

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Methods: 126

Sample # 170711

Statistical Summary

Labs Reporting: 93

Grade 7-25-40

Issue Date : 08/31/2017

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
001.99	Ammoniacal Nitrogen, Other (%)	1		24.01									
002.20	Nitrate Nitrogen, Jones Modified (%)	1		6.323									
002.99	Nitrate Nitrogen, Other (%)	19	17	6.877	0.6842	7.031		0.1487	0.0451	2.12%		0.0882	2.98%
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	4	4	7.298	0.3407	7.298		0.3407	0.2129	4.67%		0.0450	2.97%
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	1		7.105									
010.11	Total Nitrogen, Modified Comprehensive (7%)	8	7	6.977	0.3833	7.026	0.5354	0.2025	0.0957	2.88%	3.81%	0.0706	2.98%
010.12	Total Nitrogen, Salicylic (7%)	2	2	6.925	0.1838								
010.60	Total Nitrogen, Combustion (7%)	58	55	6.501	1.190	6.749	0.5354	0.5527	0.0932	8.19%	3.97%	0.1086	3.00%
010.99	Total Nitrogen, Other (7%)	4	4	6.426	1.111	6.426	0.5354	1.111	0.6945	17.29%	4.17%	0.2528	3.02%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ... (%)	8	7	25.06	0.2828	25.03		0.2554	0.1207	1.02%		0.1729	2.46%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb... (%)	19	18	24.88	0.4177	24.88		0.4727	0.1393	1.90%		0.1078	2.47%
020.40	Total Phosphorus as P2O5, Automated (%)	1		24.94									
020.50	Total Phosphorus as P2O5, ICP (%)	21	21	25.28	1.034	25.27		1.158	0.3158	4.58%		0.5215	2.46%
020.99	Total Phosphorus as P2O5, Other (%)	3	3	29.13	6.937	29.13		6.937	5.006	23.81%		0.5121	2.41%
030.40	Citrate Insoluble Phosphorus as P2O5, Automated, t... (%)	1		0.0150									
040.20	Indirect Available Phosphorus as P2O5, Spectrophot... (25%)	1		24.66									
040.40	Indirect Available Phosphorus as P2O5, Automated (25%)	1		24.93									
040.99	Indirect Available Phosphorus as P2O5, Other (25%)	1		24.76									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q... (25%)	6	6	24.60	0.4795	24.70	0.7300	0.2845	0.1452	1.15%	1.48%	0.1329	2.47%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q... (25%)	4	4	24.92	0.2591	24.92	0.7300	0.2591	0.1619	1.04%	1.46%	0.1275	2.47%
041.20	Direct Available Phosphorus as P2O5, Spectrophotom... (25%)	2	2	24.44	1.432								
041.21	Direct Available Phosphorus as P2O5, Spectrophotom... (25%)	2	2	24.87	0.8238								
041.40	Direct Available Phosphorus as P2O5, Automated (25%)	1		24.85									
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	8	7	27.25	5.248	25.66	0.7300	1.479	0.6990	5.76%	1.42%	0.4512	2.45%
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-... (25%)	5	5	25.12	0.3136	25.12	0.7300	0.3136	0.1753	1.25%	1.45%	0.3300	2.46%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ... (25%)	13	12	24.84	0.5911	24.92	0.7300	0.4381	0.1581	1.76%	1.46%	0.1489	2.47%
041.99	Direct Available Phosphorus as P2O5, Other (25%)	9	9	25.47	0.3476	25.46	0.7300	0.3640	0.1517	1.43%	1.43%	0.1267	2.46%
048.10	Water Soluble Phosphorus as P2O5, Gravimetric Quin... (%)	1		24.83									
048.20	Water Soluble Phosphorus as P2O5, Spectrophotometr... (%)	1		24.03									
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	1		24.76									
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	1		25.39									

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
048.99	Water Soluble Phosphorus as P2O5, Other (%)	1		24.46									
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	9	9	40.47	0.6207	40.48	1.5447	0.4226	0.1761	1.04%	1.91%	0.2044	2.29%
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	7	7	35.47	13.72	40.22	1.5447	1.696	0.8013	4.22%	1.92%	0.5586	2.29%
050.31	Soluble Potassium as K2O, AA (Citrate) (40%)	1		35.68									
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	8	8	40.00	2.513	39.95	1.5447	2.738	1.210	6.85%	1.93%	0.8925	2.30%
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	7	6	40.62	1.340	40.57	1.5447	1.409	0.7190	3.47%	1.90%	0.1400	2.29%
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	9	9	38.90	5.384	40.40	1.5447	1.426	0.5941	3.53%	1.91%	0.3430	2.29%
050.60	Soluble Potassium as K2O, Flame Photometric (Oxala... (40%)	5	5	33.24	15.80	33.24	1.5447	15.80	8.832	47.53%	2.32%	0.1506	2.36%
050.61	Soluble Potassium as K2O, Flame Photometric (Citra... (40%)	1		41.16									
050.62	Soluble Potassium as K2O, Flame Photometric (Citra... (40%)	5	5	40.53	0.5662	40.53	1.5447	0.5662	0.3165	1.40%	1.91%	0.2860	2.29%
050.99	Soluble Potassium as K2O, Other (40%)	39	37	40.57	1.281	40.57	1.5447	1.170	0.2405	2.88%	1.90%	0.3368	2.29%
060.00	Water (Free), Vacuum Oven (%)	3	3	0.1975	0.0663	0.1975		0.0663	0.0478	33.56%		0.0217	5.11%
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours,... (%)	1		0.2050									
060.99	Water (Free), Other (%)	3	3	0.2576	0.0441	0.2576		0.0441	0.0318	17.12%		0.0506	4.91%
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	2	2	0.0473	0.0513								
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	1		0.0011									
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C... (	2	2	0.0061	0.0027								
101.99	Acid Soluble Calcium, Other (%)	1		0.0300									
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (%)	1		0.0279									
121.30	Acid Soluble Magnesium, ICP, test portion inorgani... (	1		0.0085									
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A... (	1		0.0011									
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A... (	2	2	0.0069	0.0070								
121.99	Acid Soluble Magnesium, Other (%)	3	3	0.0016	0.0008	0.0016		0.0008	0.0006	54.27%		0.0004	10.59%
143.99	Elemental Sulfur, Other (%)	1		0.0060									
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi... (%)	3	3	0.0079	0.0036	0.0079		0.0036	0.0026	45.51%		0.0013	8.29%
148.99	Total Sulfur, Other (%)	3	3	0.0148	0.0098	0.0148		0.0098	0.0071	66.38%		0.0047	7.54%
149.04	Sulfur - HNO3 soluble, ICP (%)	2	2	0.0047	0.0012								
151.00	Acid Soluble Arsenic , AA, test portion as in 2006... (pp	1		7.600									
151.30	Acid Soluble Arsenic , ICP (ppm)	7	7	7.387	2.046	7.387		2.320	1.096	31.41%		0.1267	11.84%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9:3... (	5	5	10.58	6.076	10.58		6.076	3.397	57.46%		1.307	11.22%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	1		8.106									
151.99	Acid Soluble Arsenic , Other (ppm)	2	2	7.192	0.0589								
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (%)	2	2	0.0081	0.0076								
165.99	Acid Soluble Boron , Other (%)	3	2	0.0055	0.0056	0.0055		0.0056	0.0050	101.75%		0.0006	8.75%
181.00	Acid Soluble Cadmium , AA, test portion as in 2006... (	1		0.2000									
181.30	Acid Soluble Cadmium , ICP (ppm)	6	5	0.1331	0.0867	0.1331		0.0867	0.0485	65.19%		0.0235	21.67%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3..	3	2	0.1159	0.0111	0.1159		0.0111	0.0098	9.58%		0.0145	22.13%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
181.99	Acid Soluble Cadmium , Other (ppm)	4	4	1.311	1.431	1.311		1.431	0.8941	109.12%		0.2275	15.36%
190.00	Water Soluble Chlorine, Titrimetric (%)	1		0.4300									
191.30	Acid Soluble Chromium , ICP (ppm)	8	7	3.215	1.367	3.215		1.550	0.7325	48.22%		0.4043	13.42%
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:...	3	3	3.493	1.760	3.493		1.760	1.270	50.38%		0.5243	13.25%

