



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 125

Sample # 250811

Regular PT Scheme

Labs Reporting: 76

21-7-14

Statistical Summary

Issue Date : 09/30/2025

Method Code	Analyte & Method Sample # 250811	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Horwitz %RSD
001.10	Ammoniacal N, Magnesium Oxide Method (%)	3	3	10.72	1.013	10.72		1.013	0.7310	9.45%		0.2400	2.80%
001.99	Ammoniacal N, Other (%)	27	26	11.01	0.6291	11.08		0.1936	0.0475	1.75%		0.0791	2.78%
002.20	Nitrate N, Jones Modified (%)	1		11.20									
002.99	Nitrate N, Other (%)	21	21	9.688	0.4254	9.744		0.3121	0.0851	3.20%		0.1626	2.84%
005.99	Urea N, Other (%)	2	2	10.69	14.77								
010.10	Total N, Reduced Iron (21%)	1		20.92									
010.11	Total N, Modified Comprehensive (21%)	3	3	20.95	0.1354	20.95	0.7395	0.1354	0.0977	0.65%	0.43	0.1408	2.18%
010.12	Total N, Salicylic (21%)	3	3	20.98	0.2754	20.98	0.7398	0.2754	0.1987	1.31%	0.87	0.4333	2.18%
010.60	Total N, Combustion (21%)	43	42	20.82	0.5510	20.85	0.7385	0.5099	0.0983	2.45%	1.61	0.1210	2.19%
010.99	Total N, Other (21%)	14	14	21.08	0.5499	21.07	0.7407	0.3677	0.1228	1.75%	1.16	0.1683	2.18%
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	14	14	6.807	0.3162	6.805		0.2766	0.0924	4.06%		0.1156	3.00%
020.40	Total P2O5, Automated (%)	2	2	6.550	0.6364								
020.50	Total P2O5, ICP (%)	19	18	6.515	1.418	6.834		0.3084	0.0909	4.51%		0.1637	3.00%
020.99	Total P2O5, Other (%)	6	6	7.182	0.3989	7.124		0.3105	0.1584	4.36%		0.1158	2.98%
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP	2	2	0.0350	0.0354								
030.99	Citrate Insoluble P2O5, Other (%)	1		0.0600									
040.99	Indirect Available P2O5, Other (7%)	2	2	6.755	0.0707								
041.10	Direct Available P2O5, Gravimetric Quinolinium (7%)	4	4	6.847	0.1711	6.847	0.6785	0.1711	0.1069	2.50%	0.59	0.0915	2.99%
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA	5	5	6.712	0.0774	6.712	0.6771	0.0774	0.0433	1.15%	0.27	0.1400	3.00%
041.20	Direct Available P2O5, Spectrophotometric (7%)	2	2	6.833	0.0955								
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext.	6	6	7.260	3.131	6.237	0.6724	0.8141	0.4155	13.05%	2.82	0.0914	3.04%
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (7%)	2	2	6.797	0.0308								
041.50	Direct Available P2O5, ICP (7%)	4	4	5.772	1.886	5.772	0.6700	1.886	1.179	32.68%	6.56	0.1100	3.07%
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (7%)	11	11	6.850	0.1560	6.850	0.6785	0.1769	0.0667	2.58%	0.61	0.1368	2.99%
041.99	Direct Available P2O5, Other (7%)	6	6	7.007	0.2418	6.950	0.6795	0.0526	0.0268	0.76%	0.18	0.0953	2.99%
042.99	Water Soluble OrthoP As P2O5, Other (%)	1		7.270									
048.20	Water Soluble P2O5, Spectrophotometric (%)	3	3	4.440	0.1354	4.440		0.1354	0.0977	3.05%		0.0473	3.20%
048.99	Water Soluble P2O5, Other (%)	2	2	4.643	0.2369								
050.00	Soluble K2O, STPB Oxalate (14%)	8	8	13.97	0.5238	13.93	0.8671	0.5053	0.2233	3.63%	1.36	0.1464	2.68%

Method Code	Analyte & Method Sample # 250811	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Method Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Method IA Ratio	Average Range (R-bar)	Horwitz %RSD
050.30	Soluble K2O, AA (Oxalate) (14%)	1		13.80									
050.32	Soluble K2O, AA (Citrate-EDTA) (14%)	1		12.53									
050.50	Soluble K2O, ICP (Oxalate) (14%)	5	5	14.22	0.8435	14.22	0.8778	0.8435	0.4715	5.93%	2.24	0.1317	2.65%
050.51	Soluble K2O, ICP (Citrate) (14%)	4	4	14.13	1.970	14.13	0.8747	1.970	1.231	13.94%	5.25	0.2080	2.66%
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	15	15	13.19	1.930	13.68	0.8570	0.4554	0.1470	3.33%	1.24	0.2041	2.70%
050.60	Soluble K2O, Flame Photometric (Oxalate) (14%)	5	5	14.03	0.3664	14.03	0.8710	0.3664	0.2048	2.61%	0.98	0.1381	2.67%
050.61	Soluble K2O, Flame Photometric (Citrate) (14%)	1		14.05									
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (14%)	3	3	13.68	0.2385	13.68	0.8574	0.2385	0.1721	1.74%	0.65	0.2850	2.70%
050.99	Soluble K2O, Other (14%)	32	30	13.46	2.228	13.90	0.8659	0.4466	0.1019	3.21%	1.20	0.2705	2.68%
060.00	Water (Free), Vacuum Oven (%)	1		0.5550									
060.99	Water (Free), Other (%)	1		1.509									
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	3	3	2.130	0.0277	2.130	0.3065	0.0277	0.0200	1.30%	0.21	0.0430	3.57%
101.32	Acid Soluble Ca, ICP, test portion 2006.03A-C (%)	1		1.975									
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	4	4	2.218	0.1431	2.218	0.3109	0.1431	0.0894	6.45%	1.07	0.0276	3.55%
121.03	Acid Soluble Mg, AA, 965.09, test portion 2006.03A-C w/dual acid	1		0.4200									
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	4	4	0.2659	0.0963	0.2659	0.2133	0.0963	0.0602	36.22%	1.05	0.0103	4.88%
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	5	5	0.2672	0.0377	0.2672	0.2134	0.0376	0.0210	14.09%	0.41	0.0494	4.88%
121.99	Acid Soluble Mg, Other (%)	2	2	0.1933	0.0298								
143.00	Elemental S, Gravimetric Sulfur - carbon disulfide soluble sulfur	1		0.3480									
143.99	Elemental S, Other (%)	4	4	5.121	0.3081	5.121		0.3081	0.1925	6.02%		0.0599	3.13%
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	4	4	5.217	0.1842	5.217		0.1842	0.1151	3.53%		0.0686	3.12%
145.99	Sulfate S, HCl soluble, Other (%)	2	2	5.135	0.0212								
148.00	Total S, Combustion (5%)	5	5	5.081	0.3230	5.081	0.4540	0.3230	0.1805	6.36%	1.66	0.2627	3.13%
148.01	Total S, Gravimetric - sulfate and elemental (5%)	6	6	5.185	0.2137	5.185	0.4593	0.2423	0.1237	4.67%	1.23	0.2240	3.12%
148.03	Total S, Spectrometric, w/Br digestion (5%)	1		4.900									
148.07	Total S, ICP, test portion as in 2017.02 (5%)	16	16	5.039	0.3314	5.028	0.4514	0.3428	0.1071	6.82%	1.77	0.1087	3.14%
148.99	Total S, Other (5%)	14	14	5.142	0.4866	5.123	0.4562	0.3903	0.1304	7.62%	1.99	0.0786	3.13%
149.04	S - HNO3 soluble, ICP (%)	2	2	5.232	0.3046								
151.00	Acid Soluble As, AA, test portion 2006.03 modified w/dual acid	1		1.150									
151.30	Acid Soluble As, ICP (ppm)	3	1	3.058	3.127	5.232		0.3046	0.3807	5.82%		0.0229	12.47%
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	2	2	6.550	2.758								
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	5	5	9.545	11.83	9.545		11.83	6.612	123.92%		7.483	11.39%
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	2	2	8.098	1.559								
151.99	Acid Soluble As, Other (ppm)	3	3	66.60	103.0	66.60		103.0	74.34	154.66%		1.217	8.50%
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	2	0	0.0050	0.0071								
165.99	Acid Soluble B, Other (%)	5	3	0.0154	0.0193	0.0246	0.0067	0.0208	0.0150	84.49%	7.23	0.0001	6.99%
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acid	1		1.000									
181.30	Acid Soluble Cd, ICP (ppm)	5	5	1.111	0.0922	1.111		0.0922	0.0516	8.30%		0.0326	15.75%
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	2	2	0.9150	0.1202								
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	6	4	1.217	0.6775	1.279		0.4516	0.2823	35.32%		0.0819	15.42%

