

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 131

Sample # 170911

Statistical Summary

Labs Reporting: 94

MAP plus S, 12-40-0

Issue Date : 10/31/2017

Method Code	Analyte & Method	# 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	IA %RSD	Average Range (R-bar)	Horwitz %RSD
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	11	11	11.93	0.8545	12.13		0.3109	0.1172	2.56%		0.0606	2.75%
001.99	Ammoniacal Nitrogen, Other (%)	24	23	12.36	0.2695	12.35		0.2680	0.0699	2.17%		0.0668	2.74%
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	2	2	12.81	0.4773								
010.11	Total Nitrogen, Modified Comprehensive (12%)	7	6	12.36	0.1885	12.36	0.6146	0.2114	0.1079	1.71%	2.49%	0.0238	2.74%
010.12	Total Nitrogen, Salicylic (12%)	3	3	12.72	0.0557	12.72	0.6146	0.0557	0.0402	0.44%	2.42%	0.0979	2.73%
010.60	Total Nitrogen, Combustion (12%)	60	57	12.47	0.2252	12.46	0.6146	0.2012	0.0333	1.62%	2.47%	0.1003	2.74%
010.99	Total Nitrogen, Other (12%)	6	6	12.63	0.5846	12.49	0.6146	0.2802	0.1430	2.24%	2.46%	0.0911	2.74%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ... (%)	7	7	39.58	0.2467	39.58		0.2797	0.1321	0.71%		0.0929	2.30%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb... (%)	15	15	38.77	2.658	39.35		0.7774	0.2509	1.98%		0.2275	2.30%
020.30	Total Phosphorus as P2O5, Alkalimetric Quinolinium... (%)	1		40.14									
020.40	Total Phosphorus as P2O5, Automated (%)	4	4	39.61	0.4906	39.61		0.4906	0.3066	1.24%		0.1625	2.30%
020.50	Total Phosphorus as P2O5, ICP (%)	18	17	39.48	2.071	39.39		2.117	0.6417	5.37%		0.4125	2.30%
020.99	Total Phosphorus as P2O5, Other (%)	4	4	34.00	6.840	34.00		6.840	4.275	20.11%		0.3584	2.35%
030.20	Citrate Insoluble Phosphorus as P2O5, Spectrophoto... (%)	1		0.0055									
030.40	Citrate Insoluble Phosphorus as P2O5, Automated, t... (%)	2	2	0.0250	0.0141								
040.20	Indirect Available Phosphorus as P2O5, Spectrophot... (%)	1		39.16									
040.40	Indirect Available Phosphorus as P2O5, Automated (%)	2	2	39.27	0.0248								
040.99	Indirect Available Phosphorus as P2O5, Other (%)	1		39.21									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q... (40%)	8	8	39.24	0.5151	39.24	0.8875	0.5841	0.2581	1.49%	1.13%	0.0825	2.30%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q... (40%)	3	3	39.68	0.4049	39.68	0.8875	0.4049	0.2922	1.02%	1.12%	0.1904	2.30%
041.20	Direct Available Phosphorus as P2O5, Spectrophotom... (40%)	3	3	38.64	1.645	38.64	0.8875	1.645	1.187	4.26%	1.15%	0.5964	2.31%
041.21	Direct Available Phosphorus as P2O5, Spectrophotom... (40%)	4	4	39.10	0.5072	39.10	0.8875	0.5072	0.3170	1.30%	1.13%	0.4150	2.30%
041.40	Direct Available Phosphorus as P2O5, Automated (40%)	2	2	39.74	3.019								
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	5	5	38.86	1.249	38.86	0.8875	1.249	0.6981	3.21%	1.14%	0.4320	2.31%
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-... (40%)	7	7	38.99	0.6561	38.99	0.8875	0.7440	0.3515	1.91%	1.14%	0.6786	2.30%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ... (40%)	15	15	39.32	1.291	39.32	0.8875	1.265	0.4083	3.22%	1.13%	0.1992	2.30%
041.99	Direct Available Phosphorus as P2O5, Other (40%)	9	7	39.98	0.3126	40.02	0.8875	0.2405	0.1136	0.60%	1.11%	0.1514	2.30%
042.10	Water Soluble Orthophosphate as P2O5, Spectrophoto... (%)	1		33.35									
048.10	Water Soluble Phosphorus as P2O5, Gravimetric Quin... (%)	1		34.72									
048.20	Water Soluble Phosphorus as P2O5, Spectrophotometr... (%)	1		35.61									
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	1		35.45									

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048.50	Water Soluble Phosphorus as P2O5, ICP (%)	1		34.86									
048.99	Water Soluble Phosphorus as P2O5, Other (%)	2	2	34.87	0.2828								
050.31	Soluble Potassium as K2O, AA (Citrate) (%)	1		0.0850									
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	1		0.3600									
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	2	2	0.3803	0.3447								
050.99	Soluble Potassium as K2O, Other (%)	9	8	0.1272	0.0141	0.1277		0.0093	0.0041	7.28%		0.0041	5.45%
060.00	Water (Free), Vacuum Oven (%)	4	4	1.325	0.2956	1.325		0.2956	0.1847	22.31%		0.1049	3.83%
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours,... (%)	1		2.600									
060.99	Water (Free), Other (%)	3	3	1.718	0.5184	1.718		0.5184	0.3741	30.18%		0.0113	3.69%
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	8	8	0.4559	0.0982	0.4607		0.0840	0.0371	18.24%		0.0498	4.49%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	2	2	0.4451	0.0098								
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C... (%)	6	5	0.3592	0.1154	0.3592		0.1154	0.0645	32.13%		0.0051	4.67%
101.99	Acid Soluble Calcium, Other (%)	1		0.4150									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (	7	7	1.437	0.1106	1.435		0.1209	0.0571	8.42%		0.0406	3.79%
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A...	3	3	1.410	0.1121	1.410		0.1121	0.0809	7.95%		0.0183	3.80%
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A...	7	7	1.262	0.1251	1.267		0.1281	0.0605	10.11%		0.0298	3.86%
121.99	Acid Soluble Magnesium, Other (%)	3	3	1.272	0.0867	1.272		0.0867	0.0626	6.81%		0.0247	3.86%
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon disu... (%)	1		0.0000									
143.99	Elemental Sulfur, Other (%)	5	5	7.104	0.2802	7.104		0.2802	0.1566	3.94%		0.1271	2.98%
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - ... (%)	8	8	7.322	0.2439	7.322		0.2766	0.1223	3.78%		0.1460	2.96%
145.99	Sulfate Sulfur, HCl soluble, Other (%)	3	3	7.128	0.4125	7.128		0.4125	0.2977	5.79%		0.2300	2.98%
146.99	Total Sulfur in Liquid, Other (%)	1		6.960									
148.00	Total Sulfur, Combustion (6.5%)	8	8	7.170	0.2348	7.160	0.5511	0.2427	0.1072	3.39%	3.85%	0.1458	2.97%
148.01	Total Sulfur, Gravimetric - sulfate and elemental... (6.5	18	17	7.187	0.2111	7.215	0.5511	0.1544	0.0468	2.14%	3.82%	0.0771	2.97%
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi... (6.5	13	12	6.607	0.5843	6.774	0.5511	0.2565	0.0926	3.79%	4.07%	0.0875	3.00%
148.99	Total Sulfur, Other (6.5%)	9	9	7.072	2.374	6.937	0.5511	0.7417	0.3091	10.69%	3.97%	0.1187	2.99%
149.04	Sulfur - HNO3 soluble, ICP (%)	5	5	7.054	0.5385	7.054		0.5385	0.3010	7.63%		0.0228	2.98%
151.00	Acid Soluble Arsenic , AA, test portion as in 2006... (pp	1		1.650									
151.30	Acid Soluble Arsenic , ICP (ppm)	5	5	2.132	1.757	2.132		1.757	0.9820	82.41%		0.9164	14.27%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9:3... (	4	4	2.140	1.659	2.140		1.659	1.037	77.53%		0.1742	14.27%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	1		1.306									
151.99	Acid Soluble Arsenic , Other (ppm)	4	4	2.145	0.1422	2.145		0.1422	0.0889	6.63%		0.0250	14.26%
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (%)	5	5	55.98	78.00	55.98		78.00	43.60	139.35%		4.027	2.18%
165.99	Acid Soluble Boron , Other (%)	7	6	0.0083	0.0074	0.0079		0.0075	0.0038	94.64%		0.0002	8.29%
181.00	Acid Soluble Cadmium , AA, test portion as in 2006... (	1		0.4000									
181.30	Acid Soluble Cadmium , ICP (ppm)	7	6	0.2996	0.1743	0.2893		0.1731	0.0884	59.85%		0.0587	19.28%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3..	4	3	0.2016	0.0144	0.2016		0.0144	0.0104	7.16%		0.0094	20.36%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	1		0.0222									
181.99	Acid Soluble Cadmium , Other (ppm)	2	2	0.1865	0.0545								
190.00	Water Soluble Chlorine, Titrimetric (%)	1		0.1600									
191.30	Acid Soluble Chromium , ICP (ppm)	9	9	388.9	158.2	408.3		130.0	54.16	31.84%		9.203	6.47%
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:...	7	7	487.5	12.92	487.5		14.65	6.923	3.01%		15.72	6.30%

