

Analyte PT For All Labs

**Magruder Fertilizer Proficiency Testing Program**

# Analytes: 33

Sample # 220714

Regular PT Scheme Sample Doubles with P Scheme

# Labs Reporting: 93

MAP

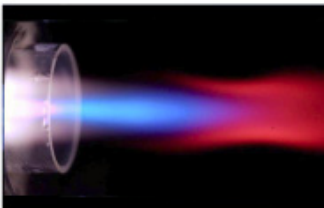
**Statistical Summary**

Issue Date : 08/31/2022

Analyte Code	Analyte Sample # 220714	# 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 (%)	39	38	10.62	0.4355	10.69		0.3574	0.0725	3.34%		0.0861	2.80%
002	Nitrate N (%)	1		0.0150									
005	Urea N (%)	1		0.1400									
009	Ammoniacal Plus Nitrate N (%)	2	2	10.91	0.0887								
010	Total N (%)	78	75	10.94	1.099	10.81	0.5922	0.2429	0.0351	2.25%	0.96	0.0946	2.80%
020	Total P2O5 (%)	50	48	52.10	2.108	52.10		0.9019	0.1627	1.73%		0.2106	1.39%
030	Citrate Insoluble P2O5 (%)	7	6	7.419	17.97	0.6258		0.2549	0.1301	40.73%		0.1217	4.29%
040	Indirect Available P2O5 (%)	7	7	51.78	0.3235	51.80	1.0970	0.3021	0.1427	0.58%	0.64	0.1928	1.39%
041	Direct Available P2O5 (%)	47	47	51.73	0.9688	51.74	1.0961	0.9101	0.1659	1.76%	1.93	0.3866	1.39%
048	Water Soluble P2O5 (%)	8	8	45.78	1.309	45.84		1.337	0.5908	2.92%		0.2725	1.48%
050	Soluble K2O (%)	8	7	0.1706	0.0537	0.1929	0.4100	0.0227	0.0107	11.75%	0.13	0.0035	5.12%
060	Water (Free) (%)	3	3	1.165	0.6708	1.165		0.6708	0.4841	57.60%		0.0606	3.91%
101	Acid Soluble Ca (%)	9	9	0.1269	0.0551	0.1315	0.2066	0.0512	0.0213	38.93%	0.58	0.0098	5.43%
121	Acid Soluble Mg (%)	12	11	0.8377	0.1144	0.8674	0.2434	0.0595	0.0224	6.86%	0.57	0.0082	4.09%
143	Elemental S (%)	1		1.345									
145	Sulfate S, HCl soluble (%)	3	3	3.327	1.554	3.327		1.554	1.122	46.72%		0.1533	3.34%
148	Total S (%)	8	8	1.236	0.2226	1.236	0.2618	0.2524	0.1116	20.42%	2.25	0.0423	3.87%
149	S - HNO3 soluble (%)	2	2	1.414	0.0295								
151	Acid Soluble As (ppm)	21	19	16.28	8.729	15.86		5.100	1.463	32.16%		0.9118	10.55%
165	Acid Soluble B (%)	11	9	6.445	21.34	0.0113	0.0047	0.0078	0.0032	68.80%	3.85	0.0013	7.85%
181	Acid Soluble Cd (ppm)	22	21	6.996	8.731	4.518		0.5265	0.1436	11.65%		0.1776	12.75%
191	Acid Soluble Cr (ppm)	22	21	105.8	26.70	99.79		9.045	2.467	9.06%		3.638	8.00%
202	Acid Soluble Co (ppm)	18	17	3.789	3.438	3.064	1.9193	0.6509	0.1973	21.24%	0.79	0.1842	13.52%
221	Acid Soluble Cu (%)	15	6	0.1348	0.5160	0.0010	0.0051	0.0010	0.0005	100.41%	0.47	0.0001	11.26%
241	Acid Soluble Fe (%)	13	13	1.206	0.0676	1.195	0.1245	0.0444	0.0154	3.71%	0.83	0.0231	3.89%
251	Acid Soluble Pb (ppm)	19	11	2.643	2.763	2.899		3.855	1.453	132.97%		0.2404	13.63%
261	Acid Soluble Mn (%)	11	10	32.91	109.0	0.0318	0.0082	0.0057	0.0023	18.03%	1.63	0.0006	6.72%
281	Acid Soluble Hg (ppm)	10	4	0.3802	0.6966	0.0060		0.0080	0.0050	134.36%		0.0008	22.00%
289	Acid Soluble Mo (ppm)	19	17	14.54	4.609	15.47	5.6415	2.353	0.7133	15.21%	0.97	0.8715	10.59%

Analyte Code	Analyte Sample # 220714	# 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
291	Acid Soluble Ni (ppm)	24	23	13.88	9.685	11.61		1.899	0.4950	16.36%		0.8457	11.06%
301	Acid Soluble Se (ppm)	12	5	2.942	3.726	4.251		3.913	2.187	92.04%		2.980	12.87%
311	Sodium (%)	6	6	0.1346	0.0298	0.1379	0.0188	0.0257	0.0131	18.62%	<b>3.18</b>	0.0037	5.39%
321	Acid Soluble Zn (%)	29	26	10.51	33.01	0.0071	0.0057	0.0021	0.0005	29.41%	<b>0.85</b>	0.2511	8.43%