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181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	2	1	1.015	0.9687								
181.99	Acid Soluble Cd, Other (ppm)	3	3	1.022	0.2935	1.022		0.2935	0.2118	28.73%		0.0755	15.95%
191.00	Acid Soluble Cr, AA, test portion 2006.03 modified w/dual acid	1		24.30									
191.30	Acid Soluble Cr, ICP (ppm)	4	4	18.54	2.773	18.54		2.773	1.733	14.95%		0.8526	10.31%
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	2	2	22.75	0.3536								
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	6	5	22.02	3.254	21.03		2.436	1.362	11.59%		0.8868	10.11%
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	2	2	18.75	2.333								
191.99	Acid Soluble Cr, Other (ppm)	2	2	24.63	3.571								
202.30	Acid Soluble Co, ICP (ppm)	3	3	1.069	0.3999	1.069	1.3206	0.3999	0.2886	37.41%	0.71	0.0714	15.84%
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	2	2	0.8950	0.1485								
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	6	2	2.857	3.586	1.192	1.3577	0.3497	0.3091	29.33%	0.60	0.1483	15.58%
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	2	1	0.3370	0.0184								
202.99	Acid Soluble Co, Other (ppm)	3	2	0.6900	0.6875	1.035	1.3105	0.4808	0.4250	46.46%	0.85	0.0300	15.91%
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	5	2	0.0028	0.0042	0.0019	0.0052	0.0015	0.0013	78.98%	0.68	0.0003	10.25%
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	1		0.0006									
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	9	5	1.112	3.333	0.0011	0.0051	0.0010	0.0005	91.01%	0.44	0.0003	11.20%
221.99	Acid Soluble Cu, Other (%)	6	5	1.039	2.543	0.0012	0.0051	0.0011	0.0006	89.92%	0.48	0.0018	11.03%
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	4	3	0.0518	0.0368	0.0690	0.0119	0.0158	0.0114	22.83%	3.08	0.0107	5.98%
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	3	3	0.0621	0.0041	0.0621	0.0112	0.0041	0.0030	6.61%	0.85	0.0012	6.08%
241.99	Acid Soluble Fe, Other (%)	2	2	0.0538	0.0035								
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	1		0.5000									
251.30	Acid Soluble Pb, ICP (ppm)	5	4	3.589	2.218	4.486		1.091	0.6818	24.31%		0.1974	12.76%
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	2	1	4.403	0.5692								
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	5	3	5.962	4.509	6.937		5.904	4.261	85.11%		3.524	11.95%
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	2	2	10.11	1.750								
251.99	Acid Soluble Pb, Other (ppm)	2	1	3.625	1.591								
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	2	1	0.0065	0.0050								
261.32	Acid Soluble Mn, ICP, test portion inorganic 965.09 (%)	1		0.2000									
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	3	3	0.0028	0.0003	0.0028	0.0053	0.0003	0.0002	10.70%	0.13	0.0001	9.68%
261.99	Acid Soluble Mn, Other (%)	2	2	0.0235	0.0297								
281.00	Acid Soluble Hg, AA (ppm)	2	0	0.2750	0.3182								
281.30	Acid Soluble Hg, ICP (ppm)	4	0	0.8153	0.9839	0.0235		0.0297		126.38%		0.0002	22.00%
281.99	Acid Soluble Hg, Other (ppm)	3	1	0.0182	0.0228	0.0235		0.0297	0.0371	126.38%		0.0002	22.00%
289.30	Acid Soluble Mo, ICP (ppm)	4	4	0.9020	0.4485	0.9020	1.2706	0.4485	0.2803	49.72%	0.82	0.1448	16.25%
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	2	2	1.048	0.0672								
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	5	2	1.884	1.441	1.345	1.4035	0.3679	0.3252	27.35%	0.61	0.2224	15.30%
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	2	0	0.1775	0.1096								
289.99	Acid Soluble Mo, Other (ppm)	2	2	1.195	0.1980								
291.00	Acid Soluble Ni, AA, test portion 2006.03 modified w/dual acid	1		10.00									
291.30	Acid Soluble Ni, ICP (ppm)	5	5	6.143	2.009	6.143		2.009	1.123	32.70%		0.1425	12.17%

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291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	2	2	7.438	1.503								
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	5	4	7.100	1.760	6.375		0.7916	0.4947	12.42%		0.2016	12.10%
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	2	2	8.290	0.6930								
291.99	Acid Soluble Ni, Other (ppm)	3	3	6.551	0.4099	6.551		0.4099	0.2958	6.26%		0.5307	12.06%
301.30	Acid Soluble Se, ICP (ppm)	2	1	4.173	2.937								
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	2	0	5.150	6.859								
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	4	2	15.99	18.14	20.98		25.42	22.47	121.16%		26.91	10.12%
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	2	0	1.027	0.6689								
301.99	Acid Soluble Se, Other (ppm)	3	1	5.617	9.470	20.98		25.42	31.77	121.16%		0.1100	10.12%
311.33	Sodium, ICP, test portion as in 2017.02 (%)	3	3	0.1471	0.0045	0.1471	0.0197	0.0045	0.0033	3.08%	0.54	0.0029	5.34%
311.99	Sodium, Other (%)	1		0.1550									
321.03	Acid Soluble Zn, AA, 965.09, test portion 2006.03A-C w/dual a	1		0.0100									
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	5	3	0.0041	0.0037	0.0035	0.0054	0.0009	0.0006	24.74%	0.38	0.0010	9.37%
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	2	2	0.0033	0.0002								
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	10	9	0.0063	0.0103	0.0031	0.0053	0.0003	0.0001	8.83%	0.12	0.0009	9.54%
321.99	Acid Soluble Zn, Other (%)	7	6	4.123	10.90	0.0028	0.0053	0.0005	0.0003	18.46%	0.23	0.0002	9.67%

The Method IA Ratio = 2.33 * Robust SD / IA at the Method 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.



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Sample # 250811

Regular PT Scheme

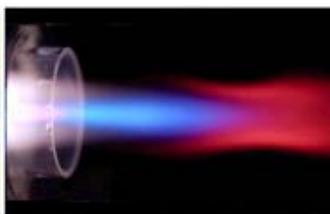
21-7-14

Method Precision Report

Issue Date : 09/30/2025

Method Code	Analyte & Method	# Tests Submitted	# Tests Used in Precision Calcs	Mean	SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %srd	Reproducibility %RSD	sR/sr
001.99	Ammoniacal N, Other (%)	27	24	11.15	0.4427	0.4408	0.0578	0.4446	3.95%	0.52%	3.99%	7.691
002.99	Nitrate N, Other (%)	21	19	9.748	0.2788	0.2488	0.1778	0.3058	2.55%	1.82%	3.14%	1.720
010.60	Total N, Combustion (21%)	43	39	20.86	0.5060	0.4992	0.1172	0.5128	2.39%	0.56%	2.46%	4.376
010.99	Total N, Other (21%)	14	13	20.98	0.3997	0.3699	0.2141	0.4274	1.76%	1.02%	2.04%	1.996
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	14	13	6.757	0.2668	0.2491	0.1351	0.2834	3.69%	2.00%	4.19%	2.097
020.50	Total P2O5, ICP (%)	19	18	6.834	0.2720	0.2475	0.1596	0.2945	3.62%	2.34%	4.31%	1.845
020.99	Total P2O5, Other (%)	6	5	7.031	0.1692	0.1618	0.0702	0.1763	2.30%	1.00%	2.51%	2.511
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (%)	6	5	5.992	0.4437	0.4397	0.0838	0.4477	7.34%	1.40%	7.47%	5.342
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (7%)	11	11	6.850	0.1560	0.1227	0.1361	0.1832	1.79%	1.99%	2.68%	1.347
041.99	Direct Available P2O5, Other (7%)	6	5	6.913	0.0855	0.0752	0.0575	0.0947	1.09%	0.83%	1.37%	1.646
050.00	Soluble K2O, STPB Oxalate (14%)	8	8	13.97	0.5238	0.5150	0.1354	0.5325	3.69%	0.97%	3.81%	3.934
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	15	14	13.67	0.4879	0.4661	0.2039	0.5088	3.41%	1.49%	3.72%	2.495
050.99	Soluble K2O, Other (14%)	32	29	13.85	0.5441	0.5178	0.2362	0.5691	3.74%	1.71%	4.11%	2.409
148.01	Total S, Gravimetric - sulfate and elemental (5%)	6	6	5.185	0.2137	0.1747	0.1739	0.2465	3.37%	3.35%	4.75%	1.418
148.07	Total S, ICP, test portion as in 2017.02 (5%)	16	15	5.010	0.3217	0.3096	0.1233	0.3333	6.18%	2.46%	6.65%	2.704
148.99	Total S, Other (5%)	14	13	5.053	0.3689	0.3658	0.0677	0.3720	7.24%	1.34%	7.36%	5.494
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	6	5	21.03	2.436	2.376	0.7650	2.496	11.30%	3.64%	11.87%	3.263
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	10	8	0.0032	0.0002	0.0001	0.0003	0.0003	2.61%	8.12%	8.53%	1.050
321.99	Acid Soluble Zn, Other (%)	7	6	0.0028	0.0005	0.0004	0.0002	0.0005	15.63%	6.44%	16.90%	2.623

Notes: Precision data calculated when 5 or more Tests included.