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191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	1		4.017									
191.99	Acid Soluble Chromium , Other (ppm)	3	3	3.629	0.8125	3.629		0.8125	0.5864	22.39%		0.2800	13.18%
202.30	Acid Soluble Cobalt , ICP (ppm)	4	4	0.2878	0.1480	0.2878		0.1480	0.0925	51.42%		0.0877	19.29%
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ... (t	3	2	0.2422	0.1135	0.2422		0.1135	0.1003	46.84%		0.0615	19.80%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	1		0.0475									
202.99	Acid Soluble Cobalt , Other (ppm)	3	3	4.104	5.617	4.104		5.617	4.054	136.85%		0.1366	12.93%
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	2	2	0.0003	0.0000								
221.30	Acid Soluble Copper , ICP, test portion inorganic ... (%)	4	4	0.0010	0.0013	0.0010		0.0013	0.0008	136.51%		0.0001	11.33%
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C (%)	2	2	0.0003	0.0001								
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C... (	3	3	0.0003	0.0002	0.0003		0.0002	0.0002	76.38%		0.0001	13.56%
221.99	Acid Soluble Copper , Other (%)	6	5	0.0003	0.0001	0.0003		0.0001	0.0001	40.82%		0.0000	13.56%
241.00	Acid Soluble Iron, AA, inorganic 965.09 (%)	1		0.0033									
241.30	Acid Soluble Iron, ICP, test portion inorganic 965... (%)	1		0.0095									
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C (%)	1		0.0066									
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w... (%)	4	4	0.0040	0.0009	0.0040		0.0009	0.0005	21.61%		0.0012	9.20%
241.99	Acid Soluble Iron, Other (%)	3	3	0.0071	0.0074	0.0071		0.0074	0.0053	103.45%		0.0016	8.42%
251.00	Acid Soluble Lead , AA, test portion as in 2006.03... (p	1		1.000									
251.30	Acid Soluble Lead , ICP (ppm)	5	1	0.0606		0.0071		0.0074	0.0092	103.45%		0.0024	33.67%
251.32	Acid Soluble Lead , ICP, 2006.03 (ppm)	1		0.0950									
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN... 3	2	2	0.1360	0.0990	0.1360		0.0990	0.0875	72.80%		0.0148	21.60%
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	1		0.0000									
251.99	Acid Soluble Lead , Other (ppm)	4	4	4.386	7.334	4.386		7.334	4.584	167.22%		0.3325	12.81%
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (%)	1		0.0004									
261.30	2			Statistics not calculated									
261.34	Acid Soluble Manganese , ICP, test portion 2006.03... 1	1		0.0004									
261.35	3			Statistics not calculated									
261.99	3			Statistics not calculated									
271.00	Water Soluble Manganese , AA (%)	1		0.0003									
281.30	Acid Soluble Mercury , ICP (ppm)	3	2	0.5174	0.7242	0.5174		0.7242	0.6401	139.96%		1.011	17.66%
281.99	Acid Soluble Mercury , Other (ppm)	1		0.0556									
289.30	Acid Soluble Molybdenum , ICP (ppm)	5	5	0.8938	0.4483	0.8938		0.4483	0.2506	50.16%		0.2559	16.27%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	1		0.2890									
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/... 3	2	2	0.8591	0.1222	0.8591		0.1222	0.1080	14.22%		0.0672	16.37%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (p	1		0.6425									
289.99	Acid Soluble Molybdenum , Other (ppm)	3	3	3.149	4.580	3.149		4.580	3.305	145.44%		0.6685	13.46%
291.00	Acid Soluble Nickel , AA, test portion as in 2006.... (pp	1		2.000									
291.30	Acid Soluble Nickel , ICP (ppm)	7	7	1.251	0.4869	1.251		0.5522	0.2609	44.15%		0.2247	15.47%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (r	3	2	1.004	0.1389	1.004		0.1389	0.1228	13.84%		0.0685	15.99%
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	1		0.9380									
291.99	Acid Soluble Nickel , Other (ppm)	4	4	7.662	8.725	7.662		8.725	5.453	113.88%		1.686	11.77%
301.30	Acid Soluble Selenium , ICP (ppm)	5	3	1.090	1.810	1.090		1.810	1.306	166.02%		0.3850	15.79%
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:3... 2	1	1	0.1135									

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
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm	1		0.4155									
301.99	Acid Soluble Selenium , Other (ppm)	1		0.0715									
311.32	Sodium, ICP, 2006.03 test portion (%)	1		0.2772									
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test .	2	2	0.2721	0.0048								
311.99	Sodium, Other (%)	3	3	0.3157	0.0271	0.3157		0.0271	0.0196	8.60%		0.0107	4.76%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	5	5	0.0081	0.0137	0.0081		0.0137	0.0077	169.21%		0.0005	8.26%
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (%)	3	3	0.0049	0.0016	0.0049		0.0016	0.0012	33.61%		0.0001	8.92%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C (%)	2	2	0.0018	0.0004								
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (%)	3	3	0.0013	0.0004	0.0013		0.0004	0.0003	26.34%		0.0001	10.83%
321.99	Acid Soluble Zinc , Other (%)	7	6	0.0020	0.0006	0.0020		0.0006	0.0003	31.87%		0.0001	10.22%
325.00	Water Soluble Zinc , AA (%)	1		0.0012									

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 170711

Grade 7-25-40

Method Precision Report

Issue Date : 08/31/2017

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
002.99	Nitrate Nitrogen, Other (%)	19	15	7.046	0.1358	0.1281	0.0636	0.1430	1.82%	0.90%	2.03%	2.249
010.60	Total Nitrogen, Combustion (7%)	58	52	6.608	0.8293	0.8263	0.0989	0.8322	12.51%	1.50%	12.59%	8.413
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	19	17	24.91	0.4086	0.4041	0.0861	0.4132	1.62%	0.35%	1.66%	4.800
020.50	Total Phosphorus as P2O5, ICP (%)	21	21	25.28	1.034	0.9575	0.5526	1.105	3.79%	2.19%	4.37%	2.001
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (25%)	13	11	24.98	0.3529	0.3448	0.1057	0.3607	1.38%	0.42%	1.44%	3.413
041.99	Direct Available Phosphorus as P2O5, Other (25%)	9	8	25.46	0.3681	0.3643	0.0748	0.3719	1.43%	0.29%	1.46%	4.970
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	9	8	40.32	0.4799	0.4626	0.1805	0.4965	1.15%	0.45%	1.23%	2.752
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	8	8	40.00	2.513	2.432	0.8939	2.591	6.08%	2.23%	6.48%	2.899
050.99	Soluble Potassium as K2O, Other (40%)	39	35	40.69	1.139	1.120	0.2918	1.157	2.75%	0.72%	2.84%	3.965

