

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 180311

Grade 3-1-2

Statistical Summary

Methods: 121

Labs Reporting: 87

Issue Date : 04/30/2018

Method Code	Analyte & Method Sample # 180311	# 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)	Hornitz %RSD
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	1		0.1300									
001.99	Ammoniacal Nitrogen, Other (%)	7	6	0.9667	1.620	0.3549		0.1629	0.0831	45.90%		0.0167	4.67%
002.99	Nitrate Nitrogen, Other (%)	2	2	0.0400	0.0141								
003.10	Water Insoluble Nitrogen, Method I (%)	3	3	0.7250	0.0397	0.7250		0.0397	0.0286	5.47%		0.0167	4.20%
005.00	Urea Nitrogen, Urease (as N) (%)	1		1.950									
005.99	Urea Nitrogen, Other (%)	1		0.0200									
007.99	Urea, Other (%)	1		0.0100									
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	1		2.550									
010.10	Total Nitrogen, Reduced Iron (3%)	1		2.810									
010.11	Total Nitrogen, Modified Comprehensive (3%)	5	5	2.900	0.1982	2.900	0.4900	0.1982	0.1108	6.84%	0.94	0.0440	3.41%
010.12	Total Nitrogen, Salicylic (3%)	4	4	3.686	0.9485	3.686	0.4900	0.9485	0.5928	25.73%	4.51	0.0475	3.29%
010.60	Total Nitrogen, Combustion (3%)	55	54	3.102	0.1770	3.080	0.4900	0.1048	0.0178	3.40%	0.50	0.0603	3.38%
010.99	Total Nitrogen, Other (3%)	13	12	2.767	0.8204	2.968	0.4900	0.4087	0.1475	13.77%	1.94	0.0451	3.40%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ..	6	6	3.248	0.4376	3.248		0.4963	0.2532	15.28%		0.0350	3.35%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb	16	16	3.295	0.5364	3.352		0.4282	0.1338	12.77%		0.1160	3.33%
020.40	Total Phosphorus as P2O5, Automated (%)	3	3	3.702	0.0843	3.702		0.0843	0.0608	2.28%		0.0300	3.28%
020.50	Total Phosphorus as P2O5, ICP (%)	23	23	3.656	0.6656	3.796		0.3410	0.0889	8.98%		0.0721	3.27%
020.99	Total Phosphorus as P2O5, Other (%)	2	2	1.909	0.8618								
040.20	Indirect Available Phosphorus as P2O5, Spectrophot...	1		2.990									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q..	5	5	3.107	0.3811	3.107	0.6700	0.3811	0.2131	12.27%	1.33	0.0934	3.37%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q..	5	5	2.947	0.3045	2.947	0.6700	0.3045	0.1702	10.33%	1.06	0.0597	3.40%
041.20	Direct Available Phosphorus as P2O5, Spectrophotom	1		3.200									
041.21	Direct Available Phosphorus as P2O5, Spectrophotom	3	3	3.713	0.1233	3.713	0.6700	0.1233	0.0890	3.32%	0.43	0.0600	3.28%
041.40	Direct Available Phosphorus as P2O5, Automated (1%	2	2	3.388	0.2440								
041.50	Direct Available Phosphorus as P2O5, ICP (1%)	1		3.800									
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-... (	7	7	3.690	0.1907	3.742	0.6700	0.0727	0.0343	1.94%	0.25	0.0873	3.28%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ..	11	10	3.337	0.6365	3.406	0.6700	0.5480	0.2166	16.09%	1.91	0.1024	3.33%
041.99	Direct Available Phosphorus as P2O5, Other (1%)	5	5	1.992	1.250	1.992	0.6700	1.250	0.6989	62.75%	4.35	0.0752	3.61%
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	12	12	3.433	0.4858	3.426	0.4100	0.5352	0.1931	15.62%	3.04	0.2444	3.32%
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	7	7	3.715	0.1170	3.713	0.4100	0.1275	0.0602	3.43%	0.72	0.0500	3.28%
050.31	Soluble Potassium as K2O, AA (Citrate) (2%)	1		3.700									

Method Code	Analyte & Method Sample # 180311	# 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)	Howitz %RSD
050.32	Soluble Potassium as K2O, AA (Citrate-EDTA) (2%)	1		3.885									
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	8	8	3.741	0.2080	3.741	0.4100	0.2358	0.1042	6.30%	1.34	0.0697	3.28%
050.51	Soluble Potassium as K2O, ICP (Citrate) (2%)	4	4	3.724	0.3510	3.724	0.4100	0.3510	0.2194	9.43%	1.99	0.0225	3.28%
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	10	10	3.835	0.2872	3.799	0.4100	0.2306	0.0911	6.07%	1.31	0.0630	3.27%
050.60	Soluble Potassium as K2O, Flame Photometric (Oxala	3	3	3.233	1.008	3.233	0.4100	1.008	0.7277	31.19%	5.73	0.0267	3.35%
050.61	Soluble Potassium as K2O, Flame Photometric (Citra..	2	2	3.675	0.0212								
050.62	Soluble Potassium as K2O, Flame Photometric (Citra..	5	5	3.720	0.1021	3.720	0.4100	0.1021	0.0571	2.74%	0.58	0.1268	3.28%
050.99	Soluble Potassium as K2O, Other (2%)	29	28	3.494	0.5167	3.588	0.4100	0.3255	0.0769	9.07%	1.85	0.1224	3.30%
101.03	Acid Soluble Calcium, AA, 965.09, test portion 200... (	1		0.0387									
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	6	6	0.1069	0.0829	0.0985	0.2049	0.0737	0.0376	74.79%	0.84	0.0312	5.67%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	2	2	0.0386	0.0034								
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C... (	4	4	0.0420	0.0094	0.0420	0.2021	0.0094	0.0059	22.38%	0.11	0.0007	6.45%
101.99	Acid Soluble Calcium, Other (%)	1		0.0400									
121.03	Acid Soluble Magnesium, AA, 965.09, test portion 2...	1		0.3268									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (	8	8	0.3996	0.0418	0.3996	0.2200	0.0474	0.0209	11.85%	0.50	0.0173	4.59%
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A...	2	2	0.3883	0.0096								
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A...	6	5	0.3803	0.0210	0.3803	0.2190	0.0210	0.0117	5.52%	0.22	0.0084	4.63%
121.99	Acid Soluble Magnesium, Other (%)	3	3	0.2495	0.1870	0.2495	0.2125	0.1870	0.1350	74.96%	2.05	0.0065	4.93%
131.30	Water Soluble Magnesium, ICP (%)	1		0.3900									
143.99	Elemental Sulfur, Other (%)	2	2	0.8950	0.0071								
146.99	Total Sulfur in Liquid, Other (%)	1		3.660									
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi... (%)	8	7	0.8092	0.3507	0.9220	0.2461	0.0750	0.0354	8.13%	0.71	0.0224	4.05%
148.99	Total Sulfur, Other (%)	3	3	0.9933	0.0362	0.9933	0.2497	0.0362	0.0261	3.64%	0.34	0.0793	4.00%
149.04	Sulfur - HNO3 soluble, ICP (%)	3	3	0.9303	0.0196	0.9303		0.0196	0.0142	2.11%		0.0039	4.04%
151.00	Acid Soluble Arsenic , AA, test portion as in 2006... (pp	2	2	0.4175	0.2086								
151.30	Acid Soluble Arsenic , ICP (ppm)	4	4	5.432	8.183	5.432		8.183	5.114	150.66%		6.860	12.40%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9:3... (	4	4	2.058	1.315	2.058		1.315	0.8219	63.89%		0.5778	14.35%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	2	2	2.238	1.290								
151.99	Acid Soluble Arsenic , Other (ppm)	2	2	1.137	0.1923								
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (%)	3	3	0.0050	0.0046	0.0050	0.0037	0.0046	0.0033	92.40%	2.86	0.0000	8.88%
165.99	Acid Soluble Boron , Other (%)	4	4	0.0036	0.0056	0.0036	0.0035	0.0056	0.0035	158.27%	3.72	0.0010	9.34%
181.00	Acid Soluble Cadmium , AA, test portion as in 2006... (	3	3	3.533	0.2329	3.533		0.2329	0.1681	6.59%		0.9267	13.23%
181.30	Acid Soluble Cadmium , ICP (ppm)	9	9	3.398	0.4605	3.395		0.5137	0.2140	15.13%		0.2689	13.31%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3..	5	5	4.824	2.406	4.824		2.406	1.345	49.87%		0.3169	12.62%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	2	2	4.076	0.0972								
181.99	Acid Soluble Cadmium , Other (ppm)	5	5	3.242	0.4386	3.242		0.4386	0.2452	13.53%		0.0592	13.40%
190.00	Water Soluble Chlorine, Titrimetric (%)	1		1.175									
191.00	Acid Soluble Chromium , AA, test portion as in 200... (l	2	2	11.34	14.66								
191.30	Acid Soluble Chromium , ICP (ppm)	7	6	22.16	4.689	21.68		4.150	2.118	19.14%		0.7450	10.07%
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:...	7	7	28.58	8.733	27.01		5.840	2.759	21.62%		2.872	9.74%
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppn	2	2	24.93	2.263								
191.99	Acid Soluble Chromium , Other (ppm)	5	5	18.83	7.997	18.83		7.997	4.471	42.47%		0.1614	10.28%