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 125

Sample # 250811

Regular PT Scheme

Labs Reporting: 76

21-7-14

Lab Values

Issue Date : 09/30/2025

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0602	9.900	0.1000	10.72	1.013	0.2400	3	-0.81		0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0389	10.40	0.3200	10.72	1.013	0.2400	3	-0.31		0
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0498	11.85	0.3000	10.72	1.013	0.2400	3	1.12		0
001.99	Ammoniacal N, Other (%)	0368	9.203	0.2350	11.08	0.1936	0.0791	26	-9.72	NA	0
001.99	Ammoniacal N, Other (%)	0572	9.600	0.4000	11.08	0.1936	0.0791	26	-7.66	NA	0
001.99	Ammoniacal N, Other (%)	0602	9.900	0.1000	11.08	0.1936	0.0791	26	-6.12	NA	0
001.99	Ammoniacal N, Other (%)	0605	10.88	0.1400	11.08	0.1936	0.0791	26	-1.05	NA	0
001.99	Ammoniacal N, Other (%)	0577	10.93	0.0500	11.08	0.1936	0.0791	26	-0.82	NA	0
001.99	Ammoniacal N, Other (%)	0423	10.95	0.1000	11.08	0.1936	0.0791	26	-0.69	NA	0
001.99	Ammoniacal N, Other (%)	0136	11.00	0.0000	11.08	0.1936	0.0791	26	-0.43	NA	0
001.99	Ammoniacal N, Other (%)	0476	11.02	0.0162	11.08	0.1936	0.0791	26	-0.35	NA	0
001.99	Ammoniacal N, Other (%)	0561	11.02	0.0000	11.08	0.1936	0.0791	26	-0.33	NA	0
001.99	Ammoniacal N, Other (%)	0027	11.04	0.0200	11.08	0.1936	0.0791	26	-0.23	NA	0
001.99	Ammoniacal N, Other (%)	0394	11.06	0.0430	11.08	0.1936	0.0791	26	-0.14	NA	0
001.99	Ammoniacal N, Other (%)	0548	11.09	0.0500	11.08	0.1936	0.0791	26	0.00	NA	0
001.99	Ammoniacal N, Other (%)	0559	11.09	0.0020	11.08	0.1936	0.0791	26	0.00	NA	0
001.99	Ammoniacal N, Other (%)	0653	11.09	0.0100	11.08	0.1936	0.0791	26	0.00	NA	0
001.99	Ammoniacal N, Other (%)	0405	11.09	0.0000	11.08	0.1936	0.0791	26	0.03	NA	0
001.99	Ammoniacal N, Other (%)	0513	11.10	0.0100	11.08	0.1936	0.0791	26	0.06	NA	0
001.99	Ammoniacal N, Other (%)	0558	11.10	0.2000	11.08	0.1936	0.0791	26	0.08	NA	0
001.99	Ammoniacal N, Other (%)	0510	11.13	0.0276	11.08	0.1936	0.0791	26	0.23	NA	0
001.99	Ammoniacal N, Other (%)	0536	11.16	0.1000	11.08	0.1936	0.0791	26	0.39	NA	0
001.99	Ammoniacal N, Other (%)	0600	11.19	0.1800	11.08	0.1936	0.0791	26	0.55	NA	0
001.99	Ammoniacal N, Other (%)	0220	11.21	0.0100	11.08	0.1936	0.0791	26	0.62	NA	0
001.99	Ammoniacal N, Other (%)	0553	11.23	0.0500	11.08	0.1936	0.0791	26	0.73	NA	0
001.99	Ammoniacal N, Other (%)	0647	11.35	0.1300	11.08	0.1936	0.0791	26	1.35	NA	0
001.99	Ammoniacal N, Other (%)	0545	11.62	0.0200	11.08	0.1936	0.0791	26	2.77	NA	0
001.99	Ammoniacal N, Other (%)	0472	12.00	0.0000	11.08	0.1936	0.0791	26	4.73	NA	0
001.99	Ammoniacal N, Other (%)	0612	12.45	0.1000	11.08	0.1936	0.0791	26	7.05	NA	0
001.99	Ammoniacal N, Other (%)	0524	10.80	0.5557	11.08	0.1936	0.0791	26	-1.44	NA	1
002.20	Nitrate N, Jones Modified (%)	0117	11.20	1.200				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
002.99	Nitrate N, Other (%)	0220	8.250	0.0000	9.744	0.3121	0.1626	21	-4.79	NA	0
002.99	Nitrate N, Other (%)	0605	9.130	0.1200	9.744	0.3121	0.1626	21	-1.97	NA	0
002.99	Nitrate N, Other (%)	0368	9.334	0.5340	9.744	0.3121	0.1626	21	-1.31	NA	0
002.99	Nitrate N, Other (%)	0472	9.400	0.4000	9.744	0.3121	0.1626	21	-1.10	NA	0
002.99	Nitrate N, Other (%)	0029	9.495	0.1300	9.744	0.3121	0.1626	21	-0.80	NA	0
002.99	Nitrate N, Other (%)	0545	9.565	0.0100	9.744	0.3121	0.1626	21	-0.57	NA	0
002.99	Nitrate N, Other (%)	0476	9.604	0.0762	9.744	0.3121	0.1626	21	-0.45	NA	0
002.99	Nitrate N, Other (%)	0559	9.640	0.0200	9.744	0.3121	0.1626	21	-0.33	NA	0
002.99	Nitrate N, Other (%)	0653	9.650	0.0200	9.744	0.3121	0.1626	21	-0.30	NA	0
002.99	Nitrate N, Other (%)	0600	9.750	0.2200	9.744	0.3121	0.1626	21	0.02	NA	0
002.99	Nitrate N, Other (%)	0548	9.820	0.1400	9.744	0.3121	0.1626	21	0.24	NA	0
002.99	Nitrate N, Other (%)	0423	9.850	0.3000	9.744	0.3121	0.1626	21	0.34	NA	0
002.99	Nitrate N, Other (%)	0553	9.865	0.0300	9.744	0.3121	0.1626	21	0.39	NA	0
002.99	Nitrate N, Other (%)	0647	9.905	0.0700	9.744	0.3121	0.1626	21	0.52	NA	0
002.99	Nitrate N, Other (%)	0536	9.910	0.0800	9.744	0.3121	0.1626	21	0.53	NA	0
002.99	Nitrate N, Other (%)	0498	9.950	0.7000	9.744	0.3121	0.1626	21	0.66	NA	0
002.99	Nitrate N, Other (%)	0558	9.975	0.8500	9.744	0.3121	0.1626	21	0.74	NA	0
002.99	Nitrate N, Other (%)	0513	10.07	0.0300	9.744	0.3121	0.1626	21	1.03	NA	0
002.99	Nitrate N, Other (%)	0394	10.09	0.1000	9.744	0.3121	0.1626	21	1.10	NA	0
002.99	Nitrate N, Other (%)	0136	10.10	0.2000	9.744	0.3121	0.1626	21	1.14	NA	0
002.99	Nitrate N, Other (%)	0027	10.10	0.0800	9.744	0.3121	0.1626	21	1.14	NA	0
005.99	Urea N, Other (%)	0524	0.2415	0.0425				2			0
005.99	Urea N, Other (%)	0638	21.13	0.1600				2			0
010.10	Total N, Reduced Iron (21%)	0548	20.92	0.2100				1			0
010.11	Total N, Modified Comprehensive (21%)	0309	20.81	0.0900	20.95	0.1354	0.1408	3	-1.10		0
010.11	Total N, Modified Comprehensive (21%)	0510	20.99	0.1524	20.95	0.1354	0.1408	3	0.24		0
010.11	Total N, Modified Comprehensive (21%)	0536	21.07	0.1800	20.95	0.1354	0.1408	3	0.86		0
010.12	Total N, Salicylic (21%)	0117	20.80	0.4000	20.98	0.2754	0.4333	3	-0.67		0
010.12	Total N, Salicylic (21%)	0602	20.85	0.1000	20.98	0.2754	0.4333	3	-0.48		0
010.12	Total N, Salicylic (21%)	0498	21.30	0.8000	20.98	0.2754	0.4333	3	1.15		0
010.60	Total N, Combustion (21%)	0542	19.20	0.1800	20.85	0.5099	0.1210	42	-3.23	Low	0
010.60	Total N, Combustion (21%)	0324	19.75	0.5000	20.85	0.5099	0.1210	42	-2.16	Low	0
010.60	Total N, Combustion (21%)	0023	19.75	0.0080	20.85	0.5099	0.1210	42	-2.15	Low	0
010.60	Total N, Combustion (21%)	0095	19.91	0.1300	20.85	0.5099	0.1210	42	-1.85	Low	0
010.60	Total N, Combustion (21%)	0035	19.95	0.1000	20.85	0.5099	0.1210	42	-1.76	Low	0
010.60	Total N, Combustion (21%)	0422	20.13	0.0200	20.85	0.5099	0.1210	42	-1.41	OK	0
010.60	Total N, Combustion (21%)	0360	20.23	0.0600	20.85	0.5099	0.1210	42	-1.21	OK	0
010.60	Total N, Combustion (21%)	0072	20.24	0.2120	20.85	0.5099	0.1210	42	-1.19	OK	0
010.60	Total N, Combustion (21%)	0234	20.32	0.5800	20.85	0.5099	0.1210	42	-1.04	OK	0
010.60	Total N, Combustion (21%)	0055	20.37	0.1500	20.85	0.5099	0.1210	42	-0.95	OK	0
010.60	Total N, Combustion (21%)	0527	20.54	0.0630	20.85	0.5099	0.1210	42	-0.61	OK	0
010.60	Total N, Combustion (21%)	0368	20.63	0.1170	20.85	0.5099	0.1210	42	-0.42	OK	0
010.60	Total N, Combustion (21%)	0389	20.67	0.0500	20.85	0.5099	0.1210	42	-0.36	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
010.60	Total N, Combustion (21%)	0025	20.78	0.1800	20.85	0.5099	0.1210	42	-0.14	OK	0
010.60	Total N, Combustion (21%)	0169	20.85	0.0100	20.85	0.5099	0.1210	42	-0.01	OK	0
010.60	Total N, Combustion (21%)	0534	20.85	0.1000	20.85	0.5099	0.1210	42	0.00	OK	0
010.60	Total N, Combustion (21%)	0521	20.88	0.0000	20.85	0.5099	0.1210	42	0.06	OK	0
010.60	Total N, Combustion (21%)	0423	20.89	0.1400	20.85	0.5099	0.1210	42	0.08	OK	0
010.60	Total N, Combustion (21%)	0612	20.90	0.4000	20.85	0.5099	0.1210	42	0.10	OK	0
010.60	Total N, Combustion (21%)	0029	20.94	0.5300	20.85	0.5099	0.1210	42	0.17	OK	0
010.60	Total N, Combustion (21%)	0543	20.96	0.0300	20.85	0.5099	0.1210	42	0.21	OK	0
010.60	Total N, Combustion (21%)	0451	20.99	0.2000	20.85	0.5099	0.1210	42	0.28	OK	0
010.60	Total N, Combustion (21%)	0049	21.00	0.2200	20.85	0.5099	0.1210	42	0.30	OK	0
010.60	Total N, Combustion (21%)	0220	21.00	0.0200	20.85	0.5099	0.1210	42	0.30	OK	0
010.60	Total N, Combustion (21%)	0292	21.00	0.0600	20.85	0.5099	0.1210	42	0.30	OK	0
010.60	Total N, Combustion (21%)	0561	21.02	0.0400	20.85	0.5099	0.1210	42	0.33	OK	0
010.60	Total N, Combustion (21%)	0405	21.04	0.0100	20.85	0.5099	0.1210	42	0.36	OK	0
010.60	Total N, Combustion (21%)	0043	21.05	0.0400	20.85	0.5099	0.1210	42	0.39	OK	0
010.60	Total N, Combustion (21%)	0354	21.05	0.1000	20.85	0.5099	0.1210	42	0.39	OK	0
010.60	Total N, Combustion (21%)	0494	21.08	0.0000	20.85	0.5099	0.1210	42	0.45	OK	0
010.60	Total N, Combustion (21%)	0377	21.09	0.1800	20.85	0.5099	0.1210	42	0.47	OK	0
010.60	Total N, Combustion (21%)	0177	21.13	0.0000	20.85	0.5099	0.1210	42	0.54	OK	0
010.60	Total N, Combustion (21%)	0307	21.15	0.1000	20.85	0.5099	0.1210	42	0.59	OK	0
010.60	Total N, Combustion (21%)	0027	21.18	0.0700	20.85	0.5099	0.1210	42	0.64	OK	0
010.60	Total N, Combustion (21%)	0009	21.20	0.2000	20.85	0.5099	0.1210	42	0.69	OK	0
010.60	Total N, Combustion (21%)	0040	21.25	0.3000	20.85	0.5099	0.1210	42	0.79	OK	0
010.60	Total N, Combustion (21%)	0291	21.28	0.0100	20.85	0.5099	0.1210	42	0.84	OK	0
010.60	Total N, Combustion (21%)	0402	21.38	0.4150	20.85	0.5099	0.1210	42	1.05	OK	0
010.60	Total N, Combustion (21%)	0131	21.46	0.1110	20.85	0.5099	0.1210	42	1.19	OK	0
010.60	Total N, Combustion (21%)	0472	21.53	0.0400	20.85	0.5099	0.1210	42	1.34	OK	0
010.60	Total N, Combustion (21%)	0136	21.65	0.1000	20.85	0.5099	0.1210	42	1.57	High	0
010.60	Total N, Combustion (21%)	0255	21.89	0.0040	20.85	0.5099	0.1210	42	2.03	High	0
010.60	Total N, Combustion (21%)	0624	21.07	0.8000	20.85	0.5099	0.1210	42	0.43	OK	1
010.99	Total N, Other (21%)	0605	20.01	0.0100	21.07	0.3677	0.1683	14	-2.89	Low	0
010.99	Total N, Other (21%)	0524	20.40	0.2193	21.07	0.3677	0.1683	14	-1.80	OK	0
010.99	Total N, Other (21%)	0602	20.85	0.1000	21.07	0.3677	0.1683	14	-0.59	OK	0
010.99	Total N, Other (21%)	0559	20.92	0.0100	21.07	0.3677	0.1683	14	-0.42	OK	0
010.99	Total N, Other (21%)	0653	20.93	0.0200	21.07	0.3677	0.1683	14	-0.37	OK	0
010.99	Total N, Other (21%)	0600	20.94	0.4000	21.07	0.3677	0.1683	14	-0.35	OK	0
010.99	Total N, Other (21%)	0558	21.10	0.6000	21.07	0.3677	0.1683	14	0.09	OK	0
010.99	Total N, Other (21%)	0394	21.15	0.0570	21.07	0.3677	0.1683	14	0.21	OK	0
010.99	Total N, Other (21%)	0513	21.16	0.0400	21.07	0.3677	0.1683	14	0.25	OK	0
010.99	Total N, Other (21%)	0545	21.19	0.0100	21.07	0.3677	0.1683	14	0.32	OK	0
010.99	Total N, Other (21%)	0615	21.25	0.7000	21.07	0.3677	0.1683	14	0.50	OK	0
010.99	Total N, Other (21%)	0647	21.25	0.2000	21.07	0.3677	0.1683	14	0.50	OK	0
010.99	Total N, Other (21%)	0584	21.57	0.2800	21.07	0.3677	0.1683	14	1.37	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
010.99	Total N, Other (21%)	0371	22.45	0.1000	21.07	0.3677	0.1683	14	3.76	High	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0558	6.150	0.6000	6.805	0.2766	0.1156	14	-2.37	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0309	6.485	0.2700	6.805	0.2766	0.1156	14	-1.16	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0510	6.626	0.0099	6.805	0.2766	0.1156	14	-0.65	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0324	6.655	0.1100	6.805	0.2766	0.1156	14	-0.54	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0394	6.681	0.0300	6.805	0.2766	0.1156	14	-0.45	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0405	6.710	0.0600	6.805	0.2766	0.1156	14	-0.34	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0476	6.792	0.0149	6.805	0.2766	0.1156	14	-0.05	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0602	6.820	0.1200	6.805	0.2766	0.1156	14	0.05	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0561	6.840	0.0200	6.805	0.2766	0.1156	14	0.13	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0534	6.890	0.0000	6.805	0.2766	0.1156	14	0.31	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0615	6.900	0.0000	6.805	0.2766	0.1156	14	0.34	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0292	7.045	0.0100	6.805	0.2766	0.1156	14	0.87	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0371	7.250	0.1000	6.805	0.2766	0.1156	14	1.61	NA	0
020.20	Total P2O5, Spectrophotometric MolybdovanadoP (%)	0498	7.450	0.7000	6.805	0.2766	0.1156	14	2.33	NA	0
020.40	Total P2O5, Automated (%)	0042	6.100	0.0000				2			0
020.40	Total P2O5, Automated (%)	0035	7.000	0.2000				2			0
020.50	Total P2O5, ICP (%)	0543	6.372	0.1230	6.834	0.3084	0.1637	18	-1.50	NA	0
020.50	Total P2O5, ICP (%)	0422	6.401	0.2864	6.834	0.3084	0.1637	18	-1.40	NA	0
020.50	Total P2O5, ICP (%)	0389	6.545	0.0500	6.834	0.3084	0.1637	18	-0.94	NA	0
020.50	Total P2O5, ICP (%)	0612	6.545	0.5500	6.834	0.3084	0.1637	18	-0.94	NA	0
020.50	Total P2O5, ICP (%)	0524	6.650	0.3692	6.834	0.3084	0.1637	18	-0.60	NA	0
020.50	Total P2O5, ICP (%)	0169	6.675	0.0500	6.834	0.3084	0.1637	18	-0.52	NA	0
020.50	Total P2O5, ICP (%)	0291	6.695	0.0100	6.834	0.3084	0.1637	18	-0.45	NA	0
020.50	Total P2O5, ICP (%)	0472	6.770	0.0000	6.834	0.3084	0.1637	18	-0.21	NA	0
020.50	Total P2O5, ICP (%)	0433	6.830	0.2800	6.834	0.3084	0.1637	18	-0.01	NA	0
020.50	Total P2O5, ICP (%)	0451	6.859	0.1100	6.834	0.3084	0.1637	18	0.08	NA	0
020.50	Total P2O5, ICP (%)	0157	6.890	0.1200	6.834	0.3084	0.1637	18	0.18	NA	0
020.50	Total P2O5, ICP (%)	0255	6.970	0.0070	6.834	0.3084	0.1637	18	0.44	NA	0
020.50	Total P2O5, ICP (%)	0234	7.030	0.1400	6.834	0.3084	0.1637	18	0.63	NA	0
020.50	Total P2O5, ICP (%)	0402	7.065	0.0200	6.834	0.3084	0.1637	18	0.75	NA	0
020.50	Total P2O5, ICP (%)	0527	7.123	0.1224	6.834	0.3084	0.1637	18	0.94	NA	0
020.50	Total P2O5, ICP (%)	0423	7.140	0.2600	6.834	0.3084	0.1637	18	0.99	NA	0
020.50	Total P2O5, ICP (%)	0307	7.175	0.4100	6.834	0.3084	0.1637	18	1.11	NA	0
020.50	Total P2O5, ICP (%)	0368	7.280	0.0295	6.834	0.3084	0.1637	18	1.45	NA	0
020.50	Total P2O5, ICP (%)	0523	0.7620	0.0460	6.834	0.3084	0.1637	18	-19.69	NA	2
020.99	Total P2O5, Other (%)	0602	6.820	0.1200	7.124	0.3105	0.1158	6	-0.87	NA	0
020.99	Total P2O5, Other (%)	0513	6.900	0.0200	7.124	0.3105	0.1158	6	-0.64	NA	0
020.99	Total P2O5, Other (%)	0638	7.085	0.0700	7.124	0.3105	0.1158	6	-0.11	NA	0
020.99	Total P2O5, Other (%)	0600	7.110	0.1400	7.124	0.3105	0.1158	6	-0.04	NA	0
020.99	Total P2O5, Other (%)	0647	7.240	0.1000	7.124	0.3105	0.1158	6	0.33	NA	0
020.99	Total P2O5, Other (%)	0515	7.935	0.4300	7.124	0.3105	0.1158	6	2.33	NA	0
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP (	0405	0.0100	0.0000				2			0