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191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	2	2	462.1	6.563								
191.99	Acid Soluble Chromium , Other (ppm)	3	3	338.5	254.5	338.5		254.5	183.7	75.19%		11.35	6.66%
202.30	Acid Soluble Cobalt , ICP (ppm)	4	3	1.962	0.3225	1.962		0.3225	0.2327	16.43%		0.3946	14.45%
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ... (t	4	4	1.188	0.3329	1.188		0.3329	0.2081	28.02%		0.1017	15.59%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	1		0.8680									
202.99	Acid Soluble Cobalt , Other (ppm)	3	3	0.7749	0.6304	0.7749		0.6304	0.4549	81.35%		0.0198	16.62%
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	1		0.0016									
221.30	Acid Soluble Copper , ICP, test portion inorganic ... (%)	4	4	0.1516	0.2990	0.1516		0.2990	0.1869	197.25%		0.1005	5.31%
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C (%)	3	2	0.0087	0.0118	0.0087		0.0118	0.0105	136.53%		0.0002	8.17%
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C... (	1		0.0003									
221.99	Acid Soluble Copper , Other (%)	5	4	0.0926	0.1849	0.0926		0.1849	0.1156	199.60%		0.0201	5.72%
241.03	Acid Soluble Iron, AA, 965.09, test portion 2006.0... (%)	1		0.2764									
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (%)	9	9	0.2626	0.0151	0.2612		0.0116	0.0049	4.46%		0.0086	4.90%
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C (%)	2	2	0.3501	0.1521								
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w... (%)	7	6	0.2462	0.0095	0.2462		0.0107	0.0055	4.36%		0.0027	4.94%
241.99	Acid Soluble Iron, Other (%)	3	3	0.2352	0.0139	0.2352		0.0139	0.0100	5.91%		0.0078	4.97%
251.00	Acid Soluble Lead , AA, test portion as in 2006.03... (p	1		2.000									
251.30	Acid Soluble Lead , ICP (ppm)	7	6	3.668	7.307	1.179		1.590	0.8113	134.86%		0.1028	15.61%
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN...	2	2	1.137	0.8517								
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	1		0.2757									
251.99	Acid Soluble Lead , Other (ppm)	2	2	0.5510	0.0764								
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (%)	1		0.0163									
261.15	Acid Soluble Manganese , AA, 965.09, test portion ... (	1		0.0153									
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	5	5	0.0173	0.0018	0.0173		0.0018	0.0010	10.17%		0.0007	7.36%
261.31	Acid Soluble Manganese , ICP, test portion 972.02b (%)	2	2	0.0175	0.0036								
261.32	Acid Soluble Manganese , ICP, test portion inorgan... (	2	2	0.0180	0.0029								
261.33	Acid Soluble Manganese , ICP, test portion organic... (	1		163.1									
261.34	Acid Soluble Manganese , ICP, test portion 2006.03...	2	2	0.0159	0.0016								
261.35	Acid Soluble Manganese , ICP, test portion 2006.03...	5	4	0.0146	0.0015	0.0146		0.0015	0.0009	10.07%		0.0005	7.55%
261.99	Acid Soluble Manganese , Other (%)	3	3	0.0140	0.0013	0.0140		0.0013	0.0009	9.09%		0.0004	7.61%
281.30	Acid Soluble Mercury , ICP (ppm)	4	3	0.5788	0.9281	0.5788		0.9281	0.6698	160.34%		0.1710	17.37%
281.99	Acid Soluble Mercury , Other (ppm)	1		0.0350									
289.30	Acid Soluble Molybdenum , ICP (ppm)	9	8	2.730	1.242	2.730		1.409	0.6227	51.61%		0.2093	13.75%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	1		2.390									
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/..	6	6	2.260	0.8697	2.466		0.4550	0.2322	18.45%		0.3026	13.96%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (p	1		1.508									
289.99	Acid Soluble Molybdenum , Other (ppm)	1		1.975									
291.00	Acid Soluble Nickel , AA, test portion as in 2006.... (pp	1		17.00									
291.30	Acid Soluble Nickel , ICP (ppm)	11	11	16.13	5.869	17.23		3.371	1.271	19.56%		0.9770	10.42%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (f	7	7	17.44	1.129	17.69		0.6190	0.2924	3.50%		0.6680	10.38%
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	2	2	14.18	3.581								
291.99	Acid Soluble Nickel , Other (ppm)	5	5	13.36	7.516	13.36		7.516	4.202	56.26%		0.2925	10.83%

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301.30	Acid Soluble Selenium , ICP (ppm)	2	1	12.40									
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:...	2	1	3.041									
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	1		2.251									
301.99	Acid Soluble Selenium , Other (ppm)	3	3	0.8515	1.117	0.8515		1.117	0.8060	131.15%		0.0523	16.39%
311.32	Sodium, ICP, 2006.03 test portion (%)	1		0.1307									
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test .	5	5	0.1409	0.0540	0.1409		0.0540	0.0302	38.33%		0.0049	5.37%
311.99	Sodium, Other (%)	3	3	0.1665	0.0548	0.1665		0.0548	0.0395	32.91%		0.0110	5.24%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	16	15	1.256	0.0875	1.256	0.1352	0.0992	0.0320	7.90%	5.38%	0.0262	3.86%
321.01	Acid Soluble Zinc , AA, organic 965.09 (1%)	1		1.250									
321.03	Acid Soluble Zinc , AA, 965.09, test portion 2006.... (1'	1		1.385									
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (1%	20	19	1.348	0.1241	1.348	0.1352	0.1073	0.0308	7.96%	5.01%	0.0416	3.82%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C (1%)	4	4	1.363	0.0970	1.363	0.1352	0.0970	0.0606	7.12%	4.96%	0.0275	3.82%
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (1'	15	15	1.297	0.1097	1.304	0.1352	0.0969	0.0313	7.43%	5.19%	0.0349	3.84%
321.99	Acid Soluble Zinc , Other (1%)	14	14	1.276	0.1655	1.273	0.1352	0.1825	0.0610	14.34%	5.31%	0.0530	3.86%
325.00	Water Soluble Zinc , AA (%)	2	2	0.5768	0.3843								
325.30	Water Soluble Zinc , ICP (%)	5	5	0.7300	0.6664	0.7300		0.6664	0.3726	91.29%		0.1240	4.19%

magruder fertilizer

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STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 170911

MAP plus S, 12-40-0

Method Precision Report

Issue Date : 10/31/2017

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 %rsd	Reproducibility %RSD	sR/sr
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	11	10	12.18	0.2386	0.2342	0.0646	0.2429	1.92%	0.53%	1.99%	3.758
001.99	Ammoniacal Nitrogen, Other (%)	24	22	12.33	0.2314	0.2289	0.0477	0.2338	1.86%	0.39%	1.90%	4.905
010.60	Total Nitrogen, Combustion (12%)	60	53	12.46	0.1868	0.1749	0.0927	0.1979	1.40%	0.74%	1.59%	2.134
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	15	13	39.51	0.6049	0.5898	0.1902	0.6197	1.49%	0.48%	1.57%	3.259
020.50	Total Phosphorus as P2O5, ICP (%)	18	16	39.42	2.122	2.107	0.3530	2.137	5.35%	0.90%	5.42%	6.053
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (40%)	15	14	39.14	1.121	1.116	0.1525	1.127	2.85%	0.39%	2.88%	7.386
101.30	Acid Soluble Calcium, ICP, test portion inorganic 965.09 (%)	8	8	0.4559	0.0982	0.0927	0.0457	0.1034	20.34%	10.03%	22.68%	2.262
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - sulfate form (%)	8	8	7.322	0.2439	0.2258	0.1306	0.2608	3.08%	1.78%	3.56%	1.998
148.00	Total Sulfur, Combustion (6.5%)	8	8	7.170	0.2348	0.2147	0.1343	0.2533	2.99%	1.87%	3.53%	1.886
148.01	Total Sulfur, Gravimetric - sulfate and elemental (6.5%)	18	15	7.233	0.1298	0.1217	0.0636	0.1373	1.68%	0.88%	1.90%	2.159
148.07	Total Sulfur, ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl (6.5%)	13	12	6.607	0.5843	0.5818	0.0770	0.5868	8.80%	1.17%	8.88%	7.621
148.99	Total Sulfur, Other (6.5%)	9	8	6.430	1.482	1.480	0.1073	1.484	23.02%	1.67%	23.08%	13.83
191.30	Acid Soluble Chromium , ICP (ppm)	9	8	432.6	94.37	94.13	9.583	94.62	21.76%	2.22%	21.87%	9.873
241.30	Acid Soluble Iron, ICP, test portion inorganic 965.09 (%)	9	8	0.2586	0.0096	0.0080	0.0074	0.0109	3.10%	2.86%	4.22%	1.473
289.30	Acid Soluble Molybdenum , ICP (ppm)	9	8	2.730	1.242	1.231	0.2340	1.253	45.11%	8.57%	45.91%	5.356
291.30	Acid Soluble Nickel , ICP (ppm)	11	9	17.57	2.686	2.635	0.7321	2.735	15.00%	4.17%	15.57%	3.736
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	16	15	1.256	0.0875	0.0861	0.0216	0.0888	6.86%	1.72%	7.07%	4.107
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (1%)	20	18	1.332	0.1051	0.1020	0.0357	0.1081	7.66%	2.68%	8.11%	3.026
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, w/dual acid (1%)	15	14	1.317	0.0828	0.0790	0.0351	0.0865	6.00%	2.67%	6.57%	2.464
321.99	Acid Soluble Zinc , Other (1%)	14	14	1.276	0.1655	0.1618	0.0493	0.1691	12.68%	3.87%	13.26%	3.430

Notes: Precision data calculated when 8 or more Tests included.