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: 126

Sample # 170711

Lab Values

Labs Reporting: 93

Grade 7-25-40

Issue Date : 08/31/2017

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				
001.99	Ammoniacal Nitrogen, Other (%)	0524	24.01	0.1500				1			0
002.20	Nitrate Nitrogen, Jones Modified (%)	0415	6.323	0.1733				1			0
002.99	Nitrate Nitrogen, Other (%)	0368	4.270	0.0800	7.031	0.1487	0.0882	17	-18.57	20%	0
002.99	Nitrate Nitrogen, Other (%)	0394	6.728	0.0610	7.031	0.1487	0.0882	17	-2.04	2%	0
002.99	Nitrate Nitrogen, Other (%)	0538	6.875	0.0500	7.031	0.1487	0.0882	17	-1.05	1%	0
002.99	Nitrate Nitrogen, Other (%)	0486	6.935	0.1100	7.031	0.1487	0.0882	17	-0.65	1%	0
002.99	Nitrate Nitrogen, Other (%)	0518	6.950	0.3000	7.031	0.1487	0.0882	17	-0.55	1%	0
002.99	Nitrate Nitrogen, Other (%)	0501	6.951	0.0310	7.031	0.1487	0.0882	17	-0.54	1%	0
002.99	Nitrate Nitrogen, Other (%)	0539	7.000	0.1000	7.031	0.1487	0.0882	17	-0.21	0%	0
002.99	Nitrate Nitrogen, Other (%)	0513	7.035	0.0500	7.031	0.1487	0.0882	17	0.02	0%	0
002.99	Nitrate Nitrogen, Other (%)	0537	7.035	0.1698	7.031	0.1487	0.0882	17	0.03	0%	0
002.99	Nitrate Nitrogen, Other (%)	0532	7.050	0.0600	7.031	0.1487	0.0882	17	0.13	0%	0
002.99	Nitrate Nitrogen, Other (%)	0027	7.081	0.0370	7.031	0.1487	0.0882	17	0.33	0%	0
002.99	Nitrate Nitrogen, Other (%)	0533	7.110	0.0200	7.031	0.1487	0.0882	17	0.53	1%	0
002.99	Nitrate Nitrogen, Other (%)	0397	7.120	0.0800	7.031	0.1487	0.0882	17	0.60	1%	0
002.99	Nitrate Nitrogen, Other (%)	0535	7.150	0.0600	7.031	0.1487	0.0882	17	0.80	1%	0
002.99	Nitrate Nitrogen, Other (%)	0231	7.175	0.0700	7.031	0.1487	0.0882	17	0.97	1%	0
002.99	Nitrate Nitrogen, Other (%)	0540	7.200	0.2000	7.031	0.1487	0.0882	17	1.13	1%	0
002.99	Nitrate Nitrogen, Other (%)	0531	7.250	0.0200	7.031	0.1487	0.0882	17	1.47	2%	0
002.99	Nitrate Nitrogen, Other (%)	0506	7.500	0.7800	7.031	0.1487	0.0882	17	3.15	3%	1
002.99	Nitrate Nitrogen, Other (%)	0371	31.35	0.1000	7.031	0.1487	0.0882	17	163.52	173%	2
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0309	6.935	0.0500	7.298	0.3407	0.0450	4	-1.06	2%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0169	7.095	0.0100	7.298	0.3407	0.0450	4	-0.59	1%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0090	7.490	0.0200	7.298	0.3407	0.0450	4	0.57	1%	0
009.10	Ammoniacal Plus Nitrate Nitrogen, Devarda (%)	0444	7.670	0.1000	7.298	0.3407	0.0450	4	1.09	3%	0
009.99	Ammoniacal Plus Nitrate Nitrogen, Other (%)	0513	7.105	0.0100				1			0
010.11	Total Nitrogen, Modified Comprehensive (7%)	0309	6.215*	0.1500	7.026	0.2025	0.0706	7	-3.62	6%	0
010.11	Total Nitrogen, Modified Comprehensive (7%)	0500	6.910	0.0200	7.026	0.2025	0.0706	7	-0.52	1%	0
010.11	Total Nitrogen, Modified Comprehensive (7%)	0536	7.025	0.1500	7.026	0.2025	0.0706	7	0.00	0%	0
010.11	Total Nitrogen, Modified Comprehensive (7%)	0105	7.030	0.0400	7.026	0.2025	0.0706	7	0.02	0%	0
010.11	Total Nitrogen, Modified Comprehensive (7%)	0529	7.080	0.0800	7.026	0.2025	0.0706	7	0.24	0%	0
010.11	Total Nitrogen, Modified Comprehensive (7%)	0220	7.085	0.0100	7.026	0.2025	0.0706	7	0.26	0%	0
010.11	Total Nitrogen, Modified Comprehensive (7%)	0510	7.495	0.0445	7.026	0.2025	0.0706	7	2.10	3%	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				
010.11	Total Nitrogen, Modified Comprehensive (7%)	0114	0.0000*	0.0000	7.026	0.2025	0.0706	7			4
010.12	Total Nitrogen, Salicylic (7%)	0397	6.795	0.0900				2			0
010.12	Total Nitrogen, Salicylic (7%)	0416	7.055	0.0500				2			0
010.60	Total Nitrogen, Combustion (7%)	0541	0.1400*	0.1000	6.749	0.5527	0.1086	55	-11.96	49%	0
010.60	Total Nitrogen, Combustion (7%)	0483	3.795*	0.0100	6.749	0.5527	0.1086	55	-5.34	22%	0
010.60	Total Nitrogen, Combustion (7%)	0073	4.370*	0.3600	6.749	0.5527	0.1086	55	-4.30	18%	0
010.60	Total Nitrogen, Combustion (7%)	0042	4.565*	0.3100	6.749	0.5527	0.1086	55	-3.95	16%	0
010.60	Total Nitrogen, Combustion (7%)	0307	4.735*	0.0500	6.749	0.5527	0.1086	55	-3.64	15%	0
010.60	Total Nitrogen, Combustion (7%)	0018	5.345*	0.1500	6.749	0.5527	0.1086	55	-2.54	10%	0
010.60	Total Nitrogen, Combustion (7%)	0234	5.365*	0.0500	6.749	0.5527	0.1086	55	-2.50	10%	0
010.60	Total Nitrogen, Combustion (7%)	0292	5.430*	0.0200	6.749	0.5527	0.1086	55	-2.39	10%	0
010.60	Total Nitrogen, Combustion (7%)	0177	5.896*	0.2030	6.749	0.5527	0.1086	55	-1.54	6%	0
010.60	Total Nitrogen, Combustion (7%)	0324	6.010*	0.0400	6.749	0.5527	0.1086	55	-1.34	5%	0
010.60	Total Nitrogen, Combustion (7%)	0523	6.100*	0.0000	6.749	0.5527	0.1086	55	-1.17	5%	0
010.60	Total Nitrogen, Combustion (7%)	0095	6.220*	0.1400	6.749	0.5527	0.1086	55	-0.96	4%	0
010.60	Total Nitrogen, Combustion (7%)	0406	6.295	0.2500	6.749	0.5527	0.1086	55	-0.82	3%	0
010.60	Total Nitrogen, Combustion (7%)	0501	6.367	0.0180	6.749	0.5527	0.1086	55	-0.69	3%	0
010.60	Total Nitrogen, Combustion (7%)	0521	6.437	0.0000	6.749	0.5527	0.1086	55	-0.56	2%	0
010.60	Total Nitrogen, Combustion (7%)	0325	6.460	0.2200	6.749	0.5527	0.1086	55	-0.52	2%	0
010.60	Total Nitrogen, Combustion (7%)	0356	6.495	0.0100	6.749	0.5527	0.1086	55	-0.46	2%	0
010.60	Total Nitrogen, Combustion (7%)	0472	6.510	0.0600	6.749	0.5527	0.1086	55	-0.43	2%	0
010.60	Total Nitrogen, Combustion (7%)	0043	6.670	0.3200	6.749	0.5527	0.1086	55	-0.14	1%	0
010.60	Total Nitrogen, Combustion (7%)	0157	6.750	0.4400	6.749	0.5527	0.1086	55	0.00	0%	0
010.60	Total Nitrogen, Combustion (7%)	0230	6.750	0.0200	6.749	0.5527	0.1086	55	0.00	0%	0
010.60	Total Nitrogen, Combustion (7%)	0027	6.780	0.0200	6.749	0.5527	0.1086	55	0.06	0%	0
010.60	Total Nitrogen, Combustion (7%)	0055	6.830	0.1000	6.749	0.5527	0.1086	55	0.15	1%	0
010.60	Total Nitrogen, Combustion (7%)	0029	6.836	0.1170	6.749	0.5527	0.1086	55	0.16	1%	0
010.60	Total Nitrogen, Combustion (7%)	0527	6.860	0.1640	6.749	0.5527	0.1086	55	0.20	1%	0
010.60	Total Nitrogen, Combustion (7%)	0137	6.920	0.0350	6.749	0.5527	0.1086	55	0.31	1%	0
010.60	Total Nitrogen, Combustion (7%)	0543	6.960	0.3700	6.749	0.5527	0.1086	55	0.38	2%	0
010.60	Total Nitrogen, Combustion (7%)	0131	6.965	0.0500	6.749	0.5527	0.1086	55	0.39	2%	0
010.60	Total Nitrogen, Combustion (7%)	0390	6.975	0.0500	6.749	0.5527	0.1086	55	0.41	2%	0
010.60	Total Nitrogen, Combustion (7%)	0377	6.980	0.3000	6.749	0.5527	0.1086	55	0.42	2%	0
010.60	Total Nitrogen, Combustion (7%)	0486	6.980	0.1000	6.749	0.5527	0.1086	55	0.42	2%	0
010.60	Total Nitrogen, Combustion (7%)	0291	7.000	0.0000	6.749	0.5527	0.1086	55	0.45	2%	0
010.60	Total Nitrogen, Combustion (7%)	0534	7.000	0.0000	6.749	0.5527	0.1086	55	0.45	2%	0
010.60	Total Nitrogen, Combustion (7%)	0354	7.010	0.1710	6.749	0.5527	0.1086	55	0.47	2%	0
010.60	Total Nitrogen, Combustion (7%)	0389	7.015	0.0700	6.749	0.5527	0.1086	55	0.48	2%	0
010.60	Total Nitrogen, Combustion (7%)	0040	7.050	0.5000	6.749	0.5527	0.1086	55	0.55	2%	0
010.60	Total Nitrogen, Combustion (7%)	0105	7.054	0.0474	6.749	0.5527	0.1086	55	0.55	2%	0
010.60	Total Nitrogen, Combustion (7%)	0405	7.070	0.0200	6.749	0.5527	0.1086	55	0.58	2%	0
010.60	Total Nitrogen, Combustion (7%)	0231	7.075	0.0100	6.749	0.5527	0.1086	55	0.59	2%	0
010.60	Total Nitrogen, Combustion (7%)	0007	7.100	0.0000	6.749	0.5527	0.1086	55	0.64	3%	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
010.60	Total Nitrogen, Combustion (7%)	0482	7.100	0.0000	6.749	0.5527	0.1086	55	0.64	3%	0
010.60	Total Nitrogen, Combustion (7%)	0034	7.119	0.0530	6.749	0.5527	0.1086	55	0.67	3%	0
010.60	Total Nitrogen, Combustion (7%)	0136	7.120	0.0400	6.749	0.5527	0.1086	55	0.67	3%	0
010.60	Total Nitrogen, Combustion (7%)	0485	7.130	0.1800	6.749	0.5527	0.1086	55	0.69	3%	0
010.60	Total Nitrogen, Combustion (7%)	0494	7.135	0.2100	6.749	0.5527	0.1086	55	0.70	3%	0
010.60	Total Nitrogen, Combustion (7%)	0452	7.140	0.0200	6.749	0.5527	0.1086	55	0.71	3%	0
010.60	Total Nitrogen, Combustion (7%)	0049	7.145	0.1300	6.749	0.5527	0.1086	55	0.72	3%	0
010.60	Total Nitrogen, Combustion (7%)	0368	7.188	0.0350	6.749	0.5527	0.1086	55	0.79	3%	0
010.60	Total Nitrogen, Combustion (7%)	0070	7.225	0.0100	6.749	0.5527	0.1086	55	0.86	4%	0
010.60	Total Nitrogen, Combustion (7%)	0421	7.235	0.0100	6.749	0.5527	0.1086	55	0.88	4%	0
010.60	Total Nitrogen, Combustion (7%)	0402	7.240	0.0200	6.749	0.5527	0.1086	55	0.89	4%	0
010.60	Total Nitrogen, Combustion (7%)	0360	7.275	0.0700	6.749	0.5527	0.1086	55	0.95	4%	0
010.60	Total Nitrogen, Combustion (7%)	0096	7.310	0.0400	6.749	0.5527	0.1086	55	1.02	4%	0
010.60	Total Nitrogen, Combustion (7%)	0025	7.480	0.0480	6.749	0.5527	0.1086	55	1.32	5%	0
010.60	Total Nitrogen, Combustion (7%)	0444	7.535	0.2100	6.749	0.5527	0.1086	55	1.42	6%	0
010.60	Total Nitrogen, Combustion (7%)	0451	5.404*	0.7520	6.749	0.5527	0.1086	55	-2.43	10%	1
010.60	Total Nitrogen, Combustion (7%)	0086	5.928*	0.7778	6.749	0.5527	0.1086	55	-1.48	6%	1
010.60	Total Nitrogen, Combustion (7%)	0041	21.01	0.3300	6.749	0.5527	0.1086	55	25.80	106%	2
010.99	Total Nitrogen, Other (7%)	0524	4.978*	0.1210	6.426	1.111	0.2528	4	-1.30	11%	0
010.99	Total Nitrogen, Other (7%)	0522	6.175*	0.0100	6.426	1.111	0.2528	4	-0.23	2%	0
010.99	Total Nitrogen, Other (7%)	0493	7.050	0.1000	6.426	1.111	0.2528	4	0.56	5%	0
010.99	Total Nitrogen, Other (7%)	0506	7.500	0.7800	6.426	1.111	0.2528	4	0.97	8%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	24.82	0.3800	25.03	0.2554	0.1729	7	-0.74	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0416	24.84	0.0300	25.03	0.2554	0.1729	7	-0.68	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0157	24.85	0.3000	25.03	0.2554	0.1729	7	-0.63	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	24.95	0.1000	25.03	0.2554	0.1729	7	-0.28	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	25.14	0.0300	25.03	0.2554	0.1729	7	0.38	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0090	25.20	0.0700	25.03	0.2554	0.1729	7	0.59	0%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0114	25.60	0.3000	25.03	0.2554	0.1729	7	2.02	1%	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0500	26.81	4.020	25.03	0.2554	0.1729	7	6.31	4%	1
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0506	24.25	0.1000	24.88	0.4727	0.1078	18	-1.34	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	24.35	0.0000	24.88	0.4727	0.1078	18	-1.13	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	24.36	0.5440	24.88	0.4727	0.1078	18	-1.11	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0522	24.40	0.0100	24.88	0.4727	0.1078	18	-1.03	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	24.60	0.0400	24.88	0.4727	0.1078	18	-0.60	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0415	24.62	0.0951	24.88	0.4727	0.1078	18	-0.56	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0405	24.66	0.0400	24.88	0.4727	0.1078	18	-0.47	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0394	24.77	0.0850	24.88	0.4727	0.1078	18	-0.24	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0476	24.87	0.0780	24.88	0.4727	0.1078	18	-0.04	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0534	24.90	0.0000	24.88	0.4727	0.1078	18	0.04	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	24.93	0.0500	24.88	0.4727	0.1078	18	0.09	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	25.01	0.2600	24.88	0.4727	0.1078	18	0.27	0%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	25.15	0.0300	24.88	0.4727	0.1078	18	0.56	1%	0