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			Value	Range	Rob Mean	Rob SD	Rob R-bar				
030.20	Citrate Insoluble P2O5, Spectrophotometric MolybdovanadoP (	0602	0.0600	0.0100				2			0
030.99	Citrate Insoluble P2O5, Other (%)	0602	0.0600	0.0100				1			0
040.99	Indirect Available P2O5, Other (%)	0405	6.705	0.0500				2			0
040.99	Indirect Available P2O5, Other (%)	0548	6.805	0.1900				2			0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0009	6.725	0.1300	6.847	0.1711	0.0915	4	-0.71		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0494	6.770	0.1600	6.847	0.1711	0.0915	4	-0.45		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0177	6.793	0.0360	6.847	0.1711	0.0915	4	-0.32		0
041.10	Direct Available P2O5, Gravimetric Quinolinium (%)	0536	7.100	0.0400	6.847	0.1711	0.0915	4	1.48		0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA I	0220	6.620	0.0600	6.712	0.0774	0.1400	5	-1.19		0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA I	0049	6.665	0.5500	6.712	0.0774	0.1400	5	-0.61		0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA I	0405	6.715	0.0100	6.712	0.0774	0.1400	5	0.04		0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA I	0055	6.735	0.0500	6.712	0.0774	0.1400	5	0.30		0
041.11	Direct Available P2O5, Gravimetric Quinolinium, Citrate-EDTA I	0513	6.825	0.0300	6.712	0.0774	0.1400	5	1.46		0
041.20	Direct Available P2O5, Spectrophotometric (%)	0602	6.765	0.1100				2			0
041.20	Direct Available P2O5, Spectrophotometric (%)	0553	6.900	0.0800				2			0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (	0472	5.570	0.0200	6.237	0.8141	0.0914	6	-0.73	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (	0055	5.765	0.1500	6.237	0.8141	0.0914	6	-0.52	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (	0177	5.765	0.0270	6.237	0.8141	0.0914	6	-0.52	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (	0095	6.185	0.2100	6.237	0.8141	0.0914	6	-0.06	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (	0394	6.677	0.0500	6.237	0.8141	0.0914	6	0.48	OK	0
041.21	Direct Available P2O5, Spectrophotometric, Citrate-EDTA Ext. (	0354	13.60	0.0000	6.237	0.8141	0.0914	6	8.06	High	0
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (%)	0029	6.775	0.0900				2			0
041.40	Direct Available P2O5, Automated, Citrate-EDTA Ext. (%)	0034	6.819	0.0050				2			0
041.50	Direct Available P2O5, ICP (%)	0521	2.962	0.0000	5.772	1.886	0.1100	4	-1.49		0
041.50	Direct Available P2O5, ICP (%)	0624	6.410	0.1200	5.772	1.886	0.1100	4	0.34		0
041.50	Direct Available P2O5, ICP (%)	0131	6.770	0.0600	5.772	1.886	0.1100	4	0.53		0
041.50	Direct Available P2O5, ICP (%)	0605	6.945	0.1500	5.772	1.886	0.1100	4	0.62		0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0072	6.590	0.1600	6.850	0.1769	0.1368	11	-1.38	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0377	6.690	0.3600	6.850	0.1769	0.1368	11	-0.85	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0136	6.700	0.4000	6.850	0.1769	0.1368	11	-0.79	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0025	6.750	0.0200	6.850	0.1769	0.1368	11	-0.53	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0043	6.821	0.0190	6.850	0.1769	0.1368	11	-0.16	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0547	6.850	0.1000	6.850	0.1769	0.1368	11	0.00	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0360	6.875	0.0500	6.850	0.1769	0.1368	11	0.13	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0040	7.000	0.2000	6.850	0.1769	0.1368	11	0.79	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0027	7.005	0.1900	6.850	0.1769	0.1368	11	0.82	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0494	7.020	0.0400	6.850	0.1769	0.1368	11	0.90	OK	0
041.51	Direct Available P2O5, ICP, Citrate-EDTA Ext. (%)	0023	7.052	0.0330	6.850	0.1769	0.1368	11	1.07	OK	0
041.99	Direct Available P2O5, Other (%)	0602	6.765	0.1100	6.950	0.0526	0.0953	6	-3.13	OK	0
041.99	Direct Available P2O5, Other (%)	0600	6.920	0.1200	6.950	0.0526	0.0953	6	-0.51	OK	0
041.99	Direct Available P2O5, Other (%)	0653	6.945	0.0100	6.950	0.0526	0.0953	6	-0.08	OK	0
041.99	Direct Available P2O5, Other (%)	0559	6.955	0.0100	6.950	0.0526	0.0953	6	0.08	OK	0
041.99	Direct Available P2O5, Other (%)	0545	6.980	0.0800	6.950	0.0526	0.0953	6	0.51	OK	0