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 131

Sample # 170911

Lab Values

Labs Reporting: 94

MAP plus S, 12-40-0

Issue Date : 10/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0526	9.445	0.0300	12.13	0.3109	0.0606	11	-8.09	11%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0309	11.68	0.0700	12.13	0.3109	0.0606	11	-1.37	2%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0498	12.00	0.2000	12.13	0.3109	0.0606	11	-0.40	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0531	12.11	0.0400	12.13	0.3109	0.0606	11	-0.06	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0177	12.17	0.0133	12.13	0.3109	0.0606	11	0.12	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0090	12.18	0.1600	12.13	0.3109	0.0606	11	0.15	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0535	12.19	0.0300	12.13	0.3109	0.0606	11	0.16	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0536	12.19	0.0200	12.13	0.3109	0.0606	11	0.18	0%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0486	12.26	0.0000	12.13	0.3109	0.0606	11	0.39	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	12.46	0.1000	12.13	0.3109	0.0606	11	0.99	1%	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0405	12.55	0.0030	12.13	0.3109	0.0606	11	1.25	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0394	11.87	0.0270	12.35	0.2680	0.0668	23	-1.76	2%	0
001.99	Ammoniacal Nitrogen, Other (%)	0537	12.03	0.1500	12.35	0.2680	0.0668	23	-1.20	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0532	12.08	0.0800	12.35	0.2680	0.0668	23	-1.00	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0513	12.11	0.0500	12.35	0.2680	0.0668	23	-0.90	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0027	12.13	0.0800	12.35	0.2680	0.0668	23	-0.81	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0533	12.14	0.0600	12.35	0.2680	0.0668	23	-0.77	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0536	12.19	0.0300	12.35	0.2680	0.0668	23	-0.60	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0535	12.20	0.0300	12.35	0.2680	0.0668	23	-0.57	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0200	12.21	0.0800	12.35	0.2680	0.0668	23	-0.51	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0255	12.23	0.0000	12.35	0.2680	0.0668	23	-0.44	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0539	12.25	0.0300	12.35	0.2680	0.0668	23	-0.38	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0529	12.32	0.0400	12.35	0.2680	0.0668	23	-0.10	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0493	12.35	0.1000	12.35	0.2680	0.0668	23	0.01	0%	0
001.99	Ammoniacal Nitrogen, Other (%)	0416	12.48	0.0200	12.35	0.2680	0.0668	23	0.50	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0510	12.48	0.0041	12.35	0.2680	0.0668	23	0.51	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0371	12.49	0.0600	12.35	0.2680	0.0668	23	0.53	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0524	12.51	0.0800	12.35	0.2680	0.0668	23	0.61	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0404	12.52	0.0400	12.35	0.2680	0.0668	23	0.65	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	12.56	0.0000	12.35	0.2680	0.0668	23	0.80	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0541	12.64	0.0900	12.35	0.2680	0.0668	23	1.08	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0522	12.64	0.0200	12.35	0.2680	0.0668	23	1.09	1%	0
001.99	Ammoniacal Nitrogen, Other (%)	0397	12.76	0.1291	12.35	0.2680	0.0668	23	1.52	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.99	Ammoniacal Nitrogen, Other (%)	0501	13.03	0.3358	12.35	0.2680	0.0668	23	2.55	3%	0
001.99	Ammoniacal Nitrogen, Other (%)	0368	10.04	0.5000	12.35	0.2680	0.0668	23	-8.61	9%	1
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0169	12.48	0.0500				2			0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0481	13.15	0.1000				2			0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0531	12.04	0.0200	12.36	0.2114	0.0238	6	-1.36	1%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0500	12.25	0.0000	12.36	0.2114	0.0238	6	-0.48	0%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0105	12.38	0.0600	12.36	0.2114	0.0238	6	0.07	0%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0114	12.46	0.0300	12.36	0.2114	0.0238	6	0.39	0%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0510	12.52	0.0126	12.36	0.2114	0.0238	6	0.65	1%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0404	12.53	0.0200	12.36	0.2114	0.0238	6	0.70	1%	0
010.11	Total Nitrogen, Modified Comprehensive (12%)	0309	11.64*	0.1500	12.36	0.2114	0.0238	6	-3.07	3%	1
010.12	Total Nitrogen, Salicylic (12%)	0534	12.68	0.0500	12.72	0.0557	0.0979	3	-0.79	0%	0
010.12	Total Nitrogen, Salicylic (12%)	0481	12.70	0.2000	12.72	0.0557	0.0979	3	-0.34	0%	0
010.12	Total Nitrogen, Salicylic (12%)	0397	12.78	0.0438	12.72	0.0557	0.0979	3	1.13	0%	0
010.60	Total Nitrogen, Combustion (12%)	0356	12.00	0.2500	12.46	0.2012	0.1003	57	-2.30	2%	0
010.60	Total Nitrogen, Combustion (12%)	0406	12.13	0.0500	12.46	0.2012	0.1003	57	-1.66	1%	0
010.60	Total Nitrogen, Combustion (12%)	0501	12.15	0.3000	12.46	0.2012	0.1003	57	-1.53	1%	0
010.60	Total Nitrogen, Combustion (12%)	0389	12.16	0.2700	12.46	0.2012	0.1003	57	-1.51	1%	0
010.60	Total Nitrogen, Combustion (12%)	0034	12.17	0.4000	12.46	0.2012	0.1003	57	-1.43	1%	0
010.60	Total Nitrogen, Combustion (12%)	0307	12.18	0.5000	12.46	0.2012	0.1003	57	-1.38	1%	0
010.60	Total Nitrogen, Combustion (12%)	0423	12.19	0.1900	12.46	0.2012	0.1003	57	-1.36	1%	0
010.60	Total Nitrogen, Combustion (12%)	0521	12.21	0.0000	12.46	0.2012	0.1003	57	-1.23	1%	0
010.60	Total Nitrogen, Combustion (12%)	0043	12.23	0.0300	12.46	0.2012	0.1003	57	-1.16	1%	0
010.60	Total Nitrogen, Combustion (12%)	0452	12.23	0.0200	12.46	0.2012	0.1003	57	-1.13	1%	0
010.60	Total Nitrogen, Combustion (12%)	0041	12.28	0.0600	12.46	0.2012	0.1003	57	-0.89	1%	0
010.60	Total Nitrogen, Combustion (12%)	0234	12.28	0.0400	12.46	0.2012	0.1003	57	-0.89	1%	0
010.60	Total Nitrogen, Combustion (12%)	0472	12.29	0.0400	12.46	0.2012	0.1003	57	-0.84	1%	0
010.60	Total Nitrogen, Combustion (12%)	0354	12.30	0.1340	12.46	0.2012	0.1003	57	-0.79	1%	0
010.60	Total Nitrogen, Combustion (12%)	0451	12.35	0.2000	12.46	0.2012	0.1003	57	-0.54	0%	0
010.60	Total Nitrogen, Combustion (12%)	0402	12.36	0.0200	12.46	0.2012	0.1003	57	-0.49	0%	0
010.60	Total Nitrogen, Combustion (12%)	0481	12.37	0.0300	12.46	0.2012	0.1003	57	-0.46	0%	0
010.60	Total Nitrogen, Combustion (12%)	0055	12.38	0.0300	12.46	0.2012	0.1003	57	-0.41	0%	0
010.60	Total Nitrogen, Combustion (12%)	0049	12.39	0.1500	12.46	0.2012	0.1003	57	-0.36	0%	0
010.60	Total Nitrogen, Combustion (12%)	0523	12.40	0.0000	12.46	0.2012	0.1003	57	-0.29	0%	0
010.60	Total Nitrogen, Combustion (12%)	0035	12.41	0.0700	12.46	0.2012	0.1003	57	-0.27	0%	0
010.60	Total Nitrogen, Combustion (12%)	0086	12.42	0.2850	12.46	0.2012	0.1003	57	-0.20	0%	0
010.60	Total Nitrogen, Combustion (12%)	0073	12.44	0.0200	12.46	0.2012	0.1003	57	-0.09	0%	0
010.60	Total Nitrogen, Combustion (12%)	0377	12.44	0.3200	12.46	0.2012	0.1003	57	-0.09	0%	0
010.60	Total Nitrogen, Combustion (12%)	0095	12.46	0.1900	12.46	0.2012	0.1003	57	-0.02	0%	0
010.60	Total Nitrogen, Combustion (12%)	0292	12.47	0.0000	12.46	0.2012	0.1003	57	0.06	0%	0
010.60	Total Nitrogen, Combustion (12%)	0486	12.47	0.0200	12.46	0.2012	0.1003	57	0.06	0%	0
010.60	Total Nitrogen, Combustion (12%)	0291	12.48	0.0100	12.46	0.2012	0.1003	57	0.08	0%	0
010.60	Total Nitrogen, Combustion (12%)	0485	12.48	0.3860	12.46	0.2012	0.1003	57	0.11	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (12%)	0136	12.49	0.0600	12.46	0.2012	0.1003	57	0.16	0%	0
010.60	Total Nitrogen, Combustion (12%)	0368	12.50	0.0680	12.46	0.2012	0.1003	57	0.19	0%	0
010.60	Total Nitrogen, Combustion (12%)	0042	12.50	0.0000	12.46	0.2012	0.1003	57	0.21	0%	0
010.60	Total Nitrogen, Combustion (12%)	0157	12.50	0.0000	12.46	0.2012	0.1003	57	0.21	0%	0
010.60	Total Nitrogen, Combustion (12%)	0325	12.50	0.0000	12.46	0.2012	0.1003	57	0.21	0%	0
010.60	Total Nitrogen, Combustion (12%)	0482	12.50	0.0000	12.46	0.2012	0.1003	57	0.21	0%	0
010.60	Total Nitrogen, Combustion (12%)	0037	12.53	0.0320	12.46	0.2012	0.1003	57	0.36	0%	0
010.60	Total Nitrogen, Combustion (12%)	0231	12.53	0.0200	12.46	0.2012	0.1003	57	0.36	0%	0
010.60	Total Nitrogen, Combustion (12%)	0131	12.54	0.0400	12.46	0.2012	0.1003	57	0.41	0%	0
010.60	Total Nitrogen, Combustion (12%)	0007	12.55	0.1000	12.46	0.2012	0.1003	57	0.46	0%	0
010.60	Total Nitrogen, Combustion (12%)	0233	12.55	0.0200	12.46	0.2012	0.1003	57	0.46	0%	0
010.60	Total Nitrogen, Combustion (12%)	0324	12.55	0.3000	12.46	0.2012	0.1003	57	0.46	0%	0
010.60	Total Nitrogen, Combustion (12%)	0527	12.55	0.0200	12.46	0.2012	0.1003	57	0.46	0%	0
010.60	Total Nitrogen, Combustion (12%)	0027	12.56	0.0900	12.46	0.2012	0.1003	57	0.48	0%	0
010.60	Total Nitrogen, Combustion (12%)	0177	12.56	0.0000	12.46	0.2012	0.1003	57	0.51	0%	0
010.60	Total Nitrogen, Combustion (12%)	0105	12.57	0.0760	12.46	0.2012	0.1003	57	0.57	0%	0
010.60	Total Nitrogen, Combustion (12%)	0405	12.62	0.1070	12.46	0.2012	0.1003	57	0.80	1%	0
010.60	Total Nitrogen, Combustion (12%)	0096	12.62	0.0600	12.46	0.2012	0.1003	57	0.80	1%	0
010.60	Total Nitrogen, Combustion (12%)	0360	12.63	0.0600	12.46	0.2012	0.1003	57	0.85	1%	0
010.60	Total Nitrogen, Combustion (12%)	0040	12.65	0.1000	12.46	0.2012	0.1003	57	0.95	1%	0
010.60	Total Nitrogen, Combustion (12%)	0029	12.67	0.0800	12.46	0.2012	0.1003	57	1.05	1%	0
010.60	Total Nitrogen, Combustion (12%)	0070	12.69	0.0500	12.46	0.2012	0.1003	57	1.13	1%	0
010.60	Total Nitrogen, Combustion (12%)	0025	12.71	0.0600	12.46	0.2012	0.1003	57	1.25	1%	0
010.60	Total Nitrogen, Combustion (12%)	0230	12.85	0.1000	12.46	0.2012	0.1003	57	1.95	2%	0
010.60	Total Nitrogen, Combustion (12%)	0421	12.87	0.0400	12.46	0.2012	0.1003	57	2.05	2%	0
010.60	Total Nitrogen, Combustion (12%)	0494	12.90	0.0600	12.46	0.2012	0.1003	57	2.19	2%	0
010.60	Total Nitrogen, Combustion (12%)	0255	13.10	0.1000	12.46	0.2012	0.1003	57	3.19	3%	0
010.60	Total Nitrogen, Combustion (12%)	0443	13.14	0.0600	12.46	0.2012	0.1003	57	3.39	3%	0
010.60	Total Nitrogen, Combustion (12%)	0106	13.04	0.7800	12.46	0.2012	0.1003	57	2.89	2%	1
010.60	Total Nitrogen, Combustion (12%)	0102	13.12	1.450	12.46	0.2012	0.1003	57	3.26	3%	1
010.60	Total Nitrogen, Combustion (12%)	0483	16.60	0.4000	12.46	0.2012	0.1003	57	20.58	17%	2
010.99	Total Nitrogen, Other (12%)	0524	12.22	0.2881	12.49	0.2802	0.0911	6	-0.85	1%	0
010.99	Total Nitrogen, Other (12%)	0476	12.29	0.0785	12.49	0.2802	0.0911	6	-0.63	1%	0
010.99	Total Nitrogen, Other (12%)	0519	12.45	0.0100	12.49	0.2802	0.0911	6	-0.13	0%	0
010.99	Total Nitrogen, Other (12%)	0508	12.45	0.0600	12.49	0.2802	0.0911	6	-0.12	0%	0
010.99	Total Nitrogen, Other (12%)	0529	12.61	0.0200	12.49	0.2802	0.0911	6	0.39	0%	0
010.99	Total Nitrogen, Other (12%)	0394	13.80	0.0900	12.49	0.2802	0.0911	6	4.16	5%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0114	39.20	0.0000	39.58	0.2797	0.0929	7	-1.22	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0500	39.40	0.0000	39.58	0.2797	0.0929	7	-0.57	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	39.50	0.0000	39.58	0.2797	0.0929	7	-0.25	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	39.55	0.1000	39.58	0.2797	0.0929	7	-0.09	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0090	39.63	0.2600	39.58	0.2797	0.0929	7	0.17	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	39.85	0.1000	39.58	0.2797	0.0929	7	0.88	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	39.91	0.1900	39.58	0.2797	0.0929	7	1.06	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	29.43	0.0300	39.35	0.7774	0.2275	15	-12.76	13%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0481	38.50	0.8000	39.35	0.7774	0.2275	15	-1.09	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	38.53	0.5400	39.35	0.7774	0.2275	15	-1.05	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	38.99	0.0700	39.35	0.7774	0.2275	15	-0.47	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0510	39.07	0.1204	39.35	0.7774	0.2275	15	-0.35	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0405	39.17	0.2100	39.35	0.7774	0.2275	15	-0.23	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0394	39.22	0.0870	39.35	0.7774	0.2275	15	-0.17	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	39.30	0.2000	39.35	0.7774	0.2275	15	-0.06	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	39.31	0.6100	39.35	0.7774	0.2275	15	-0.06	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0371	39.35	0.1000	39.35	0.7774	0.2275	15	0.00	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	39.53	0.0200	39.35	0.7774	0.2275	15	0.23	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0541	40.03	0.0600	39.35	0.7774	0.2275	15	0.88	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0476	40.17	0.1849	39.35	0.7774	0.2275	15	1.05	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0534	40.37	0.0400	39.35	0.7774	0.2275	15	1.31	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0406	40.61	0.3400	39.35	0.7774	0.2275	15	1.62	2%	0
