

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 180211

Grade 14-14-14

Statistical Summary

Methods: 149

Labs Reporting: 100

Issue Date : 03/31/2018

Method Code	Analyte & Method Sample # 180211	# 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 (%)	11	10	13.41	0.5861	13.46		0.5385	0.2129	4.00%		0.0742	2.70%
001.99	Ammoniacal Nitrogen, Other (%)	25	24	13.83	0.4100	13.81		0.3620	0.0924	2.62%		0.0966	2.69%
002.99	Nitrate Nitrogen, Other (%)	1		0.0500									
003.10	Water Insoluble Nitrogen, Method I (%)	1		0.0000									
010.10	Total Nitrogen, Reduced Iron (14%)	1		14.00									
010.11	Total Nitrogen, Modified Comprehensive (14%)	6	6	13.69	0.6325	13.86	0.6286	0.2866	0.1462	2.07%	1.06	0.0850	2.69%
010.12	Total Nitrogen, Salicylic (14%)	2	2	13.34	0.4769								
010.60	Total Nitrogen, Combustion (14%)	61	60	13.85	0.2155	13.83	0.6283	0.1696	0.0274	1.23%	0.63	0.1101	2.69%
010.99	Total Nitrogen, Other (14%)	7	7	14.07	0.4555	14.07	0.6314	0.5165	0.2440	3.67%	1.91	0.1316	2.69%
020.10	Total Phosphorus as P2O5, Gravimetric Quinolinium ..	4	4	14.67	0.2507	14.67		0.2507	0.1567	1.71%		0.1050	2.67%
020.20	Total Phosphorus as P2O5, Spectrophotometric Molyb	18	18	14.73	0.3560	14.74		0.3790	0.1117	2.57%		0.1181	2.67%
020.40	Total Phosphorus as P2O5, Automated (%)	3	3	14.66	0.2338	14.66		0.2338	0.1687	1.59%		0.1367	2.67%
020.50	Total Phosphorus as P2O5, ICP (%)	25	23	14.71	0.7234	14.67		0.7249	0.1889	4.94%		0.1949	2.67%
020.99	Total Phosphorus as P2O5, Other (%)	3	3	15.35	1.943	15.35		1.943	1.402	12.65%		1.005	2.65%
030.20	Citrate Insoluble Phosphorus as P2O5, Spectrophoto..	1		14.25									
030.40	Citrate Insoluble Phosphorus as P2O5, Automated, t...	1		0.0700									
040.20	Indirect Available Phosphorus as P2O5, Spectrophot...	1		14.96									
040.40	Indirect Available Phosphorus as P2O5, Automated (1..	1		14.38									
040.99	Indirect Available Phosphorus as P2O5, Other (14%)	1		14.79									
041.10	Direct Available Phosphorus as P2O5, Gravimetric Q..	5	5	14.54	0.1712	14.54	0.7000	0.1712	0.0957	1.18%	0.57	0.2595	2.67%
041.11	Direct Available Phosphorus as P2O5, Gravimetric Q..	4	4	14.46	0.3709	14.46	0.7000	0.3709	0.2318	2.57%	1.23	0.1478	2.68%
041.20	Direct Available Phosphorus as P2O5, Spectrophotom	2	2	14.50	0.3536								
041.21	Direct Available Phosphorus as P2O5, Spectrophotom	4	4	14.45	0.3474	14.45	0.7000	0.3474	0.2171	2.40%	1.16	0.1210	2.68%
041.50	Direct Available Phosphorus as P2O5, ICP (14%)	3	3	14.92	0.4813	14.92	0.7000	0.4813	0.3474	3.23%	1.60	0.0487	2.66%
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-...	11	10	14.28	0.5404	14.36	0.7000	0.4084	0.1614	2.84%	1.36	0.1400	2.68%
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA ..	13	13	14.41	0.4095	14.45	0.7000	0.3658	0.1268	2.53%	1.22	0.1230	2.68%
041.99	Direct Available Phosphorus as P2O5, Other (14%)	13	13	14.21	0.2070	14.19	0.7000	0.1799	0.0624	1.27%	0.60	0.1185	2.68%
048.10	Water Soluble Phosphorus as P2O5, Gravimetric Quin	1		13.13									
048.20	Water Soluble Phosphorus as P2O5, Spectrophotome	2	2	13.37	0.2051								
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	1		13.09									
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	2	2	13.45	0.5448								

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050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	11	11	14.48	0.3763	14.52	0.8881	0.3421	0.1290	2.36%	0.90	0.0500	2.67%
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	7	7	14.62	0.6043	14.62	0.8917	0.6853	0.3238	4.69%	1.79	0.1683	2.67%
050.31	Soluble Potassium as K2O, AA (Citrate) (14%)	1		10.50									
050.32	Soluble Potassium as K2O, AA (Citrate-EDTA) (14%)	1		15.11									
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	6	6	14.29	0.3451	14.31	0.8808	0.3458	0.1765	2.42%	0.91	0.3665	2.68%
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	5	5	15.01	0.9145	15.01	0.9052	0.9145	0.5112	6.09%	2.35	0.0140	2.66%
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	12	12	14.76	1.172	14.52	0.8881	0.5468	0.1973	3.77%	1.43	0.2558	2.67%
050.60	Soluble Potassium as K2O, Flame Photometric (Oxala	5	5	15.27	1.274	15.27	0.9145	1.274	0.7122	8.34%	3.25	0.1420	2.65%
050.61	Soluble Potassium as K2O, Flame Photometric (Citra..	2	2	14.69	0.1909								
050.62	Soluble Potassium as K2O, Flame Photometric (Citra..	4	4	14.74	0.2092	14.74	0.8960	0.2092	0.1308	1.42%	0.54	0.2818	2.67%
050.99	Soluble Potassium as K2O, Other (14%)	40	39	14.55	0.5717	14.52	0.8881	0.5704	0.1142	3.93%	1.50	0.1755	2.67%
060.00	Water (Free), Vacuum Oven (%)	3	3	0.6723	0.1623	0.6723		0.1623	0.1171	24.14%		0.1183	4.25%
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 hours...	2	2	2.718	1.036								
060.99	Water (Free), Other (%)	1		0.7200									
101.30	Acid Soluble Calcium, ICP, test portion inorganic ... (%)	8	8	0.3287	0.1009	0.3046	0.2152	0.0451	0.0199	14.82%	0.49	0.0564	4.78%
101.32	Acid Soluble Calcium, ICP, test portion 2006.03A-C (%)	2	2	0.3788	0.1403								
101.33	Acid Soluble Calcium, ICP, test portion 2006.03A-C...	3	3	0.2990	0.0295	0.2990	0.2149	0.0295	0.0213	9.87%	0.32	0.0042	4.80%
101.99	Acid Soluble Calcium, Other (%)	1		0.2600									
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	6	6	0.6622	0.1294	0.6493	0.2325	0.1154	0.0589	17.77%	1.16	0.0232	4.27%
121.30	Acid Soluble Magnesium, ICP, test portion inorgani...	19	18	0.5682	0.0497	0.5688	0.2284	0.0334	0.0098	5.87%	0.34	0.0103	4.35%
121.31	Acid Soluble Magnesium, ICP, test portion organic ...	1		0.6550									
121.32	Acid Soluble Magnesium, ICP, test portion 2006.03A...	5	5	0.5669	0.0328	0.5669	0.2283	0.0328	0.0183	5.78%	0.33	0.0024	4.36%
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A...	10	9	0.5734	0.0364	0.5773	0.2289	0.0315	0.0131	5.46%	0.32	0.0096	4.34%
121.99	Acid Soluble Magnesium, Other (1%)	8	7	0.5194	0.2421	0.5451	0.2273	0.1632	0.0771	29.94%	1.67	0.0109	4.38%
131.00	Water Soluble Magnesium, AA (%)	2	2	0.3532	0.0238								
131.30	Water Soluble Magnesium, ICP (%)	6	6	0.3532	0.1601	0.3404		0.1509	0.0770	44.33%		0.0244	4.70%
131.99	Water Soluble Magnesium, Other (%)	2	2	0.2625	0.3005								
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon disu...	1		0.3650									
143.99	Elemental Sulfur, Other (%)	5	5	10.23	0.4839	10.23		0.4839	0.2705	4.73%		0.1198	2.82%
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - ... (%)	9	9	10.61	0.2504	10.62		0.2607	0.1086	2.45%		0.1280	2.80%
145.99	Sulfate Sulfur, HCl soluble, Other (%)	2	2	8.800	1.386								
148.00	Total Sulfur, Combustion (7.75%)	6	6	10.59	0.1841	10.58	0.7290	0.1882	0.0960	1.78%	0.60	0.1650	2.80%
148.01	Total Sulfur, Gravimetric - sulfate and elemental...	12	11	10.49	0.2118	10.49	0.7247	0.2401	0.0905	2.29%	0.77	0.0464	2.81%
148.04	Total Sulfur, ICP, w/Br digestion (7.75%)	1		10.43									
148.07	Total Sulfur, ICP, test portion as in 2006.03 modi...	16	15	10.31	0.9999	10.33	0.7163	0.8335	0.2690	8.07%	2.71	0.3663	2.81%
148.99	Total Sulfur, Other (7.75%)	11	11	10.57	0.9129	10.47	0.7233	0.6122	0.2307	5.85%	1.97	0.1383	2.81%
149.04	Sulfur - HNO3 soluble, ICP (%)	4	4	10.01	1.644	10.01		1.644	1.027	16.43%		0.0375	2.83%
151.00	Acid Soluble Arsenic , AA, test portion as in 2006...	2	2	117.2	39.25								
151.30	Acid Soluble Arsenic , ICP (ppm)	9	9	157.9	15.03	159.2		13.77	5.739	8.65%		7.712	7.46%
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified w/9:3...	5	5	170.0	9.408	170.0		9.408	5.259	5.53%		6.345	7.38%
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	2	2	149.1	0.1358								
151.99	Acid Soluble Arsenic , Other (ppm)	3	3	120.4	65.64	120.4		65.64	47.37	54.53%		4.329	7.78%

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165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	13	13	0.1940	0.0326	0.1977	0.0327	0.0184	0.0064	9.31%	1.31	0.0122	5.10%
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (0.2%)	14	13	0.2101	0.0141	0.2095	0.0344	0.0128	0.0044	6.10%	0.87	0.0028	5.06%
165.99	Acid Soluble Boron , Other (0.2%)	20	19	0.2072	0.0210	0.2075	0.0341	0.0196	0.0056	9.46%	1.34	0.0041	5.07%
171.10	Water Soluble Boron , Spectrophotometric (%)	6	6	0.1273	0.0302	0.1273		0.0342	0.0175	26.88%		0.0203	5.45%
171.99	Water Soluble Boron , Other (%)	2	2	0.1835	0.0403								
181.00	Acid Soluble Cadmium , AA, test portion as in 2006...	2	2	189.8	14.47								
181.30	Acid Soluble Cadmium , ICP (ppm)	11	11	186.2	21.23	188.3		18.90	7.124	10.04%		8.958	7.27%
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified w/9:3...	5	5	197.6	7.948	197.6		7.948	4.443	4.02%		14.34	7.22%
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	2	2	193.6	9.348								
181.99	Acid Soluble Cadmium , Other (ppm)	4	4	161.0	28.00	161.0		28.00	17.50	17.40%		13.45	7.45%
190.00	Water Soluble Chlorine, Titrimetric (%)	1		2.335									
190.99	Water Soluble Chlorine, Other (%)	1		12.33									
191.00	Acid Soluble Chromium , AA, test portion as in 200...	1		502.1									
191.30	Acid Soluble Chromium , ICP (ppm)	9	8	538.3	104.5	552.4		82.82	36.60	14.99%		17.29	6.18%
191.33	Acid Soluble Chromium , ICP, 2006.03 modified w/9:...	5	5	619.6	19.71	619.6		19.71	11.02	3.18%		29.26	6.08%
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	2	2	660.0	139.3								
191.99	Acid Soluble Chromium , Other (ppm)	4	4	449.3	297.7	449.3		297.7	186.1	66.26%		8.976	6.38%
202.30	Acid Soluble Cobalt , ICP (ppm)	8	8	377.8	28.02	382.6	115.7892	19.16	8.469	5.01%	0.39	15.29	6.54%
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	1		350.5									
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w/9:3 ...	7	7	330.5	133.8	374.0	113.2086	26.97	12.74	7.21%	0.56	9.178	6.56%
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	1		377.1									
202.99	Acid Soluble Cobalt , Other (ppm)	5	5	388.5	66.30	388.5	117.5466	66.30	37.06	17.06%	1.31	6.629	6.52%
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	5	5	0.1288	0.0125	0.1288	0.0179	0.0125	0.0070	9.68%	1.62	0.0109	5.45%
221.03	Acid Soluble Copper , AA, 965.09, test portion 200...	2	2	0.1370	0.0042								
221.30	Acid Soluble Copper , ICP, test portion inorganic ...	19	18	0.1292	0.0350	0.1313	0.0181	0.0200	0.0059	15.22%	2.57	0.0069	5.43%
221.31	Acid Soluble Copper , ICP, test portion organic 96...	0	1	0.1258									
221.32	Acid Soluble Copper , ICP, test portion 2006.03A-C...	5	5	0.1300	0.0192	0.1300	0.0180	0.0192	0.0107	14.79%	2.49	0.0048	5.44%
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C...	10	10	0.1302	0.0077	0.1305	0.0180	0.0081	0.0032	6.24%	1.05	0.0061	5.43%
221.99	Acid Soluble Copper , Other (0.06%)	11	10	0.0851	0.0480	0.0851	0.0135	0.0544	0.0215	63.93%	9.38	0.0058	5.79%
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	5	5	0.6094	0.1123	0.6094	0.0659	0.1123	0.0628	18.42%	3.97	0.0445	4.31%
241.30	Acid Soluble Iron, ICP, test portion inorganic 965...	21	20	0.6517	0.0991	0.6617	0.0712	0.0783	0.0219	11.83%	2.56	0.0135	4.26%
241.32	Acid Soluble Iron, ICP, test portion 2006.03A-C (1%)	5	5	0.6048	0.0737	0.6048	0.0655	0.0737	0.0412	12.18%	2.62	0.0258	4.31%
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w...	12	12	0.6869	0.0435	0.6903	0.0740	0.0418	0.0151	6.05%	1.31	0.0258	4.23%
241.99	Acid Soluble Iron, Other (1%)	14	13	0.5099	0.2519	0.5484	0.0598	0.1966	0.0682	35.85%	7.66	0.0132	4.38%
251.00	Acid Soluble Lead , AA, test portion as in 2006.03...	2	2	885.6	59.30								
251.30	Acid Soluble Lead , ICP (ppm)	12	12	917.5	117.5	923.2		120.0	43.32	13.00%		53.65	5.72%
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9:3 HN...	5	5	964.0	81.29	964.0		81.29	45.44	8.43%		73.36	5.69%
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	2	2	1,021	193.0								
251.99	Acid Soluble Lead , Other (ppm)	4	4	643.0	383.9	643.0		383.9	240.0	59.71%		15.12	6.05%
261.12	Acid Soluble Manganese , AA, inorganic 965.09 (0.16%)	4	4	0.1579	0.0279	0.1579	0.0208	0.0279	0.0174	17.65%	3.12	0.0181	5.28%
261.30	Acid Soluble Manganese , ICP, test portion 972.02a...	8	8	0.1711	0.0077	0.1696	0.0220	0.0045	0.0020	2.64%	0.47	0.0074	5.22%
261.31	Acid Soluble Manganese , ICP, test portion 972.02b...	6	6	0.1618	0.0160	0.1612	0.0211	0.0167	0.0085	10.37%	1.84	0.0047	5.26%