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202.30	Acid Soluble Cobalt , ICP (ppm)	4	4	0.3774	0.1177	0.3774	1.1132	0.1177	0.0735	31.18%	0.25	0.0072	18.52%
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ... (p	7	5	0.8443	0.6571	0.8443	1.2533	0.6571	0.3673	77.83%	1.22	0.5273	16.41%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	2	2	0.4130	0.1669								
202.99	Acid Soluble Cobalt , Other (ppm)	3	3	0.3413	0.0791	0.3413	1.1024	0.0791	0.0571	23.18%	0.17	0.0420	18.81%
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	2	2	0.0139	0.0182								
221.30	Acid Soluble Copper , ICP, test portion inorganic ... (%)	7	6	0.0023	0.0038	0.0009	0.0051	0.0005	0.0003	54.96%	0.23	0.0001	11.50%
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C (%)	1		0.0005									
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C... (	5	5	0.0008	0.0008	0.0008	0.0051	0.0008	0.0004	97.79%	0.35	0.0000	11.77%
221.99	Acid Soluble Copper , Other (%)	7	6	0.0006	0.0003	0.0005	0.0051	0.0002	0.0001	32.14%	0.08	0.0000	12.52%
241.03	Acid Soluble Iron, AA, 965.09, test portion 2006.0... (%)	1		0.0360									
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (%)	8	7	0.0374	0.0073	0.0374	0.0087	0.0082	0.0039	22.08%	2.20	0.0039	6.56%
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C (%)	2	2	1.131	1.549								
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w... (%)	6	5	0.0314	0.0117	0.0314	0.0081	0.0117	0.0065	37.24%	3.35	0.0015	6.73%
241.99	Acid Soluble Iron, Other (%)	3	3	0.0288	0.0065	0.0288	0.0079	0.0065	0.0047	22.42%	1.91	0.0047	6.82%
251.00	Acid Soluble Lead , AA, test portion as in 2006.03... (p	1		14.38									
251.30	Acid Soluble Lead , ICP (ppm)	5	2	1.420	1.881	1.420		1.881	1.662	132.45%		0.6510	15.17%
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN...	2	2	0.7613	0.8362								
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	2	0	0.0000									
251.99	Acid Soluble Lead , Other (ppm)	3	3	0.7192	0.7543	0.7192		0.7543	0.5443	104.88%		0.3670	16.81%
261.30	Acid Soluble Manganese , ICP, test portion 972.02a (%)	4	4	0.0042	0.0039	0.0042	0.0054	0.0039	0.0024	93.60%	1.68	0.0000	9.13%
261.34	Acid Soluble Manganese , ICP, test portion 2006.03...	3	3	0.0021	0.0001	0.0021	0.0052	0.0001	0.0001	5.59%	0.05	0.0000	10.14%
261.35	Acid Soluble Manganese , ICP, test portion 2006.03...	4	4	0.0040	0.0040	0.0040	0.0054	0.0040	0.0025	100.10%	1.74	0.0005	9.17%
261.99	Acid Soluble Manganese , Other (%)	3	3	0.0021	0.0002	0.0021	0.0052	0.0002	0.0001	8.50%	0.08	0.0001	10.14%
281.30	Acid Soluble Mercury , ICP (ppm)	3	1	0.0210		0.0021		0.0002	0.0002	8.50%		0.0060	40.56%
289.30	Acid Soluble Molybdenum , ICP (ppm)	7	7	1.857	1.581	1.532	1.4597	0.9421	0.4451	61.48%	1.50	0.5674	15.00%
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/..	8	8	1.429	0.1212	1.429	1.4288	0.1274	0.0563	8.92%	0.21	0.4234	15.16%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (p	2	1	0.5500									
289.99	Acid Soluble Molybdenum , Other (ppm)	2	2	1.381	0.0265								
291.00	Acid Soluble Nickel , AA, test portion as in 2006.... (pp	2	2	11.57	7.874								
291.30	Acid Soluble Nickel , ICP (ppm)	9	8	6.234	1.110	6.169		1.105	0.4885	17.92%		0.3736	12.16%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (p	7	6	8.462	4.049	7.083		0.8827	0.4505	12.46%		0.2589	11.91%
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	2	2	7.418	0.6884								
291.99	Acid Soluble Nickel , Other (ppm)	5	5	6.850	3.990	6.850		3.990	2.230	58.25%		0.1374	11.97%
301.30	Acid Soluble Selenium , ICP (ppm)	3	3	1.132	0.5969	1.132		0.5969	0.4308	52.75%		0.4035	15.70%
301.32	Acid Soluble Selenium , ICP, 2006.03 (ppm)	1		0.7315									
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:...	2	2	2.410	1.568								
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	2	2	1.888	0.3712								
301.99	Acid Soluble Selenium , Other (ppm)	4	4	1.716	1.973	1.716		1.973	1.233	114.99%		0.0898	14.75%
311.32	Sodium, ICP, 2006.03 test portion (%)	1		1.107									
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test .	5	5	1.114	0.1090	1.114	0.1164	0.1090	0.0610	9.79%	2.18	0.0593	3.94%
311.99	Sodium, Other (%)	3	3	1.123	0.0454	1.123	0.1173	0.0454	0.0327	4.04%	0.90	0.1333	3.93%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	4	4	0.0240	0.0245	0.0240	0.0074	0.0245	0.0153	102.25%	7.72	0.0081	7.01%

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321.03	Acid Soluble Zinc , AA, 965.09, test portion 2006.... (%)	1		0.0071									
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (%)	11	10	0.0089	0.0012	0.0089	0.0059	0.0013	0.0005	15.03%	0.53	0.0006	8.14%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C (%)	3	3	0.0081	0.0001	0.0081	0.0058	0.0001	0.0001	1.43%	0.05	0.0000	8.26%
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (%)	7	7	0.0085	0.0045	0.0079	0.0058	0.0036	0.0017	45.30%	1.45	0.0006	8.28%
321.99	Acid Soluble Zinc , Other (%)	8	8	0.0078	0.0011	0.0077	0.0058	0.0010	0.0004	12.89%	0.40	0.0001	8.33%
325.30	Water Soluble Zinc , ICP (%)	1		0.0100									

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.

magruder fertilizer

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STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 180311

Grade 3-1-2

Method Precision Report

Issue Date : 04/30/2018

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
010.60	Total Nitrogen, Combustion (3%)	55	51	3.076	0.1049	0.0966	0.0579	0.1126	3.14%	1.88%	3.66%	1.946
010.99	Total Nitrogen, Other (3%)	13	10	2.978	0.5055	0.5049	0.0357	0.5062	16.95%	1.20%	17.00%	14.18
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	16	14	3.415	0.3629	0.3563	0.0974	0.3694	10.44%	2.85%	10.82%	3.793
020.50	Total Phosphorus as P2O5, ICP (%)	23	21	3.834	0.3192	0.3154	0.0702	0.3231	8.23%	1.83%	8.43%	4.604
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (1%)	11	9	3.497	0.4109	0.4072	0.0780	0.4146	11.64%	2.23%	11.86%	5.316
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	12	11	3.430	0.5094	0.4945	0.1726	0.5238	14.42%	5.03%	15.27%	3.034
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	8	8	3.741	0.2080	0.2028	0.0652	0.2130	5.42%	1.74%	5.69%	3.265
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	10	9	3.760	0.1729	0.1681	0.0570	0.1775	4.47%	1.52%	4.72%	3.113
050.99	Soluble Potassium as K2O, Other (2%)	29	25	3.588	0.3340	0.3255	0.1057	0.3422	9.07%	2.94%	9.54%	3.239
121.30	Acid Soluble Magnesium, ICP, test portion inorganic 965.09 (%)	8	8	0.3996	0.0418	0.0403	0.0157	0.0432	10.08%	3.92%	10.82%	2.756
181.30	Acid Soluble Cadmium , ICP (ppm)	9	8	3.298	0.3729	0.3419	0.2107	0.4016	10.37%	6.39%	12.18%	1.906
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/9:3 HNO3:HCl (ppm)	8	8	1.429	0.1212		0.4213			29.48%		
291.30	Acid Soluble Nickel , ICP (ppm)	9	8	6.234	1.110	1.064	0.4494	1.155	17.06%	7.21%	18.52%	2.569
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (%)	11	9	0.0089	0.0013	0.0012	0.0004	0.0013	13.76%	4.05%	14.35%	3.540
321.99	Acid Soluble Zinc , Other (%)	8	8	0.0078	0.0011	0.0011	0.0001	0.0011	14.16%	1.07%	14.20%	13.30

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

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STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 121