020.30	Total Phosphorus as P2O5, Alkalimetric Quinol... (%)	0416	40.14	0.0400				1			0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	39.29	0.0100	39.61	0.4906	0.1625	4	-0.65	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0404	39.30	0.0400	39.61	0.4906	0.1625	4	-0.62	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	39.52	0.0500	39.61	0.4906	0.1625	4	-0.19	0%	0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	40.33	0.5500	39.61	0.4906	0.1625	4	1.47	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0157	36.30	0.4000	39.39	2.117	0.4125	17	-1.46	4%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0444	36.49	0.8800	39.39	2.117	0.4125	17	-1.37	4%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	36.90	0.0000	39.39	2.117	0.4125	17	-1.17	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	37.73	0.3400	39.39	2.117	0.4125	17	-0.78	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	37.85	0.4900	39.39	2.117	0.4125	17	-0.73	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	37.91	0.1993	39.39	2.117	0.4125	17	-0.70	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	39.27	1.340	39.39	2.117	0.4125	17	-0.05	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0291	39.74	0.0400	39.39	2.117	0.4125	17	0.17	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	39.83	0.0000	39.39	2.117	0.4125	17	0.21	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	40.22	0.2300	39.39	2.117	0.4125	17	0.39	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	40.32	0.0100	39.39	2.117	0.4125	17	0.44	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	40.50	1.600	39.39	2.117	0.4125	17	0.53	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0508	40.50	0.0800	39.39	2.117	0.4125	17	0.53	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0527	40.55	0.2400	39.39	2.117	0.4125	17	0.55	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	41.43	0.1094	39.39	2.117	0.4125	17	0.97	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	41.48	0.2300	39.39	2.117	0.4125	17	0.99	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0255	44.20	0.8240	39.39	2.117	0.4125	17	2.27	6%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0307	40.13	3.400	39.39	2.117	0.4125	17	0.35	1%	1
020.99	Total Phosphorus as P2O5, Other (%)	0515	24.97	0.8037	34.00	6.840	0.3584	4	-1.32	13%	0
020.99	Total Phosphorus as P2O5, Other (%)	0443	32.43	0.4700	34.00	6.840	0.3584	4	-0.23	2%	0
020.99	Total Phosphorus as P2O5, Other (%)	0529	39.28	0.1500	34.00	6.840	0.3584	4	0.77	8%	0
020.99	Total Phosphorus as P2O5, Other (%)	0513	39.35	0.0100	34.00	6.840	0.3584	4	0.78	8%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
030.20	Citrate Insoluble Phosphorus as P2O5, Spectro... (%)	0405	0.0055	0.0010				1			0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0404	0.0150	0.0100				2			0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.0350	0.0300				2			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (%)	0405	39.16	0.2110				1			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (%)	0096	39.25	0.0200				2			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (%)	0404	39.29	0.0500				2			0
040.99	Indirect Available Phosphorus as P2O5, Other (%)	0394	39.21	0.1000				1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0049	38.40*	0.0300	39.24	0.5841	0.0825	8	-1.32	1%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0102	38.80	0.0000	39.24	0.5841	0.0825	8	-0.68	1%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0177	38.80	0.0387	39.24	0.5841	0.0825	8	-0.68	1%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0041	39.44	0.1300	39.24	0.5841	0.0825	8	0.31	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0086	39.45	0.1009	39.24	0.5841	0.0825	8	0.34	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0040	39.50	0.0000	39.24	0.5841	0.0825	8	0.41	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0055	39.56	0.0800	39.24	0.5841	0.0825	8	0.51	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0494	39.95	0.2800	39.24	0.5841	0.0825	8	1.12	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0105	39.22	0.2300	39.68	0.4049	0.1904	3	-1.14	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0513	39.84	0.0800	39.68	0.4049	0.1904	3	0.40	0%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (40%)	0485	39.97	0.2611	39.68	0.4049	0.1904	3	0.73	0%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0397	36.75*	0.5091	38.64	1.645	0.5964	3	-1.15	2%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0027	39.43	0.7800	38.64	1.645	0.5964	3	0.48	1%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0498	39.75	0.5000	38.64	1.645	0.5964	3	0.67	1%	0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0200	38.39*	0.0400	39.10	0.5072	0.4150	4	-1.40	1%	0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0522	39.12	0.0900	39.10	0.5072	0.4150	4	0.02	0%	0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0106	39.36	0.4300	39.10	0.5072	0.4150	4	0.50	0%	0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (40%)	0535	39.55	1.100	39.10	0.5072	0.4150	4	0.88	1%	0
041.40	Direct Available Phosphorus as P2O5, Automate... (40%)	0095	37.60*	1.420				2			0
041.40	Direct Available Phosphorus as P2O5, Automate... (40%)	0131	41.87	0.0600				2			0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0325	36.80*	0.2000	38.86	1.249	0.4320	5	-1.65	3%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0070	38.69	0.4900	38.86	1.249	0.4320	5	-0.14	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0043	39.16	0.2700	38.86	1.249	0.4320	5	0.24	0%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0452	39.69	0.1000	38.86	1.249	0.4320	5	0.67	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (40%)	0007	39.95	1.100	38.86	1.249	0.4320	5	0.88	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0025	38.17*	1.310	38.99	0.7440	0.6786	7	-1.00	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0233	38.27*	2.010	38.99	0.7440	0.6786	7	-0.88	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0360	38.79	0.5300	38.99	0.7440	0.6786	7	-0.25	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0377	38.85	0.0700	38.99	0.7440	0.6786	7	-0.18	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0494	39.43	0.0600	38.99	0.7440	0.6786	7	0.53	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0423	39.57	0.1400	38.99	0.7440	0.6786	7	0.70	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (40%)	0117	39.88	0.6300	38.99	0.7440	0.6786	7	1.07	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0397	36.75*	0.5091	39.32	1.265	0.1992	15	-2.03	3%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0230	37.65*	0.1000	39.32	1.265	0.1992	15	-1.32	2%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0472	38.03*	0.1600	39.32	1.265	0.1992	15	-1.02	2%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (40%)	0177	38.28*	0.2055	39.32	1.265	0.1992	15	-0.82	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0055	38.94	0.1500	39.32	1.265	0.1992	15	-0.31	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0073	39.22	0.0400	39.32	1.265	0.1992	15	-0.08	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0105	39.31	0.0500	39.32	1.265	0.1992	15	-0.01	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0043	39.52	0.1400	39.32	1.265	0.1992	15	0.16	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0231	39.54	0.0000	39.32	1.265	0.1992	15	0.17	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0535	39.70	0.4000	39.32	1.265	0.1992	15	0.30	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0136	39.77	0.0800	39.32	1.265	0.1992	15	0.35	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0034	40.07	0.0880	39.32	1.265	0.1992	15	0.59	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0029	40.13	0.0200	39.32	1.265	0.1992	15	0.64	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0354	41.02	0.3060	39.32	1.265	0.1992	15	1.34	2%	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (40%)	0486	41.87	0.7400	39.32	1.265	0.1992	15	2.01	3%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0105	39.35	0.1100	40.02	0.2405	0.1514	7	-2.55	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0536	39.93	0.2500	40.02	0.2405	0.1514	7	-0.37	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0535	39.98	0.0500	40.02	0.2405	0.1514	7	-0.18	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0531	40.00	0.0800	40.02	0.2405	0.1514	7	-0.09	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0533	40.06	0.0700	40.02	0.2405	0.1514	7	0.12	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0532	40.27	0.4400	40.02	0.2405	0.1514	7	0.92	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0539	40.28	0.0600	40.02	0.2405	0.1514	7	0.96	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0537	40.51	0.9180	40.02	0.2405	0.1514	7	1.82	1%	1
041.99	Direct Available Phosphorus as P2O5, Other (40%)	0519	17.37*	0.0600	40.02	0.2405	0.1514	7	-85.16	28%	2
042.10	Water Soluble Orthophosphate as P2O5, Spectro... (%)	0481	33.35	0.1600				1			0
048.10	Water Soluble Phosphorus as P2O5, Gravimetric... (%)	0444	34.72	0.0600				1			0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0394	35.61	0.2920				1			0
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	35.45	0.0500				1			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0444	34.86	0.6200				1			0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0529	34.67	0.1300				2			0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0513	35.07	0.0700				2			0
050.31	Soluble Potassium as K2O, AA (Citrate) (%)	0472	0.0850	0.0100				1			0
050.51	Soluble Potassium as K2O, ICP (Citrate) (%)	0483	0.3600	0.2200				1			0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0423	0.1365	0.0030				2			0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (%)	0354	0.6240	0.0840				2			0
050.99	Soluble Potassium as K2O, Other (%)	0325	0.1000	0.0000	0.1277	0.0093	0.0041	8	-2.73	11%	0
050.99	Soluble Potassium as K2O, Other (%)	0527	0.1200	0.0000	0.1277	0.0093	0.0041	8	-0.76	3%	0
050.99	Soluble Potassium as K2O, Other (%)	0096	0.1250	0.0100	0.1277	0.0093	0.0041	8	-0.27	1%	0
050.99	Soluble Potassium as K2O, Other (%)	0389	0.1300	0.0000	0.1277	0.0093	0.0041	8	0.22	1%	0
050.99	Soluble Potassium as K2O, Other (%)	0482	0.1300	0.0200	0.1277	0.0093	0.0041	8	0.22	1%	0
050.99	Soluble Potassium as K2O, Other (%)	0541	0.1300	0.0000	0.1277	0.0093	0.0041	8	0.22	1%	0
050.99	Soluble Potassium as K2O, Other (%)	0524	0.1315	0.0031	0.1277	0.0093	0.0041	8	0.36	1%	0
050.99	Soluble Potassium as K2O, Other (%)	0521	0.1509	0.0000	0.1277	0.0093	0.0041	8	2.28	9%	0
050.99	Soluble Potassium as K2O, Other (%)	0255	1.049	0.0870	0.1277	0.0093	0.0041	8	90.56	360%	2
060.00	Water (Free), Vacuum Oven (%)	0007	1.020	0.0200	1.325	0.2956	0.1049	4	-1.03	12%	0
060.00	Water (Free), Vacuum Oven (%)	0404	1.135	0.0300	1.325	0.2956	0.1049	4	-0.64	7%	0
060.00	Water (Free), Vacuum Oven (%)	0416	1.500	0.0596	1.325	0.2956	0.1049	4	0.59	7%	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
060.00	Water (Free), Vacuum Oven (%)	0096	1.645	0.3100	1.325	0.2956	0.1049	4	1.08	12%	0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0055	2.600	0.0000				1			0
060.99	Water (Free), Other (%)	0510	1.128	0.0038	1.718	0.5184	0.0113	3	-1.14	17%	0
060.99	Water (Free), Other (%)	0513	1.925	0.0300	1.718	0.5184	0.0113	3	0.40	6%	0
060.99	Water (Free), Other (%)	0055	2.100	0.0000	1.718	0.5184	0.0113	3	0.74	11%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.2690	0.0660	0.4607	0.0840	0.0498	8	-2.09	21%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.4210	0.0080	0.4607	0.0840	0.0498	8	-0.43	4%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0041	0.4400	0.0200	0.4607	0.0840	0.0498	8	-0.23	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0472	0.4400	0.0200	0.4607	0.0840	0.0498	8	-0.23	2%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0404	0.4500	0.0200	0.4607	0.0840	0.0498	8	-0.12	1%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	0.4880	0.0980	0.4607	0.0840	0.0498	8	0.30	3%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.5250	0.1300	0.4607	0.0840	0.0498	8	0.70	7%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0483	0.6140	0.0360	0.4607	0.0840	0.0498	8	1.67	17%	0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	0.4381	0.0000				2			0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0423	0.4520	0.0040				2			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0106	0.1531	0.0041	0.3592	0.1154	0.0051	5	-1.56	29%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0494	0.4022	0.0140	0.3592	0.1154	0.0051	5	0.33	6%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0117	0.4087	0.0036	0.3592	0.1154	0.0051	5	0.37	7%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0527	0.4130	0.0000	0.3592	0.1154	0.0051	5	0.41	7%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0034	0.4190	0.0040	0.3592	0.1154	0.0051	5	0.45	8%	0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0086	0.4030	0.0495	0.3592	0.1154	0.0051	5	0.33	6%	1
101.99	Acid Soluble Calcium, Other (%)	0389	0.4150	0.0100				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0096	1.310	0.0000	1.435	0.1209	0.0406	7	-0.93	4%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0482	1.355	0.0700	1.435	0.1209	0.0406	7	-0.60	3%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0035	1.405	0.0300	1.435	0.1209	0.0406	7	-0.22	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0041	1.405	0.0300	1.435	0.1209	0.0406	7	-0.22	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0354	1.413	0.1140	1.435	0.1209	0.0406	7	-0.16	1%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0483	1.540	0.0400	1.435	0.1209	0.0406	7	0.79	4%	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0472	1.630	0.0000	1.435	0.1209	0.0406	7	1.46	7%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0423	1.328	0.0250	1.410	0.1121	0.0183	3	-0.74	3%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0404	1.365	0.0300	1.410	0.1121	0.0183	3	-0.40	2%	0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0521	1.538	0.0000	1.410	0.1121	0.0183	3	1.14	5%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0106	1.034	0.0138	1.267	0.1281	0.0298	7	-1.65	9%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0515	1.148	0.0286	1.267	0.1281	0.0298	7	-0.84	5%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0494	1.281	0.0307	1.267	0.1281	0.0298	7	0.09	1%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0034	1.309	0.0130	1.267	0.1281	0.0298	7	0.29	2%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0117	1.333	0.0010	1.267	0.1281	0.0298	7	0.46	3%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0527	1.344	0.0260	1.267	0.1281	0.0298	7	0.54	3%	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0086	1.383	0.0952	1.267	0.1281	0.0298	7	0.82	5%	0
121.99	Acid Soluble Magnesium, Other (%)	0515	1.193	0.0631	1.272	0.0867	0.0247	3	-0.91	3%	0
121.99	Acid Soluble Magnesium, Other (%)	0524	1.259	0.0009	1.272	0.0867	0.0247	3	-0.16	1%	0
121.99	Acid Soluble Magnesium, Other (%)	0389	1.365	0.0100	1.272	0.0867	0.0247	3	1.07	4%	0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0485	0.0000	0.0000				0			4