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: 33

Sample # 220714

Regular PT Scheme Sample Doubles with P Scheme

# Labs Reporting: 93

MAP

#### Lab Values

Issue Date : 08/31/2022

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001	Ammoniacal N (%)	0231	9.610	0.0000	10.69	0.3574	0.0861	38	-3.02	001.10	0
001	Ammoniacal N (%)	0394	9.620	0.1180	10.69	0.3574	0.0861	38	-2.99	001.99	0
001	Ammoniacal N (%)	0513	9.830	0.0200	10.69	0.3574	0.0861	38	-2.40	001.99	0
001	Ammoniacal N (%)	0029	9.860	0.0600	10.69	0.3574	0.0861	38	-2.32	001.99	0
001	Ammoniacal N (%)	0587	9.990	0.1400	10.69	0.3574	0.0861	38	-1.95	001.10	0
001	Ammoniacal N (%)	0452	10.11	0.0500	10.69	0.3574	0.0861	38	-1.63	001.10	0
001	Ammoniacal N (%)	0580	10.15	0.1800	10.69	0.3574	0.0861	38	-1.51	001.10	0
001	Ammoniacal N (%)	0423	10.25	0.1000	10.69	0.3574	0.0861	38	-1.23	001.99	0
001	Ammoniacal N (%)	0220	10.37	0.0600	10.69	0.3574	0.0861	38	-0.89	001.99	0
001	Ammoniacal N (%)	0510	10.45	0.0098	10.69	0.3574	0.0861	38	-0.65	001.99	0
001	Ammoniacal N (%)	0444	10.65	0.1000	10.69	0.3574	0.0861	38	-0.11	001.10	0
001	Ammoniacal N (%)	0563	10.65	0.2000	10.69	0.3574	0.0861	38	-0.11	001.99	0
001	Ammoniacal N (%)	0524	10.67	0.2700	10.69	0.3574	0.0861	38	-0.07	001.99	0
001	Ammoniacal N (%)	0570	10.74	0.1500	10.69	0.3574	0.0861	38	0.13	001.10	0
001	Ammoniacal N (%)	0581	10.74	0.0000	10.69	0.3574	0.0861	38	0.14	001.99	0
001	Ammoniacal N (%)	0586	10.75	0.0300	10.69	0.3574	0.0861	38	0.16	001.99	0
001	Ammoniacal N (%)	0582	10.76	0.0300	10.69	0.3574	0.0861	38	0.19	001.99	0
001	Ammoniacal N (%)	0027	10.78	0.0100	10.69	0.3574	0.0861	38	0.24	001.99	0
001	Ammoniacal N (%)	0405	10.78	0.1000	10.69	0.3574	0.0861	38	0.26	001.99	0
001	Ammoniacal N (%)	0593	10.79	0.0500	10.69	0.3574	0.0861	38	0.27	001.99	0
001	Ammoniacal N (%)	0605	10.81	0.0290	10.69	0.3574	0.0861	38	0.33	001.99	0
001	Ammoniacal N (%)	0117	10.81	0.0005	10.69	0.3574	0.0861	38	0.34	001.10	0
001	Ammoniacal N (%)	0096	10.83	0.0300	10.69	0.3574	0.0861	38	0.38	001.99	0
001	Ammoniacal N (%)	0564	10.84	0.0200	10.69	0.3574	0.0861	38	0.42	001.99	0
001	Ammoniacal N (%)	0565	10.84	0.0200	10.69	0.3574	0.0861	38	0.42	001.99	0
001	Ammoniacal N (%)	0368	10.87	0.0040	10.69	0.3574	0.0861	38	0.50	001.99	0
001	Ammoniacal N (%)	0609	10.87	0.0200	10.69	0.3574	0.0861	38	0.51	001.10	0
001	Ammoniacal N (%)	0551	10.88	0.0500	10.69	0.3574	0.0861	38	0.52	001.99	0
001	Ammoniacal N (%)	0567	10.88	0.0500	10.69	0.3574	0.0861	38	0.52	001.99	0
001	Ammoniacal N (%)	0600	10.90	0.1000	10.69	0.3574	0.0861	38	0.59	001.99	0
001	Ammoniacal N (%)	0569	10.92	0.1300	10.69	0.3574	0.0861	38	0.63	001.99	0
001	Ammoniacal N (%)	0553	10.95	0.1000	10.69	0.3574	0.0861	38	0.73	001.99	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	R-bar				
001	Ammoniacal N (%)	0562	10.95	0.1000	10.69	0.3574	0.0861	38	0.73	001.99	0
001	Ammoniacal N (%)	0549	10.98	0.1000	10.69	0.3574	0.0861	38	0.82	001.99	0
001	Ammoniacal N (%)	0538	11.01	0.0400	10.69	0.3574	0.0861	38	0.90	001.99	0
001	Ammoniacal N (%)	0577	11.06	0.2100	10.69	0.3574	0.0861	38	1.03	001.99	0
001	Ammoniacal N (%)	0255	11.17	0.4400	10.69	0.3574	0.0861	38	1.35	001.99	0
001	Ammoniacal N (%)	0532	11.20	0.1500	10.69	0.3574	0.0861	38	1.42	001.99	0
001	Ammoniacal N (%)	0451	9.735	0.5300	10.69	0.3574	0.0861	38	-2.67	001.10	1
002	Nitrate N (%)	0553	0.0150	0.0020				1		002.99	0
005	Urea N (%)	0524	0.1400	0.2400				1		005.99	0
009	Ammoniacal Plus Nitrate N (%)	0444	10.85	0.3000				2		009.10	0
009	Ammoniacal Plus Nitrate N (%)	0575	10.98	0.0030				2		009.99	0
010	Total N (%)	0422	10.12	0.0000	10.81	0.2429	0.0946	75	-2.85	010.60	0
010	Total N (%)	0023	10.17	0.0290	10.81	0.2429	0.0946	75	-2.66	010.60	0
010	Total N (%)	0086	10.19	0.1800	10.81	0.2429	0.0946	75	-2.56	010.60	0
010	Total N (%)	0494	10.29	0.2600	10.81	0.2429	0.0946	75	-2.15	010.60	0
010	Total N (%)	0102	10.36	0.4900	10.81	0.2429	0.0946	75	-1.88	010.60	0
010	Total N (%)	0534	10.40	0.0000	10.81	0.2429	0.0946	75	-1.69	010.60	0
010	Total N (%)	0524	10.46	0.0365	10.81	0.2429	0.0946	75	-1.46	010.99	0
010	Total N (%)	0472	10.48	0.0100	10.81	0.2429	0.0946	75	-1.39	010.60	0
010	Total N (%)	0485	10.51	0.2400	10.81	0.2429	0.0946	75	-1.24	010.60	0
010	Total N (%)	0501	10.52	0.2900	10.81	0.2429	0.0946	75	-1.22	010.60	0
010	Total N (%)	0360	10.52	0.0400	10.81	0.2429	0.0946	75	-1.20	010.60	0
010	Total N (%)	0423	10.55	0.1900	10.81	0.2429	0.0946	75	-1.10	010.60	0
010	Total N (%)	0587	10.56	0.0700	10.81	0.2429	0.0946	75	-1.06	010.60	0
010	Total N (%)	0073	10.56	0.0400	10.81	0.2429	0.0946	75	-1.04	010.60	0
010	Total N (%)	0035	10.60	0.2000	10.81	0.2429	0.0946	75	-0.87	010.60	0
010	Total N (%)	0390	10.63	0.0070	10.81	0.2429	0.0946	75	-0.74	010.60	0
010	Total N (%)	0307	10.65	0.1000	10.81	0.2429	0.0946	75	-0.67	010.60	0
010	Total N (%)	0292	10.66	0.0000	10.81	0.2429	0.0946	75	-0.62	010.60	0
010	Total N (%)	0451	10.66	0.0600	10.81	0.2429	0.0946	75	-0.62	010.60	0
010	Total N (%)	0389	10.67	0.0500	10.81	0.2429	0.0946	75	-0.60	010.60	0
010	Total N (%)	0231	10.67	0.0000	10.81	0.2429	0.0946	75	-0.58	010.60	0
010	Total N (%)	0255	10.67	0.1260	10.81	0.2429	0.0946	75	-0.57	010.60	0
010	Total N (%)	0136	10.68	0.0100	10.81	0.2429	0.0946	75	-0.56	010.60	0
010	Total N (%)	0029	10.70	0.3000	10.81	0.2429	0.0946	75	-0.46	010.60	0
010	Total N (%)	0325	10.71	0.0900	10.81	0.2429	0.0946	75	-0.44	010.60	0
010	Total N (%)	0356	10.74	0.0500	10.81	0.2429	0.0946	75	-0.31	010.60	0
010	Total N (%)	0563	10.76	0.2000	10.81	0.2429	0.0946	75	-0.21	010.99	0
010	Total N (%)	0034	10.77	0.0100	10.81	0.2429	0.0946	75	-0.19	010.60	0
010	Total N (%)	0055	10.77	0.0400	10.81	0.2429	0.0946	75	-0.17	010.60	0
010	Total N (%)	0521	10.77	0.1000	10.81	0.2429	0.0946	75	-0.17	010.60	0
010	Total N (%)	0561	10.78	0.0500	10.81	0.2429	0.0946	75	-0.15	010.60	0
010	Total N (%)	0593	10.79	0.0300	10.81	0.2429	0.0946	75	-0.11	010.60	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	R-bar				
010	Total N (%)	0177	10.79	0.1660	10.81	0.2429	0.0946	75	-0.08	010.60	0
010	Total N (%)	0476	10.79	0.1363	10.81	0.2429	0.0946	75	-0.07	010.99	0
010	Total N (%)	0049	10.80	0.0100	10.81	0.2429	0.0946	75	-0.07	010.60	0
