	16	-0.17	241.30	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				
241	Acid Soluble Fe (%)	0626	0.9850	0.0100	0.9763	0.0677	0.0327	16	0.13	241.33	0
241	Acid Soluble Fe (%)	0553	0.9875	0.0150	0.9763	0.0677	0.0327	16	0.17	241.00	0
241	Acid Soluble Fe (%)	0572	0.9900	0.0200	0.9763	0.0677	0.0327	16	0.20	241.99	0
241	Acid Soluble Fe (%)	0354	1.000	0.0000	0.9763	0.0677	0.0327	16	0.35	241.30	0
241	Acid Soluble Fe (%)	0472	1.000	0.0000	0.9763	0.0677	0.0327	16	0.35	241.33	0
241	Acid Soluble Fe (%)	0527	1.003	0.0100	0.9763	0.0677	0.0327	16	0.39	241.33	0
241	Acid Soluble Fe (%)	0494	1.011	0.0587	0.9763	0.0677	0.0327	16	0.51	241.33	0
241	Acid Soluble Fe (%)	0593	1.025	0.0100	0.9763	0.0677	0.0327	16	0.72	241.99	0
241	Acid Soluble Fe (%)	0524	1.057	0.0328	0.9763	0.0677	0.0327	16	1.19	241.99	0
241	Acid Soluble Fe (%)	0581	1.460	0.0200	0.9763	0.0677	0.0327	16	7.15	241.99	0
251	Acid Soluble Pb (ppm)	0394	0.9475	0.0550	2.456	2.116	0.1322	13	-0.71	251.30	0
251	Acid Soluble Pb (ppm)	0593	1.110	0.0200	2.456	2.116	0.1322	13	-0.64	251.30	0
251	Acid Soluble Pb (ppm)	0563	1.190	0.0200	2.456	2.116	0.1322	13	-0.60	251.33	0
251	Acid Soluble Pb (ppm)	0572	1.190	0.0000	2.456	2.116	0.1322	13	-0.60	251.99	0
251	Acid Soluble Pb (ppm)	0096	1.200	0.0000	2.456	2.116	0.1322	13	-0.59	251.30	0
251	Acid Soluble Pb (ppm)	0524	1.205	0.0004	2.456	2.116	0.1322	13	-0.59	251.30	0
251	Acid Soluble Pb (ppm)	0630	1.276	0.1060	2.456	2.116	0.1322	13	-0.56	251.30	0
251	Acid Soluble Pb (ppm)	0527	1.338	0.0932	2.456	2.116	0.1322	13	-0.53	251.33	0
251	Acid Soluble Pb (ppm)	0086	2.392	0.5615	2.456	2.116	0.1322	13	-0.03	251.33	0
251	Acid Soluble Pb (ppm)	0368	3.700	0.4000	2.456	2.116	0.1322	13	0.59	251.34	0
251	Acid Soluble Pb (ppm)	0220	5.250	0.1000	2.456	2.116	0.1322	13	1.32	251.99	0
251	Acid Soluble Pb (ppm)	0220	5.500	0.2000	2.456	2.116	0.1322	13	1.44	251.32	0
251	Acid Soluble Pb (ppm)	0494	6.155	0.1900	2.456	2.116	0.1322	13	1.75	251.33	0
251	Acid Soluble Pb (ppm)	0586	5.750	1.500	2.456	2.116	0.1322	13	1.56	251.30	1
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	2.456	2.116	0.1322	13		251.30	4
251	Acid Soluble Pb (ppm)	0035	< 2.8		2.456	2.116	0.1322	13		251.30	5
251	Acid Soluble Pb (ppm)	0136	< 3		2.456	2.116	0.1322	13		251.33	5
251	Acid Soluble Pb (ppm)	0405	< 4		2.456	2.116	0.1322	13		251.32	5