Sample # 180311

Lab Values

Labs Reporting: 87

Grade 3-1-2

Issue Date : 04/30/2018

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0309	0.1300	0.0200				1			0
001.99	Ammoniacal Nitrogen, Other (%)	0423	0.2150	0.0100	0.3549	0.1629	0.0167	6	-0.76	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0482	0.2200	0.0000	0.3549	0.1629	0.0167	6	-0.74	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0522	0.3050	0.0100	0.3549	0.1629	0.0167	6	-0.27	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0220	0.3950	0.0500	0.3549	0.1629	0.0167	6	0.22	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0541	0.3950	0.0300	0.3549	0.1629	0.0167	6	0.22	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0524	4.270	0.0000	0.3549	0.1629	0.0167	6	21.41	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	23.55	5.150	0.3549	0.1629	0.0167	6	126.82	NA	1
002.99	Nitrate Nitrogen, Other (%)	0423	0.0300	0.0000				2			0
002.99	Nitrate Nitrogen, Other (%)	0482	0.0500	0.0200				2			0
003.10	Water Insoluble Nitrogen, Method I (%)	0027	0.6800	0.0000	0.7250	0.0397	0.0167	3	-1.13		0
003.10	Water Insoluble Nitrogen, Method I (%)	0451	0.7400	0.0400	0.7250	0.0397	0.0167	3	0.38		0
003.10	Water Insoluble Nitrogen, Method I (%)	0220	0.7550	0.0100	0.7250	0.0397	0.0167	3	0.76		0
005.00	Urea Nitrogen, Urease (as N) (%)	0027	1.950	0.1000				1			0
005.99	Urea Nitrogen, Other (%)	0482	0.0200	0.0000				1			0
007.99	Urea, Other (%)	0220	0.0100	0.0000				1			0
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	0518	2.550	0.1400				1			0
010.10	Total Nitrogen, Reduced Iron (3%)	0546	2.810	0.0000				1			0
010.11	Total Nitrogen, Modified Comprehensive (3%)	0540	2.590	0.0200	2.900	0.1982	0.0440	5	-1.56		0
010.11	Total Nitrogen, Modified Comprehensive (3%)	0309	2.815	0.0700	2.900	0.1982	0.0440	5	-0.43		0
010.11	Total Nitrogen, Modified Comprehensive (3%)	0114	3.005	0.1100	2.900	0.1982	0.0440	5	0.53		0
010.11	Total Nitrogen, Modified Comprehensive (3%)	0105	3.025	0.0100	2.900	0.1982	0.0440	5	0.63		0
010.11	Total Nitrogen, Modified Comprehensive (3%)	0220	3.065	0.0100	2.900	0.1982	0.0440	5	0.83		0
010.12	Total Nitrogen, Salicylic (3%)	0416	3.040	0.0000	3.686	0.9485	0.0475	4	-0.68		0
010.12	Total Nitrogen, Salicylic (3%)	0498	3.250	0.1000	3.686	0.9485	0.0475	4	-0.46		0
010.12	Total Nitrogen, Salicylic (3%)	0481	3.360	0.0400	3.686	0.9485	0.0475	4	-0.34		0
010.12	Total Nitrogen, Salicylic (3%)	0117	5.095	0.0500	3.686	0.9485	0.0475	4	1.49		0
010.60	Total Nitrogen, Combustion (3%)	0055	2.800	0.0600	3.080	0.1048	0.0603	54	-2.67	OK	0
010.60	Total Nitrogen, Combustion (3%)	0073	2.905	0.0700	3.080	0.1048	0.0603	54	-1.67	OK	0
010.60	Total Nitrogen, Combustion (3%)	0482	2.945	0.1900	3.080	0.1048	0.0603	54	-1.29	OK	0
010.60	Total Nitrogen, Combustion (3%)	0292	2.955	0.0100	3.080	0.1048	0.0603	54	-1.19	OK	0
010.60	Total Nitrogen, Combustion (3%)	0405	2.960	0.0000	3.080	0.1048	0.0603	54	-1.14	OK	0
010.60	Total Nitrogen, Combustion (3%)	0042	2.965	0.0100	3.080	0.1048	0.0603	54	-1.10	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (3%)	0072	2.970	0.1000	3.080	0.1048	0.0603	54	-1.05	OK	0
010.60	Total Nitrogen, Combustion (3%)	0027	2.975	0.0100	3.080	0.1048	0.0603	54	-1.00	OK	0
010.60	Total Nitrogen, Combustion (3%)	0023	2.980	0.0860	3.080	0.1048	0.0603	54	-0.95	OK	0
010.60	Total Nitrogen, Combustion (3%)	0389	2.990	0.0000	3.080	0.1048	0.0603	54	-0.86	OK	0
010.60	Total Nitrogen, Combustion (3%)	0444	2.990	0.2000	3.080	0.1048	0.0603	54	-0.86	OK	0
010.60	Total Nitrogen, Combustion (3%)	0527	2.992	0.0130	3.080	0.1048	0.0603	54	-0.84	OK	0
010.60	Total Nitrogen, Combustion (3%)	0041	2.995	0.0100	3.080	0.1048	0.0603	54	-0.81	OK	0
010.60	Total Nitrogen, Combustion (3%)	0307	2.997	0.1220	3.080	0.1048	0.0603	54	-0.79	OK	0
010.60	Total Nitrogen, Combustion (3%)	0501	3.005	0.0300	3.080	0.1048	0.0603	54	-0.71	OK	0
010.60	Total Nitrogen, Combustion (3%)	0136	3.015	0.0300	3.080	0.1048	0.0603	54	-0.62	OK	0
010.60	Total Nitrogen, Combustion (3%)	0043	3.020	0.0600	3.080	0.1048	0.0603	54	-0.57	OK	0
010.60	Total Nitrogen, Combustion (3%)	0354	3.025	0.0100	3.080	0.1048	0.0603	54	-0.52	OK	0
010.60	Total Nitrogen, Combustion (3%)	0494	3.030	0.1200	3.080	0.1048	0.0603	54	-0.47	OK	0
010.60	Total Nitrogen, Combustion (3%)	0234	3.035	0.0100	3.080	0.1048	0.0603	54	-0.43	OK	0
010.60	Total Nitrogen, Combustion (3%)	0049	3.040	0.0405	3.080	0.1048	0.0603	54	-0.38	OK	0
010.60	Total Nitrogen, Combustion (3%)	0086	3.043	0.0069	3.080	0.1048	0.0603	54	-0.35	OK	0
010.60	Total Nitrogen, Combustion (3%)	0177	3.045	0.0040	3.080	0.1048	0.0603	54	-0.33	OK	0
010.60	Total Nitrogen, Combustion (3%)	0481	3.045	0.0500	3.080	0.1048	0.0603	54	-0.33	OK	0
010.60	Total Nitrogen, Combustion (3%)	0523	3.050	0.1000	3.080	0.1048	0.0603	54	-0.28	OK	0
010.60	Total Nitrogen, Combustion (3%)	0550	3.050	0.2600	3.080	0.1048	0.0603	54	-0.28	OK	0
010.60	Total Nitrogen, Combustion (3%)	0368	3.064	0.0490	3.080	0.1048	0.0603	54	-0.16	OK	0
010.60	Total Nitrogen, Combustion (3%)	0486	3.070	0.0000	3.080	0.1048	0.0603	54	-0.09	OK	0
010.60	Total Nitrogen, Combustion (3%)	0521	3.081	0.0000	3.080	0.1048	0.0603	54	0.01	OK	0
010.60	Total Nitrogen, Combustion (3%)	0451	3.083	0.1890	3.080	0.1048	0.0603	54	0.03	OK	0
010.60	Total Nitrogen, Combustion (3%)	0035	3.090	0.0600	3.080	0.1048	0.0603	54	0.10	OK	0
010.60	Total Nitrogen, Combustion (3%)	0018	3.105	0.1500	3.080	0.1048	0.0603	54	0.24	OK	0
010.60	Total Nitrogen, Combustion (3%)	0037	3.109	0.2180	3.080	0.1048	0.0603	54	0.28	OK	0
010.60	Total Nitrogen, Combustion (3%)	0131	3.120	0.0262	3.080	0.1048	0.0603	54	0.39	OK	0
010.60	Total Nitrogen, Combustion (3%)	0185	3.125	0.0700	3.080	0.1048	0.0603	54	0.43	OK	0
010.60	Total Nitrogen, Combustion (3%)	0034	3.137	0.0310	3.080	0.1048	0.0603	54	0.54	OK	0
010.60	Total Nitrogen, Combustion (3%)	0029	3.139	0.0040	3.080	0.1048	0.0603	54	0.57	OK	0
010.60	Total Nitrogen, Combustion (3%)	0025	3.142	0.0380	3.080	0.1048	0.0603	54	0.59	OK	0
010.60	Total Nitrogen, Combustion (3%)	0231	3.145	0.0100	3.080	0.1048	0.0603	54	0.62	OK	0
010.60	Total Nitrogen, Combustion (3%)	0105	3.150	0.0000	3.080	0.1048	0.0603	54	0.67	OK	0
010.60	Total Nitrogen, Combustion (3%)	0452	3.150	0.0000	3.080	0.1048	0.0603	54	0.67	OK	0
010.60	Total Nitrogen, Combustion (3%)	0291	3.155	0.0100	3.080	0.1048	0.0603	54	0.72	OK	0
010.60	Total Nitrogen, Combustion (3%)	0423	3.155	0.0700	3.080	0.1048	0.0603	54	0.72	OK	0
010.60	Total Nitrogen, Combustion (3%)	0547	3.155	0.0100	3.080	0.1048	0.0603	54	0.72	OK	0
010.60	Total Nitrogen, Combustion (3%)	0324	3.160	0.0200	3.080	0.1048	0.0603	54	0.77	OK	0
010.60	Total Nitrogen, Combustion (3%)	0095	3.195	0.0300	3.080	0.1048	0.0603	54	1.10	OK	0
010.60	Total Nitrogen, Combustion (3%)	0377	3.195	0.0100	3.080	0.1048	0.0603	54	1.10	OK	0
010.60	Total Nitrogen, Combustion (3%)	0534	3.200	0.2000	3.080	0.1048	0.0603	54	1.15	OK	0
010.60	Total Nitrogen, Combustion (3%)	0040	3.250	0.1000	3.080	0.1048	0.0603	54	1.62	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (3%)	0483	3.250	0.0600	3.080	0.1048	0.0603	54	1.62	OK	0
010.60	Total Nitrogen, Combustion (3%)	0472	3.320	0.0000	3.080	0.1048	0.0603	54	2.29	OK	0
010.60	Total Nitrogen, Combustion (3%)	0325	3.350	0.1000	3.080	0.1048	0.0603	54	2.58	OK	0
010.60	Total Nitrogen, Combustion (3%)	0007	3.600	0.0000	3.080	0.1048	0.0603	54	4.96	High	0
010.60	Total Nitrogen, Combustion (3%)	0230	4.010	0.2000	3.080	0.1048	0.0603	54	8.88	High	0
010.60	Total Nitrogen, Combustion (3%)	0255	3.307	0.4980	3.080	0.1048	0.0603	54	2.17	OK	1
010.99	Total Nitrogen, Other (3%)	0526	0.6094	0.0000	2.968	0.4087	0.0451	12	-5.77	Low	0
010.99	Total Nitrogen, Other (3%)	0522	1.685	0.0500	2.968	0.4087	0.0451	12	-3.14	Low	0
010.99	Total Nitrogen, Other (3%)	0520	2.815	0.1700	2.968	0.4087	0.0451	12	-0.38	OK	0
010.99	Total Nitrogen, Other (3%)	0476	2.836	0.1138	2.968	0.4087	0.0451	12	-0.32	OK	0
010.99	Total Nitrogen, Other (3%)	0493	2.975	0.0500	2.968	0.4087	0.0451	12	0.02	OK	0
010.99	Total Nitrogen, Other (3%)	0533	2.995	0.0700	2.968	0.4087	0.0451	12	0.06	OK	0
010.99	Total Nitrogen, Other (3%)	0537	2.997	0.0101	2.968	0.4087	0.0451	12	0.07	OK	0
010.99	Total Nitrogen, Other (3%)	0508	3.065	0.0100	2.968	0.4087	0.0451	12	0.24	OK	0
010.99	Total Nitrogen, Other (3%)	0524	3.070	0.0018	2.968	0.4087	0.0451	12	0.25	OK	0
010.99	Total Nitrogen, Other (3%)	0397	3.138	0.0450	2.968	0.4087	0.0451	12	0.41	OK	0
010.99	Total Nitrogen, Other (3%)	0544	3.510	0.0000	2.968	0.4087	0.0451	12	1.32	High	0
010.99	Total Nitrogen, Other (3%)	0545	3.510	0.0200	2.968	0.4087	0.0451	12	1.32	High	0
010.99	Total Nitrogen, Other (3%)	0506	3.600	0.4200	2.968	0.4087	0.0451	12	1.55	High	1