010	Total N (%)	0157	10.80	0.0000	10.81	0.2429	0.0946	75	-0.05	010.60	0
010	Total N (%)	0605	10.81	0.0290	10.81	0.2429	0.0946	75	-0.02	010.99	0
010	Total N (%)	0114	10.81	0.0400	10.81	0.2429	0.0946	75	-0.01	010.60	0
010	Total N (%)	0510	10.82	0.0446	10.81	0.2429	0.0946	75	0.03	010.11	0
010	Total N (%)	0043	10.84	0.0500	10.81	0.2429	0.0946	75	0.10	010.60	0
010	Total N (%)	0560	10.84	0.0600	10.81	0.2429	0.0946	75	0.12	010.99	0
010	Total N (%)	0234	10.85	0.2000	10.81	0.2429	0.0946	75	0.16	010.60	0
010	Total N (%)	0040	10.85	0.1000	10.81	0.2429	0.0946	75	0.16	010.60	0
010	Total N (%)	0609	10.85	0.1000	10.81	0.2429	0.0946	75	0.16	010.60	0
010	Total N (%)	0095	10.86	0.0300	10.81	0.2429	0.0946	75	0.18	010.60	0
010	Total N (%)	0291	10.88	0.0100	10.81	0.2429	0.0946	75	0.26	010.60	0
010	Total N (%)	0368	10.89	0.1150	10.81	0.2429	0.0946	75	0.30	010.60	0
010	Total N (%)	0007	10.90	0.2000	10.81	0.2429	0.0946	75	0.36	010.60	0
010	Total N (%)	0405	10.91	0.0000	10.81	0.2429	0.0946	75	0.41	010.60	0
010	Total N (%)	0027	10.92	0.0300	10.81	0.2429	0.0946	75	0.43	010.60	0
010	Total N (%)	0565	10.92	0.0200	10.81	0.2429	0.0946	75	0.45	010.99	0
010	Total N (%)	0564	10.93	0.0100	10.81	0.2429	0.0946	75	0.47	010.99	0
010	Total N (%)	0580	10.94	0.2700	10.81	0.2429	0.0946	75	0.51	010.12	0
010	Total N (%)	0450	10.95	0.1000	10.81	0.2429	0.0946	75	0.57	010.60	0
010	Total N (%)	0037	10.96	0.1650	10.81	0.2429	0.0946	75	0.62	010.60	0
010	Total N (%)	0377	10.97	0.0500	10.81	0.2429	0.0946	75	0.63	010.60	0
010	Total N (%)	0575	10.98	0.0030	10.81	0.2429	0.0946	75	0.68	010.99	0
010	Total N (%)	0220	10.99	0.0100	10.81	0.2429	0.0946	75	0.71	010.60	0
010	Total N (%)	0260	11.00	0.2000	10.81	0.2429	0.0946	75	0.78	010.60	0
010	Total N (%)	0527	11.01	0.1490	10.81	0.2429	0.0946	75	0.83	010.60	0
010	Total N (%)	0600	11.03	0.1500	10.81	0.2429	0.0946	75	0.88	010.99	0
010	Total N (%)	0558	11.04	0.0869	10.81	0.2429	0.0946	75	0.94	010.99	0
010	Total N (%)	0042	11.05	0.1000	10.81	0.2429	0.0946	75	0.98	010.60	0
010	Total N (%)	0354	11.05	0.1000	10.81	0.2429	0.0946	75	0.98	010.60	0
010	Total N (%)	0444	11.05	0.1000	10.81	0.2429	0.0946	75	0.98	010.60	0
010	Total N (%)	0421	11.06	0.1100	10.81	0.2429	0.0946	75	1.00	010.60	0
010	Total N (%)	0452	11.08	0.0200	10.81	0.2429	0.0946	75	1.11	010.60	0
010	Total N (%)	0576	11.10	0.0000	10.81	0.2429	0.0946	75	1.19	010.99	0
010	Total N (%)	0551	11.13	0.0500	10.81	0.2429	0.0946	75	1.29	010.99	0
010	Total N (%)	0567	11.13	0.0500	10.81	0.2429	0.0946	75	1.29	010.99	0
010	Total N (%)	0169	11.20	0.0100	10.81	0.2429	0.0946	75	1.58	010.60	0
010	Total N (%)	0025	11.29	0.0600	10.81	0.2429	0.0946	75	1.97	010.60	0
010	Total N (%)	0394	11.74	0.0320	10.81	0.2429	0.0946	75	3.83	010.99	0
010	Total N (%)	0041	11.91	0.1400	10.81	0.2429	0.0946	75	4.52	010.60	0
010	Total N (%)	0518	12.32	0.4900	10.81	0.2429	0.0946	75	6.19	010.10	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	R-bar				
010	Total N (%)	0324	10.35	0.7000	10.81	0.2429	0.0946	75	-1.90	010.60	1
010	Total N (%)	0117	10.55	0.5449	10.81	0.2429	0.0946	75	-1.07	010.12	1
010	Total N (%)	0018	20.05	0.1000	10.81	0.2429	0.0946	75	38.04	010.60	2
020	Total P2O5 (%)	0389	46.19	0.0300	52.10	0.9019	0.2106	48	-6.56	020.50	0
020	Total P2O5 (%)	0307	47.00	0.0000	52.10	0.9019	0.2106	48	-5.66	020.50	0
020	Total P2O5 (%)	0433	48.74	0.4600	52.10	0.9019	0.2106	48	-3.73	020.50	0
020	Total P2O5 (%)	0472	49.04	0.1300	52.10	0.9019	0.2106	48	-3.40	020.50	0
020	Total P2O5 (%)	0510	49.10	0.2319	52.10	0.9019	0.2106	48	-3.33	020.20	0
020	Total P2O5 (%)	0255	49.15	0.0230	52.10	0.9019	0.2106	48	-3.27	020.50	0
020	Total P2O5 (%)	0390	49.25	0.3000	52.10	0.9019	0.2106	48	-3.17	020.50	0
020	Total P2O5 (%)	0423	51.10	0.4000	52.10	0.9019	0.2106	48	-1.11	020.50	0
020	Total P2O5 (%)	0324	51.35	0.7000	52.10	0.9019	0.2106	48	-0.84	020.20	0
020	Total P2O5 (%)	0292	51.42	0.0100	52.10	0.9019	0.2106	48	-0.76	020.20	0
020	Total P2O5 (%)	0444	51.71	0.0800	52.10	0.9019	0.2106	48	-0.44	020.50	0
020	Total P2O5 (%)	0450	51.75	0.3900	52.10	0.9019	0.2106	48	-0.40	020.50	0
020	Total P2O5 (%)	0451	51.76	0.0200	52.10	0.9019	0.2106	48	-0.38	020.50	0
020	Total P2O5 (%)	0444	51.78	0.5000	52.10	0.9019	0.2106	48	-0.36	020.10	0
020	Total P2O5 (%)	0564	51.79	0.0700	52.10	0.9019	0.2106	48	-0.35	020.99	0
020	Total P2O5 (%)	0513	51.85	0.0500	52.10	0.9019	0.2106	48	-0.29	020.99	0
020	Total P2O5 (%)	0565	51.88	0.0600	52.10	0.9019	0.2106	48	-0.25	020.99	0
020	Total P2O5 (%)	0560	51.89	0.0500	52.10	0.9019	0.2106	48	-0.24	020.99	0
020	Total P2O5 (%)	0027	51.97	0.1200	52.10	0.9019	0.2106	48	-0.15	020.20	0
020	Total P2O5 (%)	0580	52.01	0.0000	52.10	0.9019	0.2106	48	-0.10	020.20	0
020	Total P2O5 (%)	0575	52.01	0.4580	52.10	0.9019	0.2106	48	-0.10	020.20	0
020	Total P2O5 (%)	0600	52.03	0.1500	52.10	0.9019	0.2106	48	-0.09	020.99	0
020	Total P2O5 (%)	0581	52.08	0.0000	52.10	0.9019	0.2106	48	-0.03	020.20	0
020	Total P2O5 (%)	0586	52.12	0.0000	52.10	0.9019	0.2106	48	0.02	020.40	0
020	Total P2O5 (%)	0368	52.24	0.1984	52.10	0.9019	0.2106	48	0.15	020.50	0
020	Total P2O5 (%)	0570	52.29	0.3100	52.10	0.9019	0.2106	48	0.20	020.10	0
020	Total P2O5 (%)	0231	52.32	0.0400	52.10	0.9019	0.2106	48	0.24	020.20	0
020	Total P2O5 (%)	0405	52.35	0.1700	52.10	0.9019	0.2106	48	0.27	020.20	0
020	Total P2O5 (%)	0593	52.35	0.2300	52.10	0.9019	0.2106	48	0.27	020.20	0
020	Total P2O5 (%)	0527	52.37	0.2027	52.10	0.9019	0.2106	48	0.30	020.50	0
020	Total P2O5 (%)	0220	52.38	0.0300	52.10	0.9019	0.2106	48	0.30	020.20	0
020	Total P2O5 (%)	0587	52.38	0.1600	52.10	0.9019	0.2106	48	0.31	020.99	0
020	Total P2O5 (%)	0561	52.41	0.1000	52.10	0.9019	0.2106	48	0.34	020.20	0
020	Total P2O5 (%)	0035	52.46	0.1500	52.10	0.9019	0.2106	48	0.39	020.40	0
020	Total P2O5 (%)	0524	52.47	0.1514	52.10	0.9019	0.2106	48	0.41	020.50	0
020	Total P2O5 (%)	0582	52.50	0.1000	52.10	0.9019	0.2106	48	0.44	020.20	0
020	Total P2O5 (%)	0291	52.51	0.0100	52.10	0.9019	0.2106	48	0.44	020.50	0
020	Total P2O5 (%)	0169	52.54	0.0400	52.10	0.9019	0.2106	48	0.48	020.20	0
020	Total P2O5 (%)	0096	52.60	0.3700	52.10	0.9019	0.2106	48	0.54	020.40	0
020	Total P2O5 (%)	0534	52.60	0.0400	52.10	0.9019	0.2106	48	0.55	020.20	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	R-bar				