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
143.99	Elemental Sulfur, Other (%)	0472	6.785	0.0500	7.104	0.2802	0.1271	5	-1.14	2%	0
143.99	Elemental Sulfur, Other (%)	0255	6.918	0.2670	7.104	0.2802	0.1271	5	-0.66	1%	0
143.99	Elemental Sulfur, Other (%)	0086	7.131	0.2286	7.104	0.2802	0.1271	5	0.10	0%	0
143.99	Elemental Sulfur, Other (%)	0389	7.165	0.0500	7.104	0.2802	0.1271	5	0.22	0%	0
143.99	Elemental Sulfur, Other (%)	0291	7.520	0.0400	7.104	0.2802	0.1271	5	1.49	3%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0106	7.040	0.2400	7.322	0.2766	0.1460	8	-0.93	2%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0444	7.135	0.3500	7.322	0.2766	0.1460	8	-0.62	1%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0405	7.200	0.0030	7.322	0.2766	0.1460	8	-0.41	1%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0485	7.224	0.2107	7.322	0.2766	0.1460	8	-0.33	1%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0233	7.272	0.0590	7.322	0.2766	0.1460	8	-0.17	0%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0397	7.329	0.0249	7.322	0.2766	0.1460	8	0.02	0%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0043	7.645	0.0900	7.322	0.2766	0.1460	8	1.07	2%	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0027	7.735	0.1900	7.322	0.2766	0.1460	8	1.36	3%	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0444	6.715	0.4500	7.128	0.4125	0.2300	3	-1.00	3%	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0404	7.130	0.1200	7.128	0.4125	0.2300	3	0.00	0%	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0200	7.540	0.1200	7.128	0.4125	0.2300	3	1.00	3%	0
146.99	Total Sulfur in Liquid, Other (%)	0131	6.960	0.0600				1			0
148.00	Total Sulfur, Combustion (6.5%)	0025	6.841	0.2290	7.160	0.2427	0.1458	8	-1.20	2%	0
148.00	Total Sulfur, Combustion (6.5%)	0136	7.050	0.0000	7.160	0.2427	0.1458	8	-0.41	1%	0
148.00	Total Sulfur, Combustion (6.5%)	0360	7.050	0.0200	7.160	0.2427	0.1458	8	-0.41	1%	0
148.00	Total Sulfur, Combustion (6.5%)	0029	7.109	0.2300	7.160	0.2427	0.1458	8	-0.19	0%	0
148.00	Total Sulfur, Combustion (6.5%)	0157	7.110	0.0200	7.160	0.2427	0.1458	8	-0.19	0%	0
148.00	Total Sulfur, Combustion (6.5%)	0404	7.200	0.2600	7.160	0.2427	0.1458	8	0.15	0%	0
148.00	Total Sulfur, Combustion (6.5%)	0049	7.395	0.3300	7.160	0.2427	0.1458	8	0.89	2%	0
148.00	Total Sulfur, Combustion (6.5%)	0451	7.606	0.0770	7.160	0.2427	0.1458	8	1.68	3%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0534	6.520	0.0400	7.215	0.1544	0.0771	17	-4.50	5%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0444	7.000	0.1200	7.215	0.1544	0.0771	17	-1.39	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0230	7.075	0.0100	7.215	0.1544	0.0771	17	-0.91	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0231	7.085	0.0500	7.215	0.1544	0.0771	17	-0.84	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0481	7.115	0.0100	7.215	0.1544	0.0771	17	-0.65	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0105	7.165	0.0100	7.215	0.1544	0.0771	17	-0.32	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0371	7.170	0.3200	7.215	0.1544	0.0771	17	-0.29	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0073	7.175	0.0300	7.215	0.1544	0.0771	17	-0.26	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0485	7.224	0.2107	7.215	0.1544	0.0771	17	0.06	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0029	7.245	0.0700	7.215	0.1544	0.0771	17	0.20	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0040	7.250	0.1000	7.215	0.1544	0.0771	17	0.23	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0513	7.275	0.0500	7.215	0.1544	0.0771	17	0.39	0%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0055	7.345	0.0700	7.215	0.1544	0.0771	17	0.84	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0324	7.355	0.1900	7.215	0.1544	0.0771	17	0.91	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0500	7.360	0.0200	7.215	0.1544	0.0771	17	0.94	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0157	7.390	0.0000	7.215	0.1544	0.0771	17	1.14	1%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0102	7.438	0.0100	7.215	0.1544	0.0771	17	1.45	2%	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (6.5%)	0114	7.535	0.6300	7.215	0.1544	0.0771	17	2.07	2%	1