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0049	2.870	0.0600	3.248	0.4963	0.0350	6	-0.68	NA	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	2.955	0.0500	3.248	0.4963	0.0350	6	-0.53	NA	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	3.020	0.0000	3.248	0.4963	0.0350	6	-0.41	NA	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0114	3.025	0.0900	3.248	0.4963	0.0350	6	-0.40	NA	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	3.785	0.0100	3.248	0.4963	0.0350	6	0.96	NA	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0136	3.830	0.0000	3.248	0.4963	0.0350	6	1.05	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0481	1.750	0.1000	3.352	0.4282	0.1160	16	-3.74	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0516	2.718	0.0260	3.352	0.4282	0.1160	16	-1.48	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0177	3.055	0.0605	3.352	0.4282	0.1160	16	-0.69	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	3.100	0.1200	3.352	0.4282	0.1160	16	-0.59	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	3.135	0.0100	3.352	0.4282	0.1160	16	-0.51	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	3.170	0.4000	3.352	0.4282	0.1160	16	-0.42	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0416	3.205	0.0100	3.352	0.4282	0.1160	16	-0.34	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0506	3.215	0.1900	3.352	0.4282	0.1160	16	-0.32	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0498	3.350	0.1000	3.352	0.4282	0.1160	16	0.00	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	3.505	0.0500	3.352	0.4282	0.1160	16	0.36	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0550	3.620	0.3800	3.352	0.4282	0.1160	16	0.63	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0541	3.635	0.1300	3.352	0.4282	0.1160	16	0.66	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0476	3.643	0.1493	3.352	0.4282	0.1160	16	0.68	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0547	3.780	0.0000	3.352	0.4282	0.1160	16	1.00	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0522	3.795	0.0100	3.352	0.4282	0.1160	16	1.03	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	4.050	0.1200	3.352	0.4282	0.1160	16	1.63	NA	0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	3.605	0.0100	3.702	0.0843	0.0300	3	-1.15		0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	3.740	0.0600	3.702	0.0843	0.0300	3	0.45		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
020.40	Total Phosphorus as P2O5, Automated (%)	0105	3.760	0.0200	3.702	0.0843	0.0300	3	0.69		0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	1.550	0.1000	3.796	0.3410	0.0721	23	-6.59	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0542	2.040	0.1400	3.796	0.3410	0.0721	23	-5.15	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0527	2.940	0.0200	3.796	0.3410	0.0721	23	-2.51	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	3.365	0.1100	3.796	0.3410	0.0721	23	-1.26	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	3.545	0.0100	3.796	0.3410	0.0721	23	-0.74	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0157	3.570	0.1800	3.796	0.3410	0.0721	23	-0.66	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	3.625	0.2500	3.796	0.3410	0.0721	23	-0.50	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	3.742	0.0846	3.796	0.3410	0.0721	23	-0.16	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0444	3.775	0.0500	3.796	0.3410	0.0721	23	-0.06	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	3.805	0.0300	3.796	0.3410	0.0721	23	0.03	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0433	3.810	0.0000	3.796	0.3410	0.0721	23	0.04	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0042	3.820	0.1000	3.796	0.3410	0.0721	23	0.07	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0291	3.885	0.0100	3.796	0.3410	0.0721	23	0.26	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0423	3.885	0.0100	3.796	0.3410	0.0721	23	0.26	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0546	3.905	0.0680	3.796	0.3410	0.0721	23	0.32	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0231	3.920	0.1000	3.796	0.3410	0.0721	23	0.36	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	3.935	0.0000	3.796	0.3410	0.0721	23	0.41	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	3.945	0.0300	3.796	0.3410	0.0721	23	0.44	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	4.090	0.0200	3.796	0.3410	0.0721	23	0.86	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0307	4.095	0.2300	3.796	0.3410	0.0721	23	0.88	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0452	4.205	0.0100	3.796	0.3410	0.0721	23	1.20	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	4.222	0.0083	3.796	0.3410	0.0721	23	1.25	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0255	4.423	0.0980	3.796	0.3410	0.0721	23	1.84	NA	0
020.99	Total Phosphorus as P2O5, Other (%)	0520	1.300	0.0000				2			0
020.99	Total Phosphorus as P2O5, Other (%)	0515	2.519	0.0753				2			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (1%)	0405	2.990	0.0000				1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0086	2.823	0.0069	3.107	0.3811	0.0934	5	-0.74		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0055	2.835	0.0100	3.107	0.3811	0.0934	5	-0.71		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0494	2.995	0.1700	3.107	0.3811	0.0934	5	-0.29		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0041	3.130	0.1800	3.107	0.3811	0.0934	5	0.06		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0040	3.750	0.1000	3.107	0.3811	0.0934	5	1.69		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0220	2.705	0.0700	2.947	0.3045	0.0597	5	-0.79		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0522	2.785	0.0900	2.947	0.3045	0.0597	5	-0.53		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0185	2.835	0.0100	2.947	0.3045	0.0597	5	-0.37		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0485	2.939	0.0283	2.947	0.3045	0.0597	5	-0.03		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (1%)	0105	3.470	0.1000	2.947	0.3045	0.0597	5	1.72		0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (1%)	0027	3.200	0.0600				1			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (1%)	0106	3.630	0.1400	3.713	0.1233	0.0600	3	-0.68		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (1%)	0544	3.655	0.0100	3.713	0.1233	0.0600	3	-0.47		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (1%)	0522	3.855	0.0300	3.713	0.1233	0.0600	3	1.15		0
041.40	Direct Available Phosphorus as P2O5, Automate... (1%)	0095	3.215	0.0500				2			0
041.40	Direct Available Phosphorus as P2O5, Automate... (1%)	0018	3.560	0.0600				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
041.50	Direct Available Phosphorus as P2O5, ICP (1%)	0325	3.800	0.4000				1			0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (1%)	0423	3.269	0.1170	3.742	0.0727	0.0873	7	-5.89	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (1%)	0494	3.670	0.2800	3.742	0.0727	0.0873	7	-0.90	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (1%)	0117	3.755	0.0450	3.742	0.0727	0.0873	7	0.15	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (1%)	0023	3.775	0.0500	3.742	0.0727	0.0873	7	0.41	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (1%)	0043	3.780	0.0400	3.742	0.0727	0.0873	7	0.47	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (1%)	0377	3.785	0.0100	3.742	0.0727	0.0873	7	0.53	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (1%)	0025	3.798	0.0690	3.742	0.0727	0.0873	7	0.69	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0230	1.900	0.1800	3.406	0.5480	0.1024	10	-2.56	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0472	2.635	0.0100	3.406	0.5480	0.1024	10	-1.31	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0397	3.199	0.2190	3.406	0.5480	0.1024	10	-0.35	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0034	3.321	0.1350	3.406	0.5480	0.1024	10	-0.14	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0105	3.475	0.0900	3.406	0.5480	0.1024	10	0.12	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0029	3.570	0.1200	3.406	0.5480	0.1024	10	0.28	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0055	3.705	0.1100	3.406	0.5480	0.1024	10	0.51	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0231	3.765	0.0500	3.406	0.5480	0.1024	10	0.61	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0354	3.765	0.0500	3.406	0.5480	0.1024	10	0.61	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0486	4.040	0.0600	3.406	0.5480	0.1024	10	1.08	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (1%)	0073	2.030	0.5800	3.406	0.5480	0.1024	10	-2.33	Low	1
041.99	Direct Available Phosphorus as P2O5, Other (1%)	0537	1.026	0.0658	1.992	1.250	0.0752	5	-0.77		0
041.99	Direct Available Phosphorus as P2O5, Other (1%)	0533	1.035	0.1900	1.992	1.250	0.0752	5	-0.77		0
041.99	Direct Available Phosphorus as P2O5, Other (1%)	0545	1.210	0.0200	1.992	1.250	0.0752	5	-0.63		0
041.99	Direct Available Phosphorus as P2O5, Other (1%)	0540	3.090	0.0400	1.992	1.250	0.0752	5	0.88		0