020	Total P2O5 (%)	0521	52.80	0.0000	52.10	0.9019	0.2106	48	0.77	020.50	0
020	Total P2O5 (%)	0609	53.00	0.0400	52.10	0.9019	0.2106	48	0.99	020.20	0
020	Total P2O5 (%)	0234	53.68	0.4000	52.10	0.9019	0.2106	48	1.75	020.50	0
020	Total P2O5 (%)	0356	53.85	0.8410	52.10	0.9019	0.2106	48	1.94	020.20	0
020	Total P2O5 (%)	0476	54.93	0.1974	52.10	0.9019	0.2106	48	3.13	020.99	0
020	Total P2O5 (%)	0576	55.15	0.3000	52.10	0.9019	0.2106	48	3.38	020.99	0
020	Total P2O5 (%)	0422	55.68	0.3667	52.10	0.9019	0.2106	48	3.97	020.50	0
020	Total P2O5 (%)	0563	59.44	1.430	52.10	0.9019	0.2106	48	8.13	020.20	0
020	Total P2O5 (%)	0260	53.20	2.400	52.10	0.9019	0.2106	48	1.21	020.50	1
020	Total P2O5 (%)	0515	55.80	2.370	52.10	0.9019	0.2106	48	4.09	020.99	1
030	Citrate Insoluble P2O5 (%)	0405	0.3450	0.0100	0.6258	0.2549	0.1217	6	-0.98	030.20	0
030	Citrate Insoluble P2O5 (%)	0096	0.4550	0.1700	0.6258	0.2549	0.1217	6	-0.60	030.40	0
030	Citrate Insoluble P2O5 (%)	0593	0.5750	0.3300	0.6258	0.2549	0.1217	6	-0.18	030.99	0
030	Citrate Insoluble P2O5 (%)	0582	0.6200	0.0600	0.6258	0.2549	0.1217	6	-0.02	030.50	0
030	Citrate Insoluble P2O5 (%)	0220	0.8000	0.0400	0.6258	0.2549	0.1217	6	0.61	030.20	0
030	Citrate Insoluble P2O5 (%)	0586	0.9600	0.1200	0.6258	0.2549	0.1217	6	1.17	030.40	0
030	Citrate Insoluble P2O5 (%)	0444	48.18	0.1500	0.6258	0.2549	0.1217	6	166.14	030.10	2
040	Indirect Available P2O5 (%)	0586	51.16	0.1200	51.80	0.3021	0.1928	7	-1.92	040.40	0
040	Indirect Available P2O5 (%)	0220	51.58	0.0100	51.80	0.3021	0.1928	7	-0.68	040.20	0
040	Indirect Available P2O5 (%)	0593	51.78	0.5500	51.80	0.3021	0.1928	7	-0.08	040.99	0
040	Indirect Available P2O5 (%)	0582	51.89	0.1500	51.80	0.3021	0.1928	7	0.25	040.99	0
040	Indirect Available P2O5 (%)	0558	51.89	0.1393	51.80	0.3021	0.1928	7	0.27	040.20	0
040	Indirect Available P2O5 (%)	0405	52.00	0.1800	51.80	0.3021	0.1928	7	0.59	040.99	0
040	Indirect Available P2O5 (%)	0096	52.14	0.2000	51.80	0.3021	0.1928	7	1.01	040.40	0
041	Direct Available P2O5 (%)	0423	49.18	0.2000	51.74	0.9101	0.3866	47	-2.81	041.51	0
041	Direct Available P2O5 (%)	0025	49.75	0.7000	51.74	0.9101	0.3866	47	-2.19	041.51	0
041	Direct Available P2O5 (%)	0117	50.13	0.0554	51.74	0.9101	0.3866	47	-1.77	041.51	0
041	Direct Available P2O5 (%)	0394	50.20	0.0210	51.74	0.9101	0.3866	47	-1.69	041.21	0
041	Direct Available P2O5 (%)	0055	50.34	0.4500	51.74	0.9101	0.3866	47	-1.54	041.21	0
041	Direct Available P2O5 (%)	0055	50.44	0.0500	51.74	0.9101	0.3866	47	-1.43	041.11	0
041	Direct Available P2O5 (%)	0073	50.64	0.5000	51.74	0.9101	0.3866	47	-1.21	041.11	0
041	Direct Available P2O5 (%)	0421	50.65	1.700	51.74	0.9101	0.3866	47	-1.20	041.50	0
041	Direct Available P2O5 (%)	0485	50.70	0.8800	51.74	0.9101	0.3866	47	-1.14	041.11	0
041	Direct Available P2O5 (%)	0231	50.76	0.0000	51.74	0.9101	0.3866	47	-1.08	041.21	0
041	Direct Available P2O5 (%)	0177	51.25	0.1891	51.74	0.9101	0.3866	47	-0.54	041.10	0
041	Direct Available P2O5 (%)	0177	51.34	0.1077	51.74	0.9101	0.3866	47	-0.44	041.21	0
041	Direct Available P2O5 (%)	0472	51.36	0.1300	51.74	0.9101	0.3866	47	-0.42	041.21	0
041	Direct Available P2O5 (%)	0007	51.45	1.500	51.74	0.9101	0.3866	47	-0.32	041.50	0
041	Direct Available P2O5 (%)	0220	51.50	0.0700	51.74	0.9101	0.3866	47	-0.27	041.11	0
041	Direct Available P2O5 (%)	0377	51.60	0.4100	51.74	0.9101	0.3866	47	-0.16	041.51	0
041	Direct Available P2O5 (%)	0605	51.62	0.2500	51.74	0.9101	0.3866	47	-0.14	041.50	0
041	Direct Available P2O5 (%)	0513	51.69	0.0400	51.74	0.9101	0.3866	47	-0.05	041.11	0
041	Direct Available P2O5 (%)	0532	51.69	0.1000	51.74	0.9101	0.3866	47	-0.05	041.99	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	R-bar				
041	Direct Available P2O5 (%)	0040	51.75	0.1000	51.74	0.9101	0.3866	47	0.01	041.10	0
041	Direct Available P2O5 (%)	0494	51.83	1.230	51.74	0.9101	0.3866	47	0.09	041.51	0
041	Direct Available P2O5 (%)	0569	51.87	0.2400	51.74	0.9101	0.3866	47	0.14	041.99	0
041	Direct Available P2O5 (%)	0551	51.88	0.0500	51.74	0.9101	0.3866	47	0.15	041.99	0
041	Direct Available P2O5 (%)	0567	51.88	0.0500	51.74	0.9101	0.3866	47	0.15	041.99	0
041	Direct Available P2O5 (%)	0360	51.89	0.1200	51.74	0.9101	0.3866	47	0.16	041.51	0
041	Direct Available P2O5 (%)	0136	51.90	1.530	51.74	0.9101	0.3866	47	0.17	041.51	0
041	Direct Available P2O5 (%)	0325	51.90	0.4000	51.74	0.9101	0.3866	47	0.18	041.50	0
041	Direct Available P2O5 (%)	0600	51.93	0.1500	51.74	0.9101	0.3866	47	0.20	041.99	0
041	Direct Available P2O5 (%)	0027	51.93	0.8400	51.74	0.9101	0.3866	47	0.21	041.20	0
041	Direct Available P2O5 (%)	0562	51.95	0.1000	51.74	0.9101	0.3866	47	0.23	041.99	0
041	Direct Available P2O5 (%)	0549	51.97	0.2300	51.74	0.9101	0.3866	47	0.25	041.99	0
041	Direct Available P2O5 (%)	0538	52.00	0.0900	51.74	0.9101	0.3866	47	0.28	041.99	0
041	Direct Available P2O5 (%)	0095	52.02	0.7400	51.74	0.9101	0.3866	47	0.31	041.11	0
041	Direct Available P2O5 (%)	0452	52.09	0.0600	51.74	0.9101	0.3866	47	0.38	041.20	0
041	Direct Available P2O5 (%)	0018	52.10	0.0000	51.74	0.9101	0.3866	47	0.40	041.40	0
041	Direct Available P2O5 (%)	0029	52.14	0.2300	51.74	0.9101	0.3866	47	0.43	041.40	0
041	Direct Available P2O5 (%)	0043	52.26	0.4300	51.74	0.9101	0.3866	47	0.57	041.51	0
041	Direct Available P2O5 (%)	0034	52.27	0.0000	51.74	0.9101	0.3866	47	0.58	041.40	0
041	Direct Available P2O5 (%)	0037	52.30	0.0290	51.74	0.9101	0.3866	47	0.61	041.51	0
041	Direct Available P2O5 (%)	0609	52.40	0.1100	51.74	0.9101	0.3866	47	0.72	041.21	0
041	Direct Available P2O5 (%)	0102	52.85	0.3400	51.74	0.9101	0.3866	47	1.22	041.10	0
041	Direct Available P2O5 (%)	0518	52.88	0.6400	51.74	0.9101	0.3866	47	1.25	041.10	0
041	Direct Available P2O5 (%)	0577	52.95	0.5500	51.74	0.9101	0.3866	47	1.32	041.99	0
041	Direct Available P2O5 (%)	0023	53.05	0.7000	51.74	0.9101	0.3866	47	1.44	041.51	0
041	Direct Available P2O5 (%)	0354	53.30	0.2000	51.74	0.9101	0.3866	47	1.71	041.21	0
041	Direct Available P2O5 (%)	0494	53.77	1.360	51.74	0.9101	0.3866	47	2.23	041.10	0
041	Direct Available P2O5 (%)	0553	53.85	0.3000	51.74	0.9101	0.3866	47	2.32	041.20	0
048	Water Soluble P2O5 (%)	0472	43.33	0.5600	45.84	1.337	0.2725	8	-1.72	048.20	0