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261.32	Acid Soluble Manganese , ICP, test portion inorgan...	5	5	0.1628	0.0049	0.1628	0.0213	0.0049	0.0027	2.98%	0.53	0.0072	5.26%
261.34	Acid Soluble Manganese , ICP, test portion 2006.03...	5	5	0.1643	0.0133	0.1643	0.0214	0.0133	0.0074	8.07%	1.44	0.0052	5.25%
261.35	Acid Soluble Manganese , ICP, test portion 2006.03...	12	11	0.1599	0.0086	0.1599	0.0210	0.0097	0.0036	6.04%	1.07	0.0052	5.27%
261.99	Acid Soluble Manganese , Other (0.16%)	12	11	0.1435	0.0499	0.1538	0.0204	0.0247	0.0093	16.06%	2.82	0.0066	5.30%
271.00	Water Soluble Manganese , AA (%)	3	3	0.0434	0.0494	0.0434		0.0494	0.0356	113.88%		0.0070	6.41%
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	2	2	0.1518	0.2026								
271.99	Water Soluble Manganese , Other (%)	1		0.0051									
281.00	Acid Soluble Mercury , AA (ppm)	1		40.00									
281.30	Acid Soluble Mercury , ICP (ppm)	4	4	46.20	23.78	46.20		23.78	14.86	51.46%		2.595	8.98%
281.99	Acid Soluble Mercury , Other (ppm)	2	2	31.02	20.32								
289.30	Acid Soluble Molybdenum , ICP (50ppm)	12	11	693.3	337.4	796.1	239.8440	137.5	51.82	17.27%	1.34	12.87	5.85%
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (50ppm)	2	2	886.5	68.59								
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modified w/...	9	8	852.3	90.56	869.4	261.8233	56.77	25.09	6.53%	0.51	31.37	5.78%
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010C (5...	2	2	718.7	48.54								
289.99	Acid Soluble Molybdenum , Other (50ppm)	4	4	789.3	628.6	789.3	237.7819	628.6	392.9	79.65%	6.16	14.61	5.86%
291.00	Acid Soluble Nickel , AA, test portion as in 2006.... (pp	2	2	17.46	2.765								
291.30	Acid Soluble Nickel , ICP (ppm)	12	11	12.68	2.495	12.68		2.830	1.066	22.32%		0.8348	10.92%
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w/9:3 ... (p	5	5	15.65	1.194	15.65		1.194	0.6677	7.63%		2.275	10.57%
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	2	2	13.17	0.6675								
291.99	Acid Soluble Nickel , Other (ppm)	5	5	11.14	5.359	11.14		5.359	2.996	48.12%		0.9683	11.13%
301.30	Acid Soluble Selenium , ICP (ppm)	4	4	258.3	101.4	258.3		101.4	63.36	39.25%		8.213	6.93%
301.33	Acid Soluble Selenium , ICP, 2006.03 modified w/9:...	5	5	333.2	13.74	333.2		13.74	7.682	4.12%		20.57	6.67%
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	2	2	287.4	2.322								
301.99	Acid Soluble Selenium , Other (ppm)	5	5	309.2	35.67	309.2		35.67	19.94	11.54%		27.34	6.75%
311.32	Sodium, ICP, 2006.03 test portion (%)	2	2	0.4233	0.0484								
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl test .	6	6	0.4660	0.0657	0.4660	0.0516	0.0745	0.0380	15.99%	3.37	0.0303	4.49%
311.99	Sodium, Other (%)	4	4	0.4800	0.0091	0.4800	0.0530	0.0091	0.0057	1.90%	0.40	0.0100	4.47%
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	10	9	0.1659	0.0274	0.1674	0.0217	0.0274	0.0114	16.35%	2.93	0.0074	5.23%
321.30	Acid Soluble Zinc , ICP, test portion inorganic 96... (0.1	20	20	0.1926	0.0189	0.1910	0.0241	0.0120	0.0034	6.29%	1.16	0.0082	5.13%
321.32	Acid Soluble Zinc , ICP, test portion 2006.03A-C ... (0.	5	5	0.2109	0.0511	0.2109	0.0261	0.0511	0.0285	24.21%	4.56	0.0104	5.06%
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, ... (0.	11	11	0.1954	0.0174	0.1953	0.0245	0.0195	0.0073	9.97%	1.85	0.0103	5.11%
321.99	Acid Soluble Zinc , Other (0.13%)	10	10	0.1427	0.0568	0.1516	0.0202	0.0400	0.0158	26.39%	4.62	0.0078	5.31%
325.00	Water Soluble Zinc , AA (%)	5	5	0.1618	0.2174	0.1618		0.2174	0.1215	134.31%		0.1830	5.26%
325.30	Water Soluble Zinc , ICP (%)	3	3	0.2032	0.2114	0.2032		0.2114	0.1525	104.04%		0.1108	5.08%

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

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Method Proficiency For All Labs (Lab Values)

Sample # 180211

Grade 14-14-14

Method Precision Report

Issue Date : 03/31/2018

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
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	11	10	13.41	0.5861	0.5840	0.0699	0.5881	4.36%	0.52%	4.39%	8.419
001.99	Ammoniacal Nitrogen, Other (%)	25	23	13.79	0.3491	0.3425	0.0952	0.3555	2.48%	0.69%	2.58%	3.736
010.60	Total Nitrogen, Combustion (14%)	61	56	13.84	0.1901	0.1795	0.0884	0.2001	1.30%	0.64%	1.45%	2.264
020.20	Total Phosphorus as P2O5, Spectrophotometric MolybdovanadoP (%)	18	17	14.73	0.3665	0.3614	0.0866	0.3716	2.45%	0.59%	2.52%	4.293
020.50	Total Phosphorus as P2O5, ICP (%)	25	22	14.73	0.7373	0.7294	0.1527	0.7452	4.95%	1.04%	5.06%	4.881
041.51	Direct Available Phosphorus as P2O5, ICP, Citrate-EDTA Ext. (14%)	11	9	14.42	0.3063	0.2949	0.1170	0.3172	2.04%	0.81%	2.20%	2.711
041.60	Direct Available Phosphorus as P2O5, Citrate-EDTA Ext. (14%)	13	12	14.41	0.4275	0.4234	0.0836	0.4316	2.94%	0.58%	2.99%	5.162
041.99	Direct Available Phosphorus as P2O5, Other (14%)	13	12	14.17	0.1447	0.1235	0.1066	0.1631	0.87%	0.75%	1.15%	1.530
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	11	11	14.48	0.3763	0.3751	0.0433	0.3776	2.59%	0.30%	2.61%	8.714
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	12	10	14.44	0.4620	0.4443	0.1792	0.4790	3.08%	1.24%	3.32%	2.674
050.99	Soluble Potassium as K2O, Other (14%)	40	35	14.46	0.4783	0.4712	0.1161	0.4853	3.26%	0.80%	3.36%	4.182
121.30	Acid Soluble Magnesium, ICP, test portion inorganic 965.09 (1%)	19	16	0.5677	0.0279	0.0270	0.0101	0.0288	4.76%	1.78%	5.08%	2.851
121.33	Acid Soluble Magnesium, ICP, test portion 2006.03A-C, w/dual acid (1%)	10	8	0.5832	0.0229	0.0223	0.0076	0.0235	3.82%	1.31%	4.03%	3.083
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulfur - sulfate form (%)	9	8	10.60	0.2619	0.2556	0.0810	0.2681	2.41%	0.76%	2.53%	3.309
148.01	Total Sulfur, Gravimetric - sulfate and elemental (7.75%)	12	11	10.49	0.2118	0.2096	0.0432	0.2140	2.00%	0.41%	2.04%	4.957
148.07	Total Sulfur, ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl (7.75%)	16	14	10.39	0.9781	0.9552	0.2975	1.000	9.19%	2.86%	9.63%	3.363
148.99	Total Sulfur, Other (7.75%)	11	10	10.34	0.5329	0.5262	0.1197	0.5396	5.09%	1.16%	5.22%	4.509
151.30	Acid Soluble Arsenic , ICP (ppm)	9	8	156.9	15.73	15.40	4.556	16.06	9.82%	2.90%	10.24%	3.525
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	13	12	0.2017	0.0183	0.0166	0.0110	0.0199	8.21%	5.47%	9.87%	1.804
165.30	Acid Soluble Boron , ICP, test portion in 982.01 (0.2%)	14	13	0.2101	0.0141	0.0139	0.0033	0.0143	6.62%	1.59%	6.80%	4.290
165.99	Acid Soluble Boron , Other (0.2%)	20	19	0.2072	0.0210	0.0207	0.0044	0.0212	10.01%	2.13%	10.23%	4.813
181.30	Acid Soluble Cadmium , ICP (ppm)	11	10	191.1	14.51	13.36	7.983	15.57	6.99%	4.18%	8.15%	1.950
221.30	Acid Soluble Copper , ICP, test portion inorganic 965.09 (0.06%)	19	17	0.1351	0.0249	0.0243	0.0076	0.0255	18.00%	5.60%	18.85%	3.363
221.33	Acid Soluble Copper , ICP, test portion 2006.03A-C, w/dual acid (0.06%)	10	10	0.1302	0.0077	0.0068	0.0053	0.0086	5.19%	4.10%	6.61%	1.611
221.99	Acid Soluble Copper , Other (0.06%)	11	10	0.0851	0.0480	0.0478	0.0055	0.0481	56.18%	6.52%	56.56%	8.681
241.30	Acid Soluble Iron, ICP, test portion inorganic 965.09 (1%)	21	19	0.6525	0.1017	0.1014	0.0115	0.1020	15.54%	1.76%	15.64%	8.900
241.33	Acid Soluble Iron, ICP, test portion 2006.03A-C, w/dual acid (1%)	12	12	0.6869	0.0435	0.0407	0.0218	0.0462	5.93%	3.17%	6.72%	2.123
241.99	Acid Soluble Iron, Other (1%)	14	12	0.5111	0.2631	0.2630	0.0100	0.2632	51.46%	1.96%	51.49%	26.27
251.30	Acid Soluble Lead , ICP (ppm)	12	12	917.5	117.5	113.3	44.05	121.5	12.35%	4.80%	13.25%	2.759
261.35	Acid Soluble Manganese , ICP, test portion 2006.03A-C, w/dual acid (0.16%)	12	11	0.1599	0.0086	0.0079	0.0047	0.0092	4.97%	2.91%	5.75%	1.978

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
261.99	Acid Soluble Manganese , Other (0.16%)	12	9	0.1551	0.0184	0.0181	0.0044	0.0186	11.67%	2.82%	12.01%	4.250
289.30	Acid Soluble Molybdenum , ICP (50ppm)	12	11	693.3	337.4	337.2	15.56	337.5	48.63%	2.24%	48.69%	21.70
291.30	Acid Soluble Nickel , ICP (ppm)	12	10	12.28	2.244	2.207	0.5722	2.280	17.97%	4.66%	18.56%	3.985
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	10	9	0.1659	0.0274	0.0270	0.0064	0.0278	16.30%	3.83%	16.75%	4.367
321.30	Acid Soluble Zinc , ICP, test portion inorganic 965.09 (0.13%)	20	19	0.1897	0.0140	0.0129	0.0075	0.0150	6.82%	3.97%	7.89%	1.987
321.33	Acid Soluble Zinc , ICP, test portion 2006.03A-C, w/dual acid (0.13%)	11	10	0.1924	0.0150	0.0141	0.0070	0.0158	7.33%	3.65%	8.19%	2.242
321.99	Acid Soluble Zinc , Other (0.13%)	10	9	0.1583	0.0300	0.0295	0.0078	0.0305	18.64%	4.92%	19.27%	3.918