041.99	Direct Available Phosphorus as P2O5, Other (1%)	0518	3.600	0.0600	1.992	1.250	0.0752	5	1.29		0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0114	2.630	0.2600	3.426	0.5352	0.2444	12	-1.49	Low	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0522	2.770	0.0800	3.426	0.5352	0.2444	12	-1.23	Low	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0049	3.040	0.5800	3.426	0.5352	0.2444	12	-0.72	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0544	3.055	0.1700	3.426	0.5352	0.2444	12	-0.69	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0494	3.350	0.1600	3.426	0.5352	0.2444	12	-0.14	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0550	3.470	0.8800	3.426	0.5352	0.2444	12	0.08	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0055	3.575	0.1300	3.426	0.5352	0.2444	12	0.28	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0220	3.655	0.0500	3.426	0.5352	0.2444	12	0.43	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0416	3.760	0.0600	3.426	0.5352	0.2444	12	0.62	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0526	3.786	0.2127	3.426	0.5352	0.2444	12	0.67	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0231	3.790	0.0000	3.426	0.5352	0.2444	12	0.68	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (2%)	0230	4.315	0.3500	3.426	0.5352	0.2444	12	1.66	High	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	0498	3.600	0.0000	3.713	0.1275	0.0500	7	-0.80	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	0309	3.640	0.0000	3.713	0.1275	0.0500	7	-0.52	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	0157	3.645	0.0900	3.713	0.1275	0.0500	7	-0.48	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	0040	3.650	0.1000	3.713	0.1275	0.0500	7	-0.44	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	0356	3.725	0.0900	3.713	0.1275	0.0500	7	0.09	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	0136	3.825	0.0100	3.713	0.1275	0.0500	7	0.80	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (2%)	0073	3.920	0.0600	3.713	0.1275	0.0500	7	1.47	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050.31	Soluble Potassium as K2O, AA (Citrate) (2%)	0472	3.700	0.0200				1			0
050.32	Soluble Potassium as K2O, AA (Citrate-EDTA) (2%)	0185	3.885	0.1100				1			0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0157	3.435	0.0100	3.741	0.2358	0.0697	8	-1.19	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0055	3.595	0.1100	3.741	0.2358	0.0697	8	-0.57	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0106	3.600	0.0600	3.741	0.2358	0.0697	8	-0.55	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0292	3.680	0.0200	3.741	0.2358	0.0697	8	-0.24	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0324	3.725	0.0100	3.741	0.2358	0.0697	8	-0.06	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0086	3.865	0.2029	3.741	0.2358	0.0697	8	0.48	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0444	4.000	0.0800	3.741	0.2358	0.0697	8	1.01	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (2%)	0397	4.027	0.0650	3.741	0.2358	0.0697	8	1.11	OK	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (2%)	0547	3.300	0.0000	3.724	0.3510	0.0225	4	-1.21		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (2%)	0483	3.615	0.0700	3.724	0.3510	0.0225	4	-0.31		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (2%)	0291	3.855	0.0100	3.724	0.3510	0.0225	4	0.37		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (2%)	0452	4.125	0.0100	3.724	0.3510	0.0225	4	1.14		0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0494	3.460	0.1200	3.799	0.2306	0.0630	10	-1.37	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0354	3.565	0.0100	3.799	0.2306	0.0630	10	-0.94	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0377	3.675	0.0500	3.799	0.2306	0.0630	10	-0.50	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0025	3.705	0.0960	3.799	0.2306	0.0630	10	-0.38	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0117	3.809	0.0440	3.799	0.2306	0.0630	10	0.04	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0043	3.870	0.1400	3.799	0.2306	0.0630	10	0.29	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0023	3.880	0.1000	3.799	0.2306	0.0630	10	0.33	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0485	3.880	0.0200	3.799	0.2306	0.0630	10	0.33	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0486	4.000	0.0200	3.799	0.2306	0.0630	10	0.81	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (2%)	0423	4.508	0.0300	3.799	0.2306	0.0630	10	2.86	High	0
050.60	Soluble Potassium as K2O, Flame Photometric ... (2%)	0520	2.075	0.0100	3.233	1.008	0.0267	3	-1.15		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (2%)	0105	3.710	0.0200	3.233	1.008	0.0267	3	0.47		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (2%)	0041	3.915	0.0500	3.233	1.008	0.0267	3	0.68		0
050.61	Soluble Potassium as K2O, Flame Photometric ... (2%)	0035	3.660	0.0200				2			0
050.61	Soluble Potassium as K2O, Flame Photometric ... (2%)	0131	3.690	0.2200				2			0
050.62	Soluble Potassium as K2O, Flame Photometric ... (2%)	0029	3.610	0.2000	3.720	0.1021	0.1268	5	-1.08		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (2%)	0105	3.660	0.1200	3.720	0.1021	0.1268	5	-0.59		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (2%)	0018	3.675	0.0100	3.720	0.1021	0.1268	5	-0.44		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (2%)	0034	3.804	0.0640	3.720	0.1021	0.1268	5	0.82		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (2%)	0095	3.850	0.2400	3.720	0.1021	0.1268	5	1.28		0
050.99	Soluble Potassium as K2O, Other (2%)	0533	2.010	0.0200	3.588	0.3255	0.1224	28	-4.85	Low	0
050.99	Soluble Potassium as K2O, Other (2%)	0537	2.135	0.1538	3.588	0.3255	0.1224	28	-4.46	Low	0
050.99	Soluble Potassium as K2O, Other (2%)	0389	2.745	0.1100	3.588	0.3255	0.1224	28	-2.59	Low	0
050.99	Soluble Potassium as K2O, Other (2%)	0518	2.750	0.3000	3.588	0.3255	0.1224	28	-2.57	Low	0
050.99	Soluble Potassium as K2O, Other (2%)	0481	3.170	0.1200	3.588	0.3255	0.1224	28	-1.28	Low	0
050.99	Soluble Potassium as K2O, Other (2%)	0527	3.290	0.0400	3.588	0.3255	0.1224	28	-0.91	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0482	3.475	0.3100	3.588	0.3255	0.1224	28	-0.35	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0476	3.481	0.1717	3.588	0.3255	0.1224	28	-0.33	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0541	3.485	0.2300	3.588	0.3255	0.1224	28	-0.32	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
050.99	Soluble Potassium as K2O, Other (2%)	0433	3.520	0.0400	3.588	0.3255	0.1224	28	-0.21	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0545	3.525	0.0500	3.588	0.3255	0.1224	28	-0.19	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0506	3.530	0.0200	3.588	0.3255	0.1224	28	-0.18	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0516	3.530	0.0473	3.588	0.3255	0.1224	28	-0.18	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0234	3.560	0.1200	3.588	0.3255	0.1224	28	-0.08	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0523	3.650	0.1000	3.588	0.3255	0.1224	28	0.19	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0542	3.685	0.2700	3.588	0.3255	0.1224	28	0.30	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0540	3.700	0.0600	3.588	0.3255	0.1224	28	0.35	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0096	3.715	0.2500	3.588	0.3255	0.1224	28	0.39	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0307	3.760	0.2000	3.588	0.3255	0.1224	28	0.53	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0177	3.808	0.0540	3.588	0.3255	0.1224	28	0.68	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0451	3.815	0.0100	3.588	0.3255	0.1224	28	0.70	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0524	3.818	0.2036	3.588	0.3255	0.1224	28	0.71	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0521	3.819	0.0000	3.588	0.3255	0.1224	28	0.71	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0042	3.830	0.0600	3.588	0.3255	0.1224	28	0.74	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0546	3.850	0.0060	3.588	0.3255	0.1224	28	0.81	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0368	3.960	0.0554	3.588	0.3255	0.1224	28	1.14	OK	0
050.99	Soluble Potassium as K2O, Other (2%)	0027	4.005	0.4100	3.588	0.3255	0.1224	28	1.28	High	0
050.99	Soluble Potassium as K2O, Other (2%)	0255	4.226	0.0150	3.588	0.3255	0.1224	28	1.96	High	0
050.99	Soluble Potassium as K2O, Other (2%)	0325	3.450	0.7000	3.588	0.3255	0.1224	28	-0.42	OK	1
101.03	Acid Soluble Calcium, AA, 965.09, test portio... (%)	0105	0.0387	0.0035				1			0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.0400	0.0000	0.0985	0.0737	0.0312	6	-0.71	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.0505	0.0030	0.0985	0.0737	0.0312	6	-0.58	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	0.0615	0.0530	0.0985	0.0737	0.0312	6	-0.45	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0041	0.0900	0.1000	0.0985	0.0737	0.0312	6	-0.10	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.1400	0.0000	0.0985	0.0737	0.0312	6	0.50	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0483	0.2595	0.0310	0.0985	0.0737	0.0312	6	1.95	OK	0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	0.0362	0.0000				2			0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0423	0.0410	0.0020				2			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0117	0.0366	0.0016	0.0420	0.0094	0.0007	4	-0.57		0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0494	0.0371	0.0006	0.0420	0.0094	0.0007	4	-0.52		0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0086	0.0381	0.0006	0.0420	0.0094	0.0007	4	-0.41		0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0527	0.0560	0.0000	0.0420	0.0094	0.0007	4	1.50		0
101.99	Acid Soluble Calcium, Other (%)	0389	0.0400	0.0000				1			0