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0515	5.389*	0.2468	6.774	0.2565	0.0875	12	-5.40	10%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0102	5.394*	0.0714	6.774	0.2565	0.0875	12	-5.38	10%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0406	6.595	0.0700	6.774	0.2565	0.0875	12	-0.70	1%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0527	6.626	0.1110	6.774	0.2565	0.0875	12	-0.58	1%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0494	6.767	0.0346	6.774	0.2565	0.0875	12	-0.02	0%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0541	6.815	0.0300	6.774	0.2565	0.0875	12	0.16	0%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0117	6.877	0.0250	6.774	0.2565	0.0875	12	0.40	1%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0177	6.886	0.0606	6.774	0.2565	0.0875	12	0.44	1%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0486	6.910	0.0400	6.774	0.2565	0.0875	12	0.53	1%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0037	6.986	0.0510	6.774	0.2565	0.0875	12	0.83	2%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0483	7.005	0.1700	6.774	0.2565	0.0875	12	0.90	2%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0394	7.040	0.1400	6.774	0.2565	0.0875	12	1.04	2%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (6.5%)	0444	6.375*	0.4300	6.774	0.2565	0.0875	12	-1.55	3%	1
148.99	Total Sulfur, Other (6.5%)	0307	2.879*	0.1150	6.937	0.7417	0.1187	9	-5.05	29%	0
148.99	Total Sulfur, Other (6.5%)	0508	6.538	0.0330	6.937	0.7417	0.1187	9	-0.50	3%	0
148.99	Total Sulfur, Other (6.5%)	0523	6.560	0.0600	6.937	0.7417	0.1187	9	-0.47	3%	0
148.99	Total Sulfur, Other (6.5%)	0368	6.583	0.2923	6.937	0.7417	0.1187	9	-0.44	3%	0
148.99	Total Sulfur, Other (6.5%)	0354	6.891	0.0580	6.937	0.7417	0.1187	9	-0.06	0%	0
148.99	Total Sulfur, Other (6.5%)	0377	7.110	0.0200	6.937	0.7417	0.1187	9	0.21	1%	0
148.99	Total Sulfur, Other (6.5%)	0482	7.420	0.1400	6.937	0.7417	0.1187	9	0.60	3%	0
148.99	Total Sulfur, Other (6.5%)	0096	7.460	0.2400	6.937	0.7417	0.1187	9	0.65	4%	0
148.99	Total Sulfur, Other (6.5%)	0476	12.21	0.1103	6.937	0.7417	0.1187	9	6.56	38%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0519	6.585	0.0300	7.054	0.5385	0.0228	5	-0.87	3%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0501	6.628	0.0020	7.054	0.5385	0.0228	5	-0.79	3%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	6.900	0.0800	7.054	0.5385	0.0228	5	-0.29	1%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	7.272	0.0000	7.054	0.5385	0.0228	5	0.41	2%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	7.883	0.0020	7.054	0.5385	0.0228	5	1.54	6%	0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0136	1.650	0.1000				1			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0541	0.7100	0.1400	2.132	1.757	0.9164	5	-0.81	33%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0255	1.549	0.0320	2.132	1.757	0.9164	5	-0.33	14%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0394	1.599	0.0100	2.132	1.757	0.9164	5	-0.30	12%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	1.600	0.0000	2.132	1.757	0.9164	5	-0.30	12%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0368	5.200	4.400	2.132	1.757	0.9164	5	1.75	72%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	0.3501	0.2521	2.140	1.659	0.1742	4	-1.08	42%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	1.883	0.0150	2.140	1.659	0.1742	4	-0.16	6%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0086	1.961	0.3729	2.140	1.659	0.1742	4	-0.11	4%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	4.367	0.0566	2.140	1.659	0.1742	4	1.34	52%	0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	1.306	0.3180				1			0
151.99	Acid Soluble Arsenic , Other (ppm)	0476	2.015	0.0100	2.145	0.1422	0.0250	4	-0.91	3%	0
151.99	Acid Soluble Arsenic , Other (ppm)	0498	2.070	0.0200	2.145	0.1422	0.0250	4	-0.53	2%	0
151.99	Acid Soluble Arsenic , Other (ppm)	0481	2.155	0.0500	2.145	0.1422	0.0250	4	0.07	0%	0
151.99	Acid Soluble Arsenic , Other (ppm)	0519	2.340	0.0200	2.145	0.1422	0.0250	4	1.37	5%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0106	0.0019	0.0000	55.98	78.00	4.027	5	-0.72	50%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0521	0.0092	0.0000	55.98	78.00	4.027	5	-0.72	50%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0354	0.0220	0.0040	55.98	78.00	4.027	5	-0.72	50%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0086	119.3	9.130	55.98	78.00	4.027	5	0.81	57%	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0389	160.5	11.00	55.98	78.00	4.027	5	1.34	93%	0
165.99	Acid Soluble Boron , Other (%)	0515	0.0014	0.0001	0.0079	0.0075	0.0002	6	-0.78	41%	0
165.99	Acid Soluble Boron , Other (%)	0524	0.0031	0.0000	0.0079	0.0075	0.0002	6	-0.57	30%	0
165.99	Acid Soluble Boron , Other (%)	0423	0.0038	0.0000	0.0079	0.0075	0.0002	6	-0.49	26%	0
165.99	Acid Soluble Boron , Other (%)	0472	0.0100	0.0000	0.0079	0.0075	0.0002	6	0.25	13%	0
165.99	Acid Soluble Boron , Other (%)	0482	0.0100	0.0000	0.0079	0.0075	0.0002	6	0.25	13%	0
165.99	Acid Soluble Boron , Other (%)	0527	0.0215	0.0010	0.0079	0.0075	0.0002	6	1.62	86%	0
165.99	Acid Soluble Boron , Other (%)	0483	0.0206	0.0058	0.0079	0.0075	0.0002	6	1.52	81%	1
181.00	Acid Soluble Cadmium , AA, test portion as in... (ppm)	0136	0.4000	0.0000				1			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0255	0.1129	0.0050	0.2893	0.1731	0.0587	6	-0.91	30%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	0.1888	0.0012	0.2893	0.1731	0.0587	6	-0.52	17%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	0.2250	0.0100	0.2893	0.1731	0.0587	6	-0.33	11%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0394	0.3150	0.0100	0.2893	0.1731	0.0587	6	0.13	4%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0541	0.3450	0.1500	0.2893	0.1731	0.0587	6	0.29	10%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0035	0.6110	0.1760	0.2893	0.1731	0.0587	6	1.66	56%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0368	0.0000	0.0000	0.2893	0.1731	0.0587	6			4
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0404	0.1900	0.0200	0.2016	0.0144	0.0094	3	-0.80	3%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0527	0.1970	0.0040	0.2016	0.0144	0.0094	3	-0.32	1%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0494	0.2178	0.0043	0.2016	0.0144	0.0094	3	1.12	4%	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0515	0.2101	0.4202	0.2016	0.0144	0.0094	3			4
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	0.0222	0.0444				0			4
181.99	Acid Soluble Cadmium , Other (ppm)	0476	0.1480	0.0280				2			0
181.99	Acid Soluble Cadmium , Other (ppm)	0519	0.2250	0.0100				2			0
190.00	Water Soluble Chlorine, Titrimetric (%)	0105	0.1600	0.0200				1			0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	38.65	1.100	408.3	130.0	9.203	9	-2.62	45%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0027	222.5	0.5270	408.3	130.0	9.203	9	-1.32	23%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	374.0	22.00	408.3	130.0	9.203	9	-0.24	4%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	448.0	16.00	408.3	130.0	9.203	9	0.28	5%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0394	461.5	1.000	408.3	130.0	9.203	9	0.38	7%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0368	473.0	24.00	408.3	130.0	9.203	9	0.46	8%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0541	475.5	11.00	408.3	130.0	9.203	9	0.48	8%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	492.0	2.000	408.3	130.0	9.203	9	0.59	10%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	514.5	5.200	408.3	130.0	9.203	9	0.75	13%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0515	466.2	20.19	487.5	14.65	15.72	7	-1.32	2%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0527	480.2	3.010	487.5	14.65	15.72	7	-0.45	1%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0117	485.3	5.900	487.5	14.65	15.72	7	-0.14	0%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0037	489.3	22.53	487.5	14.65	15.72	7	0.11	0%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0404	490.0	20.00	487.5	14.65	15.72	7	0.15	0%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0494	493.2	12.13	487.5	14.65	15.72	7	0.35	1%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0086	508.6	26.27	487.5	14.65	15.72	7	1.30	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0230	457.5	7.000				2			0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	466.8	18.59				2			0
191.99	Acid Soluble Chromium , Other (ppm)	0476	49.94	1.050	338.5	254.5	11.35	3	-1.13	43%	0
191.99	Acid Soluble Chromium , Other (ppm)	0481	434.5	29.00	338.5	254.5	11.35	3	0.38	14%	0
191.99	Acid Soluble Chromium , Other (ppm)	0519	531.0	4.000	338.5	254.5	11.35	3	0.76	28%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	1.605	0.2700	1.962	0.3225	0.3946	3	-1.11	9%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0368	2.050	0.9000	1.962	0.3225	0.3946	3	0.27	2%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	2.232	0.0137	1.962	0.3225	0.3946	3	0.84	7%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	0.0000	0.0000	1.962	0.3225	0.3946	3			4
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	0.6984	0.1598	1.188	0.3329	0.1017	4	-1.47	21%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0527	1.259	0.0120	1.188	0.3329	0.1017	4	0.21	3%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0086	1.391	0.1285	1.188	0.3329	0.1017	4	0.61	9%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0494	1.404	0.1064	1.188	0.3329	0.1017	4	0.65	9%	0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	0.8680	0.1609				1			0
202.99	Acid Soluble Cobalt , Other (ppm)	0476	0.1220	0.0020	0.7749	0.6304	0.0198	3	-1.04	42%	0
202.99	Acid Soluble Cobalt , Other (ppm)	0255	0.8227	0.0173	0.7749	0.6304	0.0198	3	0.08	3%	0
202.99	Acid Soluble Cobalt , Other (ppm)	0519	1.380	0.0400	0.7749	0.6304	0.0198	3	0.96	39%	0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	0531	0.0016	0.0001				1			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0541	0.0003	0.0001	0.1516	0.2990	0.1005	4	-0.51	50%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0255	0.0030	0.0000	0.1516	0.2990	0.1005	4	-0.50	49%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0354	0.0030	0.0020	0.1516	0.2990	0.1005	4	-0.50	49%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0041	0.6000	0.4000	0.1516	0.2990	0.1005	4	1.50	148%	0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0394	0.0003	0.0000				2			0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0423	0.0171	0.0003				2			0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0521	0.0000	0.0000				2			4