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: 149

Sample # 180211

Lab Values

Labs Reporting: 100

Grade 14-14-14

Issue Date : 03/31/2018

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 (%)	0117	12.14	0.1000	13.46	0.5385	0.0742	10	-2.28	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0309	12.68	0.1400	13.46	0.5385	0.0742	10	-1.35	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0444	13.38	0.2200	13.46	0.5385	0.0742	10	-0.14	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0177	13.42	0.0022	13.46	0.5385	0.0742	10	-0.07	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0486	13.44	0.0500	13.46	0.5385	0.0742	10	-0.04	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0169	13.52	0.0000	13.46	0.5385	0.0742	10	0.10	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0451	13.67	0.0900	13.46	0.5385	0.0742	10	0.36	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0531	13.91	0.0100	13.46	0.5385	0.0742	10	0.77	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0536	13.96	0.0800	13.46	0.5385	0.0742	10	0.86	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0535	13.98	0.0500	13.46	0.5385	0.0742	10	0.89	NA	0
001.10	Ammoniacal Nitrogen, Magnesium Oxide Method (%)	0230	14.40	1.000	13.46	0.5385	0.0742	10	1.62	NA	1
001.99	Ammoniacal Nitrogen, Other (%)	0368	13.06	0.1000	13.81	0.3620	0.0966	24	-2.07	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0524	13.24	0.1100	13.81	0.3620	0.0966	24	-1.59	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0544	13.39	0.0100	13.81	0.3620	0.0966	24	-1.18	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0546	13.42	0.0900	13.81	0.3620	0.0966	24	-1.09	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0027	13.53	0.2500	13.81	0.3620	0.0966	24	-0.79	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0394	13.54	0.2190	13.81	0.3620	0.0966	24	-0.75	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0255	13.63	0.2900	13.81	0.3620	0.0966	24	-0.51	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0405	13.66	0.0500	13.81	0.3620	0.0966	24	-0.43	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0096	13.69	0.1500	13.81	0.3620	0.0966	24	-0.35	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0416	13.70	0.0100	13.81	0.3620	0.0966	24	-0.32	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0533	13.72	0.1200	13.81	0.3620	0.0966	24	-0.25	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0522	13.78	0.0400	13.81	0.3620	0.0966	24	-0.08	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0541	13.83	0.3200	13.81	0.3620	0.0966	24	0.05	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0531	13.93	0.0200	13.81	0.3620	0.0966	24	0.33	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0538	13.93	0.0400	13.81	0.3620	0.0966	24	0.33	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0536	13.97	0.0600	13.81	0.3620	0.0966	24	0.44	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0550	13.98	0.0100	13.81	0.3620	0.0966	24	0.45	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0537	14.01	0.1300	13.81	0.3620	0.0966	24	0.54	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0535	14.02	0.0600	13.81	0.3620	0.0966	24	0.58	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0539	14.08	0.0500	13.81	0.3620	0.0966	24	0.73	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0519	14.21	0.0100	13.81	0.3620	0.0966	24	1.09	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0532	14.25	0.1300	13.81	0.3620	0.0966	24	1.20	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				
001.99	Ammoniacal Nitrogen, Other (%)	0545	14.61	0.0500	13.81	0.3620	0.0966	24	2.19	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0506	14.90	0.0000	13.81	0.3620	0.0966	24	3.01	NA	0
001.99	Ammoniacal Nitrogen, Other (%)	0511	7.690	0.0000	13.81	0.3620	0.0966	24	-16.91	NA	2
002.99	Nitrate Nitrogen, Other (%)	0511	0.0500	0.0000				1			0
003.10	Water Insoluble Nitrogen, Method I (%)	0511	0.0000	0.0000				0			4
010.10	Total Nitrogen, Reduced Iron (14%)	0452	14.00	0.1000				1			0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0309	12.44	0.2100	13.86	0.2866	0.0850	6	-4.43	Low	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0105	13.74	0.0200	13.86	0.2866	0.0850	6	-0.37	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0549	13.89	0.0300	13.86	0.2866	0.0850	6	0.08	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0531	13.92	0.0100	13.86	0.2866	0.0850	6	0.17	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0114	14.04	0.1400	13.86	0.2866	0.0850	6	0.56	OK	0
010.11	Total Nitrogen, Modified Comprehensive (14%)	0535	14.15	0.1000	13.86	0.2866	0.0850	6	0.90	OK	0
010.12	Total Nitrogen, Salicylic (14%)	0117	13.00	0.2000				2			0
010.12	Total Nitrogen, Salicylic (14%)	0397	13.67	0.1370				2			0
010.60	Total Nitrogen, Combustion (14%)	0521	13.31	0.0000	13.83	0.1696	0.1101	60	-3.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0027	13.45	0.4000	13.83	0.1696	0.1101	60	-2.26	OK	0
010.60	Total Nitrogen, Combustion (14%)	0029	13.46	0.0500	13.83	0.1696	0.1101	60	-2.23	OK	0
010.60	Total Nitrogen, Combustion (14%)	0421	13.52	0.1900	13.83	0.1696	0.1101	60	-1.88	OK	0
010.60	Total Nitrogen, Combustion (14%)	0041	13.59	0.0800	13.83	0.1696	0.1101	60	-1.43	OK	0
010.60	Total Nitrogen, Combustion (14%)	0043	13.61	0.0700	13.83	0.1696	0.1101	60	-1.35	OK	0
010.60	Total Nitrogen, Combustion (14%)	0034	13.62	0.0900	13.83	0.1696	0.1101	60	-1.29	OK	0
010.60	Total Nitrogen, Combustion (14%)	0157	13.65	0.1000	13.83	0.1696	0.1101	60	-1.08	OK	0
010.60	Total Nitrogen, Combustion (14%)	0368	13.67	0.2230	13.83	0.1696	0.1101	60	-0.94	OK	0
010.60	Total Nitrogen, Combustion (14%)	0389	13.69	0.0100	13.83	0.1696	0.1101	60	-0.87	OK	0
010.60	Total Nitrogen, Combustion (14%)	0055	13.69	0.5400	13.83	0.1696	0.1101	60	-0.84	OK	0
010.60	Total Nitrogen, Combustion (14%)	0095	13.69	0.0400	13.83	0.1696	0.1101	60	-0.84	OK	0
010.60	Total Nitrogen, Combustion (14%)	0543	13.71	0.0240	13.83	0.1696	0.1101	60	-0.73	OK	0
010.60	Total Nitrogen, Combustion (14%)	0231	13.72	0.0600	13.83	0.1696	0.1101	60	-0.67	OK	0
010.60	Total Nitrogen, Combustion (14%)	0177	13.74	0.0300	13.83	0.1696	0.1101	60	-0.58	OK	0
010.60	Total Nitrogen, Combustion (14%)	0007	13.75	0.1000	13.83	0.1696	0.1101	60	-0.49	OK	0
010.60	Total Nitrogen, Combustion (14%)	0482	13.75	0.1000	13.83	0.1696	0.1101	60	-0.49	OK	0
010.60	Total Nitrogen, Combustion (14%)	0102	13.76	0.0500	13.83	0.1696	0.1101	60	-0.46	OK	0
010.60	Total Nitrogen, Combustion (14%)	0105	13.76	0.0100	13.83	0.1696	0.1101	60	-0.46	OK	0
010.60	Total Nitrogen, Combustion (14%)	0451	13.77	0.0200	13.83	0.1696	0.1101	60	-0.37	OK	0
010.60	Total Nitrogen, Combustion (14%)	0472	13.78	0.0700	13.83	0.1696	0.1101	60	-0.34	OK	0
010.60	Total Nitrogen, Combustion (14%)	0049	13.78	0.0800	13.83	0.1696	0.1101	60	-0.31	OK	0
010.60	Total Nitrogen, Combustion (14%)	0073	13.79	0.0100	13.83	0.1696	0.1101	60	-0.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0483	13.79	0.0000	13.83	0.1696	0.1101	60	-0.26	OK	0
010.60	Total Nitrogen, Combustion (14%)	0324	13.80	0.2000	13.83	0.1696	0.1101	60	-0.20	OK	0
010.60	Total Nitrogen, Combustion (14%)	0405	13.80	0.0200	13.83	0.1696	0.1101	60	-0.20	OK	0
010.60	Total Nitrogen, Combustion (14%)	0516	13.80	0.0000	13.83	0.1696	0.1101	60	-0.20	OK	0
010.60	Total Nitrogen, Combustion (14%)	0542	13.80	0.1380	13.83	0.1696	0.1101	60	-0.18	OK	0
010.60	Total Nitrogen, Combustion (14%)	0136	13.83	0.0100	13.83	0.1696	0.1101	60	-0.05	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 (14%)	0042	13.84	0.1900	13.83	0.1696	0.1101	60	0.01	OK	0
010.60	Total Nitrogen, Combustion (14%)	0360	13.84	0.0500	13.83	0.1696	0.1101	60	0.01	OK	0
010.60	Total Nitrogen, Combustion (14%)	0096	13.84	0.0200	13.83	0.1696	0.1101	60	0.04	OK	0
010.60	Total Nitrogen, Combustion (14%)	0234	13.84	0.0400	13.83	0.1696	0.1101	60	0.04	OK	0
010.60	Total Nitrogen, Combustion (14%)	0547	13.84	0.0600	13.83	0.1696	0.1101	60	0.04	OK	0
010.60	Total Nitrogen, Combustion (14%)	0325	13.85	0.3000	13.83	0.1696	0.1101	60	0.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0040	13.85	0.1000	13.83	0.1696	0.1101	60	0.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0230	13.85	0.1000	13.83	0.1696	0.1101	60	0.10	OK	0
010.60	Total Nitrogen, Combustion (14%)	0390	13.86	0.0000	13.83	0.1696	0.1101	60	0.16	OK	0
010.60	Total Nitrogen, Combustion (14%)	0356	13.88	0.1800	13.83	0.1696	0.1101	60	0.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0037	13.88	0.1700	13.83	0.1696	0.1101	60	0.29	OK	0
010.60	Total Nitrogen, Combustion (14%)	0292	13.89	0.0300	13.83	0.1696	0.1101	60	0.30	OK	0
010.60	Total Nitrogen, Combustion (14%)	0494	13.89	0.1300	13.83	0.1696	0.1101	60	0.30	OK	0
010.60	Total Nitrogen, Combustion (14%)	0035	13.89	0.2400	13.83	0.1696	0.1101	60	0.33	OK	0
010.60	Total Nitrogen, Combustion (14%)	0377	13.90	0.0400	13.83	0.1696	0.1101	60	0.39	OK	0
010.60	Total Nitrogen, Combustion (14%)	0523	13.90	0.0000	13.83	0.1696	0.1101	60	0.39	OK	0
010.60	Total Nitrogen, Combustion (14%)	0423	13.94	0.0100	13.83	0.1696	0.1101	60	0.60	OK	0
010.60	Total Nitrogen, Combustion (14%)	0501	13.95	0.0700	13.83	0.1696	0.1101	60	0.66	OK	0
010.60	Total Nitrogen, Combustion (14%)	0307	13.97	0.0600	13.83	0.1696	0.1101	60	0.81	OK	0
010.60	Total Nitrogen, Combustion (14%)	0025	13.99	0.0700	13.83	0.1696	0.1101	60	0.89	OK	0
010.60	Total Nitrogen, Combustion (14%)	0527	13.99	0.0320	13.83	0.1696	0.1101	60	0.90	OK	0
010.60	Total Nitrogen, Combustion (14%)	0291	14.00	0.0100	13.83	0.1696	0.1101	60	0.95	OK	0
010.60	Total Nitrogen, Combustion (14%)	0185	14.05	0.1800	13.83	0.1696	0.1101	60	1.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0485	14.08	0.4546	13.83	0.1696	0.1101	60	1.44	OK	0
010.60	Total Nitrogen, Combustion (14%)	0354	14.15	0.1000	13.83	0.1696	0.1101	60	1.87	OK	0
010.60	Total Nitrogen, Combustion (14%)	0534	14.20	0.0900	13.83	0.1696	0.1101	60	2.13	OK	0
010.60	Total Nitrogen, Combustion (14%)	0550	14.22	0.1300	13.83	0.1696	0.1101	60	2.25	OK	0
010.60	Total Nitrogen, Combustion (14%)	0511	14.22	0.0000	13.83	0.1696	0.1101	60	2.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0402	14.32	0.3200	13.83	0.1696	0.1101	60	2.87	OK	0
010.60	Total Nitrogen, Combustion (14%)	0443	14.39	0.1400	13.83	0.1696	0.1101	60	3.28	OK	0
010.60	Total Nitrogen, Combustion (14%)	0255	14.47	0.5740	13.83	0.1696	0.1101	60	3.74	High	0
010.60	Total Nitrogen, Combustion (14%)	0023	14.48	0.7470	13.83	0.1696	0.1101	60	3.82	High	1
010.99	Total Nitrogen, Other (14%)	0493	13.40	0.1000	14.07	0.5165	0.1316	7	-1.17	Low	0
010.99	Total Nitrogen, Other (14%)	0300	13.70	0.0100	14.07	0.5165	0.1316	7	-0.65	OK	0
010.99	Total Nitrogen, Other (14%)	0524	13.90	0.0200	14.07	0.5165	0.1316	7	-0.29	OK	0
010.99	Total Nitrogen, Other (14%)	0518	14.07	0.2600	14.07	0.5165	0.1316	7	0.00	OK	0
010.99	Total Nitrogen, Other (14%)	0519	14.17	0.1000	14.07	0.5165	0.1316	7	0.18	OK	0
010.99	Total Nitrogen, Other (14%)	0476	14.54	0.0309	14.07	0.5165	0.1316	7	0.82	OK	0
010.99	Total Nitrogen, Other (14%)	0506	14.70	0.4000	14.07	0.5165	0.1316	7	1.11	High	0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0444	14.35	0.0500	14.67	0.2507	0.1050	4	-1.30		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0105	14.64	0.2200	14.67	0.2507	0.1050	4	-0.12		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0493	14.75	0.1000	14.67	0.2507	0.1050	4	0.32		0
020.10	Total Phosphorus as P2O5, Gravimetric Quinoli... (%)	0114	14.95	0.0500	14.67	0.2507	0.1050	4	1.10		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0476	13.98	0.2246	14.74	0.3790	0.1181	18	-2.01	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0534	14.21	0.1200	14.74	0.3790	0.1181	18	-1.41	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0027	14.39	0.0300	14.74	0.3790	0.1181	18	-0.95	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0415	14.40	0.0045	14.74	0.3790	0.1181	18	-0.90	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0550	14.48	0.1000	14.74	0.3790	0.1181	18	-0.70	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0547	14.55	0.1000	14.74	0.3790	0.1181	18	-0.51	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0169	14.70	0.0400	14.74	0.3790	0.1181	18	-0.11	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0356	14.71	0.1700	14.74	0.3790	0.1181	18	-0.10	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0231	14.74	0.0400	14.74	0.3790	0.1181	18	-0.01	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0324	14.80	0.4000	14.74	0.3790	0.1181	18	0.15	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0292	14.81	0.0700	14.74	0.3790	0.1181	18	0.16	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0516	14.81	0.1300	14.74	0.3790	0.1181	18	0.16	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0394	14.89	0.0860	14.74	0.3790	0.1181	18	0.38	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0300	14.96	0.1200	14.74	0.3790	0.1181	18	0.57	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0522	15.02	0.1500	14.74	0.3790	0.1181	18	0.72	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0309	15.21	0.0400	14.74	0.3790	0.1181	18	1.23	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0541	15.24	0.2600	14.74	0.3790	0.1181	18	1.31	NA	0
020.20	Total Phosphorus as P2O5, Spectrophotometric ... (%)	0416	15.31	0.0400	14.74	0.3790	0.1181	18	1.49	NA	0
020.40	Total Phosphorus as P2O5, Automated (%)	0096	14.44	0.0000	14.66	0.2338	0.1367	3	-0.93		0
020.40	Total Phosphorus as P2O5, Automated (%)	0105	14.63	0.0800	14.66	0.2338	0.1367	3	-0.12		0
020.40	Total Phosphorus as P2O5, Automated (%)	0035	14.91	0.3300	14.66	0.2338	0.1367	3	1.06		0
020.50	Total Phosphorus as P2O5, ICP (%)	0389	13.68	0.2100	14.67	0.7249	0.1949	23	-1.37	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0521	13.68	0.0000	14.67	0.7249	0.1949	23	-1.36	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0472	13.83	0.0400	14.67	0.7249	0.1949	23	-1.16	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0501	14.01	0.0800	14.67	0.7249	0.1949	23	-0.91	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0542	14.03	0.3428	14.67	0.7249	0.1949	23	-0.88	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0523	14.10	0.2000	14.67	0.7249	0.1949	23	-0.79	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0527	14.13	0.0700	14.67	0.7249	0.1949	23	-0.75	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0444	14.26	0.0900	14.67	0.7249	0.1949	23	-0.57	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0234	14.41	0.6800	14.67	0.7249	0.1949	23	-0.36	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0421	14.50	0.2000	14.67	0.7249	0.1949	23	-0.23	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0291	14.68	0.0100	14.67	0.7249	0.1949	23	0.01	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0451	14.72	0.3400	14.67	0.7249	0.1949	23	0.07	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0042	14.74	0.3300	14.67	0.7249	0.1949	23	0.09	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0390	14.83	0.3200	14.67	0.7249	0.1949	23	0.22	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0482	14.85	0.1000	14.67	0.7249	0.1949	23	0.25	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0402	15.04	0.3000	14.67	0.7249	0.1949	23	0.51	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0546	15.12	0.0280	14.67	0.7249	0.1949	23	0.62	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0423	15.13	0.1500	14.67	0.7249	0.1949	23	0.63	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0511	15.28	0.0000	14.67	0.7249	0.1949	23	0.84	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0433	15.41	0.1000	14.67	0.7249	0.1949	23	1.02	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0368	15.50	0.4322	14.67	0.7249	0.1949	23	1.14	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0524	16.14	0.1604	14.67	0.7249	0.1949	23	2.03	NA	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
020.50	Total Phosphorus as P2O5, ICP (%)	0307	16.33	0.3000	14.67	0.7249	0.1949	23	2.29	NA	0
020.50	Total Phosphorus as P2O5, ICP (%)	0255	15.89	1.417	14.67	0.7249	0.1949	23	1.68	NA	1
020.50	Total Phosphorus as P2O5, ICP (%)	0483	15.92	1.450	14.67	0.7249	0.1949	23	1.72	NA	1
020.99	Total Phosphorus as P2O5, Other (%)	0515	13.83	2.946	15.35	1.943	1.005	3	-0.78		0
020.99	Total Phosphorus as P2O5, Other (%)	0455	14.69	0.0700	15.35	1.943	1.005	3	-0.34		0
020.99	Total Phosphorus as P2O5, Other (%)	0443	17.54	0.0000	15.35	1.943	1.005	3	1.13		0
030.20	Citrate Insoluble Phosphorus as P2O5, Spectro... (%)	0506	14.25	0.7000				1			0
030.40	Citrate Insoluble Phosphorus as P2O5, Automat... (%)	0096	0.0700	0.0600				1			0
040.20	Indirect Available Phosphorus as P2O5, Spectr... (14%)	0300	14.96	0.1200				1			0
040.40	Indirect Available Phosphorus as P2O5, Automa... (14%)	0096	14.38	0.0700				1			0
040.99	Indirect Available Phosphorus as P2O5, Other (14%)	0394	14.79	0.0910				1			0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0494	14.35	0.4100	14.54	0.1712	0.2595	5	-1.16		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0041	14.39	0.2900	14.54	0.1712	0.2595	5	-0.92		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0049	14.58	0.3600	14.54	0.1712	0.2595	5	0.21		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0055	14.69	0.0200	14.54	0.1712	0.2595	5	0.86		0
041.10	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0177	14.72	0.2173	14.54	0.1712	0.2595	5	1.01		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0522	14.16	0.0200	14.46	0.3709	0.1478	4	-0.81		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0185	14.22	0.2400	14.46	0.3709	0.1478	4	-0.64		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0105	14.48	0.2600	14.46	0.3709	0.1478	4	0.06		0
041.11	Direct Available Phosphorus as P2O5, Gravimet... (14%)	0485	14.97	0.0710	14.46	0.3709	0.1478	4	1.39		0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0535	14.25	0.1000				2			0
041.20	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0027	14.75	0.3000				2			0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0522	14.07	0.1000	14.45	0.3474	0.1210	4	-1.10		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0535	14.25	0.1000	14.45	0.3474	0.1210	4	-0.58		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0394	14.69	0.1540	14.45	0.3474	0.1210	4	0.69		0
041.21	Direct Available Phosphorus as P2O5, Spectrop... (14%)	0544	14.80	0.1300	14.45	0.3474	0.1210	4	0.99		0
041.50	Direct Available Phosphorus as P2O5, ICP (14%)	0325	14.45	0.1000	14.92	0.4813	0.0487	3	-0.97		0
041.50	Direct Available Phosphorus as P2O5, ICP (14%)	0452	14.89	0.0100	14.92	0.4813	0.0487	3	-0.06		0
041.50	Direct Available Phosphorus as P2O5, ICP (14%)	0368	15.41	0.0360	14.92	0.4813	0.0487	3	1.03		0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0423	12.98	0.2600	14.36	0.4084	0.1400	10	-3.13	Low	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0511	14.02	0.0000	14.36	0.4084	0.1400	10	-0.77	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0043	14.11	0.0300	14.36	0.4084	0.1400	10	-0.57	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0377	14.17	0.0400	14.36	0.4084	0.1400	10	-0.42	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0117	14.33	0.2700	14.36	0.4084	0.1400	10	-0.07	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0023	14.40	0.0300	14.36	0.4084	0.1400	10	0.09	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0040	14.50	0.2000	14.36	0.4084	0.1400	10	0.33	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0025	14.64	0.0700	14.36	0.4084	0.1400	10	0.63	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0360	14.73	0.2400	14.36	0.4084	0.1400	10	0.85	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0037	14.94	0.2600	14.36	0.4084	0.1400	10	1.33	OK	0
041.51	Direct Available Phosphorus as P2O5, ICP, Cit... (14%)	0494	14.51	0.8100	14.36	0.4084	0.1400	10	0.34	OK	1
041.60	Direct Available Phosphorus as P2O5, Citrate-... (14%)	0230	13.60	0.0000	14.45	0.3658	0.1230	13	-2.33	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (14%)	0472	13.64	0.0200	14.45	0.3658	0.1230	13	-2.22	Low	0
041.60	Direct Available Phosphorus as P2O5, Citrate-... (14%)	0397	14.18	0.2170	14.45	0.3658	0.1230	13	-0.75	OK	0