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020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0510	25.27	0.0283	24.88	0.4727	0.1078	18	0.81	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0371	25.30	0.2000	24.88	0.4727	0.1078	18	0.88	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0406	25.37	0.3200	24.88	0.4727	0.1078	18	1.03	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0535	25.51	0.0200	24.88	0.4727	0.1078	18	1.33	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0541	25.60	0.0400	24.88	0.4727	0.1078	18	1.52	1%	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	25.15	0.7000	24.88	0.4727	0.1078	18	0.57	1%	1
020.40	Total Phosphorus as P2O5, Automated (%)	0096	24.94	0.0800				1			0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	23.58	0.0500	25.27	1.158	0.5215	21	-1.47	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0501	23.80	0.3070	25.27	1.158	0.5215	21	-1.27	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0543	24.15	1.772	25.27	1.158	0.5215	21	-0.97	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0157	24.15	0.1000	25.27	1.158	0.5215	21	-0.97	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	24.32	0.1300	25.27	1.158	0.5215	21	-0.83	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0444	24.52	0.3200	25.27	1.158	0.5215	21	-0.65	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0433	24.70	0.0500	25.27	1.158	0.5215	21	-0.50	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	24.82	0.4100	25.27	1.158	0.5215	21	-0.40	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	25.00	0.0000	25.27	1.158	0.5215	21	-0.24	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0508	25.07	0.0300	25.27	1.158	0.5215	21	-0.18	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	25.15	0.5000	25.27	1.158	0.5215	21	-0.11	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	25.21	0.3016	25.27	1.158	0.5215	21	-0.06	0%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0390	25.57	1.420	25.27	1.158	0.5215	21	0.26	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0421	25.70	0.2000	25.27	1.158	0.5215	21	0.37	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	25.75	0.7000	25.27	1.158	0.5215	21	0.41	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	25.91	0.6700	25.27	1.158	0.5215	21	0.55	1%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	26.19	0.0900	25.27	1.158	0.5215	21	0.79	2%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0483	26.58	0.4600	25.27	1.158	0.5215	21	1.13	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0527	26.64	0.0700	25.27	1.158	0.5215	21	1.18	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0042	26.95	1.530	25.27	1.158	0.5215	21	1.44	3%	0
020.50	Total Phosphorus as P2O5, ICP (%)	0307	27.16	1.840	25.27	1.158	0.5215	21	1.63	4%	0
020.99	Total Phosphorus as P2O5, Other (%)	0513	24.59	0.0600	29.13	6.937	0.5121	3	-0.66	8%	0
020.99	Total Phosphorus as P2O5, Other (%)	0537	25.70	0.2300	29.13	6.937	0.5121	3	-0.50	6%	0
020.99	Total Phosphorus as P2O5, Other (%)	0515	37.12	1.246	29.13	6.937	0.5121	3	1.15	14%	0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.0150	0.0100				1			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (25%)	0405	24.66	0.0400				1			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (25%)	0096	24.93	0.0900				1			0
040.99	Indirect Available Phosphorus as P2O5, Other (25%)	0394	24.76	0.0800				1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0177	23.66*	0.2743	24.70	0.2845	0.1329	6	-3.25	2%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0049	24.58	0.1500	24.70	0.2845	0.1329	6	-0.40	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0055	24.68	0.1400	24.70	0.2845	0.1329	6	-0.07	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0040	24.85	0.1000	24.70	0.2845	0.1329	6	0.47	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0086	24.87	0.1231	24.70	0.2845	0.1329	6	0.54	0%	0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0494	24.96	0.0100	24.70	0.2845	0.1329	6	0.79	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0105	24.63	0.3000	24.92	0.2591	0.1275	4	-1.12	1%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0513	24.83	0.0600	24.92	0.2591	0.1275	4	-0.35	0%	0