251	Acid Soluble Pb (ppm)	0605	< 5		2.456	2.116	0.1322	13		251.30	5
251	Acid Soluble Pb (ppm)	0626	< 5		2.456	2.116	0.1322	13		251.30	5
251	Acid Soluble Pb (ppm)	0626	< 5		2.456	2.116	0.1322	13		251.99	5
261	Acid Soluble Mn (%)	0572	0.0200	0.0000	0.0303	0.0023	0.0007	10	-4.12	261.99	0
261	Acid Soluble Mn (%)	0494	0.0277	0.0069	0.0303	0.0023	0.0007	10	-1.05	261.35	0
261	Acid Soluble Mn (%)	0626	0.0297	0.0003	0.0303	0.0023	0.0007	10	-0.25	261.12	0
261	Acid Soluble Mn (%)	0354	0.0300	0.0000	0.0303	0.0023	0.0007	10	-0.11	261.30	0
261	Acid Soluble Mn (%)	0472	0.0300	0.0000	0.0303	0.0023	0.0007	10	-0.11	261.35	0
261	Acid Soluble Mn (%)	0626	0.0304	0.0006	0.0303	0.0023	0.0007	10	0.05	261.35	0
261	Acid Soluble Mn (%)	0553	0.0305	0.0010	0.0303	0.0023	0.0007	10	0.09	261.00	0
261	Acid Soluble Mn (%)	0524	0.0315	0.0005	0.0303	0.0023	0.0007	10	0.47	261.99	0
261	Acid Soluble Mn (%)	0527	0.0326	0.0005	0.0303	0.0023	0.0007	10	0.91	261.35	0
261	Acid Soluble Mn (%)	0096	315.0	0.0000	0.0303	0.0023	0.0007	10	126142.97	261.30	0
261	Acid Soluble Mn (%)	0593	328.0	14.00	0.0303	0.0023	0.0007	10	131349.37	261.99	1
271	Water Soluble Mn (%)	0626	< 0.001					0		271.00	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)	0394	0.0051	0.0009	0.0109	0.0085	0.0009	4	-0.58	281.30	0
281	Acid Soluble Hg (ppm)	0630	0.0060	0.0000	0.0109	0.0085	0.0009	4	-0.49	281.30	0
281	Acid Soluble Hg (ppm)	0626	0.0092	0.0007	0.0109	0.0085	0.0009	4	-0.18	281.99	0
281	Acid Soluble Hg (ppm)	0524	0.0235	0.0011	0.0109	0.0085	0.0009	4	1.24	281.99	0
281	Acid Soluble Hg (ppm)	0527	< 0.001		0.0109	0.0085	0.0009	4		281.30	5
281	Acid Soluble Hg (ppm)	0593	< 0.003		0.0109	0.0085	0.0009	4		281.30	5
281	Acid Soluble Hg (ppm)	0572	< 0.009		0.0109	0.0085	0.0009	4		281.99	5
281	Acid Soluble Hg (ppm)	0220	< 0.01		0.0109	0.0085	0.0009	4		281.99	5
281	Acid Soluble Hg (ppm)	0515	< 0.1		0.0109	0.0085	0.0009	4		281.30	5
281	Acid Soluble Hg (ppm)	0605	< 1.25		0.0109	0.0085	0.0009	4		281.30	5
281	Acid Soluble Hg (ppm)	0405	< 2		0.0109	0.0085	0.0009	4		281.30	5
289	Acid Soluble Mo (ppm)	0563	3.480	0.1000	12.86	2.362	0.8672	21	-3.97	289.33	0
289	Acid Soluble Mo (ppm)	0255	9.857	0.8670	12.86	2.362	0.8672	21	-1.27	289.30	0
289	Acid Soluble Mo (ppm)	0035	10.25	1.510	12.86	2.362	0.8672	21	-1.11	289.30	0
289	Acid Soluble Mo (ppm)	0630	11.46	1.400	12.86	2.362	0.8672	21	-0.59	289.30	0