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041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0354	14.35	0.1000	14.45	0.3658	0.1230	13	-0.28	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0073	14.37	0.4300	14.45	0.3658	0.1230	13	-0.24	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0055	14.46	0.2000	14.45	0.3658	0.1230	13	0.02	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0177	14.50	0.0124	14.45	0.3658	0.1230	13	0.14	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0105	14.52	0.1400	14.45	0.3658	0.1230	13	0.19	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0486	14.55	0.1000	14.45	0.3658	0.1230	13	0.27	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0231	14.59	0.0800	14.45	0.3658	0.1230	13	0.38	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0029	14.74	0.1400	14.45	0.3658	0.1230	13	0.79	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0034	14.82	0.0490	14.45	0.3658	0.1230	13	1.00	OK	0
041.60	Direct Available Phosphorus as P2O5, Citrate... (14%)	0136	15.01	0.1100	14.45	0.3658	0.1230	13	1.51	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0519	13.91	0.0200	14.19	0.1799	0.1185	13	-1.58	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0539	14.00	0.0400	14.19	0.1799	0.1185	13	-1.08	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0526	14.03	0.0000	14.19	0.1799	0.1185	13	-0.91	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0532	14.07	0.1900	14.19	0.1799	0.1185	13	-0.72	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0531	14.14	0.0600	14.19	0.1799	0.1185	13	-0.30	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0549	14.18	0.0500	14.19	0.1799	0.1185	13	-0.11	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0518	14.20	0.2000	14.19	0.1799	0.1185	13	0.03	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0535	14.25	0.1000	14.19	0.1799	0.1185	13	0.31	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0538	14.25	0.2000	14.19	0.1799	0.1185	13	0.31	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0533	14.34	0.2700	14.19	0.1799	0.1185	13	0.78	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0537	14.34	0.2000	14.19	0.1799	0.1185	13	0.81	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0536	14.35	0.1600	14.19	0.1799	0.1185	13	0.87	OK	0
041.99	Direct Available Phosphorus as P2O5, Other (14%)	0545	14.73	0.0500	14.19	0.1799	0.1185	13	2.95	OK	0
048.10	Water Soluble Phosphorus as P2O5, Gravimetric... (%)	0444	13.13	0.1700				1			0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0309	13.22	0.0400				2			0
048.20	Water Soluble Phosphorus as P2O5, Spectrophot... (%)	0522	13.51	0.2200				2			0
048.40	Water Soluble Phosphorus as P2O5, Automated (%)	0096	13.09	0.1900				1			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0444	13.07	0.1100				2			0
048.50	Water Soluble Phosphorus as P2O5, ICP (%)	0543	13.84	1.133				2			0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0114	13.74	0.1100	14.52	0.3421	0.0500	11	-2.14	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0522	13.86	0.1100	14.52	0.3421	0.0500	11	-1.81	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0544	14.46	0.0200	14.52	0.3421	0.0500	11	-0.15	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0416	14.47	0.0500	14.52	0.3421	0.0500	11	-0.14	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0405	14.50	0.0500	14.52	0.3421	0.0500	11	-0.06	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0231	14.57	0.0500	14.52	0.3421	0.0500	11	0.13	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0220	14.58	0.0100	14.52	0.3421	0.0500	11	0.16	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0055	14.61	0.0800	14.52	0.3421	0.0500	11	0.26	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0550	14.66	0.0500	14.52	0.3421	0.0500	11	0.38	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0049	14.86	0.0100	14.52	0.3421	0.0500	11	0.93	OK	0
050.00	Soluble Potassium as K2O, STPB Oxalate (14%)	0494	15.00	0.0100	14.52	0.3421	0.0500	11	1.31	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0040	14.00	0.0000	14.62	0.6853	0.1683	7	-0.82	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0309	14.06	0.3300	14.62	0.6853	0.1683	7	-0.74	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0136	14.32	0.0800	14.62	0.6853	0.1683	7	-0.39	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				
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0356	14.33	0.1200	14.62	0.6853	0.1683	7	-0.38	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0157	14.95	0.1000	14.62	0.6853	0.1683	7	0.44	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0415	15.05	0.0483	14.62	0.6853	0.1683	7	0.57	OK	0
050.30	Soluble Potassium as K2O, AA (Oxalate) (14%)	0073	15.63	0.5000	14.62	0.6853	0.1683	7	1.33	High	0
050.31	Soluble Potassium as K2O, AA (Citrate) (14%)	0472	10.50	0.7900				1			0
050.32	Soluble Potassium as K2O, AA (Citrate-EDTA) (14%)	0185	15.11	0.0500				1			0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0390	13.68	0.1500	14.31	0.3458	0.3665	6	-1.63	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0543	14.22	1.119	14.31	0.3458	0.3665	6	-0.24	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0292	14.23	0.0100	14.31	0.3458	0.3665	6	-0.22	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0055	14.44	0.2100	14.31	0.3458	0.3665	6	0.33	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0324	14.55	0.7000	14.31	0.3458	0.3665	6	0.62	OK	0
050.50	Soluble Potassium as K2O, ICP (Oxalate) (14%)	0444	14.64	0.0100	14.31	0.3458	0.3665	6	0.84	OK	0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0547	14.13	0.0500	15.01	0.9145	0.0140	5	-0.96		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0511	14.21	0.0000	15.01	0.9145	0.0140	5	-0.87		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0452	15.16	0.0100	15.01	0.9145	0.0140	5	0.16		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0291	15.17	0.0100	15.01	0.9145	0.0140	5	0.17		0
050.51	Soluble Potassium as K2O, ICP (Citrate) (14%)	0483	16.38	0.0000	15.01	0.9145	0.0140	5	1.50		0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0486	13.74	0.2300	14.52	0.5468	0.2558	12	-1.43	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0485	13.95	0.2200	14.52	0.5468	0.2558	12	-1.04	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0494	14.20	0.3800	14.52	0.5468	0.2558	12	-0.58	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0037	14.34	0.0600	14.52	0.5468	0.2558	12	-0.32	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0117	14.34	0.4800	14.52	0.5468	0.2558	12	-0.32	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0023	14.48	0.7900	14.52	0.5468	0.2558	12	-0.08	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0360	14.52	0.0700	14.52	0.5468	0.2558	12	0.00	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0043	14.54	0.0300	14.52	0.5468	0.2558	12	0.03	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0377	14.59	0.1300	14.52	0.5468	0.2558	12	0.13	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0354	14.85	0.1000	14.52	0.5468	0.2558	12	0.61	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0025	15.39	0.3600	14.52	0.5468	0.2558	12	1.60	OK	0
050.52	Soluble Potassium as K2O, ICP (Citrate-EDTA) (14%)	0423	18.24	0.2200	14.52	0.5468	0.2558	12	6.81	High	0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0105	14.34	0.0600	15.27	1.274	0.1420	5	-0.73		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0041	14.72	0.1600	15.27	1.274	0.1420	5	-0.43		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0169	14.74	0.1000	15.27	1.274	0.1420	5	-0.42		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0455	15.05	0.1000	15.27	1.274	0.1420	5	-0.17		0
050.60	Soluble Potassium as K2O, Flame Photometric ... (14%)	0443	17.51	0.2900	15.27	1.274	0.1420	5	1.75		0
050.61	Soluble Potassium as K2O, Flame Photometric ... (14%)	0535	14.55	0.1000				2			0
050.61	Soluble Potassium as K2O, Flame Photometric ... (14%)	0035	14.82	0.0200				2			0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0105	14.58	0.0500	14.74	0.2092	0.2818	4	-0.81		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0034	14.64	0.0270	14.74	0.2092	0.2818	4	-0.51		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0029	14.72	0.4200	14.74	0.2092	0.2818	4	-0.12		0
050.62	Soluble Potassium as K2O, Flame Photometric ... (14%)	0095	15.05	0.6300	14.74	0.2092	0.2818	4	1.44		0
050.99	Soluble Potassium as K2O, Other (14%)	0506	13.75	0.3000	14.52	0.5704	0.1755	39	-1.34	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0521	13.77	0.0000	14.52	0.5704	0.1755	39	-1.31	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0523	13.90	0.4000	14.52	0.5704	0.1755	39	-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				
050.99	Soluble Potassium as K2O, Other (14%)	0518	13.91	0.2100	14.52	0.5704	0.1755	39	-1.07	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0519	13.94	0.0700	14.52	0.5704	0.1755	39	-1.02	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0535	14.00	0.0000	14.52	0.5704	0.1755	39	-0.90	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0533	14.01	0.0800	14.52	0.5704	0.1755	39	-0.89	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0501	14.05	0.3000	14.52	0.5704	0.1755	39	-0.82	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0531	14.08	0.0500	14.52	0.5704	0.1755	39	-0.77	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0539	14.09	0.0300	14.52	0.5704	0.1755	39	-0.76	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0532	14.09	0.0400	14.52	0.5704	0.1755	39	-0.75	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0549	14.09	0.0200	14.52	0.5704	0.1755	39	-0.75	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0234	14.15	0.0900	14.52	0.5704	0.1755	39	-0.65	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0389	14.18	0.1100	14.52	0.5704	0.1755	39	-0.60	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0536	14.18	0.0500	14.52	0.5704	0.1755	39	-0.60	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0325	14.20	0.8000	14.52	0.5704	0.1755	39	-0.55	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0538	14.25	0.1000	14.52	0.5704	0.1755	39	-0.47	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0096	14.38	0.1200	14.52	0.5704	0.1755	39	-0.24	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0394	14.41	0.0020	14.52	0.5704	0.1755	39	-0.18	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0537	14.45	0.0500	14.52	0.5704	0.1755	39	-0.12	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0482	14.45	0.1000	14.52	0.5704	0.1755	39	-0.12	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0476	14.54	0.1937	14.52	0.5704	0.1755	39	0.05	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0545	14.66	0.0000	14.52	0.5704	0.1755	39	0.25	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0027	14.67	0.2600	14.52	0.5704	0.1755	39	0.27	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0433	14.74	0.0600	14.52	0.5704	0.1755	39	0.39	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0177	14.74	0.0668	14.52	0.5704	0.1755	39	0.40	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0493	14.75	0.1000	14.52	0.5704	0.1755	39	0.41	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0527	14.83	0.0700	14.52	0.5704	0.1755	39	0.54	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0402	14.89	0.0400	14.52	0.5704	0.1755	39	0.66	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0451	14.96	0.0900	14.52	0.5704	0.1755	39	0.77	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0421	15.05	0.3000	14.52	0.5704	0.1755	39	0.94	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0444	15.11	0.1200	14.52	0.5704	0.1755	39	1.04	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0255	15.14	0.9060	14.52	0.5704	0.1755	39	1.09	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0368	15.19	0.0717	14.52	0.5704	0.1755	39	1.18	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0300	15.21	0.1100	14.52	0.5704	0.1755	39	1.21	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0516	15.25	0.3750	14.52	0.5704	0.1755	39	1.28	OK	0
050.99	Soluble Potassium as K2O, Other (14%)	0546	15.49	0.2870	14.52	0.5704	0.1755	39	1.71	High	0
050.99	Soluble Potassium as K2O, Other (14%)	0042	15.83	0.8600	14.52	0.5704	0.1755	39	2.30	High	0
050.99	Soluble Potassium as K2O, Other (14%)	0524	16.05	0.0121	14.52	0.5704	0.1755	39	2.69	High	0
050.99	Soluble Potassium as K2O, Other (14%)	0541	15.61	1.940	14.52	0.5704	0.1755	39	1.92	High	1
060.00	Water (Free), Vacuum Oven (%)	0007	0.4850	0.2100	0.6723	0.1623	0.1183	3	-1.15		0
060.00	Water (Free), Vacuum Oven (%)	0416	0.7620	0.0250	0.6723	0.1623	0.1183	3	0.55		0
060.00	Water (Free), Vacuum Oven (%)	0096	0.7700	0.1200	0.6723	0.1623	0.1183	3	0.60		0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0518	1.985	0.2300				2			0
060.30	Water (Free), AFPC No. 2B (105°C oven for 2 h... (%)	0055	3.450	0.3000				2			0
060.99	Water (Free), Other (%)	0055	0.7200	0.4600				1			0