048	Water Soluble P2O5 (%)	0570	44.66	0.0500	45.84	1.337	0.2725	8	-0.81	048.10	0
048	Water Soluble P2O5 (%)	0513	45.78	0.0700	45.84	1.337	0.2725	8	-0.05	048.99	0
048	Water Soluble P2O5 (%)	0096	45.85	0.1200	45.84	1.337	0.2725	8	0.01	048.40	0
048	Water Soluble P2O5 (%)	0593	46.01	0.4600	45.84	1.337	0.2725	8	0.11	048.20	0
048	Water Soluble P2O5 (%)	0220	46.13	0.0800	45.84	1.337	0.2725	8	0.20	048.20	0
048	Water Soluble P2O5 (%)	0444	46.87	0.1400	45.84	1.337	0.2725	8	0.70	048.10	0
048	Water Soluble P2O5 (%)	0444	47.61	0.7000	45.84	1.337	0.2725	8	1.21	048.50	0
050	Soluble K2O (%)	0553	0.0735	0.0030	0.1929	0.0227	0.0035	7	-4.76	050.99	0
050	Soluble K2O (%)	0423	0.1780	0.0040	0.1929	0.0227	0.0035	7	-0.59	050.52	0
050	Soluble K2O (%)	0527	0.1868	0.0040	0.1929	0.0227	0.0035	7	-0.24	050.99	0
050	Soluble K2O (%)	0354	0.1995	0.0110	0.1929	0.0227	0.0035	7	0.26	050.52	0
050	Soluble K2O (%)	0389	0.2000	0.0000	0.1929	0.0227	0.0035	7	0.28	050.99	0
050	Soluble K2O (%)	0422	0.2095	0.0008	0.1929	0.0227	0.0035	7	0.66	050.50	0
050	Soluble K2O (%)	0524	0.2177	0.0017	0.1929	0.0227	0.0035	7	0.99	050.99	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	R-bar				
050	Soluble K2O (%)	0325	< 0.1		0.1929	0.0227	0.0035	7		050.99	5
060	Water (Free) (%)	0513	0.3950	0.0100	1.165	0.6708	0.0606	3	-1.15	060.00	0
060	Water (Free) (%)	0510	1.474	0.0619	1.165	0.6708	0.0606	3	0.46	060.99	0
060	Water (Free) (%)	0593	1.625	0.1100	1.165	0.6708	0.0606	3	0.69	060.30	0
101	Acid Soluble Ca (%)	0553	0.0130	0.0000	0.1315	0.0512	0.0098	9	-2.14	101.00	0
101	Acid Soluble Ca (%)	0527	0.0692	0.0042	0.1315	0.0512	0.0098	9	-1.12	101.33	0
101	Acid Soluble Ca (%)	0389	0.1150	0.0100	0.1315	0.0512	0.0098	9	-0.30	101.99	0
101	Acid Soluble Ca (%)	0035	0.1360	0.0200	0.1315	0.0512	0.0098	9	0.08	101.30	0
101	Acid Soluble Ca (%)	0494	0.1419	0.0020	0.1315	0.0512	0.0098	9	0.19	101.33	0
101	Acid Soluble Ca (%)	0423	0.1420	0.0020	0.1315	0.0512	0.0098	9	0.19	101.32	0
101	Acid Soluble Ca (%)	0472	0.1650	0.0300	0.1315	0.0512	0.0098	9	0.60	101.33	0
101	Acid Soluble Ca (%)	0354	0.1700	0.0000	0.1315	0.0512	0.0098	9	0.69	101.30	0
101	Acid Soluble Ca (%)	0593	0.1900	0.0200	0.1315	0.0512	0.0098	9	1.05	101.99	0
121	Acid Soluble Mg (%)	0524	0.7844	0.0002	0.8674	0.0595	0.0082	11	-1.39	121.99	0
121	Acid Soluble Mg (%)	0035	0.8175	0.0310	0.8674	0.0595	0.0082	11	-0.84	121.30	0
121	Acid Soluble Mg (%)	0515	0.8245	0.0057	0.8674	0.0595	0.0082	11	-0.72	121.33	0
121	Acid Soluble Mg (%)	0515	0.8321	0.0103	0.8674	0.0595	0.0082	11	-0.59	121.99	0
121	Acid Soluble Mg (%)	0494	0.8616	0.0118	0.8674	0.0595	0.0082	11	-0.10	121.33	0
121	Acid Soluble Mg (%)	0423	0.8625	0.0030	0.8674	0.0595	0.0082	11	-0.08	121.32	0
121	Acid Soluble Mg (%)	0354	0.8700	0.0200	0.8674	0.0595	0.0082	11	0.04	121.30	0
121	Acid Soluble Mg (%)	0389	0.8900	0.0000	0.8674	0.0595	0.0082	11	0.38	121.99	0
121	Acid Soluble Mg (%)	0593	0.9000	0.0000	0.8674	0.0595	0.0082	11	0.55	121.99	0
121	Acid Soluble Mg (%)	0527	0.9487	0.0077	0.8674	0.0595	0.0082	11	1.37	121.33	0
121	Acid Soluble Mg (%)	0472	0.9500	0.0000	0.8674	0.0595	0.0082	11	1.39	121.33	0
121	Acid Soluble Mg (%)	0553	0.5110	0.8480	0.8674	0.0595	0.0082	11	-5.99	121.00	1
143	Elemental S (%)	0389	1.345	0.0100				1		143.99	0
145	Sulfate S, HCl soluble (%)	0553	1.535	0.0100	3.327	1.554	0.1533	3	-1.15	145.99	0
145	Sulfate S, HCl soluble (%)	0593	4.130	0.3400	3.327	1.554	0.1533	3	0.52	145.99	0
145	Sulfate S, HCl soluble (%)	0582	4.315	0.1100	3.327	1.554	0.1533	3	0.64	145.99	0
148	Total S (%)	0515	0.8660	0.0166	1.236	0.2524	0.0423	8	-1.34	148.07	0
148	Total S (%)	0527	0.9066	0.0013	1.236	0.2524	0.0423	8	-1.19	148.07	0
148	Total S (%)	0422	1.231	0.0310	1.236	0.2524	0.0423	8	-0.02	148.99	0
148	Total S (%)	0472	1.340	0.0200	1.236	0.2524	0.0423	8	0.38	148.07	0
148	Total S (%)	0354	1.375	0.0500	1.236	0.2524	0.0423	8	0.50	148.99	0
148	Total S (%)	0593	1.380	0.1200	1.236	0.2524	0.0423	8	0.52	148.00	0
148	Total S (%)	0494	1.395	0.0296	1.236	0.2524	0.0423	8	0.58	148.07	0
148	Total S (%)	0043	1.395	0.0700	1.236	0.2524	0.0423	8	0.58	148.07	0
149	S - HNO3 soluble (%)	0524	1.393	0.0191				2		149.04	0
149	S - HNO3 soluble (%)	0423	1.435	0.0300				2		149.04	0
151	Acid Soluble As (ppm)	0593	5.290	0.4600	15.86	5.100	0.9118	19	-2.07	151.30	0
151	Acid Soluble As (ppm)	0220	8.200	0.2000	15.86	5.100	0.9118	19	-1.50	151.32	0
151	Acid Soluble As (ppm)	0220	9.050	0.1000	15.86	5.100	0.9118	19	-1.33	151.99	0
151	Acid Soluble As (ppm)	0096	10.65	1.500	15.86	5.100	0.9118	19	-1.02	151.30	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	R-bar				
151	Acid Soluble As (ppm)	0368	11.60	1.800	15.86	5.100	0.9118	19	-0.83	151.34	0
151	Acid Soluble As (ppm)	0605	13.56	0.4300	15.86	5.100	0.9118	19	-0.45	151.30	0
151	Acid Soluble As (ppm)	0037	15.36	0.2220	15.86	5.100	0.9118	19	-0.10	151.33	0
151	Acid Soluble As (ppm)	0586	16.25	0.5000	15.86	5.100	0.9118	19	0.08	151.30	0
151	Acid Soluble As (ppm)	0450	16.30	1.400	15.86	5.100	0.9118	19	0.09	151.30	0
151	Acid Soluble As (ppm)	0405	16.50	1.000	15.86	5.100	0.9118	19	0.13	151.32	0
151	Acid Soluble As (ppm)	0136	16.99	0.2000	15.86	5.100	0.9118	19	0.22	151.33	0
151	Acid Soluble As (ppm)	0524	18.22	0.0672	15.86	5.100	0.9118	19	0.46	151.30	0
151	Acid Soluble As (ppm)	0582	18.30	0.2000	15.86	5.100	0.9118	19	0.48	151.30	0
151	Acid Soluble As (ppm)	0027	18.50	1.000	15.86	5.100	0.9118	19	0.52	151.30	0
151	Acid Soluble As (ppm)	0527	19.21	0.0999	15.86	5.100	0.9118	19	0.66	151.33	0
151	Acid Soluble As (ppm)	0513	19.75	0.1000	15.86	5.100	0.9118	19	0.76	151.30	0
151	Acid Soluble As (ppm)	0515	20.40	6.590	15.86	5.100	0.9118	19	0.89	151.34	0
151	Acid Soluble As (ppm)	0563	20.74	0.1553	15.86	5.100	0.9118	19	0.96	151.33	0
151	Acid Soluble As (ppm)	0494	45.65	1.300	15.86	5.100	0.9118	19	5.84	151.33	0
151	Acid Soluble As (ppm)	0515	21.32	8.400	15.86	5.100	0.9118	19	1.07	151.33	1
151	Acid Soluble As (ppm)	0255	0.0000	0.0000	15.86	5.100	0.9118	19		151.30	4
165	Acid Soluble B (%)	0515	0.0031	0.0040	0.0113	0.0078	0.0013	9	-0.97	165.99	0
165	Acid Soluble B (%)	0593	0.0043	0.0003	0.0113	0.0078	0.0013	9	-0.84	165.99	0
165	Acid Soluble B (%)	0524	0.0059	0.0004	0.0113	0.0078	0.0013	9	-0.64	165.99	0