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041.11	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0220	24.98	0.0800	24.92	0.2591	0.1275	4	0.23	0%	0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (25%)	0485	25.25	0.0700	24.92	0.2591	0.1275	4	1.25	1%	0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (25%)	0027	23.43*	0.3900				2			0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (25%)	0535	25.45	0.0400				2			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (25%)	0522	24.29	0.0300				2			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (25%)	0535	25.45	0.1000				2			0
041.40	Direct Available Phosphorus as P2O5, Automate... (25%)	0018	24.85	0.1000				1			0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0325	24.10*	0.6000	25.66	1.479	0.4512	7	-0.96	3%	0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0070	24.48	0.2200	25.66	1.479	0.4512	7	-0.72	2%	0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0043	25.07	0.9700	25.66	1.479	0.4512	7	-0.37	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0291	25.41	0.0100	25.66	1.479	0.4512	7	-0.16	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0007	26.19	0.7900	25.66	1.479	0.4512	7	0.32	1%	0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0368	26.53	0.4481	25.66	1.479	0.4512	7	0.53	2%	0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0137	38.99	0.1200	25.66	1.479	0.4512	7	8.14	26%	0
041.50	Direct Available Phosphorus as P2O5, ICP (25%)	0452	27.26	3.980	25.66	1.479	0.4512	7	0.98	3%	1
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (25%)	0377	24.83	0.1600	25.12	0.3136	0.3300	5	-0.93	1%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (25%)	0494	24.96	0.3600	25.12	0.3136	0.3300	5	-0.52	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (25%)	0360	25.07	0.3200	25.12	0.3136	0.3300	5	-0.17	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (25%)	0025	25.11	0.4700	25.12	0.3136	0.3300	5	-0.06	0%	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (25%)	0117	25.65	0.3400	25.12	0.3136	0.3300	5	1.68	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0230	23.30*	0.4000	24.92	0.4381	0.1489	12	-3.69	3%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0397	24.48	0.0300	24.92	0.4381	0.1489	12	-1.01	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0043	24.69	0.1300	24.92	0.4381	0.1489	12	-0.53	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0177	24.77	0.0689	24.92	0.4381	0.1489	12	-0.34	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0105	24.82	0.2800	24.92	0.4381	0.1489	12	-0.23	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0073	24.86	0.1100	24.92	0.4381	0.1489	12	-0.15	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0486	24.89	0.0600	24.92	0.4381	0.1489	12	-0.07	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0231	24.90	0.1300	24.92	0.4381	0.1489	12	-0.05	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0034	25.09	0.2783	24.92	0.4381	0.1489	12	0.39	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0136	25.15	0.1000	24.92	0.4381	0.1489	12	0.53	0%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0354	25.56	0.1490	24.92	0.4381	0.1489	12	1.46	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0055	25.64	0.0500	24.92	0.4381	0.1489	12	1.64	1%	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (25%)	0472	23.24*	0.7200	24.92	0.4381	0.1489	12	-3.83	3%	1
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0532	25.01	0.0600	25.46	0.3640	0.1267	9	-1.14	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0533	25.02	0.0900	25.46	0.3640	0.1267	9	-1.13	1%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0531	25.25	0.0800	25.46	0.3640	0.1267	9	-0.53	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0535	25.49	0.0500	25.46	0.3640	0.1267	9	0.06	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0539	25.52	0.0400	25.46	0.3640	0.1267	9	0.15	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0518	25.60	0.4000	25.46	0.3640	0.1267	9	0.35	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0536	25.60	0.2000	25.46	0.3640	0.1267	9	0.35	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0538	25.66	0.0700	25.46	0.3640	0.1267	9	0.49	0%	0
041.99	Direct Available Phosphorus as P2O5, Other (25%)	0540	26.13	0.1500	25.46	0.3640	0.1267	9	1.69	1%	0
048.10	Water Soluble Phosphorus as P2O5, Gravimetric... (%)	0444	24.83	0.1500				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				
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0415	24.03	0.0193				1			0
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	24.76	0.1500				1			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0444	25.39	0.0100				1			0
048.99	Water Soluble Phosphorus as P2O5, Other (%)	0513	24.46	0.0400				1			0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0494	39.26	0.0500	40.48	0.4226	0.2044	9	-2.67	2%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0231	40.20	0.1100	40.48	0.4226	0.2044	9	-0.61	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0220	40.22	0.0100	40.48	0.4226	0.2044	9	-0.57	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0522	40.39	0.0200	40.48	0.4226	0.2044	9	-0.19	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0416	40.53	0.0000	40.48	0.4226	0.2044	9	0.12	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0055	40.57	0.7100	40.48	0.4226	0.2044	9	0.19	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0405	40.62	0.0300	40.48	0.4226	0.2044	9	0.30	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0049	40.83	0.0300	40.48	0.4226	0.2044	9	0.76	0%	0
050.00	Soluble Potassium as K2O, STPB Oxalate (40%)	0114	41.61	0.8800	40.48	0.4226	0.2044	9	2.48	1%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	0428	4.437*	0.2328	40.22	1.696	0.5586	7	-19.08	44%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	0040	39.20	0.6000	40.22	1.696	0.5586	7	-0.54	1%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	0309	40.02	0.0400	40.22	1.696	0.5586	7	-0.11	0%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	0415	40.09	1.158	40.22	1.696	0.5586	7	-0.07	0%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	0136	40.90	0.2000	40.22	1.696	0.5586	7	0.36	1%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	0356	41.51	0.5800	40.22	1.696	0.5586	7	0.69	2%	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (40%)	0157	42.15	1.100	40.22	1.696	0.5586	7	1.03	2%	0
050.31	Soluble Potassium as K2O, AA (Citrate) (40%)	0472	35.68*	1.430				1			0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0292	36.69*	0.0100	39.95	2.738	0.8925	8	-1.09	4%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0390	36.99*	1.180	39.95	2.738	0.8925	8	-0.99	4%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0324	39.10	0.6000	39.95	2.738	0.8925	8	-0.28	1%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0444	39.63	0.0700	39.95	2.738	0.8925	8	-0.11	0%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0397	40.69	0.0800	39.95	2.738	0.8925	8	0.25	1%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0157	41.15	2.100	39.95	2.738	0.8925	8	0.40	2%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0406	41.27	0.6000	39.95	2.738	0.8925	8	0.44	2%	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (40%)	0230	44.45	2.500	39.95	2.738	0.8925	8	1.50	6%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	0483	39.03	0.4800	40.57	1.409	0.1400	6	-0.97	2%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	0070	39.82	0.0400	40.57	1.409	0.1400	6	-0.47	1%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	0055	40.19	0.1800	40.57	1.409	0.1400	6	-0.24	0%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	0291	40.75	0.0100	40.57	1.409	0.1400	6	0.11	0%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	0007	40.95	0.1000	40.57	1.409	0.1400	6	0.24	0%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	0452	42.97	0.0300	40.57	1.409	0.1400	6	1.51	3%	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (40%)	0043	40.39	2.320	40.57	1.409	0.1400	6	-0.11	0%	1
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0137	24.78*	0.1400	40.40	1.426	0.3430	9	-10.11	19%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0543	38.35*	0.0240	40.40	1.426	0.3430	9	-1.33	3%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0117	40.56	0.4800	40.40	1.426	0.3430	9	0.10	0%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0025	40.72	1.240	40.40	1.426	0.3430	9	0.21	0%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0494	40.73	0.0800	40.40	1.426	0.3430	9	0.21	0%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0354	40.80	0.1530	40.40	1.426	0.3430	9	0.26	0%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0360	40.83	0.1600	40.40	1.426	0.3430	9	0.28	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				