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0515	0.0003	0.0001				1			0
221.99	Acid Soluble Copper , Other (%)	0389	0.0001	0.0000	0.0926	0.1849	0.0201	4	-0.50	50%	0
221.99	Acid Soluble Copper , Other (%)	0476	0.0001	0.0000	0.0926	0.1849	0.0201	4	-0.50	50%	0
221.99	Acid Soluble Copper , Other (%)	0368	0.0004	0.0005	0.0926	0.1849	0.0201	4	-0.50	50%	0
221.99	Acid Soluble Copper , Other (%)	0519	0.3700	0.0800	0.0926	0.1849	0.0201	4	1.50	150%	0
221.99	Acid Soluble Copper , Other (%)	0515	0.0002	0.0004	0.0926	0.1849	0.0201	4			4
241.03	Acid Soluble Iron, AA, 965.09, test portion 2... (%)	0105	0.2764	0.0287				1			0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0096	0.2400	0.0000	0.2612	0.0116	0.0086	9	-1.68	4%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0402	0.2500	0.0000	0.2612	0.0116	0.0086	9	-0.89	2%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0354	0.2580	0.0260	0.2612	0.0116	0.0086	9	-0.25	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0483	0.2590	0.0000	0.2612	0.0116	0.0086	9	-0.18	0%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0035	0.2615	0.0010	0.2612	0.0116	0.0086	9	0.02	0%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0041	0.2650	0.0100	0.2612	0.0116	0.0086	9	0.30	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0482	0.2650	0.0100	0.2612	0.0116	0.0086	9	0.30	1%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0472	0.2700	0.0000	0.2612	0.0116	0.0086	9	0.70	2%	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0404	0.2950	0.0300	0.2612	0.0116	0.0086	9	2.68	6%	0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0423	0.2425	0.0010				2			0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0521	0.4576	0.0000				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0494	0.2346	0.0020	0.2462	0.0107	0.0027	6	-0.96	2%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0117	0.2378	0.0024	0.2462	0.0107	0.0027	6	-0.70	2%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0527	0.2440	0.0020	0.2462	0.0107	0.0027	6	-0.18	0%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0106	0.2466	0.0029	0.2462	0.0107	0.0027	6	0.03	0%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0086	0.2567	0.0036	0.2462	0.0107	0.0027	6	0.87	2%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0034	0.2575	0.0030	0.2462	0.0107	0.0027	6	0.94	2%	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0515	0.2332	0.0256	0.2462	0.0107	0.0027	6	-1.08	3%	1
241.99	Acid Soluble Iron, Other (%)	0515	0.2248	0.0115	0.2352	0.0139	0.0078	3	-0.75	2%	0
241.99	Acid Soluble Iron, Other (%)	0524	0.2299	0.0058	0.2352	0.0139	0.0078	3	-0.38	1%	0
241.99	Acid Soluble Iron, Other (%)	0389	0.2510	0.0060	0.2352	0.0139	0.0078	3	1.13	3%	0
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0136	2.000	0.0000				1			0
251.30	Acid Soluble Lead , ICP (ppm)	0524	0.1112	0.0094	1.179	1.590	0.1028	6	-0.60	45%	0
251.30	Acid Soluble Lead , ICP (ppm)	0255	0.2034	0.0772	1.179	1.590	0.1028	6	-0.55	41%	0
251.30	Acid Soluble Lead , ICP (ppm)	0404	0.3750	0.0300	1.179	1.590	0.1028	6	-0.45	34%	0
251.30	Acid Soluble Lead , ICP (ppm)	0389	0.6050	0.0500	1.179	1.590	0.1028	6	-0.32	24%	0
251.30	Acid Soluble Lead , ICP (ppm)	0394	2.215	0.0500	1.179	1.590	0.1028	6	0.58	44%	0
251.30	Acid Soluble Lead , ICP (ppm)	0541	18.50	0.4000	1.179	1.590	0.1028	6	9.70	735%	0
251.30	Acid Soluble Lead , ICP (ppm)	0368	7.900	15.80	1.179	1.590	0.1028	6			4
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0527	0.5350	0.0060				2			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0515	1.740	0.0270				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	0.2757	0.0829				1			0
251.99	Acid Soluble Lead , Other (ppm)	0476	0.4970	0.0360				2			0
251.99	Acid Soluble Lead , Other (ppm)	0519	0.6050	0.0100				2			0
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (%)	0105	0.0163	0.0004				1			0
261.15	Acid Soluble Manganese , AA, 965.09, test por... (%)	0105	0.0153	0.0006				1			0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0354	0.0155	0.0010	0.0173	0.0018	0.0007	5	-1.04	5%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0096	0.0162	0.0005	0.0173	0.0018	0.0007	5	-0.67	3%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0041	0.0170	0.0000	0.0173	0.0018	0.0007	5	-0.19	1%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0035	0.0180	0.0020	0.0173	0.0018	0.0007	5	0.38	2%	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0472	0.0200	0.0000	0.0173	0.0018	0.0007	5	1.51	8%	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (%)	0324	0.0149	0.0008				2			0
261.31	Acid Soluble Manganese , ICP, test portion 97... (%)	0482	0.0200	0.0000				2			0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0483	0.0160	0.0003				2			0
261.32	Acid Soluble Manganese , ICP, test portion in... (%)	0402	0.0200	0.0000				2			0
261.33	Acid Soluble Manganese , ICP, test portion or... (%)	0086	163.1	7.310				1			0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0521	0.0148	0.0000				2			0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0423	0.0170	0.0002				2			0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0106	0.0125	0.0001	0.0146	0.0015	0.0005	4	-1.48	7%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0527	0.0150	0.0000	0.0146	0.0015	0.0005	4	0.25	1%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0117	0.0155	0.0003	0.0146	0.0015	0.0005	4	0.56	3%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0494	0.0156	0.0014	0.0146	0.0015	0.0005	4	0.66	3%	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0515	0.0000	0.0000	0.0146	0.0015	0.0005	4			4
261.99	Acid Soluble Manganese , Other (%)	0515	0.0126	0.0007	0.0140	0.0013	0.0004	3	-1.12	5%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261.99	Acid Soluble Manganese , Other (%)	0524	0.0144	0.0005	0.0140	0.0013	0.0004	3	0.30	1%	0
261.99	Acid Soluble Manganese , Other (%)	0389	0.0150	0.0000	0.0140	0.0013	0.0004	3	0.81	4%	0
281.30	Acid Soluble Mercury , ICP (ppm)	0527	0.0155	0.0050	0.5788	0.9281	0.1710	3	-0.61	49%	0
281.30	Acid Soluble Mercury , ICP (ppm)	0394	0.0710	0.0080	0.5788	0.9281	0.1710	3	-0.55	44%	0
281.30	Acid Soluble Mercury , ICP (ppm)	0541	1.650	0.5000	0.5788	0.9281	0.1710	3	1.15	93%	0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.0000	0.0000	0.5788	0.9281	0.1710	3			4
281.99	Acid Soluble Mercury , Other (ppm)	0519	0.0350	0.0100				1			0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0389	0.6800	0.1000	2.730	1.409	0.2093	8	-1.33	38%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0096	1.400	0.0000	2.730	1.409	0.2093	8	-0.86	24%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0524	2.276	0.0007	2.730	1.409	0.2093	8	-0.29	8%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0035	2.545	0.2700	2.730	1.409	0.2093	8	-0.12	3%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0541	3.350	0.5000	2.730	1.409	0.2093	8	0.40	11%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0255	3.518	0.7338	2.730	1.409	0.2093	8	0.51	14%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0521	3.737	0.0000	2.730	1.409	0.2093	8	0.65	18%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0519	4.335	0.0700	2.730	1.409	0.2093	8	1.04	29%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0368	0.0000	0.0000	2.730	1.409	0.2093	8			4
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	0394	2.390	0.1600				1			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0515	0.5431	0.9279	2.466	0.4550	0.3026	6	-3.77	39%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0086	2.380	0.0999	2.466	0.4550	0.3026	6	-0.17	2%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0527	2.469	0.0110	2.466	0.4550	0.3026	6	0.00	0%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0037	2.484	0.1610	2.466	0.4550	0.3026	6	0.03	0%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0494	2.682	0.6158	2.466	0.4550	0.3026	6	0.42	4%	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0106	3.000	0.0000	2.466	0.4550	0.3026	6	1.04	11%	0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0515	1.508	0.7410				1			0
289.99	Acid Soluble Molybdenum , Other (ppm)	0476	1.975	0.0900				1			0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0136	17.00	0.0000				1			0
291.30	Acid Soluble Nickel , ICP (ppm)	0389	0.0550	0.0100	17.23	3.371	0.9770	11	-4.77	50%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	12.75	1.100	17.23	3.371	0.9770	11	-1.24	13%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	15.19	0.0472	17.23	3.371	0.9770	11	-0.57	6%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	16.35	0.3000	17.23	3.371	0.9770	11	-0.24	3%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0482	17.00	0.4000	17.23	3.371	0.9770	11	-0.06	1%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0521	17.03	0.0000	17.23	3.371	0.9770	11	-0.05	1%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	18.35	0.6900	17.23	3.371	0.9770	11	0.31	3%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0404	19.25	3.500	17.23	3.371	0.9770	11	0.56	6%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0035	19.85	1.100	17.23	3.371	0.9770	11	0.73	8%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0368	20.65	1.700	17.23	3.371	0.9770	11	0.95	10%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0541	20.95	1.900	17.23	3.371	0.9770	11	1.03	11%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	15.01	1.850	17.69	0.6190	0.6680	7	-3.91	8%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0037	17.45	0.8230	17.69	0.6190	0.6680	7	-0.35	1%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0527	17.54	0.1470	17.69	0.6190	0.6680	7	-0.21	0%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0494	17.63	0.6637	17.69	0.6190	0.6680	7	-0.08	0%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0233	17.79	1.080	17.69	0.6190	0.6680	7	0.15	0%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0117	18.20	0.0200	17.69	0.6190	0.6680	7	0.75	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0086	18.44	0.0920	17.69	0.6190	0.6680	7	1.10	2%	0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0230	11.65	0.1000				2			0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	16.72	0.9460				2			0