165	Acid Soluble B (%)	0494	0.0063	0.0008	0.0113	0.0078	0.0013	9	-0.59	165.30	0
165	Acid Soluble B (%)	0553	0.0115	0.0010	0.0113	0.0078	0.0013	9	0.03	165.00	0
165	Acid Soluble B (%)	0600	0.0120	0.0020	0.0113	0.0078	0.0013	9	0.09	165.99	0
165	Acid Soluble B (%)	0389	0.0185	0.0028	0.0113	0.0078	0.0013	9	0.86	165.30	0
165	Acid Soluble B (%)	0354	0.0200	0.0000	0.0113	0.0078	0.0013	9	1.04	165.30	0
165	Acid Soluble B (%)	0472	0.0200	0.0000	0.0113	0.0078	0.0013	9	1.04	165.99	0
165	Acid Soluble B (%)	0423	70.79	1.110	0.0113	0.0078	0.0013	9	8416.14	165.99	2
165	Acid Soluble B (%)	0527	< 0.01		0.0113	0.0078	0.0013	9		165.99	5
181	Acid Soluble Cd (ppm)	0096	2.600	0.0000	4.518	0.5265	0.1776	21	-3.64	181.30	0
181	Acid Soluble Cd (ppm)	0444	3.695	0.3900	4.518	0.5265	0.1776	21	-1.56	181.30	0
181	Acid Soluble Cd (ppm)	0534	3.770	0.0000	4.518	0.5265	0.1776	21	-1.42	181.00	0
181	Acid Soluble Cd (ppm)	0494	4.070	0.0400	4.518	0.5265	0.1776	21	-0.85	181.33	0
181	Acid Soluble Cd (ppm)	0389	4.165	0.0300	4.518	0.5265	0.1776	21	-0.67	181.30	0
181	Acid Soluble Cd (ppm)	0524	4.272	0.1864	4.518	0.5265	0.1776	21	-0.47	181.30	0
181	Acid Soluble Cd (ppm)	0605	4.313	0.8050	4.518	0.5265	0.1776	21	-0.39	181.30	0
181	Acid Soluble Cd (ppm)	0527	4.443	0.2303	4.518	0.5265	0.1776	21	-0.14	181.33	0
181	Acid Soluble Cd (ppm)	0035	4.470	0.6400	4.518	0.5265	0.1776	21	-0.09	181.30	0
181	Acid Soluble Cd (ppm)	0037	4.518	0.0030	4.518	0.5265	0.1776	21	0.00	181.33	0
181	Acid Soluble Cd (ppm)	0394	4.550	0.1000	4.518	0.5265	0.1776	21	0.06	181.30	0
181	Acid Soluble Cd (ppm)	0136	4.565	0.0500	4.518	0.5265	0.1776	21	0.09	181.33	0
181	Acid Soluble Cd (ppm)	0220	4.600	0.2000	4.518	0.5265	0.1776	21	0.16	181.32	0
181	Acid Soluble Cd (ppm)	0220	4.650	0.1000	4.518	0.5265	0.1776	21	0.25	181.99	0
181	Acid Soluble Cd (ppm)	0255	4.671	0.4400	4.518	0.5265	0.1776	21	0.29	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	R-bar				
181	Acid Soluble Cd (ppm)	0586	4.750	0.5000	4.518	0.5265	0.1776	21	0.44	181.30	0
181	Acid Soluble Cd (ppm)	0368	4.900	0.0000	4.518	0.5265	0.1776	21	0.73	181.34	0
181	Acid Soluble Cd (ppm)	0405	5.000	0.0000	4.518	0.5265	0.1776	21	0.92	181.32	0
181	Acid Soluble Cd (ppm)	0563	5.102	0.0150	4.518	0.5265	0.1776	21	1.11	181.33	0
181	Acid Soluble Cd (ppm)	0513	6.600	0.0000	4.518	0.5265	0.1776	21	3.95	181.30	0
181	Acid Soluble Cd (ppm)	0450	22.00	0.0000	4.518	0.5265	0.1776	21	33.20	181.30	0
181	Acid Soluble Cd (ppm)	0593	42.20	1.200	4.518	0.5265	0.1776	21	71.57	181.30	1
191	Acid Soluble Cr (ppm)	0136	86.75	3.930	99.79	9.045	3.638	21	-1.44	191.33	0
191	Acid Soluble Cr (ppm)	0444	89.57	0.2000	99.79	9.045	3.638	21	-1.13	191.30	0
191	Acid Soluble Cr (ppm)	0394	90.50	1.000	99.79	9.045	3.638	21	-1.03	191.30	0
191	Acid Soluble Cr (ppm)	0605	92.69	6.150	99.79	9.045	3.638	21	-0.79	191.30	0
191	Acid Soluble Cr (ppm)	0563	93.03	0.5372	99.79	9.045	3.638	21	-0.75	191.33	0
191	Acid Soluble Cr (ppm)	0035	93.20	8.000	99.79	9.045	3.638	21	-0.73	191.30	0
191	Acid Soluble Cr (ppm)	0027	94.00	6.000	99.79	9.045	3.638	21	-0.64	191.30	0
191	Acid Soluble Cr (ppm)	0524	95.71	5.065	99.79	9.045	3.638	21	-0.45	191.30	0
191	Acid Soluble Cr (ppm)	0037	96.56	0.2850	99.79	9.045	3.638	21	-0.36	191.33	0
191	Acid Soluble Cr (ppm)	0494	96.83	8.667	99.79	9.045	3.638	21	-0.33	191.33	0
191	Acid Soluble Cr (ppm)	0405	100.0	2.000	99.79	9.045	3.638	21	0.02	191.32	0
191	Acid Soluble Cr (ppm)	0220	101.5	1.000	99.79	9.045	3.638	21	0.19	191.32	0
191	Acid Soluble Cr (ppm)	0389	102.2	0.0200	99.79	9.045	3.638	21	0.27	191.30	0
191	Acid Soluble Cr (ppm)	0515	102.4	8.650	99.79	9.045	3.638	21	0.29	191.34	0
191	Acid Soluble Cr (ppm)	0368	102.5	1.000	99.79	9.045	3.638	21	0.30	191.34	0
191	Acid Soluble Cr (ppm)	0527	104.1	0.5836	99.79	9.045	3.638	21	0.48	191.33	0
191	Acid Soluble Cr (ppm)	0220	105.5	3.000	99.79	9.045	3.638	21	0.63	191.99	0
191	Acid Soluble Cr (ppm)	0586	108.5	3.000	99.79	9.045	3.638	21	0.96	191.30	0
191	Acid Soluble Cr (ppm)	0515	113.9	15.00	99.79	9.045	3.638	21	1.56	191.33	0
191	Acid Soluble Cr (ppm)	0450	115.0	2.000	99.79	9.045	3.638	21	1.68	191.30	0
191	Acid Soluble Cr (ppm)	0513	125.2	0.3000	99.79	9.045	3.638	21	2.80	191.30	0
191	Acid Soluble Cr (ppm)	0593	218.0	4.000	99.79	9.045	3.638	21	13.07	191.30	2
202	Acid Soluble Co (ppm)	0593	1.380	0.0600	3.064	0.6509	0.1842	17	-2.59	202.30	0
202	Acid Soluble Co (ppm)	0586	1.500	1.000	3.064	0.6509	0.1842	17	-2.40	202.30	0
202	Acid Soluble Co (ppm)	0389	2.225	0.0500	3.064	0.6509	0.1842	17	-1.29	202.30	0
202	Acid Soluble Co (ppm)	0450	2.700	0.0000	3.064	0.6509	0.1842	17	-0.56	202.30	0
202	Acid Soluble Co (ppm)	0136	2.705	0.2100	3.064	0.6509	0.1842	17	-0.55	202.33	0
202	Acid Soluble Co (ppm)	0563	2.924	0.1011	3.064	0.6509	0.1842	17	-0.22	202.33	0
202	Acid Soluble Co (ppm)	0527	2.934	0.0875	3.064	0.6509	0.1842	17	-0.20	202.33	0
202	Acid Soluble Co (ppm)	0405	3.000	0.0000	3.064	0.6509	0.1842	17	-0.10	202.32	0
202	Acid Soluble Co (ppm)	0423	3.195	0.0100	3.064	0.6509	0.1842	17	0.20	202.32	0
202	Acid Soluble Co (ppm)	0494	3.215	0.0500	3.064	0.6509	0.1842	17	0.23	202.33	0
202	Acid Soluble Co (ppm)	0605	3.275	0.5300	3.064	0.6509	0.1842	17	0.32	202.30	0
202	Acid Soluble Co (ppm)	0220	3.300	0.0000	3.064	0.6509	0.1842	17	0.36	202.32	0
202	Acid Soluble Co (ppm)	0220	3.450	0.1000	3.064	0.6509	0.1842	17	0.59	202.99	0
202	Acid Soluble Co (ppm)	0368	3.500	0.6000	3.064	0.6509	0.1842	17	0.67	202.34	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	R-bar				
202	Acid Soluble Co (ppm)	0037	3.567	0.0180	3.064	0.6509	0.1842	17	0.77	202.33	0
202	Acid Soluble Co (ppm)	0035	3.885	0.3100	3.064	0.6509	0.1842	17	1.26	202.30	0
202	Acid Soluble Co (ppm)	0524	4.199	0.0044	3.064	0.6509	0.1842	17	1.74	202.30	0
202	Acid Soluble Co (ppm)	0255	17.26	11.09	3.064	0.6509	0.1842	17	21.80	202.99	2
221	Acid Soluble Cu (%)	0368	0.0001	0.0000	0.0010	0.0010	0.0001	6	-0.90	221.99	0
221	Acid Soluble Cu (%)	0586	0.0003	0.0002	0.0010	0.0010	0.0001	6	-0.71	221.99	0
221	Acid Soluble Cu (%)	0600	0.0008	0.0002	0.0010	0.0010	0.0001	6	-0.22	221.99	0
221	Acid Soluble Cu (%)	0593	0.0009	0.0001	0.0010	0.0010	0.0001	6	-0.17	221.99	0
221	Acid Soluble Cu (%)	0515	0.0016	0.0001	0.0010	0.0010	0.0001	6	0.50	221.33	0