289	Acid Soluble Mo (ppm)	0234	11.50	1.000	12.86	2.362	0.8672	21	-0.58	289.30	0
289	Acid Soluble Mo (ppm)	0524	11.60	0.5268	12.86	2.362	0.8672	21	-0.54	289.30	0
289	Acid Soluble Mo (ppm)	0136	12.20	0.7200	12.86	2.362	0.8672	21	-0.28	289.33	0
289	Acid Soluble Mo (ppm)	0626	12.25	0.5000	12.86	2.362	0.8672	21	-0.26	289.33	0
289	Acid Soluble Mo (ppm)	0037	12.29	1.072	12.86	2.362	0.8672	21	-0.24	289.33	0
289	Acid Soluble Mo (ppm)	0086	12.46	0.1791	12.86	2.362	0.8672	21	-0.17	289.33	0
289	Acid Soluble Mo (ppm)	0527	12.64	0.1258	12.86	2.362	0.8672	21	-0.09	289.33	0
289	Acid Soluble Mo (ppm)	0096	12.75	0.3000	12.86	2.362	0.8672	21	-0.05	289.30	0
289	Acid Soluble Mo (ppm)	0572	12.82	0.2300	12.86	2.362	0.8672	21	-0.02	289.99	0
289	Acid Soluble Mo (ppm)	0027	12.96	0.4240	12.86	2.362	0.8672	21	0.04	289.30	0
289	Acid Soluble Mo (ppm)	0405	13.00	0.0000	12.86	2.362	0.8672	21	0.06	289.32	0
289	Acid Soluble Mo (ppm)	0368	13.10	0.0000	12.86	2.362	0.8672	21	0.10	289.34	0
289	Acid Soluble Mo (ppm)	0106	14.00	0.0000	12.86	2.362	0.8672	21	0.48	289.33	0
289	Acid Soluble Mo (ppm)	0220	16.50	3.000	12.86	2.362	0.8672	21	1.54	289.99	0
289	Acid Soluble Mo (ppm)	0593	16.85	0.7000	12.86	2.362	0.8672	21	1.69	289.30	0
289	Acid Soluble Mo (ppm)	0494	24.70	4.600	12.86	2.362	0.8672	21	5.01	289.33	0
289	Acid Soluble Mo (ppm)	0586	24.75	2.500	12.86	2.362	0.8672	21	5.03	289.30	0
289	Acid Soluble Mo (ppm)	0220	23.00	6.000	12.86	2.362	0.8672	21	4.29	289.32	1
291	Acid Soluble Ni (ppm)	0563	7.350	0.1000	11.41	1.472	0.5003	22	-2.76	291.33	0
291	Acid Soluble Ni (ppm)	0572	8.770	0.4200	11.41	1.472	0.5003	22	-1.79	291.99	0
291	Acid Soluble Ni (ppm)	0626	8.975	0.2300	11.41	1.472	0.5003	22	-1.65	291.30	0
291	Acid Soluble Ni (ppm)	0626	9.340	0.3600	11.41	1.472	0.5003	22	-1.40	291.99	0
291	Acid Soluble Ni (ppm)	0630	10.47	1.410	11.41	1.472	0.5003	22	-0.64	291.30	0
291	Acid Soluble Ni (ppm)	0136	10.74	0.3100	11.41	1.472	0.5003	22	-0.46	291.33	0
291	Acid Soluble Ni (ppm)	0035	11.05	0.1000	11.41	1.472	0.5003	22	-0.24	291.30	0
291	Acid Soluble Ni (ppm)	0220	11.15	0.3000	11.41	1.472	0.5003	22	-0.17	291.99	0
291	Acid Soluble Ni (ppm)	0037	11.32	1.123	11.41	1.472	0.5003	22	-0.06	291.33	0
291	Acid Soluble Ni (ppm)	0220	11.35	0.1000	11.41	1.472	0.5003	22	-0.04	291.32	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				