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041.99	Direct Available P2O5, Other (7%)	0584	7.475	0.2500	6.950	0.0526	0.0953	6	8.89	OK	0
042.99	Water Soluble OrthoP As P2O5, Other (%)	0577	7.270	0.3400				1			0
048.20	Water Soluble P2O5, Spectrophotometric (%)	0394	4.291	0.0020	4.440	0.1354	0.0473	3	-1.10		0
048.20	Water Soluble P2O5, Spectrophotometric (%)	0602	4.475	0.1100	4.440	0.1354	0.0473	3	0.26		0
048.20	Water Soluble P2O5, Spectrophotometric (%)	0472	4.555	0.0300	4.440	0.1354	0.0473	3	0.85		0
048.99	Water Soluble P2O5, Other (%)	0602	4.475	0.1100				2			0
048.99	Water Soluble P2O5, Other (%)	0513	4.810	0.0600				2			0
050.00	Soluble K2O, STPB Oxalate (14%)	0049	13.21	0.3500	13.93	0.5053	0.1464	8	-1.31	OK	0
050.00	Soluble K2O, STPB Oxalate (14%)	0494	13.69	0.2900	13.93	0.5053	0.1464	8	-0.44	OK	0
050.00	Soluble K2O, STPB Oxalate (14%)	0072	13.78	0.0110	13.93	0.5053	0.1464	8	-0.27	OK	0
050.00	Soluble K2O, STPB Oxalate (14%)	0220	13.80	0.0300	13.93	0.5053	0.1464	8	-0.24	OK	0
050.00	Soluble K2O, STPB Oxalate (14%)	0055	13.83	0.2500	13.93	0.5053	0.1464	8	-0.18	OK	0
050.00	Soluble K2O, STPB Oxalate (14%)	0602	14.15	0.1000	13.93	0.5053	0.1464	8	0.40	OK	0
050.00	Soluble K2O, STPB Oxalate (14%)	0405	14.30	0.1100	13.93	0.5053	0.1464	8	0.66	OK	0
050.00	Soluble K2O, STPB Oxalate (14%)	0561	14.99	0.0300	13.93	0.5053	0.1464	8	1.91	High	0
050.30	Soluble K2O, AA (Oxalate) (14%)	0157	13.80	0.4000				1			0
050.32	Soluble K2O, AA (Citrate-EDTA) (14%)	0472	12.53	0.1300				1			0
050.50	Soluble K2O, ICP (Oxalate) (14%)	0292	13.73	0.0200	14.22	0.8435	0.1317	5	-0.59		0
050.50	Soluble K2O, ICP (Oxalate) (14%)	0169	13.78	0.0500	14.22	0.8435	0.1317	5	-0.53		0
050.50	Soluble K2O, ICP (Oxalate) (14%)	0055	13.90	0.2200	14.22	0.8435	0.1317	5	-0.39		0
050.50	Soluble K2O, ICP (Oxalate) (14%)	0324	14.00	0.2000	14.22	0.8435	0.1317	5	-0.27		0
050.50	Soluble K2O, ICP (Oxalate) (14%)	0422	15.72	0.1687	14.22	0.8435	0.1317	5	1.77		0
050.51	Soluble K2O, ICP (Citrate) (14%)	0521	11.44	0.0000	14.13	1.970	0.2080	4	-1.37		0
050.51	Soluble K2O, ICP (Citrate) (14%)	0291	14.02	0.0100	14.13	1.970	0.2080	4	-0.06		0
050.51	Soluble K2O, ICP (Citrate) (14%)	0368	15.09	0.4739	14.13	1.970	0.2080	4	0.49		0
050.51	Soluble K2O, ICP (Citrate) (14%)	0131	15.99	0.1400	14.13	1.970	0.2080	4	0.94		0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0354	6.420	0.1200	13.68	0.4554	0.2041	15	-15.93	Low	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0543	12.55	0.0840	13.68	0.4554	0.2041	15	-2.47	Low	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0072	12.69	0.1000	13.68	0.4554	0.2041	15	-2.16	Low	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0043	13.51	0.0600	13.68	0.4554	0.2041	15	-0.36	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0377	13.59	0.5400	13.68	0.4554	0.2041	15	-0.19	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0040	13.65	0.5000	13.68	0.4554	0.2041	15	-0.06	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0177	13.67	0.1109	13.68	0.4554	0.2041	15	-0.02	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0027	13.73	0.0300	13.68	0.4554	0.2041	15	0.11	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0360	13.85	0.0800	13.68	0.4554	0.2041	15	0.38	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0513	13.91	0.0300	13.68	0.4554	0.2041	15	0.50	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0136	13.95	0.5000	13.68	0.4554	0.2041	15	0.60	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0494	14.00	0.0200	13.68	0.4554	0.2041	15	0.71	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0023	14.06	0.0800	13.68	0.4554	0.2041	15	0.83	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0025	14.10	0.4100	13.68	0.4554	0.2041	15	0.92	OK	0
050.52	Soluble K2O, ICP (Citrate-EDTA) (14%)	0423	14.16	0.3960	13.68	0.4554	0.2041	15	1.07	OK	0
050.60	Soluble K2O, Flame Photometric (Oxalate) (14%)	0309	13.41	0.0500	14.03	0.3664	0.1381	5	-1.70		0
050.60	Soluble K2O, Flame Photometric (Oxalate) (14%)	0510	14.02	0.0017	14.03	0.3664	0.1381	5	-0.03		0