291.99	Acid Soluble Nickel , Other (ppm)	0476	1.060	0.0400	13.36	7.516	0.2925	5	-1.64	46%	0
291.99	Acid Soluble Nickel , Other (ppm)	0255	11.66	0.0226	13.36	7.516	0.2925	5	-0.23	6%	0
291.99	Acid Soluble Nickel , Other (ppm)	0481	16.45	0.9000	13.36	7.516	0.2925	5	0.41	12%	0
291.99	Acid Soluble Nickel , Other (ppm)	0498	17.65	0.3000	13.36	7.516	0.2925	5	0.57	16%	0
291.99	Acid Soluble Nickel , Other (ppm)	0519	19.98	0.2000	13.36	7.516	0.2925	5	0.88	25%	0
301.30	Acid Soluble Selenium , ICP (ppm)	0541	12.40	22.20				1			0
301.30	Acid Soluble Selenium , ICP (ppm)	0368	0.0000	0.0000				1			4
301.33	Acid Soluble Selenium , ICP, 2006.03 modified...	0527	3.041	0.1680				1			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified...	0515	0.2436	0.4872				1			4
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	2.251	1.211				1			0
301.99	Acid Soluble Selenium , Other (ppm)	0519	0.0900	0.0000	0.8515	1.117	0.0523	3	-0.68	45%	0
301.99	Acid Soluble Selenium , Other (ppm)	0476	0.3310	0.0440	0.8515	1.117	0.0523	3	-0.47	31%	0
301.99	Acid Soluble Selenium , Other (ppm)	0255	2.134	0.1130	0.8515	1.117	0.0523	3	1.15	75%	0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.1307	0.0000				1			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	0.0790	0.0060	0.1409	0.0540	0.0049	5	-1.15	22%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0494	0.1272	0.0058	0.1409	0.0540	0.0049	5	-0.25	5%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.1290	0.0020	0.1409	0.0540	0.0049	5	-0.22	4%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0086	0.1416	0.0058	0.1409	0.0540	0.0049	5	0.01	0%	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.2275	0.0050	0.1409	0.0540	0.0049	5	1.60	31%	0
311.99	Sodium, Other (%)	0482	0.1300	0.0000	0.1665	0.0548	0.0110	3	-0.67	11%	0
311.99	Sodium, Other (%)	0096	0.1400	0.0000	0.1665	0.0548	0.0110	3	-0.48	8%	0
311.99	Sodium, Other (%)	0354	0.2295	0.0330	0.1665	0.0548	0.0110	3	1.15	19%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0532	1.125*	0.0500	1.256	0.0992	0.0262	15	-1.33	5%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0533	1.140*	0.0200	1.256	0.0992	0.0262	15	-1.17	5%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0536	1.140*	0.0400	1.256	0.0992	0.0262	15	-1.17	5%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0539	1.145*	0.0300	1.256	0.0992	0.0262	15	-1.12	4%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0535	1.180	0.0200	1.256	0.0992	0.0262	15	-0.77	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0169	1.230	0.0230	1.256	0.0992	0.0262	15	-0.27	1%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0500	1.290	0.0000	1.256	0.0992	0.0262	15	0.34	1%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0531	1.293	0.0247	1.256	0.0992	0.0262	15	0.37	1%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0513	1.300	0.0200	1.256	0.0992	0.0262	15	0.44	2%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0029	1.304	0.0020	1.256	0.0992	0.0262	15	0.48	2%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0534	1.320	0.0400	1.256	0.0992	0.0262	15	0.64	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0040	1.327	0.0350	1.256	0.0992	0.0262	15	0.71	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0043	1.330	0.0200	1.256	0.0992	0.0262	15	0.74	3%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0105	1.346	0.0580	1.256	0.0992	0.0262	15	0.90	4%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0485	1.378	0.0100	1.256	0.0992	0.0262	15	1.22	5%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (1%)	0073	1.285	0.1300	1.256	0.0992	0.0262	15	0.29	1%	1
321.01	Acid Soluble Zinc , AA, organic 965.09 (1%)	0498	1.250	0.1000				1			0
321.03	Acid Soluble Zinc , AA, 965.09, test portion ... (1%)	0105	1.385	0.0120				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0102	1.060*	0.0027	1.348	0.1073	0.0416	19	-2.68	11%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0230	1.190	0.0400	1.348	0.1073	0.0416	19	-1.47	6%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0291	1.225	0.0100	1.348	0.1073	0.0416	19	-1.15	5%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0096	1.265	0.0830	1.348	0.1073	0.0416	19	-0.78	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0324	1.265	0.0300	1.348	0.1073	0.0416	19	-0.78	3%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0255	1.292	0.0270	1.348	0.1073	0.0416	19	-0.53	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0404	1.340	0.0000	1.348	0.1073	0.0416	19	-0.08	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0157	1.350	0.0200	1.348	0.1073	0.0416	19	0.02	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0482	1.350	0.0600	1.348	0.1073	0.0416	19	0.02	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0472	1.355	0.0100	1.348	0.1073	0.0416	19	0.06	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0377	1.360	0.0030	1.348	0.1073	0.0416	19	0.11	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0444	1.360	0.0400	1.348	0.1073	0.0416	19	0.11	0%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0360	1.365	0.0100	1.348	0.1073	0.0416	19	0.16	1%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0035	1.400	0.1400	1.348	0.1073	0.0416	19	0.48	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0483	1.410	0.0200	1.348	0.1073	0.0416	19	0.58	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0114	1.414	0.0953	1.348	0.1073	0.0416	19	0.62	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0234	1.480	0.0200	1.348	0.1073	0.0416	19	1.23	5%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0231	1.500	0.0200	1.348	0.1073	0.0416	19	1.41	6%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0041	1.640	0.1600	1.348	0.1073	0.0416	19	2.72	11%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (1%)	0354	1.185	0.4370	1.348	0.1073	0.0416	19	-1.53	6%	1
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0541	1.270	0.0400	1.363	0.0970	0.0275	4	-0.96	3%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0521	1.317	0.0000	1.363	0.0970	0.0275	4	-0.47	2%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0394	1.370	0.0600	1.363	0.0970	0.0275	4	0.07	0%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0423	1.495	0.0100	1.363	0.0970	0.0275	4	1.36	5%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0486	1.025*	0.0300	1.304	0.0969	0.0349	15	-2.88	11%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0515	1.166*	0.1059	1.304	0.0969	0.0349	15	-1.43	5%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0494	1.218	0.0234	1.304	0.0969	0.0349	15	-0.89	3%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0233	1.239	0.0240	1.304	0.0969	0.0349	15	-0.67	2%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0117	1.274	0.1000	1.304	0.0969	0.0349	15	-0.31	1%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0177	1.274	0.0079	1.304	0.0969	0.0349	15	-0.31	1%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0527	1.308	0.0530	1.304	0.0969	0.0349	15	0.04	0%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0034	1.308	0.0440	1.304	0.0969	0.0349	15	0.04	0%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0397	1.317	0.0098	1.304	0.0969	0.0349	15	0.13	0%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0055	1.325	0.0300	1.304	0.0969	0.0349	15	0.22	1%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0037	1.337	0.0010	1.304	0.0969	0.0349	15	0.34	1%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0136	1.375	0.0100	1.304	0.0969	0.0349	15	0.73	3%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0086	1.405	0.0788	1.304	0.0969	0.0349	15	1.04	4%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0106	1.407	0.0047	1.304	0.0969	0.0349	15	1.06	4%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (1%)	0025	1.481	0.0010	1.304	0.0969	0.0349	15	1.83	7%	0
321.99	Acid Soluble Zinc , Other (1%)	0476	1.015*	0.0500	1.273	0.1825	0.0530	14	-1.41	10%	0
321.99	Acid Soluble Zinc , Other (1%)	0481	1.075*	0.0100	1.273	0.1825	0.0530	14	-1.09	8%	0
321.99	Acid Soluble Zinc , Other (1%)	0501	1.112*	0.0970	1.273	0.1825	0.0530	14	-0.89	6%	0
321.99	Acid Soluble Zinc , Other (1%)	0523	1.135*	0.0130	1.273	0.1825	0.0530	14	-0.76	5%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.99	Acid Soluble Zinc , Other (1%)	0508	1.204	0.0050	1.273	0.1825	0.0530	14	-0.38	3%	0
321.99	Acid Soluble Zinc , Other (1%)	0042	1.245	0.0900	1.273	0.1825	0.0530	14	-0.15	1%	0
321.99	Acid Soluble Zinc , Other (1%)	0515	1.250	0.0773	1.273	0.1825	0.0530	14	-0.13	1%	0
321.99	Acid Soluble Zinc , Other (1%)	0027	1.264	0.1230	1.273	0.1825	0.0530	14	-0.05	0%	0
321.99	Acid Soluble Zinc , Other (1%)	0368	1.287	0.0233	1.273	0.1825	0.0530	14	0.08	1%	0
321.99	Acid Soluble Zinc , Other (1%)	0389	1.350	0.0400	1.273	0.1825	0.0530	14	0.42	3%	0
321.99	Acid Soluble Zinc , Other (1%)	0524	1.408	0.0032	1.273	0.1825	0.0530	14	0.74	5%	0
321.99	Acid Soluble Zinc , Other (1%)	0371	1.420	0.0200	1.273	0.1825	0.0530	14	0.80	6%	0
321.99	Acid Soluble Zinc , Other (1%)	0307	1.515	0.1500	1.273	0.1825	0.0530	14	1.32	9%	0
321.99	Acid Soluble Zinc , Other (1%)	0519	1.580	0.0400	1.273	0.1825	0.0530	14	1.68	12%	0
325.00	Water Soluble Zinc , AA (%)	0200	0.3050	0.0100				2			0
325.00	Water Soluble Zinc , AA (%)	0027	0.8485	0.1310				2			0
325.30	Water Soluble Zinc , ICP (%)	0231	0.0900	0.0000	0.7300	0.6664	0.1240	5	-0.96	44%	0
325.30	Water Soluble Zinc , ICP (%)	0230	0.2500	0.0800	0.7300	0.6664	0.1240	5	-0.72	33%	0
325.30	Water Soluble Zinc , ICP (%)	0444	0.4200	0.0200	0.7300	0.6664	0.1240	5	-0.47	21%	0
325.30	Water Soluble Zinc , ICP (%)	0402	1.350	0.0200	0.7300	0.6664	0.1240	5	0.93	42%	0
325.30	Water Soluble Zinc , ICP (%)	0406	1.540	0.5000	0.7300	0.6664	0.1240	5	1.22	55%	0

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 and a 4 flag indicates rejected due to 0 value submitted. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are included for information only (Grey). An offset lab value with an asterix indicates that the value is lower than the Analyte value less the IA. Method or 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.