291	Acid Soluble Ni (ppm)	0605	11.47	1.040	11.41	1.472	0.5003	22	0.04	291.30	0
291	Acid Soluble Ni (ppm)	0394	11.56	0.1260	11.41	1.472	0.5003	22	0.10	291.30	0
291	Acid Soluble Ni (ppm)	0524	11.60	0.3139	11.41	1.472	0.5003	22	0.13	291.30	0
291	Acid Soluble Ni (ppm)	0368	11.90	0.2000	11.41	1.472	0.5003	22	0.34	291.34	0
291	Acid Soluble Ni (ppm)	0086	12.03	0.1830	11.41	1.472	0.5003	22	0.42	291.33	0
291	Acid Soluble Ni (ppm)	0494	12.25	3.300	11.41	1.472	0.5003	22	0.57	291.33	0
291	Acid Soluble Ni (ppm)	0405	12.50	1.000	11.41	1.472	0.5003	22	0.74	291.32	0
291	Acid Soluble Ni (ppm)	0027	12.52	0.3240	11.41	1.472	0.5003	22	0.76	291.30	0
291	Acid Soluble Ni (ppm)	0527	12.61	0.3695	11.41	1.472	0.5003	22	0.81	291.33	0
291	Acid Soluble Ni (ppm)	0096	12.80	0.2000	11.41	1.472	0.5003	22	0.95	291.30	0
291	Acid Soluble Ni (ppm)	0593	13.10	0.6000	11.41	1.472	0.5003	22	1.15	291.30	0
291	Acid Soluble Ni (ppm)	0586	27.00	3.000	11.41	1.472	0.5003	22	10.59	291.30	0
291	Acid Soluble Ni (ppm)	0255	43.77	26.44	11.41	1.472	0.5003	22	21.98	291.99	1
301	Acid Soluble Se (ppm)	0394	0.2668	0.0242	0.7478	0.6075	0.1394	6	-0.79	301.33	0
301	Acid Soluble Se (ppm)	0220	0.3500	0.1000	0.7478	0.6075	0.1394	6	-0.65	301.32	0
301	Acid Soluble Se (ppm)	0524	0.4742	0.0422	0.7478	0.6075	0.1394	6	-0.45	301.30	0
301	Acid Soluble Se (ppm)	0220	0.6000	0.2000	0.7478	0.6075	0.1394	6	-0.24	301.99	0
301	Acid Soluble Se (ppm)	0630	1.171	0.2600	0.7478	0.6075	0.1394	6	0.70	301.30	0
301	Acid Soluble Se (ppm)	0572	1.625	0.2100	0.7478	0.6075	0.1394	6	1.44	301.99	0
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000	0.7478	0.6075	0.1394	6		301.99	4
301	Acid Soluble Se (ppm)	0593	< 0.0001		0.7478	0.6075	0.1394	6		301.30	5
301	Acid Soluble Se (ppm)	0527	< 0.01		0.7478	0.6075	0.1394	6		301.33	5
301	Acid Soluble Se (ppm)	0494	< 1		0.7478	0.6075	0.1394	6		301.33	5
301	Acid Soluble Se (ppm)	0626	< 1		0.7478	0.6075	0.1394	6		301.34	5
301	Acid Soluble Se (ppm)	0368	< 1.3		0.7478	0.6075	0.1394	6		301.34	5
301	Acid Soluble Se (ppm)	0605	< 1.65		0.7478	0.6075	0.1394	6		301.30	5
301	Acid Soluble Se (ppm)	0405	< 10		0.7478	0.6075	0.1394	6		301.32	5
301	Acid Soluble Se (ppm)	0035	< 12		0.7478	0.6075	0.1394	6		301.30	5
311	Sodium (%)	0572	0.1500	0.0000	0.2111	0.0448	0.0263	4	-1.36	311.99	0
311	Sodium (%)	0527	0.2093	0.0025	0.2111	0.0448	0.0263	4	-0.04	311.33	0