221	Acid Soluble Cu (%)	0515	0.0029	0.0001	0.0010	0.0010	0.0001	6	1.76	221.99	0
221	Acid Soluble Cu (%)	0255	0.0000	0.0000	0.0010	0.0010	0.0001	6		221.30	4
221	Acid Soluble Cu (%)	0527	< 0.0001		0.0010	0.0010	0.0001	6		221.33	5
221	Acid Soluble Cu (%)	0394	< 0.0002		0.0010	0.0010	0.0001	6		221.32	5
221	Acid Soluble Cu (%)	0405	< 0.0002		0.0010	0.0010	0.0001	6		221.32	5
221	Acid Soluble Cu (%)	0136	< 0.0002		0.0010	0.0010	0.0001	6		221.33	5
221	Acid Soluble Cu (%)	0494	< 0.0002		0.0010	0.0010	0.0001	6		221.33	5
221	Acid Soluble Cu (%)	0553	< 0.005		0.0010	0.0010	0.0001	6		221.00	5
221	Acid Soluble Cu (%)	0354	< 0.01		0.0010	0.0010	0.0001	6		221.30	5
221	Acid Soluble Cu (%)	0534	< 2		0.0010	0.0010	0.0001	6		221.03	5
241	Acid Soluble Fe (%)	0515	1.143	0.0927	1.195	0.0444	0.0231	13	-1.19	241.99	0
241	Acid Soluble Fe (%)	0553	1.155	0.0100	1.195	0.0444	0.0231	13	-0.91	241.00	0
241	Acid Soluble Fe (%)	0472	1.155	0.0100	1.195	0.0444	0.0231	13	-0.91	241.33	0
241	Acid Soluble Fe (%)	0494	1.156	0.0413	1.195	0.0444	0.0231	13	-0.88	241.33	0
241	Acid Soluble Fe (%)	0354	1.170	0.0200	1.195	0.0444	0.0231	13	-0.57	241.30	0
241	Acid Soluble Fe (%)	0035	1.185	0.0100	1.195	0.0444	0.0231	13	-0.23	241.30	0
241	Acid Soluble Fe (%)	0593	1.190	0.0000	1.195	0.0444	0.0231	13	-0.12	241.99	0
241	Acid Soluble Fe (%)	0515	1.204	0.0005	1.195	0.0444	0.0231	13	0.19	241.33	0
241	Acid Soluble Fe (%)	0527	1.215	0.0057	1.195	0.0444	0.0231	13	0.44	241.33	0
241	Acid Soluble Fe (%)	0423	1.217	0.0070	1.195	0.0444	0.0231	13	0.48	241.32	0
241	Acid Soluble Fe (%)	0524	1.237	0.0006	1.195	0.0444	0.0231	13	0.95	241.99	0
241	Acid Soluble Fe (%)	0389	1.250	0.0000	1.195	0.0444	0.0231	13	1.23	241.99	0
241	Acid Soluble Fe (%)	0600	1.401	0.1020	1.195	0.0444	0.0231	13	4.64	241.99	0
251	Acid Soluble Pb (ppm)	0389	0.1600	0.0000	2.899	3.855	0.2404	11	-0.71	251.30	0
251	Acid Soluble Pb (ppm)	0593	0.3160	0.0080	2.899	3.855	0.2404	11	-0.67	251.30	0
251	Acid Soluble Pb (ppm)	0394	0.7300	0.1200	2.899	3.855	0.2404	11	-0.56	251.30	0
251	Acid Soluble Pb (ppm)	0524	0.7357	0.0523	2.899	3.855	0.2404	11	-0.56	251.30	0
251	Acid Soluble Pb (ppm)	0450	0.9500	0.3000	2.899	3.855	0.2404	11	-0.51	251.30	0
251	Acid Soluble Pb (ppm)	0563	1.016	0.0007	2.899	3.855	0.2404	11	-0.49	251.33	0
251	Acid Soluble Pb (ppm)	0527	1.061	0.0637	2.899	3.855	0.2404	11	-0.48	251.33	0
251	Acid Soluble Pb (ppm)	0035	2.620	0.8600	2.899	3.855	0.2404	11	-0.07	251.30	0
251	Acid Soluble Pb (ppm)	0220	7.950	0.1000	2.899	3.855	0.2404	11	1.31	251.32	0
251	Acid Soluble Pb (ppm)	0220	8.150	0.1000	2.899	3.855	0.2404	11	1.36	251.99	0
251	Acid Soluble Pb (ppm)	0494	8.200	1.040	2.899	3.855	0.2404	11	1.38	251.33	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	R-bar				
251	Acid Soluble Pb (ppm)	0515	2.528	4.666	2.899	3.855	0.2404	11	-0.10	251.33	1
251	Acid Soluble Pb (ppm)	0255	0.0000	0.0000	2.899	3.855	0.2404	11		251.30	4
251	Acid Soluble Pb (ppm)	0368	< 0.6		2.899	3.855	0.2404	11		251.34	5
251	Acid Soluble Pb (ppm)	0586	< 1.2		2.899	3.855	0.2404	11		251.30	5
251	Acid Soluble Pb (ppm)	0534	< 2		2.899	3.855	0.2404	11		251.00	5
251	Acid Soluble Pb (ppm)	0136	< 3		2.899	3.855	0.2404	11		251.33	5
251	Acid Soluble Pb (ppm)	0405	< 4		2.899	3.855	0.2404	11		251.32	5
251	Acid Soluble Pb (ppm)	0605	< 5		2.899	3.855	0.2404	11		251.30	5
261	Acid Soluble Mn (%)	0593	0.0190	0.0008	0.0318	0.0057	0.0006	10	-2.08	261.99	0
261	Acid Soluble Mn (%)	0600	0.0215	0.0010	0.0318	0.0057	0.0006	10	-1.67	261.99	0
261	Acid Soluble Mn (%)	0354	0.0300	0.0000	0.0318	0.0057	0.0006	10	-0.30	261.30	0
261	Acid Soluble Mn (%)	0472	0.0300	0.0000	0.0318	0.0057	0.0006	10	-0.30	261.35	0
261	Acid Soluble Mn (%)	0553	0.0345	0.0010	0.0318	0.0057	0.0006	10	0.43	261.00	0
261	Acid Soluble Mn (%)	0524	0.0347	0.0004	0.0318	0.0057	0.0006	10	0.47	261.99	0
261	Acid Soluble Mn (%)	0494	0.0348	0.0017	0.0318	0.0057	0.0006	10	0.47	261.35	0
261	Acid Soluble Mn (%)	0035	0.0355	0.0010	0.0318	0.0057	0.0006	10	0.59	261.30	0
261	Acid Soluble Mn (%)	0389	0.0362	0.0001	0.0318	0.0057	0.0006	10	0.70	261.99	0
261	Acid Soluble Mn (%)	0527	0.0363	0.0001	0.0318	0.0057	0.0006	10	0.72	261.35	0
261	Acid Soluble Mn (%)	0423	361.7	2.800	0.0318	0.0057	0.0006	10	58623.80	261.34	2
281	Acid Soluble Hg (ppm)	0524	0.0015	0.0001	0.0060	0.0080	0.0008	4	-0.48	281.99	0
281	Acid Soluble Hg (ppm)	0368	0.0020	0.0007	0.0060	0.0080	0.0008	4	-0.43	281.99	0
281	Acid Soluble Hg (ppm)	0035	0.0025	0.0010	0.0060	0.0080	0.0008	4	-0.37	281.99	0
281	Acid Soluble Hg (ppm)	0593	0.0180	0.0012	0.0060	0.0080	0.0008	4	1.27	281.30	0
281	Acid Soluble Hg (ppm)	0527	< 0.001		0.0060	0.0080	0.0008	4		281.30	5
281	Acid Soluble Hg (ppm)	0220	< 0.01		0.0060	0.0080	0.0008	4		281.99	5
281	Acid Soluble Hg (ppm)	0515	< 0.017		0.0060	0.0080	0.0008	4		281.30	5
281	Acid Soluble Hg (ppm)	0450	< 0.5		0.0060	0.0080	0.0008	4		281.30	5
281	Acid Soluble Hg (ppm)	0605	< 1.25		0.0060	0.0080	0.0008	4		281.30	5
281	Acid Soluble Hg (ppm)	0405	< 2		0.0060	0.0080	0.0008	4		281.30	5
289	Acid Soluble Mo (ppm)	0593	6.930	0.2600	15.47	2.353	0.8715	17	-3.63	289.30	0
289	Acid Soluble Mo (ppm)	0035	12.20	0.8000	15.47	2.353	0.8715	17	-1.39	289.30	0
289	Acid Soluble Mo (ppm)	0255	12.64	0.3100	15.47	2.353	0.8715	17	-1.21	289.30	0
289	Acid Soluble Mo (ppm)	0136	14.38	0.6900	15.47	2.353	0.8715	17	-0.47	289.33	0
289	Acid Soluble Mo (ppm)	0450	14.80	0.4000	15.47	2.353	0.8715	17	-0.29	289.30	0
289	Acid Soluble Mo (ppm)	0494	14.80	0.6000	15.47	2.353	0.8715	17	-0.29	289.33	0
289	Acid Soluble Mo (ppm)	0524	15.05	0.2177	15.47	2.353	0.8715	17	-0.18	289.30	0
289	Acid Soluble Mo (ppm)	0605	15.24	1.860	15.47	2.353	0.8715	17	-0.10	289.30	0
289	Acid Soluble Mo (ppm)	0037	15.45	0.1090	15.47	2.353	0.8715	17	-0.01	289.33	0
289	Acid Soluble Mo (ppm)	0096	15.75	0.1000	15.47	2.353	0.8715	17	0.12	289.30	0
289	Acid Soluble Mo (ppm)	0423	15.77	0.0300	15.47	2.353	0.8715	17	0.12	289.33	0
289	Acid Soluble Mo (ppm)	0563	15.97	0.0670	15.47	2.353	0.8715	17	0.21	289.33	0
289	Acid Soluble Mo (ppm)	0527	16.16	0.1813	15.47	2.353	0.8715	17	0.29	289.33	0
289	Acid Soluble Mo (ppm)	0405	16.50	1.000	15.47	2.353	0.8715	17	0.44	289.32	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	R-bar				