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0377	41.68	0.1500	40.40	1.426	0.3430	9	0.82	2%	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (40%)	0486	41.69	0.6600	40.40	1.426	0.3430	9	0.83	2%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (40%)	0041	4.980*	0.1400	33.24	15.80	0.1506	5	-1.79	43%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (40%)	0510	39.90	0.3932	33.24	15.80	0.1506	5	0.42	10%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (40%)	0105	40.11	0.1500	33.24	15.80	0.1506	5	0.43	10%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (40%)	0169	40.51	0.0700	33.24	15.80	0.1506	5	0.46	11%	0
050.60	Soluble Potassium as K2O, Flame Photometric (... (40%)	0529	40.69	0.0000	33.24	15.80	0.1506	5	0.47	11%	0
050.61	Soluble Potassium as K2O, Flame Photometric (... (40%)	0535	41.16	0.1000				1			0
050.62	Soluble Potassium as K2O, Flame Photometric (... (40%)	0105	39.55	0.1800	40.53	0.5662	0.2860	5	-1.73	1%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (40%)	0034	40.59	0.4601	40.53	0.5662	0.2860	5	0.11	0%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (40%)	0029	40.68	0.3800	40.53	0.5662	0.2860	5	0.27	0%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (40%)	0513	40.88	0.1100	40.53	0.5662	0.2860	5	0.61	0%	0
050.62	Soluble Potassium as K2O, Flame Photometric (... (40%)	0018	40.95	0.3000	40.53	0.5662	0.2860	5	0.74	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0402	36.81*	0.1200	40.57	1.170	0.3368	37	-3.22	5%	0
050.99	Soluble Potassium as K2O, Other (40%)	0531	38.60*	0.1800	40.57	1.170	0.3368	37	-1.69	2%	0
050.99	Soluble Potassium as K2O, Other (40%)	0523	38.95	0.5000	40.57	1.170	0.3368	37	-1.39	2%	0
050.99	Soluble Potassium as K2O, Other (40%)	0096	39.25	0.7000	40.57	1.170	0.3368	37	-1.13	2%	0
050.99	Soluble Potassium as K2O, Other (40%)	0500	39.50	0.0000	40.57	1.170	0.3368	37	-0.92	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0433	39.52	0.3100	40.57	1.170	0.3368	37	-0.90	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0476	39.54	0.1406	40.57	1.170	0.3368	37	-0.88	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0421	39.65	0.5000	40.57	1.170	0.3368	37	-0.79	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0234	39.69	0.2600	40.57	1.170	0.3368	37	-0.75	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0371	39.70	0.0000	40.57	1.170	0.3368	37	-0.75	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0389	39.79	0.2400	40.57	1.170	0.3368	37	-0.67	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0518	39.85	0.7000	40.57	1.170	0.3368	37	-0.62	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0508	39.99	0.0700	40.57	1.170	0.3368	37	-0.50	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0482	40.00	1.200	40.57	1.170	0.3368	37	-0.49	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0325	40.20	0.4000	40.57	1.170	0.3368	37	-0.32	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0526	40.36	0.8000	40.57	1.170	0.3368	37	-0.18	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0541	40.42	0.1300	40.57	1.170	0.3368	37	-0.14	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0043	40.50	0.2700	40.57	1.170	0.3368	37	-0.07	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0368	40.59	0.7251	40.57	1.170	0.3368	37	0.01	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0394	40.59	0.1370	40.57	1.170	0.3368	37	0.01	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0506	40.65	0.5000	40.57	1.170	0.3368	37	0.07	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0532	40.65	0.5000	40.57	1.170	0.3368	37	0.07	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0444	40.68	0.0300	40.57	1.170	0.3368	37	0.09	0%	0
050.99	Soluble Potassium as K2O, Other (40%)	0533	41.02	0.1400	40.57	1.170	0.3368	37	0.38	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0536	41.05	0.4000	40.57	1.170	0.3368	37	0.41	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0535	41.16	0.0800	40.57	1.170	0.3368	37	0.50	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0177	41.22	0.2282	40.57	1.170	0.3368	37	0.56	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0540	41.43	0.1500	40.57	1.170	0.3368	37	0.73	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0539	41.55	0.1000	40.57	1.170	0.3368	37	0.83	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0451	41.65	0.6800	40.57	1.170	0.3368	37	0.92	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				
050.99	Soluble Potassium as K2O, Other (40%)	0307	41.75	0.5200	40.57	1.170	0.3368	37	1.01	1%	0
050.99	Soluble Potassium as K2O, Other (40%)	0527	41.83	0.3700	40.57	1.170	0.3368	37	1.07	2%	0
050.99	Soluble Potassium as K2O, Other (40%)	0537	41.94	0.1400	40.57	1.170	0.3368	37	1.17	2%	0
050.99	Soluble Potassium as K2O, Other (40%)	0538	41.96	0.0400	40.57	1.170	0.3368	37	1.18	2%	0
050.99	Soluble Potassium as K2O, Other (40%)	0521	42.84	0.0000	40.57	1.170	0.3368	37	1.94	3%	0
050.99	Soluble Potassium as K2O, Other (40%)	0027	43.01	1.040	40.57	1.170	0.3368	37	2.08	3%	0
050.99	Soluble Potassium as K2O, Other (40%)	0090	43.22	0.1600	40.57	1.170	0.3368	37	2.26	3%	0
050.99	Soluble Potassium as K2O, Other (40%)	0524	41.76	2.480	40.57	1.170	0.3368	37	1.01	1%	1
050.99	Soluble Potassium as K2O, Other (40%)	0042	41.96	2.320	40.57	1.170	0.3368	37	1.18	2%	1
060.00	Water (Free), Vacuum Oven (%)	0007	0.1250	0.0300	0.1975	0.0663	0.0217	3	-1.09	18%	0
060.00	Water (Free), Vacuum Oven (%)	0416	0.2124	0.0050	0.1975	0.0663	0.0217	3	0.23	4%	0
060.00	Water (Free), Vacuum Oven (%)	0096	0.2550	0.0300	0.1975	0.0663	0.0217	3	0.87	15%	0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0513	0.2050	0.0100				1			0
060.99	Water (Free), Other (%)	0510	0.2178	0.0018	0.2576	0.0441	0.0506	3	-0.90	8%	0
060.99	Water (Free), Other (%)	0055	0.2500	0.1000	0.2576	0.0441	0.0506	3	-0.17	1%	0
060.99	Water (Free), Other (%)	0513	0.3050	0.0500	0.2576	0.0441	0.0506	3	1.07	9%	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.0110	0.0000				2			0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.0835	0.0050				2			0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	0.0011	0.0000				1			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0494	0.0042	0.0008				2			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0527	0.0080	0.0020				2			0
101.99	Acid Soluble Calcium, Other (%)	0389	0.0300	0.0000				1			0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (%)	0535	0.0279	0.0002				1			0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (%)	0354	0.0085	0.0010				1			0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (%)	0521	0.0011	0.0000				1			0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0527	0.0020	0.0000				2			0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (%)	0515	0.0119	0.0045				2			0
121.99	Acid Soluble Magnesium, Other (%)	0389	0.0009	0.0004	0.0016	0.0008	0.0004	3	-0.77	21%	0
121.99	Acid Soluble Magnesium, Other (%)	0524	0.0013	0.0001	0.0016	0.0008	0.0004	3	-0.36	10%	0
121.99	Acid Soluble Magnesium, Other (%)	0515	0.0025	0.0006	0.0016	0.0008	0.0004	3	1.13	31%	0
143.99	Elemental Sulfur, Other (%)	0389	0.0060	0.0020				1			0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0494	0.0058	0.0005	0.0079	0.0036	0.0013	3	-0.59	13%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0515	0.0059	0.0015	0.0079	0.0036	0.0013	3	-0.56	13%	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (%)	0527	0.0120	0.0020	0.0079	0.0036	0.0013	3	1.15	26%	0
148.99	Total Sulfur, Other (%)	0096	0.0054	0.0002	0.0148	0.0098	0.0047	3	-0.96	32%	0
148.99	Total Sulfur, Other (%)	0354	0.0140	0.0040	0.0148	0.0098	0.0047	3	-0.08	3%	0
148.99	Total Sulfur, Other (%)	0482	0.0250	0.0100	0.0148	0.0098	0.0047	3	1.04	34%	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	0.0038	0.0000				2			0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	0.0055	0.0010				2			0
151.00	Acid Soluble Arsenic , AA, test portion as in... (ppm)	0136	7.600	0.2000				1			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0444	4.600	0.0000	7.387	2.320	0.1267	7	-1.09	19%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0523	5.160	0.0200	7.387	2.320	0.1267	7	-0.87	15%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0368	6.750	0.3000	7.387	2.320	0.1267	7	-0.25	4%	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				