311	Sodium (%)	0096	0.2300	0.0000	0.2111	0.0448	0.0263	4	0.42	311.99	0
311	Sodium (%)	0354	0.2550	0.0500	0.2111	0.0448	0.0263	4	0.98	311.99	0
321	Acid Soluble Zn (%)	0572	0.0039	0.0001	0.0056	0.0010	0.0005	20	-1.74	321.99	0
321	Acid Soluble Zn (%)	0255	0.0040	0.0000	0.0056	0.0010	0.0005	20	-1.59	321.30	0
321	Acid Soluble Zn (%)	0106	0.0042	0.0000	0.0056	0.0010	0.0005	20	-1.39	321.33	0
321	Acid Soluble Zn (%)	0630	0.0044	0.0016	0.0056	0.0010	0.0005	20	-1.18	321.33	0
321	Acid Soluble Zn (%)	0136	0.0050	0.0000	0.0056	0.0010	0.0005	20	-0.57	321.33	0
321	Acid Soluble Zn (%)	0220	0.0055	0.0002	0.0056	0.0010	0.0005	20	-0.07	321.32	0
321	Acid Soluble Zn (%)	0405	0.0055	0.0002	0.0056	0.0010	0.0005	20	-0.07	321.32	0
321	Acid Soluble Zn (%)	0494	0.0055	0.0010	0.0056	0.0010	0.0005	20	-0.07	321.33	0
321	Acid Soluble Zn (%)	0086	0.0056	0.0001	0.0056	0.0010	0.0005	20	-0.02	321.33	0
321	Acid Soluble Zn (%)	0626	0.0056	0.0001	0.0056	0.0010	0.0005	20	-0.02	321.33	0
321	Acid Soluble Zn (%)	0626	0.0056	0.0002	0.0056	0.0010	0.0005	20	0.03	321.00	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				
321	Acid Soluble Zn (%)	0368	0.0057	0.0003	0.0056	0.0010	0.0005	20	0.09	321.99	0
321	Acid Soluble Zn (%)	0037	0.0057	0.0006	0.0056	0.0010	0.0005	20	0.14	321.33	0
321	Acid Soluble Zn (%)	0027	0.0059	0.0008	0.0056	0.0010	0.0005	20	0.34	321.99	0
321	Acid Soluble Zn (%)	0553	0.0060	0.0000	0.0056	0.0010	0.0005	20	0.44	321.00	0
321	Acid Soluble Zn (%)	0524	0.0061	0.0000	0.0056	0.0010	0.0005	20	0.54	321.99	0
321	Acid Soluble Zn (%)	0394	0.0064	0.0000	0.0056	0.0010	0.0005	20	0.85	321.33	0
321	Acid Soluble Zn (%)	0035	0.0065	0.0010	0.0056	0.0010	0.0005	20	0.95	321.30	0
321	Acid Soluble Zn (%)	0096	0.0090	0.0008	0.0056	0.0010	0.0005	20	3.49	321.30	0
321	Acid Soluble Zn (%)	0593	0.0100	0.0000	0.0056	0.0010	0.0005	20	4.51	321.33	0
321	Acid Soluble Zn (%)	0586	56.50	7.000	0.0056	0.0010	0.0005	20	57413.65	321.99	1
321	Acid Soluble Zn (%)	0354	< 0.01		0.0056	0.0010	0.0005	20		321.30	5
321	Acid Soluble Zn (%)	0527	< 0.01		0.0056	0.0010	0.0005	20		321.33	5
325	Water Soluble Zn (%)	0572	0.0006	0.0001				1		325.99	0
325	Water Soluble Zn (%)	0626	< 0.001					1		325.00	5
325	Water Soluble Zn (%)	0626	< 0.001					1		325.30	5
431	Soluble Si in nonliquids (%)	0572	< 0.0068					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.