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			Value	Range	Rob Mean	Rob SD	R-bar				
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0472	0.2350	0.0100	0.3046	0.0451	0.0564	8	-1.41	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0482	0.2750	0.0100	0.3046	0.0451	0.0564	8	-0.60	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0511	0.2900	0.0000	0.3046	0.0451	0.0564	8	-0.30	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0096	0.2955	0.0190	0.3046	0.0451	0.0564	8	-0.18	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0354	0.3150	0.0100	0.3046	0.0451	0.0564	8	0.21	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0035	0.3235	0.0970	0.3046	0.0451	0.0564	8	0.38	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0324	0.3285	0.2170	0.3046	0.0451	0.0564	8	0.48	OK	0
101.30	Acid Soluble Calcium, ICP, test portion inorg... (%)	0483	0.5670	0.0880	0.3046	0.0451	0.0564	8	5.32	High	0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0521	0.2796	0.0000				2			0
101.32	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0423	0.4780	0.0240				2			0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0494	0.2810	0.0051	0.2990	0.0295	0.0042	3	-0.61		0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0117	0.2829	0.0014	0.2990	0.0295	0.0042	3	-0.54		0
101.33	Acid Soluble Calcium, ICP, test portion 2006.... (%)	0527	0.3330	0.0060	0.2990	0.0295	0.0042	3	1.15		0
101.99	Acid Soluble Calcium, Other (%)	0389	0.2600	0.0000				1			0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0516	0.5456	0.0180	0.6493	0.1154	0.0232	6	-0.80	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0040	0.5700	0.0000	0.6493	0.1154	0.0232	6	-0.61	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0029	0.6028	0.0311	0.6493	0.1154	0.0232	6	-0.36	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0169	0.6550	0.0300	0.6493	0.1154	0.0232	6	0.04	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0550	0.7000	0.0400	0.6493	0.1154	0.0232	6	0.39	OK	0
121.00	Acid Soluble Magnesium, AA, inorganic 965.09 (1%)	0309	0.9000	0.0200	0.6493	0.1154	0.0232	6	1.94	High	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0230	0.4490	0.0100	0.5688	0.0334	0.0103	18	-3.59	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0035	0.5015	0.0190	0.5688	0.0334	0.0103	18	-2.01	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0451	0.5280	0.0140	0.5688	0.0334	0.0103	18	-1.22	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0360	0.5355	0.0090	0.5688	0.0334	0.0103	18	-1.00	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0324	0.5565	0.0070	0.5688	0.0334	0.0103	18	-0.37	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0102	0.5626	0.0323	0.5688	0.0334	0.0103	18	-0.19	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0354	0.5650	0.0100	0.5688	0.0334	0.0103	18	-0.11	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0444	0.5650	0.0100	0.5688	0.0334	0.0103	18	-0.11	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0482	0.5650	0.0100	0.5688	0.0334	0.0103	18	-0.11	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0096	0.5700	0.0200	0.5688	0.0334	0.0103	18	0.04	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0433	0.5735	0.0010	0.5688	0.0334	0.0103	18	0.14	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0231	0.5800	0.0000	0.5688	0.0334	0.0103	18	0.34	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0390	0.5900	0.0020	0.5688	0.0334	0.0103	18	0.64	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0472	0.5900	0.0000	0.5688	0.0334	0.0103	18	0.64	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0511	0.5900	0.0000	0.5688	0.0334	0.0103	18	0.64	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0255	0.6005	0.0210	0.5688	0.0334	0.0103	18	0.95	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0234	0.6100	0.0200	0.5688	0.0334	0.0103	18	1.24	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0307	0.6950	0.0000	0.5688	0.0334	0.0103	18	3.78	OK	0
121.30	Acid Soluble Magnesium, ICP, test portion ino... (1%)	0483	0.7075	0.0530	0.5688	0.0334	0.0103	18	4.16	OK	1
121.31	Acid Soluble Magnesium, ICP, test portion org... (1%)	0220	0.6550	0.0300				1			0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0394	0.5325	0.0090	0.5669	0.0328	0.0024	5	-1.05		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0541	0.5400	0.0000	0.5669	0.0328	0.0024	5	-0.82		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0521	0.5624	0.0000	0.5669	0.0328	0.0024	5	-0.14		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... (1%)	0423	0.5895	0.0030	0.5669	0.0328	0.0024	5	0.69		0
121.32	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0043	0.6100	0.0000	0.5669	0.0328	0.0024	5	1.32		0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0486	0.4950	0.0100	0.5773	0.0315	0.0096	9	-2.41	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0023	0.5620	0.0040	0.5773	0.0315	0.0096	9	-0.45	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0177	0.5662	0.0112	0.5773	0.0315	0.0096	9	-0.33	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0494	0.5679	0.0100	0.5773	0.0315	0.0096	9	-0.28	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0055	0.5700	0.0200	0.5773	0.0315	0.0096	9	-0.21	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0421	0.5750	0.0100	0.5773	0.0315	0.0096	9	-0.07	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0117	0.5899	0.0093	0.5773	0.0315	0.0096	9	0.37	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0527	0.6120	0.0020	0.5773	0.0315	0.0096	9	1.01	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0546	0.6230	0.0100	0.5773	0.0315	0.0096	9	1.34	OK	0
121.33	Acid Soluble Magnesium, ICP, test portion 200... (1%)	0515	2.571	1.439	0.5773	0.0315	0.0096	9	58.35	High	2
121.99	Acid Soluble Magnesium, Other (1%)	0506	0.0500	0.0000	0.5451	0.1632	0.0109	7	-2.74	Low	0
121.99	Acid Soluble Magnesium, Other (1%)	0476	0.4549	0.0057	0.5451	0.1632	0.0109	7	-0.50	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0524	0.5400	0.0000	0.5451	0.1632	0.0109	7	-0.03	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0389	0.5570	0.0100	0.5451	0.1632	0.0109	7	0.07	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0368	0.5737	0.0206	0.5451	0.1632	0.0109	7	0.16	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0523	0.6000	0.0000	0.5451	0.1632	0.0109	7	0.30	OK	0
121.99	Acid Soluble Magnesium, Other (1%)	0519	0.8600	0.0400	0.5451	0.1632	0.0109	7	1.74	High	0
121.99	Acid Soluble Magnesium, Other (1%)	0515	1.033	0.1887	0.5451	0.1632	0.0109	7	2.71	High	1
131.00	Water Soluble Magnesium, AA (%)	0029	0.3363	0.0562				2			0
131.00	Water Soluble Magnesium, AA (%)	0550	0.3700	0.3400				2			0
131.30	Water Soluble Magnesium, ICP (%)	0394	0.1915	0.0070	0.3404	0.1509	0.0244	6	-0.88	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0231	0.2750	0.0100	0.3404	0.1509	0.0244	6	-0.39	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0117	0.2882	0.0203	0.3404	0.1509	0.0244	6	-0.31	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0444	0.3000	0.0600	0.3404	0.1509	0.0244	6	-0.24	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0027	0.4210	0.0360	0.3404	0.1509	0.0244	6	0.48	NA	0
131.30	Water Soluble Magnesium, ICP (%)	0543	0.6435	0.0130	0.3404	0.1509	0.0244	6	1.79	NA	0
131.99	Water Soluble Magnesium, Other (%)	0506	0.0500	0.0000				2			0
131.99	Water Soluble Magnesium, Other (%)	0220	0.4750	0.0100				2			0
143.00	Elemental Sulfur, Gravimetric Sulfur - carbon... (%)	0095	0.3650	0.0100				1			0
143.99	Elemental Sulfur, Other (%)	0472	9.500	0.0800	10.23	0.4839	0.1198	5	-1.51		0
143.99	Elemental Sulfur, Other (%)	0255	10.07	0.3990	10.23	0.4839	0.1198	5	-0.34		0
143.99	Elemental Sulfur, Other (%)	0390	10.28	0.0800	10.23	0.4839	0.1198	5	0.10		0
143.99	Elemental Sulfur, Other (%)	0291	10.58	0.0100	10.23	0.4839	0.1198	5	0.71		0
143.99	Elemental Sulfur, Other (%)	0389	10.74	0.0300	10.23	0.4839	0.1198	5	1.04		0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0444	10.14	0.0200	10.62	0.2607	0.1280	9	-1.71	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0544	10.45	0.0100	10.62	0.2607	0.1280	9	-0.63	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0522	10.48	0.0500	10.62	0.2607	0.1280	9	-0.52	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0095	10.49	0.0900	10.62	0.2607	0.1280	9	-0.49	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0511	10.68	0.0000	10.62	0.2607	0.1280	9	0.20	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0550	10.75	0.5000	10.62	0.2607	0.1280	9	0.45	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0043	10.77	0.1400	10.62	0.2607	0.1280	9	0.52	NA	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0027	10.78	0.2600	10.62	0.2607	0.1280	9	0.56	NA	0
145.00	Sulfate Sulfur, HCl soluble, Gravimetric Sulf... (%)	0397	10.99	0.0820	10.62	0.2607	0.1280	9	1.28	NA	0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0518	7.820	0.0400				2			0
145.99	Sulfate Sulfur, HCl soluble, Other (%)	0444	9.780	0.2600				2			0
148.00	Total Sulfur, Combustion (7.75%)	0157	10.40	0.0000	10.58	0.1882	0.1650	6	-0.85	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0451	10.45	0.1000	10.58	0.1882	0.1650	6	-0.62	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0025	10.54	0.0500	10.58	0.1882	0.1650	6	-0.22	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0029	10.58	0.2300	10.58	0.1882	0.1650	6	-0.03	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0049	10.66	0.3000	10.58	0.1882	0.1650	6	0.38	OK	0
148.00	Total Sulfur, Combustion (7.75%)	0136	10.92	0.3100	10.58	0.1882	0.1650	6	1.58	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0534	10.17	0.0300	10.49	0.2401	0.0464	11	-1.37	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0231	10.30	0.0000	10.49	0.2401	0.0464	11	-0.81	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0114	10.38	0.0100	10.49	0.2401	0.0464	11	-0.49	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0444	10.39	0.0200	10.49	0.2401	0.0464	11	-0.43	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0105	10.41	0.0100	10.49	0.2401	0.0464	11	-0.37	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0405	10.42	0.1200	10.49	0.2401	0.0464	11	-0.31	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0029	10.49	0.0600	10.49	0.2401	0.0464	11	-0.02	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0230	10.55	0.1000	10.49	0.2401	0.0464	11	0.23	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0476	10.67	0.0706	10.49	0.2401	0.0464	11	0.74	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0055	10.82	0.0100	10.49	0.2401	0.0464	11	1.34	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0095	10.85	0.0800	10.49	0.2401	0.0464	11	1.48	OK	0
148.01	Total Sulfur, Gravimetric - sulfate and elem... (7.75%)	0324	10.95	0.3000	10.49	0.2401	0.0464	11	1.90	OK	1
148.04	Total Sulfur, ICP, w/Br digestion (7.75%)	0419	10.43	0.0000				1			0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0102	7.996	0.4731	10.33	0.8335	0.3663	15	-2.79	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0023	9.099	1.695	10.33	0.8335	0.3663	15	-1.47	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0444	9.435	0.2100	10.33	0.8335	0.3663	15	-1.07	Low	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0394	10.01	0.1900	10.33	0.8335	0.3663	15	-0.38	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0117	10.15	0.0500	10.33	0.8335	0.3663	15	-0.22	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0494	10.30	0.7526	10.33	0.8335	0.3663	15	-0.03	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0177	10.38	0.1776	10.33	0.8335	0.3663	15	0.07	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0486	10.39	0.1500	10.33	0.8335	0.3663	15	0.07	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0037	10.39	0.0750	10.33	0.8335	0.3663	15	0.07	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0402	10.39	0.0800	10.33	0.8335	0.3663	15	0.08	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0292	10.41	0.0600	10.33	0.8335	0.3663	15	0.10	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0421	10.75	0.3000	10.33	0.8335	0.3663	15	0.51	OK	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0546	11.25	0.0060	10.33	0.8335	0.3663	15	1.11	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0483	11.30	1.200	10.33	0.8335	0.3663	15	1.17	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0527	12.36	0.0750	10.33	0.8335	0.3663	15	2.44	High	0
148.07	Total Sulfur, ICP, test portion as in 2006.03... (7.75%)	0515	8.339	3.090	10.33	0.8335	0.3663	15	-2.38	Low	1
148.99	Total Sulfur, Other (7.75%)	0523	9.250	0.1000	10.47	0.6122	0.1383	11	-1.86	Low	0
148.99	Total Sulfur, Other (7.75%)	0541	9.865	0.0100	10.47	0.6122	0.1383	11	-0.92	OK	0
148.99	Total Sulfur, Other (7.75%)	0506	9.980	0.2400	10.47	0.6122	0.1383	11	-0.74	OK	0
148.99	Total Sulfur, Other (7.75%)	0368	10.31	0.3813	10.47	0.6122	0.1383	11	-0.24	OK	0