289	Acid Soluble Mo (ppm)	0515	18.39	5.090	15.47	2.353	0.8715	17	1.24	289.33	0
289	Acid Soluble Mo (ppm)	0513	19.75	0.1000	15.47	2.353	0.8715	17	1.82	289.30	0
289	Acid Soluble Mo (ppm)	0586	21.50	3.000	15.47	2.353	0.8715	17	2.56	289.30	0
289	Acid Soluble Mo (ppm)	0515	15.09	7.070	15.47	2.353	0.8715	17	-0.16	289.34	1
289	Acid Soluble Mo (ppm)	0368	0.0000	0.0000	15.47	2.353	0.8715	17		289.34	4
291	Acid Soluble Ni (ppm)	0515	4.908	3.763	11.61	1.899	0.8457	23	-3.53	291.34	0
291	Acid Soluble Ni (ppm)	0515	5.908	3.776	11.61	1.899	0.8457	23	-3.00	291.33	0
291	Acid Soluble Ni (ppm)	0563	7.985	0.1562	11.61	1.899	0.8457	23	-1.91	291.33	0
291	Acid Soluble Ni (ppm)	0444	10.12	0.1000	11.61	1.899	0.8457	23	-0.78	291.30	0
291	Acid Soluble Ni (ppm)	0096	10.65	2.100	11.61	1.899	0.8457	23	-0.51	291.30	0
291	Acid Soluble Ni (ppm)	0136	10.69	0.8200	11.61	1.899	0.8457	23	-0.48	291.33	0
291	Acid Soluble Ni (ppm)	0035	10.75	0.3000	11.61	1.899	0.8457	23	-0.45	291.30	0
291	Acid Soluble Ni (ppm)	0605	10.89	0.0900	11.61	1.899	0.8457	23	-0.38	291.30	0
291	Acid Soluble Ni (ppm)	0450	11.00	0.0000	11.61	1.899	0.8457	23	-0.32	291.30	0
291	Acid Soluble Ni (ppm)	0586	11.00	2.000	11.61	1.899	0.8457	23	-0.32	291.30	0
291	Acid Soluble Ni (ppm)	0389	11.06	0.6200	11.61	1.899	0.8457	23	-0.29	291.30	0
291	Acid Soluble Ni (ppm)	0524	11.36	0.0295	11.61	1.899	0.8457	23	-0.13	291.30	0
291	Acid Soluble Ni (ppm)	0027	11.50	1.000	11.61	1.899	0.8457	23	-0.06	291.30	0
291	Acid Soluble Ni (ppm)	0220	12.05	0.1000	11.61	1.899	0.8457	23	0.23	291.32	0
291	Acid Soluble Ni (ppm)	0037	12.20	0.0810	11.61	1.899	0.8457	23	0.31	291.33	0
291	Acid Soluble Ni (ppm)	0394	12.50	1.000	11.61	1.899	0.8457	23	0.47	291.30	0
291	Acid Soluble Ni (ppm)	0527	12.67	0.0157	11.61	1.899	0.8457	23	0.56	291.33	0
291	Acid Soluble Ni (ppm)	0220	13.00	0.0000	11.61	1.899	0.8457	23	0.73	291.99	0
291	Acid Soluble Ni (ppm)	0368	13.35	0.5000	11.61	1.899	0.8457	23	0.92	291.34	0
291	Acid Soluble Ni (ppm)	0405	13.50	1.000	11.61	1.899	0.8457	23	1.00	291.32	0
291	Acid Soluble Ni (ppm)	0494	13.55	1.700	11.61	1.899	0.8457	23	1.02	291.33	0
291	Acid Soluble Ni (ppm)	0513	19.75	0.1000	11.61	1.899	0.8457	23	4.29	291.30	0
291	Acid Soluble Ni (ppm)	0593	28.60	0.2000	11.61	1.899	0.8457	23	8.95	291.30	0
291	Acid Soluble Ni (ppm)	0255	54.21	6.380	11.61	1.899	0.8457	23	22.43	291.99	1
301	Acid Soluble Se (ppm)	0524	1.086	0.4220	4.251	3.913	2.980	5	-0.81	301.30	0
301	Acid Soluble Se (ppm)	0563	1.645	0.1060	4.251	3.913	2.980	5	-0.67	301.33	0
301	Acid Soluble Se (ppm)	0593	1.990	0.0600	4.251	3.913	2.980	5	-0.58	301.30	0
301	Acid Soluble Se (ppm)	0515	6.388	11.06	4.251	3.913	2.980	5	0.55	301.34	0
301	Acid Soluble Se (ppm)	0515	10.15	3.247	4.251	3.913	2.980	5	1.51	301.33	0
301	Acid Soluble Se (ppm)	0255	0.0000	0.0000	4.251	3.913	2.980	5		301.99	4
301	Acid Soluble Se (ppm)	0527	< 0.001		4.251	3.913	2.980	5		301.33	5
301	Acid Soluble Se (ppm)	0220	< 0.3		4.251	3.913	2.980	5		301.99	5
301	Acid Soluble Se (ppm)	0494	< 1		4.251	3.913	2.980	5		301.33	5
301	Acid Soluble Se (ppm)	0368	< 1.1		4.251	3.913	2.980	5		301.34	5
301	Acid Soluble Se (ppm)	0605	< 1.65		4.251	3.913	2.980	5		301.30	5
301	Acid Soluble Se (ppm)	0405	< 10		4.251	3.913	2.980	5		301.32	5
311	Sodium (%)	0553	0.0795	0.0010	0.1379	0.0257	0.0037	6	-2.03	311.00	0
311	Sodium (%)	0494	0.1341	0.0064	0.1379	0.0257	0.0037	6	-0.13	311.33	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	R-bar				
311	Sodium (%)	0527	0.1360	0.0009	0.1379	0.0257	0.0037	6	-0.07	311.33	0
311	Sodium (%)	0423	0.1370	0.0020	0.1379	0.0257	0.0037	6	-0.03	311.33	0
311	Sodium (%)	0035	0.1560	0.0020	0.1379	0.0257	0.0037	6	0.63	311.33	0
311	Sodium (%)	0354	0.1650	0.0100	0.1379	0.0257	0.0037	6	0.94	311.99	0
321	Acid Soluble Zn (%)	0389	0.0045	0.0001	0.0071	0.0021	0.2511	26	-1.26	321.99	0
321	Acid Soluble Zn (%)	0220	0.0048	0.0004	0.0071	0.0021	0.2511	26	-1.09	321.32	0
321	Acid Soluble Zn (%)	0255	0.0050	0.0000	0.0071	0.0021	0.2511	26	-1.00	321.30	0
321	Acid Soluble Zn (%)	0368	0.0052	0.0004	0.0071	0.0021	0.2511	26	-0.90	321.99	0
321	Acid Soluble Zn (%)	0220	0.0053	0.0001	0.0071	0.0021	0.2511	26	-0.88	321.99	0
321	Acid Soluble Zn (%)	0515	0.0055	0.0009	0.0071	0.0021	0.2511	26	-0.78	321.33	0
321	Acid Soluble Zn (%)	0136	0.0059	0.0002	0.0071	0.0021	0.2511	26	-0.56	321.33	0
321	Acid Soluble Zn (%)	0534	0.0060	0.0001	0.0071	0.0021	0.2511	26	-0.54	321.03	0
321	Acid Soluble Zn (%)	0553	0.0060	0.0000	0.0071	0.0021	0.2511	26	-0.52	321.00	0
321	Acid Soluble Zn (%)	0515	0.0060	0.0004	0.0071	0.0021	0.2511	26	-0.52	321.99	0
321	Acid Soluble Zn (%)	0035	0.0064	0.0001	0.0071	0.0021	0.2511	26	-0.35	321.30	0
321	Acid Soluble Zn (%)	0027	0.0065	0.0010	0.0071	0.0021	0.2511	26	-0.28	321.99	0
321	Acid Soluble Zn (%)	0563	0.0067	0.0006	0.0071	0.0021	0.2511	26	-0.18	321.33	0
321	Acid Soluble Zn (%)	0405	0.0069	0.0002	0.0071	0.0021	0.2511	26	-0.08	321.32	0
321	Acid Soluble Zn (%)	0037	0.0070	0.0005	0.0071	0.0021	0.2511	26	-0.06	321.33	0
321	Acid Soluble Zn (%)	0527	0.0070	0.0002	0.0071	0.0021	0.2511	26	-0.03	321.33	0
321	Acid Soluble Zn (%)	0586	0.0070	0.0000	0.0071	0.0021	0.2511	26	-0.03	321.99	0
321	Acid Soluble Zn (%)	0524	0.0071	0.0000	0.0071	0.0021	0.2511	26	0.01	321.99	0
321	Acid Soluble Zn (%)	0043	0.0075	0.0010	0.0071	0.0021	0.2511	26	0.21	321.33	0
321	Acid Soluble Zn (%)	0444	0.0080	0.0000	0.0071	0.0021	0.2511	26	0.45	321.30	0
321	Acid Soluble Zn (%)	0394	0.0093	0.0014	0.0071	0.0021	0.2511	26	1.07	321.32	0
321	Acid Soluble Zn (%)	0513	0.0100	0.0000	0.0071	0.0021	0.2511	26	1.41	321.30	0
321	Acid Soluble Zn (%)	0472	0.0100	0.0000	0.0071	0.0021	0.2511	26	1.41	321.33	0
321	Acid Soluble Zn (%)	0600	0.0850	0.0200	0.0071	0.0021	0.2511	26	37.46	321.99	0
321	Acid Soluble Zn (%)	0450	68.00	2.000	0.0071	0.0021	0.2511	26	32686.74	321.30	0
321	Acid Soluble Zn (%)	0423	141.7	4.500	0.0071	0.0021	0.2511	26	68093.05	321.32	0
321	Acid Soluble Zn (%)	0096	95.00	6.800	0.0071	0.0021	0.2511	26	45666.65	321.30	1
321	Acid Soluble Zn (%)	0593	< 0.0003		0.0071	0.0021	0.2511	26		321.33	5
321	Acid Soluble Zn (%)	0354	< 0.01		0.0071	0.0021	0.2511	26		321.30	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. 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.