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050.60	Soluble K2O, Flame Photometric (Oxalate) (14%)	0602	14.15	0.1000	14.03	0.3664	0.1381	5	0.33		0
050.60	Soluble K2O, Flame Photometric (Oxalate) (14%)	0476	14.28	0.1090	14.03	0.3664	0.1381	5	0.68		0
050.60	Soluble K2O, Flame Photometric (Oxalate) (14%)	0548	14.30	0.4300	14.03	0.3664	0.1381	5	0.72		0
050.61	Soluble K2O, Flame Photometric (Citrate) (14%)	0035	14.05	0.3000				1			0
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (14%)	0029	13.42	0.0900	13.68	0.2385	0.2850	3	-1.13		0
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (14%)	0095	13.77	0.7200	13.68	0.2385	0.2850	3	0.36		0
050.62	Soluble K2O, Flame Photometric (Citrate-EDTA) (14%)	0034	13.87	0.0450	13.68	0.2385	0.2850	3	0.77		0
050.99	Soluble K2O, Other (14%)	0371	12.10	0.2000	13.90	0.4466	0.2705	30	-4.02	Low	0
050.99	Soluble K2O, Other (14%)	0515	12.92	0.3500	13.90	0.4466	0.2705	30	-2.20	Low	0
050.99	Soluble K2O, Other (14%)	0255	12.99	0.7700	13.90	0.4466	0.2705	30	-2.03	Low	0
050.99	Soluble K2O, Other (14%)	0389	13.11	0.2400	13.90	0.4466	0.2705	30	-1.76	OK	0
050.99	Soluble K2O, Other (14%)	0157	13.35	0.3000	13.90	0.4466	0.2705	30	-1.23	OK	0
050.99	Soluble K2O, Other (14%)	0307	13.50	1.200	13.90	0.4466	0.2705	30	-0.89	OK	0
050.99	Soluble K2O, Other (14%)	0612	13.60	0.6000	13.90	0.4466	0.2705	30	-0.67	OK	0
050.99	Soluble K2O, Other (14%)	0615	13.70	0.6000	13.90	0.4466	0.2705	30	-0.44	OK	0
050.99	Soluble K2O, Other (14%)	0451	13.72	0.1200	13.90	0.4466	0.2705	30	-0.40	OK	0
050.99	Soluble K2O, Other (14%)	0577	13.77	0.5700	13.90	0.4466	0.2705	30	-0.30	OK	0
050.99	Soluble K2O, Other (14%)	0394	13.80	0.0530	13.90	0.4466	0.2705	30	-0.22	OK	0
050.99	Soluble K2O, Other (14%)	0433	13.83	0.1700	13.90	0.4466	0.2705	30	-0.16	OK	0
050.99	Soluble K2O, Other (14%)	0498	13.90	0.2000	13.90	0.4466	0.2705	30	0.01	OK	0
050.99	Soluble K2O, Other (14%)	0638	13.93	0.0700	13.90	0.4466	0.2705	30	0.06	OK	0
050.99	Soluble K2O, Other (14%)	0559	13.93	0.0200	13.90	0.4466	0.2705	30	0.07	OK	0
050.99	Soluble K2O, Other (14%)	0653	13.93	0.0200	13.90	0.4466	0.2705	30	0.07	OK	0
050.99	Soluble K2O, Other (14%)	0605	13.98	0.2200	13.90	0.4466	0.2705	30	0.18	OK	0
050.99	Soluble K2O, Other (14%)	0553	14.03	0.0900	13.90	0.4466	0.2705	30	0.29	OK	0
050.99	Soluble K2O, Other (14%)	0534	14.05	0.6700	13.90	0.4466	0.2705	30	0.33	OK	0
050.99	Soluble K2O, Other (14%)	0600	14.05	0.3000	13.90	0.4466	0.2705	30	0.34	OK	0
050.99	Soluble K2O, Other (14%)	0402	14.06	0.1480	13.90	0.4466	0.2705	30	0.36	OK	0
050.99	Soluble K2O, Other (14%)	0545	14.08	0.1100	13.90	0.4466	0.2705	30	0.40	OK	0
050.99	Soluble K2O, Other (14%)	0602	14.15	0.1000	13.90	0.4466	0.2705	30	0.57	OK	0
050.99	Soluble K2O, Other (14%)	0624	14.16	0.3100	13.90	0.4466	0.2705	30	0.58	OK	0
050.99	Soluble K2O, Other (14%)	0536	14.18	0.2700	13.90	0.4466	0.2705	30	0.62	OK	0
050.99	Soluble K2O, Other (14%)	0234	14.26	0.2800	13.90	0.4466	0.2705	30	0.81	OK	0
050.99	Soluble K2O, Other (14%)	0527	14.42	0.1363	13.90	0.4466	0.2705	30	1.18	OK	0
050.99	Soluble K2O, Other (14%)	0647	14.54	0.2400	13.90	0.4466	0.2705	30	1.44	OK	0
050.99	Soluble K2O, Other (14%)	0584	14.60	0.3800	13.90	0.4466	0.2705	30	1.57	OK	0
050.99	Soluble K2O, Other (14%)	0042	14.65	0.3000	13.90	0.4466	0.2705	30	1.69	OK	0
050.99	Soluble K2O, Other (14%)	0524	13.90	1.736	13.90	0.4466	0.2705	30	0.02	OK	1
050.99	Soluble K2O, Other (14%)	0523	1.592	0.0820	13.90	0.4466	0.2705	30	-27.55	Low	2
060.00	Water (Free), Vacuum Oven (%)	0513	0.5550	0.0300				1			0
060.99	Water (Free), Other (%)	0510	1.509	0.0145				1			0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0354	2.100	0.0400	2.130	0.0277	0.0430	3	-1.06		0
101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0402	2.134	0.0390	2.130	0.0277	0.0430	3	0.14		0

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101.30	Acid Soluble Ca, ICP, test portion inorganic 965.09 (%)	0035	2.155	0.0500	2.130	0.0277	0.0430	3	0.92		0
101.32	Acid Soluble Ca, ICP, test portion 2006.03A-C (%)	0423	1.975	0.0100				1			0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0009	2.100	0.0000	2.218	0.1431	0.0276	4	-0.82		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0494	2.144	0.0361	2.218	0.1431	0.0276	4	-0.52		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0472	2.205	0.0100	2.218	0.1431	0.0276	4	-0.09		0
101.33	Acid Soluble Ca, ICP, 2017.02 (%)	0527	2.422	0.0368	2.218	0.1431	0.0276	4	1.43		0
121.03	Acid Soluble Mg, AA, 965.09, test portion 2006.03A-C w/dual a	0498	0.4200	0.0400				1			0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0371	0.2000	0.0000	0.2659	0.0963	0.0103	4	-0.68		0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0354	0.2250	0.0100	0.2659	0.0963	0.0103	4	-0.42		0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0035	0.2295	0.0090	0.2659	0.0963	0.0103	4	-0.38		0
121.30	Acid Soluble Mg, ICP, test portion inorganic 965.09 (%)	0402	0.4090	0.0120	0.2659	0.0963	0.0103	4	1.49		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0009	0.2280	0.0080	0.2672	0.0376	0.0494	5	-1.04		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0494	0.2334	0.0245	0.2672	0.0376	0.0494	5	-0.90		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0527	0.2641	0.0069	0.2672	0.0376	0.0494	5	-0.08		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0472	0.3000	0.0200	0.2672	0.0376	0.0494	5	0.87		0
121.33	Acid Soluble Mg, ICP, 2017.02 (%)	0515	0.3108	0.1876	0.2672	0.0376	0.0494	5	1.16		0
121.99	Acid Soluble Mg, Other (%)	0515	0.1723	0.0223				2			0
121.99	Acid Soluble Mg, Other (%)	0524	0.2144	0.0086				2			0
143.00	Elemental S, Gravimetric Sulfur - carbon disulfide soluble sulfur	0405	0.3480	0.0180				1			0
143.99	Elemental S, Other (%)	0255	4.693	0.0460	5.121	0.3081	0.0599	4	-1.39		0
143.99	Elemental S, Other (%)	0291	5.100	0.0200	5.121	0.3081	0.0599	4	-0.07		0
143.99	Elemental S, Other (%)	0368	5.336	0.0035	5.121	0.3081	0.0599	4	0.70		0
143.99	Elemental S, Other (%)	0389	5.355	0.1700	5.121	0.3081	0.0599	4	0.76		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0405	5.020	0.0200	5.217	0.1842	0.0686	4	-1.07		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0027	5.185	0.0300	5.217	0.1842	0.0686	4	-0.17		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0476	5.196	0.1745	5.217	0.1842	0.0686	4	-0.11		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0561	5.465	0.0500	5.217	0.1842	0.0686	4	1.35		0
145.99	Sulfate S, HCl soluble, Other (%)	0553	5.120	0.1200				2			0
145.99	Sulfate S, HCl soluble, Other (%)	0600	5.150	0.1000				2			0
148.00	Total S, Combustion (5%)	0025	4.665	0.8300	5.081	0.3230	0.2627	5	-1.29		0
148.00	Total S, Combustion (5%)	0157	4.955	0.0500	5.081	0.3230	0.2627	5	-0.39		0
148.00	Total S, Combustion (5%)	0049	4.998	0.0366	5.081	0.3230	0.2627	5	-0.25		0
148.00	Total S, Combustion (5%)	0029	5.275	0.2170	5.081	0.3230	0.2627	5	0.60		0
148.00	Total S, Combustion (5%)	0131	5.510	0.1800	5.081	0.3230	0.2627	5	1.33		0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0534	4.875	0.0500	5.185	0.2423	0.2240	6	-1.14	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0498	5.040	0.1200	5.185	0.2423	0.2240	6	-0.53	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0055	5.170	0.0000	5.185	0.2423	0.2240	6	-0.06	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0324	5.190	0.4600	5.185	0.2423	0.2240	6	0.02	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0548	5.380	0.1600	5.185	0.2423	0.2240	6	0.72	OK	0
148.01	Total S, Gravimetric - sulfate and elemental (5%)	0584	5.455	0.3300	5.185	0.2423	0.2240	6	0.99	OK	0
148.03	Total S, Spectrometric, w/Br digestion (5%)	0602	4.900	0.1000				1			0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0292	4.485	0.0100	5.028	0.3428	0.1087	16	-1.58	Low	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0543	4.608	0.0730	5.028	0.3428	0.1087	16	-1.23	OK	0

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148.07	Total S, ICP, test portion as in 2017.02 (5%)	0177	4.746	0.0383	5.028	0.3428	0.1087	16	-0.82	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0472	4.835	0.0300	5.028	0.3428	0.1087	16	-0.56	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0040	4.900	0.2000	5.028	0.3428	0.1087	16	-0.37	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0624	4.910	0.0400	5.028	0.3428	0.1087	16	-0.34	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0612	4.925	0.4100	5.028	0.3428	0.1087	16	-0.30	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0494	4.976	0.4510	5.028	0.3428	0.1087	16	-0.15	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0136	5.000	0.0000	5.028	0.3428	0.1087	16	-0.08	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0169	5.005	0.0700	5.028	0.3428	0.1087	16	-0.07	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0043	5.073	0.1010	5.028	0.3428	0.1087	16	0.13	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0394	5.197	0.0538	5.028	0.3428	0.1087	16	0.49	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0402	5.230	0.0330	5.028	0.3428	0.1087	16	0.59	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0515	5.470	0.6600	5.028	0.3428	0.1087	16	1.29	OK	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0513	5.515	0.0500	5.028	0.3428	0.1087	16	1.42	High	0
148.07	Total S, ICP, test portion as in 2017.02 (5%)	0527	5.744	0.1153	5.028	0.3428	0.1087	16	2.09	High	0
148.99	Total S, Other (5%)	0558	4.205	0.1500	5.123	0.3903	0.0786	14	-2.35	Low	0
148.99	Total S, Other (5%)	0377	4.550	0.1400	5.123	0.3903	0.0786	14	-1.47	Low	0
148.99	Total S, Other (5%)	0602	4.900	0.1000	5.123	0.3903	0.0786	14	-0.57	OK	0
148.99	Total S, Other (5%)	0371	4.950	0.1000	5.123	0.3903	0.0786	14	-0.44	OK	0
148.99	Total S, Other (5%)	0023	5.042	0.0490	5.123	0.3903	0.0786	14	-0.21	OK	0
148.99	Total S, Other (5%)	0354	5.090	0.1000	5.123	0.3903	0.0786	14	-0.09	OK	0
148.99	Total S, Other (5%)	0647	5.100	0.0400	5.123	0.3903	0.0786	14	-0.06	OK	0
148.99	Total S, Other (5%)	0605	5.105	0.0300	5.123	0.3903	0.0786	14	-0.05	OK	0
148.99	Total S, Other (5%)	0559	5.145	0.0100	5.123	0.3903	0.0786	14	0.06	OK	0
148.99	Total S, Other (5%)	0307	5.200	0.0000	5.123	0.3903	0.0786	14	0.20	OK	0
148.99	Total S, Other (5%)	0072	5.340	0.0200	5.123	0.3903	0.0786	14	0.56	OK	0
148.99	Total S, Other (5%)	0405	5.365	0.0300	5.123	0.3903	0.0786	14	0.62	OK	0
148.99	Total S, Other (5%)	0422	5.694	0.2020	5.123	0.3903	0.0786	14	1.46	High	0
148.99	Total S, Other (5%)	0220	6.300	0.0000	5.123	0.3903	0.0786	14	3.01	High	0
149.04	S - HNO3 soluble, ICP (%)	0423	5.017	0.1220				2			0
149.04	S - HNO3 soluble, ICP (%)	0524	5.448	0.0229				2			0
151.00	Acid Soluble As, AA, test portion 2006.03 modified w/dual acid	0498	1.150	0.1000				1			0
151.30	Acid Soluble As, ICP (ppm)	0524	2.923	0.4096				1			0
151.30	Acid Soluble As, ICP (ppm)	0255	0.0000	0.0000				1			4
151.30	Acid Soluble As, ICP (ppm)	0605	< 6.25					1			5
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0220	4.600	0.2600				2			0
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0405	8.500	1.000				2			0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0136	2.800	0.2000	9.545	11.83	7.483	5	-0.57		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0548	3.180	0.1600	9.545	11.83	7.483	5	-0.54		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0527	3.893	0.0162	9.545	11.83	7.483	5	-0.48		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0009	7.400	0.9400	9.545	11.83	7.483	5	-0.18		0
151.33	Acid Soluble As, ICP, 2017.02 (ppm)	0515	30.45	36.10	9.545	11.83	7.483	5	1.77		0
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	0515	6.995	11.01				2			0
151.34	Acid Soluble As, ICP, EPA 3050B/6010C (ppm)	0368	9.200	0.0000				2			0