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148.99	Total Sulfur, Other (7.75%)	0354	10.40	0.0000	10.47	0.6122	0.1383	11	-0.10	OK	0
148.99	Total Sulfur, Other (7.75%)	0040	10.50	0.2000	10.47	0.6122	0.1383	11	0.05	OK	0
148.99	Total Sulfur, Other (7.75%)	0096	10.52	0.1200	10.47	0.6122	0.1383	11	0.08	OK	0
148.99	Total Sulfur, Other (7.75%)	0433	10.63	0.0300	10.47	0.6122	0.1383	11	0.24	OK	0
148.99	Total Sulfur, Other (7.75%)	0482	10.95	0.1000	10.47	0.6122	0.1383	11	0.74	OK	0
148.99	Total Sulfur, Other (7.75%)	0220	11.05	0.0900	10.47	0.6122	0.1383	11	0.89	OK	0
148.99	Total Sulfur, Other (7.75%)	0307	12.87	0.2500	10.47	0.6122	0.1383	11	3.67	High	0
149.04	Sulfur - HNO3 soluble, ICP (%)	0519	7.860	0.0800	10.01	1.644	0.0375	4	-1.31		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0521	9.998	0.0000	10.01	1.644	0.0375	4	-0.01		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0423	10.33	0.0500	10.01	1.644	0.0375	4	0.19		0
149.04	Sulfur - HNO3 soluble, ICP (%)	0524	11.85	0.0200	10.01	1.644	0.0375	4	1.12		0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0550	89.50	3.270				2			0
151.00	Acid Soluble Arsenic , AA, test portion as in...	0136	145.0	4.000				2			0
151.30	Acid Soluble Arsenic , ICP (ppm)	0444	126.5	3.000	159.2	13.77	7.712	9	-2.19	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0394	141.3	3.200	159.2	13.77	7.712	9	-1.20	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0368	155.0	10.00	159.2	13.77	7.712	9	-0.28	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0096	161.7	7.300	159.2	13.77	7.712	9	0.16	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0255	161.9	3.681	159.2	13.77	7.712	9	0.18	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0389	164.9	0.1400	159.2	13.77	7.712	9	0.38	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0541	166.0	30.00	159.2	13.77	7.712	9	0.45	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0511	170.0	0.0000	159.2	13.77	7.712	9	0.72	NA	0
151.30	Acid Soluble Arsenic , ICP (ppm)	0102	173.6	12.08	159.2	13.77	7.712	9	0.96	NA	0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0515	154.4	9.017	170.0	9.408	6.345	5	-1.66		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0527	170.4	0.5060	170.0	9.408	6.345	5	0.04		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0117	172.7	6.000	170.0	9.408	6.345	5	0.28		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0037	172.8	8.634	170.0	9.408	6.345	5	0.30		0
151.33	Acid Soluble Arsenic , ICP, 2006.03 modified ... (ppm)	0494	179.8	7.566	170.0	9.408	6.345	5	1.04		0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0230	149.0	36.00				2			0
151.34	Acid Soluble Arsenic , ICP, EPA 3050B/6010C (ppm)	0515	149.2	5.280				2			0
151.99	Acid Soluble Arsenic , Other (ppm)	0476	45.43	0.3364	120.4	65.64	4.329	3	-1.14		0
151.99	Acid Soluble Arsenic , Other (ppm)	0220	148.0	12.00	120.4	65.64	4.329	3	0.42		0
151.99	Acid Soluble Arsenic , Other (ppm)	0519	167.7	0.6500	120.4	65.64	4.329	3	0.72		0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0537	0.1025	0.0030	0.1977	0.0184	0.0122	13	-5.17	Low	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0309	0.1750	0.0100	0.1977	0.0184	0.0122	13	-1.23	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0029	0.1870	0.0020	0.1977	0.0184	0.0122	13	-0.58	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0397	0.1880	0.0042	0.1977	0.0184	0.0122	13	-0.53	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0506	0.1950	0.0100	0.1977	0.0184	0.0122	13	-0.15	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0539	0.1950	0.0300	0.1977	0.0184	0.0122	13	-0.15	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0055	0.1960	0.0100	0.1977	0.0184	0.0122	13	-0.09	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0531	0.2000	0.0200	0.1977	0.0184	0.0122	13	0.12	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0169	0.2040	0.0100	0.1977	0.0184	0.0122	13	0.34	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0220	0.2050	0.0100	0.1977	0.0184	0.0122	13	0.40	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0535	0.2050	0.0100	0.1977	0.0184	0.0122	13	0.40	OK	0

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165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0550	0.2250	0.0100	0.1977	0.0184	0.0122	13	1.48	OK	0
165.00	Acid Soluble Boron , Spectrophotometric (0.2%)	0534	0.2450	0.0300	0.1977	0.0184	0.0122	13	2.57	High	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0324	0.1860	0.0000	0.2095	0.0128	0.0028	13	-1.84	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0521	0.1897	0.0000	0.2095	0.0128	0.0028	13	-1.55	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0394	0.2032	0.0033	0.2095	0.0128	0.0028	13	-0.50	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0234	0.2050	0.0100	0.2095	0.0128	0.0028	13	-0.35	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0040	0.2075	0.0010	0.2095	0.0128	0.0028	13	-0.16	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0023	0.2090	0.0000	0.2095	0.0128	0.0028	13	-0.04	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0389	0.2097	0.0018	0.2095	0.0128	0.0028	13	0.01	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0354	0.2100	0.0000	0.2095	0.0128	0.0028	13	0.04	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0444	0.2100	0.0000	0.2095	0.0128	0.0028	13	0.04	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0390	0.2176	0.0069	0.2095	0.0128	0.0028	13	0.63	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0494	0.2186	0.0010	0.2095	0.0128	0.0028	13	0.71	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0433	0.2240	0.0020	0.2095	0.0128	0.0028	13	1.13	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0307	0.2415	0.0110	0.2095	0.0128	0.0028	13	2.50	OK	0
165.30	Acid Soluble Boron , ICP, test portion in 982... (0.2%)	0136	0.2100	0.0200	0.2095	0.0128	0.0028	13	0.04	OK	1
165.99	Acid Soluble Boron , Other (0.2%)	0230	0.1655	0.0030	0.2075	0.0196	0.0041	19	-2.14	Low	0
165.99	Acid Soluble Boron , Other (0.2%)	0476	0.1698	0.0007	0.2075	0.0196	0.0041	19	-1.92	Low	0
165.99	Acid Soluble Boron , Other (0.2%)	0524	0.1850	0.0100	0.2075	0.0196	0.0041	19	-1.15	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0486	0.1900	0.0000	0.2075	0.0196	0.0041	19	-0.89	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0527	0.1995	0.0030	0.2075	0.0196	0.0041	19	-0.41	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0472	0.2000	0.0000	0.2075	0.0196	0.0041	19	-0.38	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0421	0.2005	0.0010	0.2075	0.0196	0.0041	19	-0.36	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0368	0.2042	0.0013	0.2075	0.0196	0.0041	19	-0.17	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0519	0.2050	0.0100	0.2075	0.0196	0.0041	19	-0.13	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0482	0.2100	0.0000	0.2075	0.0196	0.0041	19	0.13	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0511	0.2100	0.0000	0.2075	0.0196	0.0041	19	0.13	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0360	0.2110	0.0020	0.2075	0.0196	0.0041	19	0.18	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0423	0.2115	0.0010	0.2075	0.0196	0.0041	19	0.20	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0117	0.2149	0.0011	0.2075	0.0196	0.0041	19	0.37	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0255	0.2175	0.0090	0.2075	0.0196	0.0041	19	0.51	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0546	0.2240	0.0080	0.2075	0.0196	0.0041	19	0.84	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0042	0.2295	0.0130	0.2075	0.0196	0.0041	19	1.12	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0231	0.2400	0.0000	0.2075	0.0196	0.0041	19	1.66	OK	0
165.99	Acid Soluble Boron , Other (0.2%)	0483	0.2490	0.0140	0.2075	0.0196	0.0041	19	2.12	High	0
165.99	Acid Soluble Boron , Other (0.2%)	0515	0.2136	0.0255	0.2075	0.0196	0.0041	19	0.31	OK	1
171.10	Water Soluble Boron , Spectrophotometric (%)	0533	0.1005	0.0050	0.1273	0.0342	0.0203	6	-0.70	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0536	0.1095	0.0210	0.1273	0.0342	0.0203	6	-0.46	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0538	0.1100	0.0040	0.1273	0.0342	0.0203	6	-0.45	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0532	0.1140	0.0320	0.1273	0.0342	0.0203	6	-0.35	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0220	0.1550	0.0100	0.1273	0.0342	0.0203	6	0.72	NA	0
171.10	Water Soluble Boron , Spectrophotometric (%)	0550	0.1750	0.0500	0.1273	0.0342	0.0203	6	1.24	NA	0
171.99	Water Soluble Boron , Other (%)	0444	0.1550	0.0100				2			0