151.30	Acid Soluble Arsenic , ICP (ppm)	0529	7.360	0.0400	7.387	2.320	0.1267	7	-0.01	0%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0394	8.402	0.2770	7.387	2.320	0.1267	7	0.40	7%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	9.500	0.2000	7.387	2.320	0.1267	7	0.82	14%	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0541	9.935	0.0500	7.387	2.320	0.1267	7	0.99	17%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	6.233	0.6500	10.58	6.076	1.307	5	-0.71	21%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0117	7.820	1.448	10.58	6.076	1.307	5	-0.45	13%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	8.738	0.0090	10.58	6.076	1.307	5	-0.30	9%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	8.800	0.2563	10.58	6.076	1.307	5	-0.29	8%	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0105	21.29	4.170	10.58	6.076	1.307	5	1.76	51%	0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	8.106	0.0940				1			0
151.99	Acid Soluble Arsenic , Other (ppm)	0220	7.150	0.3000				2			0
151.99	Acid Soluble Arsenic , Other (ppm)	0476	7.233	0.4974				2			0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0521	0.0027	0.0000				2			0
165.30	Acid Soluble Boron , ICP, test portion in 982... (%)	0354	0.0135	0.0030				2			0
165.99	Acid Soluble Boron , Other (%)	0524	0.0016	0.0001				2			0
165.99	Acid Soluble Boron , Other (%)	0527	0.0095	0.0010				2			0
165.99	Acid Soluble Boron , Other (%)	0515	0.0000	0.0000				2			4
181.00	Acid Soluble Cadmium , AA, test portion as in... (ppm)	0136	0.2000	0.0000				1			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0523	0.0630	0.0000	0.1331	0.0867	0.0235	5	-0.70	26%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	0.0803	0.0037	0.1331	0.0867	0.0235	5	-0.53	20%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0541	0.1050	0.0900	0.1331	0.0867	0.0235	5	-0.28	11%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0394	0.1370	0.0040	0.1331	0.0867	0.0235	5	0.04	1%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	0.2800	0.0200	0.1331	0.0867	0.0235	5	1.48	55%	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0368	0.0000	0.0000	0.1331	0.0867	0.0235	5			4
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0527	0.1080	0.0000				2			0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0494	0.1237	0.0290				2			0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ... (ppm)	0515	0.0000	0.0000				2			4
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
181.99	Acid Soluble Cadmium , Other (ppm)	0476	0.1539	0.0099	1.311	1.431	0.2275	4	-0.81	44%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0220	0.3000	0.2000	1.311	1.431	0.2275	4	-0.71	39%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0535	1.550	0.1000	1.311	1.431	0.2275	4	0.17	9%	0
181.99	Acid Soluble Cadmium , Other (ppm)	0506	3.240	0.6000	1.311	1.431	0.2275	4	1.35	74%	0
190.00	Water Soluble Chlorine, Titrimetric (%)	0105	0.4300	0.0000				1			0
191.30	Acid Soluble Chromium , ICP (ppm)	0529	1.485	0.0300	3.215	1.550	0.4043	7	-1.01	27%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	1.850	0.3000	3.215	1.550	0.4043	7	-0.80	21%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	2.405	0.7700	3.215	1.550	0.4043	7	-0.47	13%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0368	3.300	0.8000	3.215	1.550	0.4043	7	0.05	1%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0394	3.795	0.3500	3.215	1.550	0.4043	7	0.34	9%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	4.600	0.2000	3.215	1.550	0.4043	7	0.81	22%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	5.070	0.3800	3.215	1.550	0.4043	7	1.08	29%	0
191.30	Acid Soluble Chromium , ICP (ppm)	0541	5.400	3.600	3.215	1.550	0.4043	7	1.27	34%	1
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0494	1.491	0.3468	3.493	1.760	0.5243	3	-1.14	29%	0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0527	4.195	0.1790	3.493	1.760	0.5243	3	0.40	10%	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				
191.33	Acid Soluble Chromium , ICP, 2006.03 modified... (ppm)	0515	4.795	1.047	3.493	1.760	0.5243	3	0.74	19%	0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	4.017	0.6310				1			0
191.99	Acid Soluble Chromium , Other (ppm)	0506	2.745	0.1900	3.629	0.8125	0.2800	3	-1.09	12%	0
191.99	Acid Soluble Chromium , Other (ppm)	0220	3.800	0.4000	3.629	0.8125	0.2800	3	0.21	2%	0
191.99	Acid Soluble Chromium , Other (ppm)	0476	4.343	0.2499	3.629	0.8125	0.2800	3	0.88	10%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	0.1450	0.0100	0.2878	0.1480	0.0877	4	-0.97	25%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0529	0.1900	0.0200	0.2878	0.1480	0.0877	4	-0.66	17%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0368	0.3500	0.3000	0.2878	0.1480	0.0877	4	0.42	11%	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	0.4664	0.0209	0.2878	0.1480	0.0877	4	1.21	31%	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0527	0.1620	0.0080				2			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0494	0.3225	0.1149				2			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	0.0000	0.0000				2			4
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	0.0475	0.0330				1			0
202.99	Acid Soluble Cobalt , Other (ppm)	0476	0.2581	0.0198	4.104	5.617	0.1366	3	-0.68	47%	0
202.99	Acid Soluble Cobalt , Other (ppm)	0506	1.505	0.2900	4.104	5.617	0.1366	3	-0.46	32%	0
202.99	Acid Soluble Cobalt , Other (ppm)	0535	10.55	0.1000	4.104	5.617	0.1366	3	1.15	79%	0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	0043	0.0003	0.0000				2			0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (%)	0535	0.0003	0.0000				2			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0096	0.0002	0.0000	0.0010	0.0013	0.0001	4	-0.58	40%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0541	0.0003	0.0003	0.0010	0.0013	0.0001	4	-0.55	37%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0433	0.0005	0.0002	0.0010	0.0013	0.0001	4	-0.36	25%	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (%)	0354	0.0030	0.0000	0.0010	0.0013	0.0001	4	1.49	102%	0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0521	0.0002	0.0000				2			0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (%)	0394	0.0004	0.0001				2			0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0527	0.0001	0.0000	0.0003	0.0002	0.0001	3	-0.87	33%	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0494	0.0003	0.0001	0.0003	0.0002	0.0001	3	-0.22	8%	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (%)	0515	0.0006	0.0001	0.0003	0.0002	0.0001	3	1.09	42%	0
221.99	Acid Soluble Copper , Other (%)	0220	0.0002	0.0000	0.0003	0.0001	0.0000	5	-0.71	17%	0
221.99	Acid Soluble Copper , Other (%)	0524	0.0002	0.0000	0.0003	0.0001	0.0000	5	-0.71	17%	0
221.99	Acid Soluble Copper , Other (%)	0389	0.0003	0.0000	0.0003	0.0001	0.0000	5	0.00	0%	0
221.99	Acid Soluble Copper , Other (%)	0515	0.0003	0.0000	0.0003	0.0001	0.0000	5	0.00	0%	0
221.99	Acid Soluble Copper , Other (%)	0476	0.0005	0.0000	0.0003	0.0001	0.0000	5	1.43	33%	0
221.99	Acid Soluble Copper , Other (%)	0368	0.0003	0.0005	0.0003	0.0001	0.0000	5			4
241.00	Acid Soluble Iron , AA, inorganic 965.09 (%)	0535	0.0033	0.0005				1			0
241.30	Acid Soluble Iron , ICP, test portion inorgani... (%)	0354	0.0095	0.0010				1			0
241.32	Acid Soluble Iron , ICP, test portion 2006.03A... (%)	0521	0.0066	0.0000				1			0
241.33	Acid Soluble Iron , ICP, test portion 2006.03A... (%)	0527	0.0030	0.0000	0.0040	0.0009	0.0012	4	-1.11	12%	0
241.33	Acid Soluble Iron , ICP, test portion 2006.03A... (%)	0117	0.0037	0.0008	0.0040	0.0009	0.0012	4	-0.29	3%	0
241.33	Acid Soluble Iron , ICP, test portion 2006.03A... (%)	0494	0.0041	0.0005	0.0040	0.0009	0.0012	4	0.12	1%	0
241.33	Acid Soluble Iron , ICP, test portion 2006.03A... (%)	0515	0.0051	0.0033	0.0040	0.0009	0.0012	4	1.29	14%	0
241.99	Acid Soluble Iron , Other (%)	0524	0.0024	0.0000	0.0071	0.0074	0.0016	3	-0.64	33%	0
241.99	Acid Soluble Iron , Other (%)	0389	0.0034	0.0005	0.0071	0.0074	0.0016	3	-0.51	26%	0
241.99	Acid Soluble Iron , Other (%)	0515	0.0156	0.0044	0.0071	0.0074	0.0016	3	1.15	60%	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
251.00	Acid Soluble Lead , AA, test portion as in 20...	0136	1.000	0.0000				1			0