121.03	Acid Soluble Magnesium, AA, 965.09, test port... (%)	0105	0.3268	0.0104				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0035	0.3465	0.0050	0.3996	0.0474	0.0173	8	-1.03	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0482	0.3650	0.0300	0.3996	0.0474	0.0173	8	-0.67	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0354	0.3700	0.0000	0.3996	0.0474	0.0173	8	-0.57	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0041	0.3800	0.0400	0.3996	0.0474	0.0173	8	-0.38	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0444	0.3950	0.0300	0.3996	0.0474	0.0173	8	-0.09	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0472	0.4350	0.0100	0.3996	0.0474	0.0173	8	0.68	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0096	0.4500	0.0200	0.3996	0.0474	0.0173	8	0.97	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0483	0.4555	0.0030	0.3996	0.0474	0.0173	8	1.08	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0423	0.3815	0.0030				2			0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0521	0.3951	0.0000				2			0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0106	0.3550	0.0059	0.3803	0.0210	0.0084	5	-1.05		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0494	0.3673	0.0032	0.3803	0.0210	0.0084	5	-0.54		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0117	0.3825	0.0012	0.3803	0.0210	0.0084	5	0.09		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0086	0.3861	0.0269	0.3803	0.0210	0.0084	5	0.24		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0527	0.4105	0.0050	0.3803	0.0210	0.0084	5	1.26		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0515	0.8653	0.0908	0.3803	0.0210	0.0084	5	20.17		1
121.99	Acid Soluble Magnesium, Other (%)	0515	0.0341	0.0085	0.2495	0.1870	0.0065	3	-1.15		0
121.99	Acid Soluble Magnesium, Other (%)	0524	0.3445	0.0109	0.2495	0.1870	0.0065	3	0.51		0
121.99	Acid Soluble Magnesium, Other (%)	0389	0.3700	0.0000	0.2495	0.1870	0.0065	3	0.64		0
131.30	Water Soluble Magnesium, ICP (%)	0444	0.3900	0.0000				1			0
143.99	Elemental Sulfur, Other (%)	0472	0.8900	0.0000				2			0
143.99	Elemental Sulfur, Other (%)	0389	0.9000	0.0000				2			0
146.99	Total Sulfur in Liquid, Other (%)	0131	3.660	0.1600				1			0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0542	0.0200	0.0000	0.9220	0.0750	0.0224	7	-10.88	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0527	0.8860	0.0000	0.9220	0.0750	0.0224	7	-0.43	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0494	0.8865	0.0051	0.9220	0.0750	0.0224	7	-0.43	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0117	0.9426	0.0409	0.9220	0.0750	0.0224	7	0.25	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0086	0.9439	0.0417	0.9220	0.0750	0.0224	7	0.26	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0483	0.9855	0.0490	0.9220	0.0750	0.0224	7	0.77	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0292	1.000	0.0200	0.9220	0.0750	0.0224	7	0.94	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0515	2.261	0.4203	0.9220	0.0750	0.0224	7	16.14	High	1
148.99	Total Sulfur, Other (%)	0482	0.9700	0.1000	0.9933	0.0362	0.0793	3	-0.65		0
148.99	Total Sulfur, Other (%)	0354	0.9750	0.0900	0.9933	0.0362	0.0793	3	-0.51		0
148.99	Total Sulfur, Other (%)	0096	1.035	0.0480	0.9933	0.0362	0.0793	3	1.15		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	0.9095	0.0030	0.9303	0.0196	0.0039	3	-1.06		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	0.9329	0.0087	0.9303	0.0196	0.0039	3	0.13		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	0.9485	0.0000	0.9303	0.0196	0.0039	3	0.93		0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0498	0.2700	0.0000				2			0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0136	0.5650	0.0100				2			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0389	1.069	0.0074	5.432	8.183	6.860	4	-0.53		0
151.30	Acid Soluble Arsenic , ICP (ppm)	0255	1.258	0.0320	5.432	8.183	6.860	4	-0.51		0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	1.700	0.2000	5.432	8.183	6.860	4	-0.46		0
151.30	Acid Soluble Arsenic , ICP (ppm)	0541	17.70	27.20	5.432	8.183	6.860	4	1.50		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	1.320	0.1502	2.058	1.315	0.5778	4	-0.56		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	1.357	0.0260	2.058	1.315	0.5778	4	-0.53		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0037	1.531	0.2910	2.058	1.315	0.5778	4	-0.40		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	4.026	1.844	2.058	1.315	0.5778	4	1.50		0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0368	1.325	0.0300				2			0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	3.150	0.6600				2			0
151.99	Acid Soluble Arsenic , Other (ppm)	0520	1.001	0.0700				2			0
151.99	Acid Soluble Arsenic , Other (ppm)	0476	1.273	0.0100				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0106	0.0010	0.0001	0.0050	0.0046	0.0000	3	-0.88		0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0542	0.0040	0.0000	0.0050	0.0046	0.0000	3	-0.21		0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0354	0.0100	0.0000	0.0050	0.0046	0.0000	3	1.09		0
165.99	Acid Soluble Boron , Other (%)	0515	0.0002	0.0000	0.0036	0.0056	0.0010	4	-0.60		0
165.99	Acid Soluble Boron , Other (%)	0524	0.0010	0.0000	0.0036	0.0056	0.0010	4	-0.45		0
165.99	Acid Soluble Boron , Other (%)	0423	0.0011	0.0001	0.0036	0.0056	0.0010	4	-0.45		0
165.99	Acid Soluble Boron , Other (%)	0527	0.0120	0.0040	0.0036	0.0056	0.0010	4	1.50		0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0498	3.370	0.2600	3.533	0.2329	0.9267	3	-0.70		0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0550	3.430	2.320	3.533	0.2329	0.9267	3	-0.44		0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0136	3.800	0.2000	3.533	0.2329	0.9267	3	1.15		0
181.30	Acid Soluble Cadmium , ICP (ppm)	0523	2.735	0.0300	3.395	0.5137	0.2689	9	-1.19	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0444	2.785	0.1500	3.395	0.5137	0.2689	9	-1.10	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	3.101	0.0404	3.395	0.5137	0.2689	9	-0.53	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	3.405	0.0700	3.395	0.5137	0.2689	9	0.02	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0482	3.550	0.1000	3.395	0.5137	0.2689	9	0.28	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0035	3.600	0.1600	3.395	0.5137	0.2689	9	0.37	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0096	3.600	0.8000	3.395	0.5137	0.2689	9	0.37	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0255	3.610	0.0700	3.395	0.5137	0.2689	9	0.39	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0541	4.200	1.000	3.395	0.5137	0.2689	9	1.45	NA	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0086	3.614	0.3091	4.824	2.406	0.3169	5	-0.50		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0527	3.622	0.0020	4.824	2.406	0.3169	5	-0.50		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0494	3.717	0.1723	4.824	2.406	0.3169	5	-0.46		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0037	4.051	0.0020	4.824	2.406	0.3169	5	-0.32		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0515	9.116	1.099	4.824	2.406	0.3169	5	1.78		0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	4.008	0.3830				2			0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0368	4.145	0.1100				2			0
181.99	Acid Soluble Cadmium , Other (ppm)	0481	2.685	0.0700	3.242	0.4386	0.0592	5	-1.27		0
181.99	Acid Soluble Cadmium , Other (ppm)	0506	2.950	0.0000	3.242	0.4386	0.0592	5	-0.67		0
181.99	Acid Soluble Cadmium , Other (ppm)	0476	3.287	0.0160	3.242	0.4386	0.0592	5	0.10		0
181.99	Acid Soluble Cadmium , Other (ppm)	0520	3.488	0.0100	3.242	0.4386	0.0592	5	0.56		0
181.99	Acid Soluble Cadmium , Other (ppm)	0220	3.800	0.2000	3.242	0.4386	0.0592	5	1.27		0
190.00	Water Soluble Chlorine, Titrimetric (%)	0105	1.175	0.0700				1			0
191.00	Acid Soluble Chromium , AA, test portion as i...	0550	0.9700	0.0000				2			0
191.00	Acid Soluble Chromium , AA, test portion as i...	0498	21.70	1.800				2			0
191.30	Acid Soluble Chromium , ICP (ppm)	0523	17.65	0.3000	21.68	4.150	0.7450	6	-0.87	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	19.50	0.3400	21.68	4.150	0.7450	6	-0.47	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	20.35	0.1000	21.68	4.150	0.7450	6	-0.29	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	20.84	1.230	21.68	4.150	0.7450	6	-0.18	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	23.85	1.300	21.68	4.150	0.7450	6	0.47	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	30.80	1.200	21.68	4.150	0.7450	6	1.96	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0541	18.80	7.600	21.68	4.150	0.7450	6	-0.62	NA	1
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0086	21.62	1.095	27.01	5.840	2.872	7	-0.83	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0494	22.14	0.7551	27.01	5.840	2.872	7	-0.75	NA	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0117	23.40	1.340	27.01	5.840	2.872	7	-0.56	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0105	27.46	6.950	27.01	5.840	2.872	7	0.07	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0527	27.62	0.9700	27.01	5.840	2.872	7	0.10	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0037	31.03	1.599	27.01	5.840	2.872	7	0.62	NA	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0515	46.82	7.397	27.01	5.840	2.872	7	3.07	NA	0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	23.33	1.335				2			0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0368	26.53	0.5800				2			0
191.99	Acid Soluble Chromium , Other (ppm)	0506	6.270	0.0000	18.83	7.997	0.1614	5	-1.57		0