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			Value	Range	Rob Mean	Rob SD	R-bar				
171.99	Water Soluble Boron , Other (%)	0402	0.2120	0.0020				2			0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0550	179.5	135.4				2			0
181.00	Acid Soluble Cadmium , AA, test portion as in...	0136	200.0	2.000				2			0
181.30	Acid Soluble Cadmium , ICP (ppm)	0444	137.5	3.000	188.3	18.90	8.958	11	-2.51	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0035	171.0	16.00	188.3	18.90	8.958	11	-0.85	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0255	173.3	4.369	188.3	18.90	8.958	11	-0.74	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0368	182.5	3.000	188.3	18.90	8.958	11	-0.29	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0389	185.0	6.000	188.3	18.90	8.958	11	-0.16	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0541	188.0	14.00	188.3	18.90	8.958	11	-0.01	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0096	192.0	18.10	188.3	18.90	8.958	11	0.18	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0524	192.0	6.070	188.3	18.90	8.958	11	0.19	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0482	204.5	15.00	188.3	18.90	8.958	11	0.80	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0102	206.2	13.00	188.3	18.90	8.958	11	0.89	NA	0
181.30	Acid Soluble Cadmium , ICP (ppm)	0511	216.5	0.0000	188.3	18.90	8.958	11	1.40	NA	0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0117	188.9	7.900	197.6	7.948	14.34	5	-1.10		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0515	190.1	33.57	197.6	7.948	14.34	5	-0.94		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0037	199.0	11.02	197.6	7.948	14.34	5	0.18		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0527	203.0	1.306	197.6	7.948	14.34	5	0.68		0
181.33	Acid Soluble Cadmium , ICP, 2006.03 modified ...	0494	207.0	17.91	197.6	7.948	14.34	5	1.19		0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0230	187.0	70.00				2			0
181.34	Acid Soluble Cadmium , ICP, EPA 3050B/6010C (ppm)	0515	200.2	1.210				2			0
181.99	Acid Soluble Cadmium , Other (ppm)	0506	126.5	27.00	161.0	28.00	13.45	4	-1.23		0
181.99	Acid Soluble Cadmium , Other (ppm)	0476	152.3	0.8220	161.0	28.00	13.45	4	-0.31		0
181.99	Acid Soluble Cadmium , Other (ppm)	0519	173.5	0.9700	161.0	28.00	13.45	4	0.45		0
181.99	Acid Soluble Cadmium , Other (ppm)	0220	191.5	25.00	161.0	28.00	13.45	4	1.09		0
190.00	Water Soluble Chlorine, Titrimetric (%)	0185	2.335	0.0100				1			0
190.99	Water Soluble Chlorine, Other (%)	0511	12.33	0.0000				1			0
191.00	Acid Soluble Chromium , AA, test portion as i...	0550	502.1	274.0				1			0
191.30	Acid Soluble Chromium , ICP (ppm)	0096	315.4	21.40	552.4	82.82	17.29	8	-2.62	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0444	467.0	12.00	552.4	82.82	17.29	8	-0.94	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0482	549.5	37.00	552.4	82.82	17.29	8	-0.03	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0102	552.3	34.90	552.4	82.82	17.29	8	0.00	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0035	585.0	18.00	552.4	82.82	17.29	8	0.36	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0368	590.0	12.00	552.4	82.82	17.29	8	0.41	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0389	592.5	3.000	552.4	82.82	17.29	8	0.44	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0511	655.0	0.0000	552.4	82.82	17.29	8	1.13	NA	0
191.30	Acid Soluble Chromium , ICP (ppm)	0541	687.5	107.0	552.4	82.82	17.29	8	1.49	NA	1
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0527	593.3	3.204	619.6	19.71	29.26	5	-1.33		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0494	603.8	16.94	619.6	19.71	29.26	5	-0.80		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0037	630.0	12.96	619.6	19.71	29.26	5	0.53		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0515	633.5	102.6	619.6	19.71	29.26	5	0.71		0
191.33	Acid Soluble Chromium , ICP, 2006.03 modified...	0117	637.2	10.60	619.6	19.71	29.26	5	0.90		0
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0230	561.5	57.00				2			0

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			Value	Range	Rob Mean	Rob SD	R-bar				
191.34	Acid Soluble Chromium , ICP, EPA 3050B/6010C (ppm)	0515	758.4	124.8				2			0
191.99	Acid Soluble Chromium , Other (ppm)	0506	10.51	1.980	449.3	297.7	8.976	4	-1.47		0
191.99	Acid Soluble Chromium , Other (ppm)	0476	532.4	6.975	449.3	297.7	8.976	4	0.28		0
191.99	Acid Soluble Chromium , Other (ppm)	0220	587.0	26.00	449.3	297.7	8.976	4	0.46		0
191.99	Acid Soluble Chromium , Other (ppm)	0519	667.1	0.9500	449.3	297.7	8.976	4	0.73		0
202.30	Acid Soluble Cobalt , ICP (ppm)	0482	315.5	23.00	382.6	19.16	15.29	8	-3.20	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0389	367.0	2.100	382.6	19.16	15.29	8	-0.75	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0368	375.5	21.00	382.6	19.16	15.29	8	-0.34	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0524	381.8	0.1700	382.6	19.16	15.29	8	-0.04	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0096	387.1	4.600	382.6	19.16	15.29	8	0.21	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0035	394.5	61.00	382.6	19.16	15.29	8	0.57	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0511	395.0	0.0000	382.6	19.16	15.29	8	0.59	OK	0
202.30	Acid Soluble Cobalt , ICP (ppm)	0102	406.3	10.45	382.6	19.16	15.29	8	1.13	OK	0
202.32	Acid Soluble Cobalt , ICP, 2006.03 (ppm)	0423	350.5	5.000				1			0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0550	29.12	6.770	374.0	26.97	9.178	7	-11.56	Low	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0515	355.4	1.880	374.0	26.97	9.178	7	-0.63	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0527	368.4	0.8720	374.0	26.97	9.178	7	-0.19	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0546	374.5	25.00	374.0	26.97	9.178	7	0.02	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0037	395.3	9.700	374.0	26.97	9.178	7	0.71	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0494	395.4	10.33	374.0	26.97	9.178	7	0.72	OK	0
202.33	Acid Soluble Cobalt , ICP, 2006.03 modified w... (ppm)	0117	395.7	9.700	374.0	26.97	9.178	7	0.72	OK	0
202.34	Acid Soluble Cobalt , ICP, EPA 3050B/6010C (ppm)	0515	377.1	16.79				1			0
202.99	Acid Soluble Cobalt , Other (ppm)	0476	309.0	20.43	388.5	66.30	6.629	5	-1.20		0
202.99	Acid Soluble Cobalt , Other (ppm)	0255	367.5	6.643	388.5	66.30	6.629	5	-0.32		0
202.99	Acid Soluble Cobalt , Other (ppm)	0220	375.0	6.000	388.5	66.30	6.629	5	-0.20		0
202.99	Acid Soluble Cobalt , Other (ppm)	0506	400.0	0.0000	388.5	66.30	6.629	5	0.17		0
202.99	Acid Soluble Cobalt , Other (ppm)	0519	491.0	0.0700	388.5	66.30	6.629	5	1.55		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0516	0.1074	0.0196	0.1288	0.0125	0.0109	5	-1.71		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0040	0.1305	0.0030	0.1288	0.0125	0.0109	5	0.14		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0535	0.1325	0.0050	0.1288	0.0125	0.0109	5	0.30		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0029	0.1334	0.0067	0.1288	0.0125	0.0109	5	0.37		0
221.00	Acid Soluble Copper , AA, inorganic 965.09 (0.06%)	0550	0.1400	0.0200	0.1288	0.0125	0.0109	5	0.90		0
221.03	Acid Soluble Copper , AA, 965.09, test portio... (0.06%)	0023	0.1340	0.0000				2			0
221.03	Acid Soluble Copper , AA, 965.09, test portio... (0.06%)	0231	0.1400	0.0000				2			0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0550	0.0280	0.0000	0.1313	0.0200	0.0069	18	-5.17	Low	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0234	0.0900	0.0200	0.1313	0.0200	0.0069	18	-2.07	Low	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0230	0.1110	0.0000	0.1313	0.0200	0.0069	18	-1.02	Low	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0324	0.1145	0.0050	0.1313	0.0200	0.0069	18	-0.84	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0472	0.1200	0.0000	0.1313	0.0200	0.0069	18	-0.56	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0433	0.1245	0.0010	0.1313	0.0200	0.0069	18	-0.34	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0402	0.1250	0.0020	0.1313	0.0200	0.0069	18	-0.31	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0354	0.1300	0.0000	0.1313	0.0200	0.0069	18	-0.06	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0360	0.1310	0.0040	0.1313	0.0200	0.0069	18	-0.01	OK	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0444	0.1350	0.0100	0.1313	0.0200	0.0069	18	0.19	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0035	0.1355	0.0070	0.1313	0.0200	0.0069	18	0.21	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0511	0.1360	0.0000	0.1313	0.0200	0.0069	18	0.24	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0255	0.1375	0.0110	0.1313	0.0200	0.0069	18	0.31	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0482	0.1400	0.0000	0.1313	0.0200	0.0069	18	0.44	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0096	0.1458	0.0073	0.1313	0.0200	0.0069	18	0.72	OK	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0307	0.1565	0.0110	0.1313	0.0200	0.0069	18	1.26	High	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0483	0.1570	0.0240	0.1313	0.0200	0.0069	18	1.29	High	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0543	0.2080	0.0220	0.1313	0.0200	0.0069	18	3.84	High	0
221.30	Acid Soluble Copper , ICP, test portion inorg... (0.06%)	0541	1,210	100.0	0.1313	0.0200	0.0069	18	60557.84	High	2
221.31	Acid Soluble Copper , ICP, test portion organ... (0.06%)	0390	0.1258	0.0135				1			0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0521	0.1017	0.0000	0.1300	0.0192	0.0048	5	-1.47		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0394	0.1285	0.0080	0.1300	0.0192	0.0048	5	-0.08		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0220	0.1295	0.0050	0.1300	0.0192	0.0048	5	-0.03		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0043	0.1350	0.0100	0.1300	0.0192	0.0048	5	0.26		0
221.32	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0423	0.1555	0.0010	0.1300	0.0192	0.0048	5	1.32		0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0527	0.1155	0.0010	0.1305	0.0081	0.0061	10	-1.71	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0494	0.1216	0.0095	0.1305	0.0081	0.0061	10	-1.02	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0486	0.1250	0.0100	0.1305	0.0081	0.0061	10	-0.63	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0515	0.1279	0.0103	0.1305	0.0081	0.0061	10	-0.30	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0055	0.1300	0.0000	0.1305	0.0081	0.0061	10	-0.06	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0546	0.1340	0.0020	0.1305	0.0081	0.0061	10	0.40	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0421	0.1350	0.0100	0.1305	0.0081	0.0061	10	0.52	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0037	0.1365	0.0110	0.1305	0.0081	0.0061	10	0.69	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0117	0.1367	0.0070	0.1305	0.0081	0.0061	10	0.71	OK	0
221.33	Acid Soluble Copper , ICP, test portion 2006.... (0.06%)	0136	0.1400	0.0000	0.1305	0.0081	0.0061	10	1.09	OK	0
221.99	Acid Soluble Copper , Other (0.06%)	0550	0.0037	0.0005	0.0851	0.0544	0.0058	10	-1.39	Low	0
221.99	Acid Soluble Copper , Other (0.06%)	0506	0.0100	0.0000	0.0851	0.0544	0.0058	10	-1.28	Low	0
221.99	Acid Soluble Copper , Other (0.06%)	0519	0.0450	0.0100	0.0851	0.0544	0.0058	10	-0.69	Low	0
221.99	Acid Soluble Copper , Other (0.06%)	0042	0.0915	0.0050	0.0851	0.0544	0.0058	10	0.11	OK	0
221.99	Acid Soluble Copper , Other (0.06%)	0027	0.1015	0.0130	0.0851	0.0544	0.0058	10	0.28	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0476	0.1069	0.0122	0.0851	0.0544	0.0058	10	0.37	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0389	0.1154	0.0016	0.0851	0.0544	0.0058	10	0.52	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0523	0.1200	0.0000	0.0851	0.0544	0.0058	10	0.60	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0368	0.1208	0.0033	0.0851	0.0544	0.0058	10	0.61	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0515	0.1366	0.0126	0.0851	0.0544	0.0058	10	0.88	High	0
221.99	Acid Soluble Copper , Other (0.06%)	0524	0.1400	0.0400	0.0851	0.0544	0.0058	10	0.94	High	1
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0516	0.4219	0.0036	0.6094	0.1123	0.0445	5	-1.67		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0535	0.6100	0.0200	0.6094	0.1123	0.0445	5	0.01		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0550	0.6400	0.1200	0.6094	0.1123	0.0445	5	0.27		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0029	0.6552	0.0387	0.6094	0.1123	0.0445	5	0.41		0
241.00	Acid Soluble Iron, AA, inorganic 965.09 (1%)	0040	0.7200	0.0400	0.6094	0.1123	0.0445	5	0.99		0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0402	0.4400	0.0000	0.6617	0.0783	0.0135	20	-2.83	Low	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				
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0307	0.4550	0.0300	0.6617	0.0783	0.0135	20	-2.64	Low	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0230	0.4955	0.0030	0.6617	0.0783	0.0135	20	-2.12	Low	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0472	0.5300	0.0000	0.6617	0.0783	0.0135	20	-1.68	Low	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0231	0.6100	0.0000	0.6617	0.0783	0.0135	20	-0.66	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0035	0.6360	0.0580	0.6617	0.0783	0.0135	20	-0.33	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0255	0.6620	0.0280	0.6617	0.0783	0.0135	20	0.00	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0433	0.6685	0.0010	0.6617	0.0783	0.0135	20	0.09	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0157	0.6740	0.0100	0.6617	0.0783	0.0135	20	0.16	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0102	0.6878	0.0321	0.6617	0.0783	0.0135	20	0.33	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0354	0.6900	0.0000	0.6617	0.0783	0.0135	20	0.36	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0511	0.6900	0.0000	0.6617	0.0783	0.0135	20	0.36	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0444	0.6950	0.0100	0.6617	0.0783	0.0135	20	0.43	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0096	0.7025	0.0070	0.6617	0.0783	0.0135	20	0.52	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0360	0.7055	0.0010	0.6617	0.0783	0.0135	20	0.56	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0324	0.7075	0.0230	0.6617	0.0783	0.0135	20	0.58	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0390	0.7139	0.0055	0.6617	0.0783	0.0135	20	0.67	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0451	0.7155	0.0310	0.6617	0.0783	0.0135	20	0.69	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0482	0.7200	0.0200	0.6617	0.0783	0.0135	20	0.74	OK	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0483	0.8350	0.0100	0.6617	0.0783	0.0135	20	2.21	High	0
241.30	Acid Soluble Iron, ICP, test portion inorgani... (1%)	0234	0.9700	0.1800	0.6617	0.0783	0.0135	20	3.94	High	1
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0521	0.5101	0.0000	0.6048	0.0737	0.0258	5	-1.29		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0394	0.5863	0.0238	0.6048	0.0737	0.0258	5	-0.25		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0043	0.5950	0.0500	0.6048	0.0737	0.0258	5	-0.13		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0423	0.6175	0.0050	0.6048	0.0737	0.0258	5	0.17		0
241.32	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0220	0.7150	0.0500	0.6048	0.0737	0.0258	5	1.50		0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0527	0.5995	0.0050	0.6903	0.0418	0.0258	12	-2.18	Low	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0486	0.6150	0.0300	0.6903	0.0418	0.0258	12	-1.80	Low	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0177	0.6666	0.0189	0.6903	0.0418	0.0258	12	-0.57	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0515	0.6699	0.0669	0.6903	0.0418	0.0258	12	-0.49	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0136	0.6900	0.0400	0.6903	0.0418	0.0258	12	-0.01	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0037	0.6940	0.0140	0.6903	0.0418	0.0258	12	0.09	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0494	0.7003	0.0163	0.6903	0.0418	0.0258	12	0.24	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0117	0.7028	0.0462	0.6903	0.0418	0.0258	12	0.30	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0421	0.7050	0.0100	0.6903	0.0418	0.0258	12	0.35	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0055	0.7300	0.0200	0.6903	0.0418	0.0258	12	0.95	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0023	0.7310	0.0180	0.6903	0.0418	0.0258	12	0.97	OK	0
241.33	Acid Soluble Iron, ICP, test portion 2006.03A... (1%)	0546	0.7390	0.0240	0.6903	0.0418	0.0258	12	1.17	OK	0
241.99	Acid Soluble Iron, Other (1%)	0506	0.0025	0.0010	0.5484	0.1966	0.0132	13	-2.78	Low	0
241.99	Acid Soluble Iron, Other (1%)	0550	0.0041	0.0004	0.5484	0.1966	0.0132	13	-2.77	Low	0
241.99	Acid Soluble Iron, Other (1%)	0519	0.4400	0.0200	0.5484	0.1966	0.0132	13	-0.55	Low	0
241.99	Acid Soluble Iron, Other (1%)	0501	0.4750	0.0300	0.5484	0.1966	0.0132	13	-0.37	Low	0
241.99	Acid Soluble Iron, Other (1%)	0532	0.4950	0.0500	0.5484	0.1966	0.0132	13	-0.27	OK	0
241.99	Acid Soluble Iron, Other (1%)	0389	0.5000	0.0040	0.5484	0.1966	0.0132	13	-0.25	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				
241.99	Acid Soluble Iron, Other (1%)	0476	0.5296	0.0138	0.5484	0.1966	0.0132	13	-0.10	OK	0
241.99	Acid Soluble Iron, Other (1%)	0523	0.5850	0.0100	0.5484	0.1966	0.0132	13	0.19	OK	0
241.99	Acid Soluble Iron, Other (1%)	0541	0.6600	0.0000	0.5484	0.1966	0.0132	13	0.57	High	0
241.99	Acid Soluble Iron, Other (1%)	0027	0.6915	0.0070	0.5484	0.1966	0.0132	13	0.73	High	0
241.99	Acid Soluble Iron, Other (1%)	0524	0.7000	0.0000	0.5484	0.1966	0.0132	13	0.77	High	0
241.99	Acid Soluble Iron, Other (1%)	0368	0.7184	0.0259	0.5484	0.1966	0.0132	13	0.86	High	0
241.99	Acid Soluble Iron, Other (1%)	0042	0.8275	0.0090	0.5484	0.1966	0.0132	13	1.42	High	0
241.99	Acid Soluble Iron, Other (1%)	0515	0.5216	0.0858	0.5484	0.1966	0.0132	13	-0.14	OK	1
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0550	843.6	624.7				2			0
251.00	Acid Soluble Lead , AA, test portion as in 20... (ppm)	0136	927.5	21.00				2			0
251.30	Acid Soluble Lead , ICP (ppm)	0444	675.5	27.00	923.2	120.0	53.65	12	-2.06	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0482	745.5	61.00	923.2	120.0	53.65	12	-1.48	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0394	838.0	50.00	923.2	120.0	53.65	12	-0.71	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0524	879.6	10.27	923.2	120.0	53.65	12	-0.36	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0035	918.0	92.00	923.2	120.0	53.65	12	-0.04	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0096	936.0	60.80	923.2	120.0	53.65	12	0.11	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0511	947.0	0.0000	923.2	120.0	53.65	12	0.20	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0389	949.5	81.00	923.2	120.0	53.65	12	0.22	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0102	1,003	21.63	923.2	120.0	53.65	12	0.67	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0255	1,013	56.11	923.2	120.0	53.65	12	0.75	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0368	1,034	81.00	923.2	120.0	53.65	12	0.92	NA	0
251.30	Acid Soluble Lead , ICP (ppm)	0541	1,072	103.0	923.2	120.0	53.65	12	1.24	NA	0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0527	883.1	13.47	964.0	81.29	73.36	5	-1.00		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0494	938.1	9.368	964.0	81.29	73.36	5	-0.32		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0037	945.5	72.11	964.0	81.29	73.36	5	-0.23		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0117	952.7	65.30	964.0	81.29	73.36	5	-0.14		0
251.33	Acid Soluble Lead , ICP, 2006.03 modified w/9... (ppm)	0515	1,101	206.6	964.0	81.29	73.36	5	1.68		0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0230	885.0	186.0				2			0
251.34	Acid Soluble Lead , ICP, EPA 3050B/6010C (ppm)	0515	1,158	227.9				2			0
251.99	Acid Soluble Lead , Other (ppm)	0476	120.3	0.6114	643.0	383.9	15.12	4	-1.36		0
251.99	Acid Soluble Lead , Other (ppm)	0506	594.0	48.00	643.0	383.9	15.12	4	-0.13		0
251.99	Acid Soluble Lead , Other (ppm)	0519	888.0	0.8600	643.0	383.9	15.12	4	0.64		0
251.99	Acid Soluble Lead , Other (ppm)	0220	969.5	11.00	643.0	383.9	15.12	4	0.85		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0535	0.1225	0.0050	0.1579	0.0279	0.0181	4	-1.27		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0029	0.1550	0.0252	0.1579	0.0279	0.0181	4	-0.10		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0040	0.1640	0.0020	0.1579	0.0279	0.0181	4	0.22		0
261.12	Acid Soluble Manganese , AA, inorganic 965.09... (0.16%)	0550	0.1900	0.0400	0.1579	0.0279	0.0181	4	1.15		0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0035	0.1625	0.0110	0.1696	0.0045	0.0074	8	-1.45	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0433	0.1660	0.0020	0.1696	0.0045	0.0074	8	-0.74	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0102	0.1685	0.0159	0.1696	0.0045	0.0074	8	-0.24	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0354	0.1700	0.0000	0.1696	0.0045	0.0074	8	0.08	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0472	0.1700	0.0000	0.1696	0.0045	0.0074	8	0.08	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0307	0.1710	0.0020	0.1696	0.0045	0.0074	8	0.29	OK	0