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151.99	Acid Soluble As, Other (ppm)	0220	4.655	0.1300	66.60	103.0	1.217	3	-0.60		0
151.99	Acid Soluble As, Other (ppm)	0009	9.640	0.5200	66.60	103.0	1.217	3	-0.55		0
151.99	Acid Soluble As, Other (ppm)	0558	185.5	3.000	66.60	103.0	1.217	3	1.15		0
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0371	0.0000	0.0000				0			4
165.30	Acid Soluble B, ICP, test portion in 982.01 (%)	0354	< 0.01					0			5
165.99	Acid Soluble B, Other (%)	0524	0.0006	0.0000	0.0246	0.0208	0.0001	3	-1.15		0
165.99	Acid Soluble B, Other (%)	0559	0.0366	0.0001	0.0246	0.0208	0.0001	3	0.58		0
165.99	Acid Soluble B, Other (%)	0653	0.0366	0.0001	0.0246	0.0208	0.0001	3	0.58		0
165.99	Acid Soluble B, Other (%)	0527	< 0.001		0.0246	0.0208	0.0001	3			5
165.99	Acid Soluble B, Other (%)	0009	< 0.0025		0.0246	0.0208	0.0001	3			5
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acid	0498	1.000	0.0000				1			0
181.30	Acid Soluble Cd, ICP (ppm)	0524	1.005	0.0051	1.111	0.0922	0.0326	5	-1.15		0
181.30	Acid Soluble Cd, ICP (ppm)	0605	1.035	0.0100	1.111	0.0922	0.0326	5	-0.82		0
181.30	Acid Soluble Cd, ICP (ppm)	0394	1.109	0.0310	1.111	0.0922	0.0326	5	-0.03		0
181.30	Acid Soluble Cd, ICP (ppm)	0255	1.197	0.0970	1.111	0.0922	0.0326	5	0.93		0
181.30	Acid Soluble Cd, ICP (ppm)	0035	1.210	0.0200	1.111	0.0922	0.0326	5	1.07		0
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0220	0.8300	0.2200				2			0
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0405	1.000	0.0000				2			0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0086	0.9868	0.0787	1.279	0.4516	0.0819	4	-0.55		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0548	1.030	0.0400	1.279	0.4516	0.0819	4	-0.47		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0136	1.150	0.1000	1.279	0.4516	0.0819	4	-0.24		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0527	1.948	0.1088	1.279	0.4516	0.0819	4	1.26		0
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0515	< 0.19		1.279	0.4516	0.0819	4			5
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0009	< 2		1.279	0.4516	0.0819	4			5
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	0368	1.700	0.2000				1			0
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	0515	< 0.33					1			5
181.99	Acid Soluble Cd, Other (ppm)	0220	0.7150	0.0100	1.022	0.2935	0.0755	3	-1.04		0
181.99	Acid Soluble Cd, Other (ppm)	0534	1.050	0.1410	1.022	0.2935	0.0755	3	0.10		0
181.99	Acid Soluble Cd, Other (ppm)	0009	1.300	0.0000	1.022	0.2935	0.0755	3	0.95		0
191.00	Acid Soluble Cr, AA, test portion 2006.03 modified w/dual acid	0498	24.30	1.800				1			0
191.30	Acid Soluble Cr, ICP (ppm)	0524	14.55	2.194	18.54	2.773	0.8526	4	-1.44		0
191.30	Acid Soluble Cr, ICP (ppm)	0394	19.20	0.0370	18.54	2.773	0.8526	4	0.24		0
191.30	Acid Soluble Cr, ICP (ppm)	0035	19.45	0.9000	18.54	2.773	0.8526	4	0.33		0
191.30	Acid Soluble Cr, ICP (ppm)	0605	20.97	0.2800	18.54	2.773	0.8526	4	0.88		0
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0220	22.50	0.2000				2			0
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0405	23.00	0.0000				2			0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0548	17.49	0.5400	21.03	2.436	0.8868	5	-1.27		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0136	19.70	0.4000	21.03	2.436	0.8868	5	-0.48		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0494	21.65	2.100	21.03	2.436	0.8868	5	0.22		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0527	23.12	0.7938	21.03	2.436	0.8868	5	0.75		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0009	23.20	0.6000	21.03	2.436	0.8868	5	0.78		0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0515	26.95	24.30	21.03	2.436	0.8868	5	2.12		1
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	0368	17.10	0.0000				2			0

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191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	0515	20.40	14.80				2			0
191.99	Acid Soluble Cr, Other (ppm)	0220	22.10	0.2000				2			0
191.99	Acid Soluble Cr, Other (ppm)	0009	27.15	1.500				2			0
202.30	Acid Soluble Co, ICP (ppm)	0035	0.6610	0.0520	1.069	0.3999	0.0714	3	-1.02		0
202.30	Acid Soluble Co, ICP (ppm)	0605	1.085	0.1300	1.069	0.3999	0.0714	3	0.04		0
202.30	Acid Soluble Co, ICP (ppm)	0524	1.460	0.0323	1.069	0.3999	0.0714	3	0.98		0
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0220	0.7900	0.0000				2			0
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0405	1.000	0.0000				2			0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0548	0.9450	0.0500				2			0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0527	1.440	0.2466				2			0
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0515	< 0.26					2			5
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0009	< 2					2			5
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0136	< 2.5					2			5
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0086	< 10					2			5
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	0368	0.3500	0.1000				1			0
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	0515	< 0.324					1			5
202.99	Acid Soluble Co, Other (ppm)	0220	0.6950	0.0300				2			0
202.99	Acid Soluble Co, Other (ppm)	0009	1.375	0.0300				2			0
202.99	Acid Soluble Co, Other (ppm)	0255	0.0000	0.0000				2			4
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0035	0.0009	0.0003				2			0
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0402	0.0030	0.0000				2			0
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0255	0.0000	0.0000				2			4
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000				2			4
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0354	< 0.01					2			5
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0405	0.0006	0.0000				1			0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0548	0.0005	0.0000	0.0011	0.0010	0.0003	5	-0.51		0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0394	0.0006	0.0001	0.0011	0.0010	0.0003	5	-0.47		0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0136	0.0008	0.0001	0.0011	0.0010	0.0003	5	-0.29		0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0527	0.0008	0.0001	0.0011	0.0010	0.0003	5	-0.29		0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0624	0.0028	0.0010	0.0011	0.0010	0.0003	5	1.55		0
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0515	0.0029	0.0039	0.0011	0.0010	0.0003	5	1.60		1
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0027	< 0.001		0.0011	0.0010	0.0003	5			5
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0009	< 0.0025		0.0011	0.0010	0.0003	5			5
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0086	< 10		0.0011	0.0010	0.0003	5			5
221.99	Acid Soluble Cu, Other (%)	0524	0.0005	0.0000	0.0012	0.0011	0.0018	5	-0.56		0
221.99	Acid Soluble Cu, Other (%)	0368	0.0007	0.0001	0.0012	0.0011	0.0018	5	-0.44		0
221.99	Acid Soluble Cu, Other (%)	0009	0.0007	0.0000	0.0012	0.0011	0.0018	5	-0.39		0
221.99	Acid Soluble Cu, Other (%)	0559	0.0010	0.0000	0.0012	0.0011	0.0018	5	-0.15		0
221.99	Acid Soluble Cu, Other (%)	0515	0.0031	0.0035	0.0012	0.0011	0.0018	5	1.54		0
221.99	Acid Soluble Cu, Other (%)	0605	6.230	0.1600	0.0012	0.0011	0.0018	5	5124.31		1
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0035	0.0535	0.0010	0.0690	0.0158	0.0107	3	-0.98		0
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0402	0.0685	0.0010	0.0690	0.0158	0.0107	3	-0.03		0
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0354	0.0850	0.0300	0.0690	0.0158	0.0107	3	1.02		0