191.99	Acid Soluble Chromium , Other (ppm)	0520	16.26	0.4020	18.83	7.997	0.1614	5	-0.32		0
191.99	Acid Soluble Chromium , Other (ppm)	0481	21.85	0.1000	18.83	7.997	0.1614	5	0.38		0
191.99	Acid Soluble Chromium , Other (ppm)	0476	22.78	0.3050	18.83	7.997	0.1614	5	0.49		0
191.99	Acid Soluble Chromium , Other (ppm)	0220	27.00	0.0000	18.83	7.997	0.1614	5	1.02		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0523	0.2750	0.0100	0.3774	0.1177	0.0072	4	-0.87		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	0.3250	0.0100	0.3774	0.1177	0.0072	4	-0.45		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0520	0.3645	0.0070	0.3774	0.1177	0.0072	4	-0.11		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	0.5452	0.0017	0.3774	0.1177	0.0072	4	1.43		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0086	0.3588	0.1599	0.8443	0.6571	0.5273	5	-0.64		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0527	0.3890	0.0040	0.8443	0.6571	0.5273	5	-0.60		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0494	0.4256	0.0328	0.8443	0.6571	0.5273	5	-0.56		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0550	1.220	0.0000	0.8443	0.6571	0.5273	5	0.50		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	1.828	2.440	0.8443	0.6571	0.5273	5	1.31		0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0037	5,725	290.0	0.8443	0.6571	0.5273	5	7603.66		2
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0546	0.0000	0.0000	0.8443	0.6571	0.5273	5			4
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0368	0.2950	0.2100				2			0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	0.5310	0.0400				2			0
202.99	Acid Soluble Cobalt , Other (ppm)	0220	0.2500	0.1000	0.3413	0.0791	0.0420	3	-1.15		0
202.99	Acid Soluble Cobalt , Other (ppm)	0255	0.3850	0.0000	0.3413	0.0791	0.0420	3	0.55		0
202.99	Acid Soluble Cobalt , Other (ppm)	0476	0.3890	0.0260	0.3413	0.0791	0.0420	3	0.60		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	0550	0.0011	0.0007				2			0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	0516	0.0268	0.0072				2			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0096	0.0004	0.0000	0.0009	0.0005	0.0001	6	-0.90	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0541	0.0006	0.0003	0.0009	0.0005	0.0001	6	-0.63	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0035	0.0008	0.0002	0.0009	0.0005	0.0001	6	-0.18	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0041	0.0010	0.0000	0.0009	0.0005	0.0001	6	0.18	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0255	0.0010	0.0000	0.0009	0.0005	0.0001	6	0.18	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0354	0.0100	0.0000	0.0009	0.0005	0.0001	6	16.43	High	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0483	3.540	0.9800	0.0009	0.0005	0.0001	6	6387.84	High	2
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0423	0.0005	0.0001				1			0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0106	0.0001	0.0000	0.0008	0.0008	0.0000	5	-0.89		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0494	0.0004	0.0000	0.0008	0.0008	0.0000	5	-0.49		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0546	0.0004	0.0000	0.0008	0.0008	0.0000	5	-0.49		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0515	0.0010	0.0001	0.0008	0.0008	0.0000	5	0.24		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0527	0.0020	0.0000	0.0008	0.0008	0.0000	5	1.63		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
221.99	Acid Soluble Copper , Other (%)	0389	0.0004	0.0000	0.0005	0.0002	0.0000	6	-0.59	OK	0
221.99	Acid Soluble Copper , Other (%)	0476	0.0004	0.0000	0.0005	0.0002	0.0000	6	-0.59	OK	0
221.99	Acid Soluble Copper , Other (%)	0524	0.0004	0.0000	0.0005	0.0002	0.0000	6	-0.59	OK	0
221.99	Acid Soluble Copper , Other (%)	0368	0.0005	0.0000	0.0005	0.0002	0.0000	6	-0.05	OK	0
221.99	Acid Soluble Copper , Other (%)	0220	0.0006	0.0000	0.0005	0.0002	0.0000	6	0.50	OK	0
221.99	Acid Soluble Copper , Other (%)	0481	0.0011	0.0000	0.0005	0.0002	0.0000	6	3.22	OK	0
221.99	Acid Soluble Copper , Other (%)	0515	0.0010	0.0001	0.0005	0.0002	0.0000	6	2.40	OK	1
241.03	Acid Soluble Iron, AA, 965.09, test portion 2... (%)	0105	0.0360	0.0103				1			0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0472	0.0250	0.0100	0.0374	0.0082	0.0039	7	-1.35	Low	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0354	0.0300	0.0000	0.0374	0.0082	0.0039	7	-0.81	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0035	0.0380	0.0000	0.0374	0.0082	0.0039	7	0.07	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0041	0.0400	0.0000	0.0374	0.0082	0.0039	7	0.29	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0482	0.0400	0.0000	0.0374	0.0082	0.0039	7	0.29	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0444	0.0435	0.0070	0.0374	0.0082	0.0039	7	0.67	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0096	0.0450	0.0100	0.0374	0.0082	0.0039	7	0.84	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (%)	0483	325.0	2.000	0.0374	0.0082	0.0039	7	35626.29	High	2
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0423	0.0355	0.0010				2			0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0521	2.226	0.0000				2			0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0106	0.0107	0.0024	0.0314	0.0117	0.0015	5	-1.55		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0546	0.0345	0.0010	0.0314	0.0117	0.0015	5	0.23		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0494	0.0361	0.0010	0.0314	0.0117	0.0015	5	0.35		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0117	0.0369	0.0032	0.0314	0.0117	0.0015	5	0.41		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0527	0.0390	0.0000	0.0314	0.0117	0.0015	5	0.56		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (%)	0515	0.0908	0.0136	0.0314	0.0117	0.0015	5	4.43		1
241.99	Acid Soluble Iron, Other (%)	0389	0.0228	0.0011	0.0288	0.0065	0.0047	3	-0.94		0
241.99	Acid Soluble Iron, Other (%)	0515	0.0281	0.0127	0.0288	0.0065	0.0047	3	-0.12		0
241.99	Acid Soluble Iron, Other (%)	0524	0.0356	0.0002	0.0288	0.0065	0.0047	3	1.05		0
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0550	14.38	28.51				1			0
251.30	Acid Soluble Lead , ICP (ppm)	0524	0.0901	0.0019				2			0
251.30	Acid Soluble Lead , ICP (ppm)	0096	2.750	1.300				2			0
251.30	Acid Soluble Lead , ICP (ppm)	0389	0.0000	0.0000				2			4
251.30	Acid Soluble Lead , ICP (ppm)	0541	0.0000	0.0000				2			4
251.30	Acid Soluble Lead , ICP (ppm)	0255	0.0095	0.0190				2			4
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0527	0.1700	0.0400				2			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0515	1.353	2.271				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0368	0.8800	1.760				0			4
251.99	Acid Soluble Lead , Other (ppm)	0476	0.0775	0.0010	0.7192	0.7543	0.3670	3	-0.85		0
251.99	Acid Soluble Lead , Other (ppm)	0506	0.5300	0.0000	0.7192	0.7543	0.3670	3	-0.25		0
251.99	Acid Soluble Lead , Other (ppm)	0220	1.550	1.100	0.7192	0.7543	0.3670	3	1.10		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0041	0.0020	0.0000	0.0042	0.0039	0.0000	4	-0.56		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0035	0.0022	0.0000	0.0042	0.0039	0.0000	4	-0.50		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0096	0.0025	0.0001	0.0042	0.0039	0.0000	4	-0.44		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
261.30	Acid Soluble Manganese , ICP, test portion 97... (%)	0354	0.0100	0.0000	0.0042	0.0039	0.0000	4	1.50		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0423	0.0020	0.0000	0.0021	0.0001	0.0000	3	-0.58		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0542	0.0020	0.0000	0.0021	0.0001	0.0000	3	-0.58		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (%)	0521	0.0022	0.0000	0.0021	0.0001	0.0000	3	1.15		0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0527	0.0020	0.0000	0.0040	0.0040	0.0005	4	-0.50		0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0546	0.0020	0.0000	0.0040	0.0040	0.0005	4	-0.50		0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0494	0.0021	0.0001	0.0040	0.0040	0.0005	4	-0.49		0
261.35	Acid Soluble Manganese , ICP, test portion 20... (%)	0515	0.0101	0.0018	0.0040	0.0040	0.0005	4	1.50		0
261.99	Acid Soluble Manganese , Other (%)	0389	0.0019	0.0000	0.0021	0.0002	0.0001	3	-0.95		0
261.99	Acid Soluble Manganese , Other (%)	0524	0.0021	0.0001	0.0021	0.0002	0.0001	3	-0.09		0
261.99	Acid Soluble Manganese , Other (%)	0515	0.0023	0.0001	0.0021	0.0002	0.0001	3	1.04		0
281.30	Acid Soluble Mercury , ICP (ppm)	0527	0.0210	0.0060				1			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.0000	0.0000				1			4
281.30	Acid Soluble Mercury , ICP (ppm)	0541	0.0000	0.0000				1			4