251.30	Acid Soluble Lead , ICP (ppm)	0524	0.0606	0.0024				1			0
251.30	Acid Soluble Lead , ICP (ppm)	0368	0.0000	0.0000				1			4
251.30	Acid Soluble Lead , ICP (ppm)	0389	0.0000	0.0000				1			4
251.30	Acid Soluble Lead , ICP (ppm)	0394	0.0000	0.0000				1			4
251.30	Acid Soluble Lead , ICP (ppm)	0541	8.280	16.56				1			4
251.32	Acid Soluble Lead , ICP, 2006.03 (ppm)	0529	0.0950	0.0100				1			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9...	0527	0.0660	0.0080				2			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9...	0494	0.2061	0.0215				2			0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9...	0515	0.0000	0.0000				2			4
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	0.0000	0.0000				0			4
251.99	Acid Soluble Lead , Other (ppm)	0476	0.1697	0.0199	4.386	7.334	0.3325	4	-0.57	48%	0
251.99	Acid Soluble Lead , Other (ppm)	0220	0.4500	0.3000	4.386	7.334	0.3325	4	-0.54	45%	0
251.99	Acid Soluble Lead , Other (ppm)	0506	1.575	0.9100	4.386	7.334	0.3325	4	-0.38	32%	0
251.99	Acid Soluble Lead , Other (ppm)	0535	15.35	0.1000	4.386	7.334	0.3325	4	1.49	125%	0
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (%)	0535	0.0004	0.0001				0			9
261.30	Acid Soluble Manganese , ICP, test portion 97...	0354	0.0000	0.0000				2			9
261.30	Acid Soluble Manganese , ICP, test portion 97...	0096	0.0004	0.0000				2			9
261.34	Acid Soluble Manganese , ICP, test portion 20...	0521	0.0004	0.0000				0			9
261.35	Acid Soluble Manganese , ICP, test portion 20...	0515	0.0000	0.0000				3			9
261.35	Acid Soluble Manganese , ICP, test portion 20...	0527	0.0004	0.0000				3			9
261.35	Acid Soluble Manganese , ICP, test portion 20...	0494	0.0005	0.0001				3			9
261.99	Acid Soluble Manganese , Other (%)	0515	0.0000	0.0000				3			9
261.99	Acid Soluble Manganese , Other (%)	0389	0.0004	0.0001				3			9
261.99	Acid Soluble Manganese , Other (%)	0524	0.0004	0.0000				3			9
271.00	Water Soluble Manganese , AA (%)	0535	0.0003	0.0001				1			0
281.30	Acid Soluble Mercury , ICP (ppm)	0394	0.0054	0.0003				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0541	1.030	2.021				2			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	0.0000	0.0000				2			4
281.99	Acid Soluble Mercury , Other (ppm)	0476	0.0556	0.0060				1			0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0433	0.5114	0.0510	0.8938	0.4483	0.2559	5	-0.85	21%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0524	0.6275	0.0214	0.8938	0.4483	0.2559	5	-0.59	15%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0368	0.7000	1.200	0.8938	0.4483	0.2559	5	-0.43	11%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0541	1.004	0.0070	0.8938	0.4483	0.2559	5	0.24	6%	0
289.30	Acid Soluble Molybdenum , ICP (ppm)	0521	1.627	0.0000	0.8938	0.4483	0.2559	5	1.63	41%	0
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (ppm)	0394	0.2890	0.0440				1			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi...	0494	0.7728	0.0913				2			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi...	0527	0.9455	0.0430				2			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi...	0515	0.2949	0.5897				2			4
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010...	0515	0.6425	0.0030				1			0
289.99	Acid Soluble Molybdenum , Other (ppm)	0220	0.4500	0.1000	3.149	4.580	0.6685	3	-0.59	43%	0
289.99	Acid Soluble Molybdenum , Other (ppm)	0506	0.5600	0.4200	3.149	4.580	0.6685	3	-0.57	41%	0
289.99	Acid Soluble Molybdenum , Other (ppm)	0476	8.437	1.486	3.149	4.580	0.6685	3	1.15	84%	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				
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0136	2.000	0.2000				1			0
291.30	Acid Soluble Nickel , ICP (ppm)	0521	0.6042	0.0000	1.251	0.5522	0.2247	7	-1.06	26%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	0.9310	0.0129	1.251	0.5522	0.2247	7	-0.52	13%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0529	1.065	0.0100	1.251	0.5522	0.2247	7	-0.30	7%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	1.080	0.1200	1.251	0.5522	0.2247	7	-0.28	7%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	1.300	0.0000	1.251	0.5522	0.2247	7	0.08	2%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0541	1.775	0.6300	1.251	0.5522	0.2247	7	0.86	21%	0
291.30	Acid Soluble Nickel , ICP (ppm)	0368	2.000	0.8000	1.251	0.5522	0.2247	7	1.23	30%	0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0105	0.9060	0.1260				2			0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0527	1.103	0.0110				2			0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	0.5580	1.116				2			4
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	0.9380	0.0221				1			0
291.99	Acid Soluble Nickel , Other (ppm)	0220	1.550	0.1000	7.662	8.725	1.686	4	-0.70	40%	0
291.99	Acid Soluble Nickel , Other (ppm)	0476	3.846	0.7429	7.662	8.725	1.686	4	-0.44	25%	0
291.99	Acid Soluble Nickel , Other (ppm)	0535	4.650	0.3000	7.662	8.725	1.686	4	-0.35	20%	0
291.99	Acid Soluble Nickel , Other (ppm)	0506	20.60	5.600	7.662	8.725	1.686	4	1.48	84%	0
301.30	Acid Soluble Selenium , ICP (ppm)	0529	0.0450	0.0100	1.090	1.810	0.3850	3	-0.58	48%	0
301.30	Acid Soluble Selenium , ICP (ppm)	0394	0.0455	0.0050	1.090	1.810	0.3850	3	-0.58	48%	0
301.30	Acid Soluble Selenium , ICP (ppm)	0524	3.180	1.140	1.090	1.810	0.3850	3	1.15	96%	0
301.30	Acid Soluble Selenium , ICP (ppm)	0368	0.0000	0.0000	1.090	1.810	0.3850	3			4
301.30	Acid Soluble Selenium , ICP (ppm)	0541	0.0170	0.0340	1.090	1.810	0.3850	3			4
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0527	0.1135	0.0250				1			0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0515	0.0000	0.0000				1			4
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	0.4155	0.1835				1			0
301.99	Acid Soluble Selenium , Other (ppm)	0476	0.0715	0.0000				1			0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.2772	0.0000				1			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0494	0.2687	0.0174				2			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	0.2755	0.0030				2			0
311.99	Sodium, Other (%)	0096	0.3000	0.0000	0.3157	0.0271	0.0107	3	-0.58	2%	0
311.99	Sodium, Other (%)	0482	0.3000	0.0200	0.3157	0.0271	0.0107	3	-0.58	2%	0
311.99	Sodium, Other (%)	0354	0.3470	0.0120	0.3157	0.0271	0.0107	3	1.15	5%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0533	0.0012	0.0001	0.0081	0.0137	0.0005	5	-0.51	43%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0535	0.0013	0.0001	0.0081	0.0137	0.0005	5	-0.50	42%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0531	0.0021	0.0001	0.0081	0.0137	0.0005	5	-0.44	37%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0043	0.0035	0.0010	0.0081	0.0137	0.0005	5	-0.34	28%	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (%)	0428	0.0326	0.0014	0.0081	0.0137	0.0005	5	1.78	151%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0433	0.0032	0.0001	0.0049	0.0016	0.0001	3	-1.04	18%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0354	0.0050	0.0000	0.0049	0.0016	0.0001	3	0.09	2%	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (%)	0096	0.0064	0.0002	0.0049	0.0016	0.0001	3	0.95	16%	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0521	0.0015	0.0000				2			0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0394	0.0021	0.0001				2			0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0527	0.0010	0.0000	0.0013	0.0004	0.0001	3	-0.95	13%	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0515	0.0013	0.0002	0.0013	0.0004	0.0001	3	-0.09	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				
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (%)	0494	0.0017	0.0002	0.0013	0.0004	0.0001	3	1.04	14%	0
321.99	Acid Soluble Zinc , Other (%)	0389	0.0015	0.0001	0.0020	0.0006	0.0001	6	-0.72	13%	0
321.99	Acid Soluble Zinc , Other (%)	0515	0.0016	0.0001	0.0020	0.0006	0.0001	6	-0.58	10%	0
321.99	Acid Soluble Zinc , Other (%)	0524	0.0016	0.0000	0.0020	0.0006	0.0001	6	-0.51	9%	0
321.99	Acid Soluble Zinc , Other (%)	0523	0.0020	0.0000	0.0020	0.0006	0.0001	6	0.06	1%	0
321.99	Acid Soluble Zinc , Other (%)	0220	0.0023	0.0003	0.0020	0.0006	0.0001	6	0.42	7%	0
321.99	Acid Soluble Zinc , Other (%)	0476	0.0030	0.0000	0.0020	0.0006	0.0001	6	1.49	27%	0
321.99	Acid Soluble Zinc , Other (%)	0368	0.0022	0.0014	0.0020	0.0006	0.0001	6	0.35	6%	1
325.00	Water Soluble Zinc , AA (%)	0535	0.0012	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 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.