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241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000	0.0690	0.0158	0.0107	3			4
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0009	0.0595	0.0008	0.0621	0.0041	0.0012	3	-0.64		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0472	0.0600	0.0000	0.0621	0.0041	0.0012	3	-0.52		0
241.33	Acid Soluble Fe, ICP, 2017.02 (%)	0527	0.0669	0.0015	0.0621	0.0041	0.0012	3	1.15		0
241.99	Acid Soluble Fe, Other (%)	0559	0.0514	0.0001				2			0
241.99	Acid Soluble Fe, Other (%)	0524	0.0563	0.0056				2			0
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	0498	< 0.5					0			5
251.30	Acid Soluble Pb, ICP (ppm)	0524	3.607	0.3306	4.486	1.091	0.1974	4	-0.81		0
251.30	Acid Soluble Pb, ICP (ppm)	0605	4.110	0.0200	4.486	1.091	0.1974	4	-0.34		0
251.30	Acid Soluble Pb, ICP (ppm)	0394	4.149	0.0190	4.486	1.091	0.1974	4	-0.31		0
251.30	Acid Soluble Pb, ICP (ppm)	0035	6.080	0.4200	4.486	1.091	0.1974	4	1.46		0
251.30	Acid Soluble Pb, ICP (ppm)	0255	0.0000	0.0000	4.486	1.091	0.1974	4			4
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0220	4.805	0.1300				1			0
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0405	< 4					1			5
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0548	3.230	0.1400	6.937	5.904	3.524	3	-0.63		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0527	3.835	0.0207	6.937	5.904	3.524	3	-0.53		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0515	13.75	10.41	6.937	5.904	3.524	3	1.15		0
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0136	< 3		6.937	5.904	3.524	3			5
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0009	< 6		6.937	5.904	3.524	3			5
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	0515	8.875	6.850				2			0
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	0368	11.35	1.900				2			0
251.99	Acid Soluble Pb, Other (ppm)	0220	4.750	0.3000				1			0
251.99	Acid Soluble Pb, Other (ppm)	0009	< 2.5					1			5
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	0035	0.0030	0.0000				1			0
261.30	Acid Soluble Mn, ICP, test portion 972.02a (%)	0354	< 0.01					1			5
261.32	Acid Soluble Mn, ICP, test portion inorganic 965.09 (%)	0371	0.2000	0.0000				1			0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0009	0.0025	0.0000	0.0028	0.0003	0.0001	3	-1.05		0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0527	0.0029	0.0001	0.0028	0.0003	0.0001	3	0.11		0
261.35	Acid Soluble Mn, ICP, 2017.02 (%)	0494	0.0031	0.0000	0.0028	0.0003	0.0001	3	0.94		0
261.99	Acid Soluble Mn, Other (%)	0524	0.0025	0.0002				2			0
261.99	Acid Soluble Mn, Other (%)	0559	0.0445	0.0010				2			0
281.00	Acid Soluble Hg, AA (ppm)	0534	< 0.05					0			5
281.00	Acid Soluble Hg, AA (ppm)	0498	< 0.5					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0527	< 0.001					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0515	< 0.01					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0605	< 1.25					0			5
281.30	Acid Soluble Hg, ICP (ppm)	0405	< 2					0			5
281.99	Acid Soluble Hg, Other (ppm)	0524	0.0007	0.0002				1			0
281.99	Acid Soluble Hg, Other (ppm)	0220	< 0.01					1			5
281.99	Acid Soluble Hg, Other (ppm)	0009	< 0.044					1			5
289.30	Acid Soluble Mo, ICP (ppm)	0523	0.4435	0.2330	0.9020	0.4485	0.1448	4	-1.02		0
289.30	Acid Soluble Mo, ICP (ppm)	0255	0.5935	0.0730	0.9020	0.4485	0.1448	4	-0.69		0
289.30	Acid Soluble Mo, ICP (ppm)	0524	1.241	0.2132	0.9020	0.4485	0.1448	4	0.76		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
289.30	Acid Soluble Mo, ICP (ppm)	0605	1.330	0.0600	0.9020	0.4485	0.1448	4	0.95		0
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	0405	1.000	0.0000				2			0
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	0220	1.095	0.0700				2			0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0548	1.085	0.0500				2			0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0527	1.605	0.3948				2			0
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0515	< 0.23					2			5
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0136	< 2.5					2			5
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0009	< 4					2			5
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	0368	< 0.1					0			5
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	0515	< 0.255					0			5
289.99	Acid Soluble Mo, Other (ppm)	0220	1.055	0.0300				2			0
289.99	Acid Soluble Mo, Other (ppm)	0009	1.335	0.0300				2			0
291.00	Acid Soluble Ni, AA, test portion 2006.03 modified w/dual acid (	0498	< 10					0			5
291.30	Acid Soluble Ni, ICP (ppm)	0035	4.735	0.1500	6.143	2.009	0.1425	5	-0.70		0
291.30	Acid Soluble Ni, ICP (ppm)	0524	4.861	0.0084	6.143	2.009	0.1425	5	-0.64		0
291.30	Acid Soluble Ni, ICP (ppm)	0394	5.546	0.1243	6.143	2.009	0.1425	5	-0.30		0
291.30	Acid Soluble Ni, ICP (ppm)	0605	5.950	0.3800	6.143	2.009	0.1425	5	-0.10		0
291.30	Acid Soluble Ni, ICP (ppm)	0494	9.625	0.0500	6.143	2.009	0.1425	5	1.73		0
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0220	6.375	0.0100				2			0
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0405	8.500	3.000				2			0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0548	5.460	0.1400	6.375	0.7916	0.2016	4	-1.16		0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0009	6.065	0.0500	6.375	0.7916	0.2016	4	-0.39		0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0527	6.676	0.0165	6.375	0.7916	0.2016	4	0.38		0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0136	7.300	0.6000	6.375	0.7916	0.2016	4	1.17		0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0086	< 10		6.375	0.7916	0.2016	4			5
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	0368	7.800	0.2000				2			0
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	0515	8.780	4.840				2			0
291.99	Acid Soluble Ni, Other (ppm)	0255	6.238	1.442	6.551	0.4099	0.5307	3	-0.76		0
291.99	Acid Soluble Ni, Other (ppm)	0220	6.400	0.1400	6.551	0.4099	0.5307	3	-0.37		0
291.99	Acid Soluble Ni, Other (ppm)	0009	7.015	0.0100	6.551	0.4099	0.5307	3	1.13		0
301.30	Acid Soluble Se, ICP (ppm)	0524	2.096	0.5155				1			0
301.30	Acid Soluble Se, ICP (ppm)	0605	< 6.25					1			5
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0220	< 0.3					0			5
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0405	< 10					0			5
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0548	3.005	0.1100				2			0
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0515	38.95	53.70				2			0
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0527	< 0.01					2			5
301.33	Acid Soluble Se, ICP, 2017.02 (ppm)	0009	< 22					2			5
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	0515	< 0.554					0			5
301.34	Acid Soluble Se, ICP, EPA 3050B/6010C (ppm)	0368	< 1.5					0			5
301.99	Acid Soluble Se, Other (ppm)	0009	16.55	3.500				1			0
301.99	Acid Soluble Se, Other (ppm)	0255	0.0000	0.0000				1			4
301.99	Acid Soluble Se, Other (ppm)	0220	< 0.3					1			5

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0035	0.1435	0.0010	0.1471	0.0045	0.0029	3	-0.78		0
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0009	0.1455	0.0070	0.1471	0.0045	0.0029	3	-0.34		0
311.33	Sodium, ICP, test portion as in 2017.02 (%)	0527	0.1522	0.0007	0.1471	0.0045	0.0029	3	1.13		0
311.99	Sodium, Other (%)	0354	0.1550	0.0100				1			0
321.03	Acid Soluble Zn, AA, 965.09, test portion 2006.03A-C w/dual ac	0498	< 0.01					0			5
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0035	0.0030	0.0000	0.0035	0.0009	0.0010	3	-0.58		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0255	0.0030	0.0000	0.0035	0.0009	0.0010	3	-0.58		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0402	0.0045	0.0010	0.0035	0.0009	0.0010	3	1.15		0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0371	0.0000	0.0000	0.0035	0.0009	0.0010	3			4
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0354	< 0.01		0.0035	0.0009	0.0010	3			5
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0405	0.0031	0.0002				2			0
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0220	0.0035	0.0005				2			0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0515	0.0019	0.0021	0.0031	0.0003	0.0009	9	-4.22	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0527	0.0030	0.0001	0.0031	0.0003	0.0009	9	-0.52	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0043	0.0030	0.0000	0.0031	0.0003	0.0009	9	-0.35	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0136	0.0030	0.0000	0.0031	0.0003	0.0009	9	-0.35	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0548	0.0030	0.0000	0.0031	0.0003	0.0009	9	-0.35	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0086	0.0032	0.0000	0.0031	0.0003	0.0009	9	0.32	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0009	0.0033	0.0002	0.0031	0.0003	0.0009	9	0.66	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0394	0.0033	0.0000	0.0031	0.0003	0.0009	9	0.66	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0027	0.0035	0.0010	0.0031	0.0003	0.0009	9	1.33	OK	0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0624	0.0355	0.0010	0.0031	0.0003	0.0009	9	109.04	High	2
321.99	Acid Soluble Zn, Other (%)	0220	0.0024	0.0004	0.0028	0.0005	0.0002	6	-0.74	OK	0
321.99	Acid Soluble Zn, Other (%)	0559	0.0024	0.0002	0.0028	0.0005	0.0002	6	-0.74	OK	0
321.99	Acid Soluble Zn, Other (%)	0653	0.0025	0.0001	0.0028	0.0005	0.0002	6	-0.65	OK	0
321.99	Acid Soluble Zn, Other (%)	0368	0.0032	0.0003	0.0028	0.0005	0.0002	6	0.54	OK	0
321.99	Acid Soluble Zn, Other (%)	0524	0.0033	0.0001	0.0028	0.0005	0.0002	6	0.71	OK	0
321.99	Acid Soluble Zn, Other (%)	0515	0.0034	0.0003	0.0028	0.0005	0.0002	6	0.88	OK	0
321.99	Acid Soluble Zn, Other (%)	0605	28.85	1.130	0.0028	0.0005	0.0002	6	49125.62	High	1

Interpreting Z Scores and Flags:

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

Notes:

*Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. Identical duplicates not included in calculation of Rob R-bar. IA Status describes where your result is relative to the Assigned Value $\pm$ IA. Red indicates Higher or Lower and Green indicates within the IA range about the Robust mean. Method codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for