289.30	Acid Soluble Molybdenum , ICP (ppm)	0255	0.8550	0.1860	1.532	0.9421	0.5674	7	-0.65	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0096	1.050	0.1000	1.532	0.9421	0.5674	7	-0.46	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0433	1.055	0.0213	1.532	0.9421	0.5674	7	-0.46	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0389	1.084	0.0230	1.532	0.9421	0.5674	7	-0.43	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0524	1.237	0.0018	1.532	0.9421	0.5674	7	-0.28	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0541	2.500	1.400	1.532	0.9421	0.5674	7	0.93	OK	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0035	5.220	2.240	1.532	0.9421	0.5674	7	3.54	High	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0086	1.220	0.2466	1.429	0.1274	0.4234	8	-1.51	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0527	1.355	0.0040	1.429	0.1274	0.4234	8	-0.53	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0550	1.395	0.3100	1.429	0.1274	0.4234	8	-0.25	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0515	1.404	1.191	1.429	0.1274	0.4234	8	-0.18	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0546	1.430	0.0800	1.429	0.1274	0.4234	8	0.01	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0037	1.492	0.0500	1.429	0.1274	0.4234	8	0.45	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0106	1.500	1.000	1.429	0.1274	0.4234	8	0.51	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (ppm)	0494	1.636	0.5052	1.429	0.1274	0.4234	8	1.48	OK	0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0515	0.5500	0.1140				1			0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (ppm)	0368	0.7350	1.470				1			4
289.99	Acid Soluble Molybdenum , Other (ppm)	0476	1.363	0.1670				2			0
289.99	Acid Soluble Molybdenum , Other (ppm)	0220	1.400	0.4000				2			0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0136	6.000	0.4000				2			0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0550	17.14	17.53				2			0
291.30	Acid Soluble Nickel , ICP (ppm)	0523	4.820	0.0600	6.169	1.105	0.3736	8	-1.12	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0389	5.421	0.1120	6.169	1.105	0.3736	8	-0.62	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0482	5.700	0.2000	6.169	1.105	0.3736	8	-0.39	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	5.827	0.0535	6.169	1.105	0.3736	8	-0.28	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0520	6.057	0.0430	6.169	1.105	0.3736	8	-0.09	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	6.500	0.0200	6.169	1.105	0.3736	8	0.27	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	7.200	1.400	6.169	1.105	0.3736	8	0.85	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0541	8.350	1.100	6.169	1.105	0.3736	8	1.80	NA	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
291.30	Acid Soluble Nickel , ICP (ppm)	0035	10.30	5.210	6.169	1.105	0.3736	8	3.41	NA	1
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0086	6.405	0.3501	7.083	0.8827	0.2589	6	-0.68	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0527	6.489	0.1750	7.083	0.8827	0.2589	6	-0.60	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0117	6.788	0.2980	7.083	0.8827	0.2589	6	-0.30	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0494	6.788	0.1514	7.083	0.8827	0.2589	6	-0.30	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0037	7.621	0.1040	7.083	0.8827	0.2589	6	0.54	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0515	16.68	0.4750	7.083	0.8827	0.2589	6	9.68	NA	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w...	0105	7.677	1.933	7.083	0.8827	0.2589	6	0.60	NA	1
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	6.932	0.5690				2			0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0368	7.905	0.2100				2			0
291.99	Acid Soluble Nickel , Other (ppm)	0506	0.6500	0.0000	6.850	3.990	0.1374	5	-1.55		0
291.99	Acid Soluble Nickel , Other (ppm)	0255	6.702	0.1820	6.850	3.990	0.1374	5	-0.04		0
291.99	Acid Soluble Nickel , Other (ppm)	0476	7.297	0.3050	6.850	3.990	0.1374	5	0.11		0
291.99	Acid Soluble Nickel , Other (ppm)	0220	7.850	0.1000	6.850	3.990	0.1374	5	0.25		0
291.99	Acid Soluble Nickel , Other (ppm)	0481	11.75	0.1000	6.850	3.990	0.1374	5	1.23		0
301.30	Acid Soluble Selenium , ICP (ppm)	0389	0.5098	0.0004	1.132	0.5969	0.4035	3	-1.04		0
301.30	Acid Soluble Selenium , ICP (ppm)	0524	1.185	0.0100	1.132	0.5969	0.4035	3	0.09		0
301.30	Acid Soluble Selenium , ICP (ppm)	0541	1.700	1.200	1.132	0.5969	0.4035	3	0.95		0
301.32	Acid Soluble Selenium , ICP, 2006.03 (ppm)	0520	0.7315	0.1270				1			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified...	0527	1.301	0.0160				2			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified...	0515	3.519	0.4980				2			0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0368	1.625	0.7700				2			0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	2.150	0.2280				2			0
301.99	Acid Soluble Selenium , Other (ppm)	0220	0.2500	0.1000	1.716	1.973	0.0898	4	-0.74		0
301.99	Acid Soluble Selenium , Other (ppm)	0476	0.5610	0.0820	1.716	1.973	0.0898	4	-0.59		0
301.99	Acid Soluble Selenium , Other (ppm)	0255	1.484	0.1770	1.716	1.973	0.0898	4	-0.12		0
301.99	Acid Soluble Selenium , Other (ppm)	0506	4.570	0.0000	1.716	1.973	0.0898	4	1.45		0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	1.107	0.0000				1			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.9830	0.0740	1.114	0.1090	0.0593	5	-1.20		0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0494	1.039	0.0473	1.114	0.1090	0.0593	5	-0.68		0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0117	1.135	0.0690	1.114	0.1090	0.0593	5	0.19		0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	1.145	0.0100	1.114	0.1090	0.0593	5	0.29		0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	1.267	0.0960	1.114	0.1090	0.0593	5	1.41		0
311.99	Sodium, Other (%)	0482	1.090	0.1600	1.123	0.0454	0.1333	3	-0.73		0
311.99	Sodium, Other (%)	0354	1.105	0.0300	1.123	0.0454	0.1333	3	-0.40		0
311.99	Sodium, Other (%)	0096	1.175	0.2100	1.123	0.0454	0.1333	3	1.14		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0498	0.0050	0.0000	0.0240	0.0245	0.0081	4	-0.77		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0550	0.0087	0.0017	0.0240	0.0245	0.0081	4	-0.62		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0533	0.0235	0.0010	0.0240	0.0245	0.0081	4	-0.02		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0516	0.0587	0.0298	0.0240	0.0245	0.0081	4	1.42		0
321.03	Acid Soluble Zinc , AA, 965.09, test portion ... (%)	0105	0.0071	0.0007				1			0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0433	0.0070	0.0000	0.0089	0.0013	0.0006	10	-1.34	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0444	0.0070	0.0000	0.0089	0.0013	0.0006	10	-1.34	OK	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0041	0.0085	0.0010	0.0089	0.0013	0.0006	10	-0.30	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0255	0.0085	0.0010	0.0089	0.0013	0.0006	10	-0.30	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0035	0.0090	0.0033	0.0089	0.0013	0.0006	10	0.01	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0096	0.0094	0.0006	0.0089	0.0013	0.0006	10	0.32	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0292	0.0100	0.0000	0.0089	0.0013	0.0006	10	0.74	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0354	0.0100	0.0000	0.0089	0.0013	0.0006	10	0.74	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0472	0.0100	0.0000	0.0089	0.0013	0.0006	10	0.74	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0482	0.0100	0.0000	0.0089	0.0013	0.0006	10	0.74	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0483	75.85	1.300	0.0089	0.0013	0.0006	10	52523.39	High	2
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0423	0.0080	0.0000	0.0081	0.0001	0.0000	3	-0.58		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0542	0.0080	0.0000	0.0081	0.0001	0.0000	3	-0.58		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0521	0.0082	0.0000	0.0081	0.0001	0.0000	3	1.15		0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0106	0.0030	0.0002	0.0079	0.0036	0.0006	7	-1.24	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0546	0.0069	0.0004	0.0079	0.0036	0.0006	7	-0.26	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0494	0.0070	0.0002	0.0079	0.0036	0.0006	7	-0.23	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0117	0.0072	0.0003	0.0079	0.0036	0.0006	7	-0.20	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0105	0.0082	0.0013	0.0079	0.0036	0.0006	7	0.05	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0527	0.0100	0.0000	0.0079	0.0036	0.0006	7	0.52	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0515	0.0176	0.0021	0.0079	0.0036	0.0006	7	2.42	High	0
321.99	Acid Soluble Zinc , Other (%)	0389	0.0066	0.0000	0.0077	0.0010	0.0001	8	-0.98	OK	0
321.99	Acid Soluble Zinc , Other (%)	0481	0.0068	0.0000	0.0077	0.0010	0.0001	8	-0.80	OK	0
321.99	Acid Soluble Zinc , Other (%)	0476	0.0070	0.0002	0.0077	0.0010	0.0001	8	-0.61	OK	0
321.99	Acid Soluble Zinc , Other (%)	0524	0.0076	0.0001	0.0077	0.0010	0.0001	8	-0.10	OK	0
321.99	Acid Soluble Zinc , Other (%)	0220	0.0078	0.0001	0.0077	0.0010	0.0001	8	0.08	OK	0
321.99	Acid Soluble Zinc , Other (%)	0515	0.0080	0.0001	0.0077	0.0010	0.0001	8	0.27	OK	0
321.99	Acid Soluble Zinc , Other (%)	0368	0.0085	0.0002	0.0077	0.0010	0.0001	8	0.78	OK	0
321.99	Acid Soluble Zinc , Other (%)	0506	0.0100	0.0000	0.0077	0.0010	0.0001	8	2.17	OK	0
325.30	Water Soluble Zinc , ICP (%)	0541	0.0100	0.0000				1			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 grey and included for information only. IA Status describes where your result is relative to the Assigned Value ± IA. Red indicates Higher or Lower, Green indicates within the IA range. Method 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.