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261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0096	0.1722	0.0069	0.1696	0.0045	0.0074	8	0.52	OK	0
261.30	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0390	0.1886	0.0217	0.1696	0.0045	0.0074	8	3.88	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0230	0.1445	0.0090	0.1612	0.0167	0.0047	6	-0.89	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0360	0.1545	0.0050	0.1612	0.0167	0.0047	6	-0.36	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0234	0.1550	0.0100	0.1612	0.0167	0.0047	6	-0.33	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0324	0.1570	0.0040	0.1612	0.0167	0.0047	6	-0.22	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0511	0.1700	0.0000	0.1612	0.0167	0.0047	6	0.47	OK	0
261.31	Acid Soluble Manganese , ICP, test portion 97... (0.16%)	0482	0.1900	0.0000	0.1612	0.0167	0.0047	6	1.53	High	0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0451	0.1575	0.0010	0.1628	0.0049	0.0072	5	-1.09		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0444	0.1600	0.0200	0.1628	0.0049	0.0072	5	-0.58		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0483	0.1615	0.0050	0.1628	0.0049	0.0072	5	-0.27		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0402	0.1650	0.0100	0.1628	0.0049	0.0072	5	0.45		0
261.32	Acid Soluble Manganese , ICP, test portion in... (0.16%)	0231	0.1700	0.0000	0.1628	0.0049	0.0072	5	1.48		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0521	0.1474	0.0000	0.1643	0.0133	0.0052	5	-1.27		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0394	0.1550	0.0040	0.1643	0.0133	0.0052	5	-0.70		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0220	0.1650	0.0100	0.1643	0.0133	0.0052	5	0.05		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0043	0.1750	0.0100	0.1643	0.0133	0.0052	5	0.81		0
261.34	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0423	0.1790	0.0020	0.1643	0.0133	0.0052	5	1.11		0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0421	0.1450	0.0100	0.1599	0.0097	0.0052	11	-1.55	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0527	0.1480	0.0020	0.1599	0.0097	0.0052	11	-1.24	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0486	0.1550	0.0100	0.1599	0.0097	0.0052	11	-0.51	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0177	0.1562	0.0108	0.1599	0.0097	0.0052	11	-0.39	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0494	0.1579	0.0015	0.1599	0.0097	0.0052	11	-0.22	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0023	0.1615	0.0030	0.1599	0.0097	0.0052	11	0.16	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0037	0.1625	0.0010	0.1599	0.0097	0.0052	11	0.27	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0117	0.1648	0.0052	0.1599	0.0097	0.0052	11	0.50	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0136	0.1650	0.0100	0.1599	0.0097	0.0052	11	0.52	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0055	0.1700	0.0000	0.1599	0.0097	0.0052	11	1.04	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0546	0.1730	0.0040	0.1599	0.0097	0.0052	11	1.35	OK	0
261.35	Acid Soluble Manganese , ICP, test portion 20... (0.16%)	0515	0.1690	0.0841	0.1599	0.0097	0.0052	11	0.93	OK	1
261.99	Acid Soluble Manganese , Other (0.16%)	0506	0.0030	0.0000	0.1538	0.0247	0.0066	11	-6.11	Low	0
261.99	Acid Soluble Manganese , Other (0.16%)	0027	0.1180	0.0040	0.1538	0.0247	0.0066	11	-1.45	Low	0
261.99	Acid Soluble Manganese , Other (0.16%)	0519	0.1450	0.0100	0.1538	0.0247	0.0066	11	-0.36	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0476	0.1477	0.0031	0.1538	0.0247	0.0066	11	-0.25	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0389	0.1550	0.0100	0.1538	0.0247	0.0066	11	0.05	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0523	0.1565	0.0030	0.1538	0.0247	0.0066	11	0.11	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0501	0.1590	0.0020	0.1538	0.0247	0.0066	11	0.21	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0368	0.1629	0.0024	0.1538	0.0247	0.0066	11	0.37	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0524	0.1650	0.0100	0.1538	0.0247	0.0066	11	0.45	OK	0
261.99	Acid Soluble Manganese , Other (0.16%)	0255	0.1795	0.0270	0.1538	0.0247	0.0066	11	1.04	High	0
261.99	Acid Soluble Manganese , Other (0.16%)	0042	0.1865	0.0010	0.1538	0.0247	0.0066	11	1.32	High	0
261.99	Acid Soluble Manganese , Other (0.16%)	0515	0.1224	0.0637	0.1538	0.0247	0.0066	11	-1.27	Low	1
271.00	Water Soluble Manganese , AA (%)	0550	0.0096	0.0001	0.0434	0.0494	0.0070	3	-0.68		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				
271.00	Water Soluble Manganese , AA (%)	0027	0.0205	0.0010	0.0434	0.0494	0.0070	3	-0.46		0
271.00	Water Soluble Manganese , AA (%)	0532	0.1000	0.0200	0.0434	0.0494	0.0070	3	1.15		0
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	0444	0.0085	0.0010				2			0
271.30	Water Soluble Manganese , ICP, Ext. 972.03 (%)	0543	0.2950	0.1820				2			0
271.99	Water Soluble Manganese , Other (%)	0117	0.0051	0.0006				1			0
281.00	Acid Soluble Mercury , AA (ppm)	0511	40.00	0.0000				1			0
281.30	Acid Soluble Mercury , ICP (ppm)	0515	15.58	0.6300	46.20	23.78	2.595	4	-1.29		0
281.30	Acid Soluble Mercury , ICP (ppm)	0394	39.17	3.410	46.20	23.78	2.595	4	-0.30		0
281.30	Acid Soluble Mercury , ICP (ppm)	0541	65.00	4.000	46.20	23.78	2.595	4	0.79		0
281.30	Acid Soluble Mercury , ICP (ppm)	0527	65.06	2.341	46.20	23.78	2.595	4	0.79		0
281.99	Acid Soluble Mercury , Other (ppm)	0519	16.65	0.3900				2			0
281.99	Acid Soluble Mercury , Other (ppm)	0476	45.39	0.3160				2			0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0543	0.1925	0.0090	796.1	137.5	12.87	11	-5.79	Low	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0519	48.50	5.000	796.1	137.5	12.87	11	-5.44	Low	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0521	672.7	0.0000	796.1	137.5	12.87	11	-0.90	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0035	785.5	1.000	796.1	137.5	12.87	11	-0.08	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0389	843.6	0.3000	796.1	137.5	12.87	11	0.34	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0368	856.0	40.00	796.1	137.5	12.87	11	0.44	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0255	856.7	11.94	796.1	137.5	12.87	11	0.44	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0096	864.7	51.50	796.1	137.5	12.87	11	0.50	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0444	885.0	30.00	796.1	137.5	12.87	11	0.65	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0511	906.0	0.0000	796.1	137.5	12.87	11	0.80	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0524	907.6	1.850	796.1	137.5	12.87	11	0.81	OK	0
289.30	Acid Soluble Molybdenum , ICP (50ppm)	0541	936.0	200.0	796.1	137.5	12.87	11	1.02	OK	1
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (50ppm)	0394	838.0	42.00				2			0
289.32	Acid Soluble Molybdenum , ICP, 2006.03 (50ppm)	0220	935.0	6.000				2			0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0550	647.0	8.000	869.4	56.77	31.37	8	-3.58	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0423	830.0	18.00	869.4	56.77	31.37	8	-0.63	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0494	844.5	55.00	869.4	56.77	31.37	8	-0.40	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0292	857.0	9.400	869.4	56.77	31.37	8	-0.20	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0546	879.5	63.00	869.4	56.77	31.37	8	0.16	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0117	910.9	87.50	869.4	56.77	31.37	8	0.67	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0527	919.2	10.08	869.4	56.77	31.37	8	0.80	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0037	930.0	0.0000	869.4	56.77	31.37	8	0.98	OK	0
289.33	Acid Soluble Molybdenum , ICP, 2006.03 modifi... (50ppm)	0515	718.5	439.5	869.4	56.77	31.37	8	-2.43	OK	1
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (50ppm)	0515	684.4	448.3				2			0
289.34	Acid Soluble Molybdenum , ICP, EPA 3050B/6010... (50ppm)	0230	753.0	110.0				2			0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0027	66.00	2.000	789.3	628.6	14.61	4	-1.15		0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0042	719.6	42.50	789.3	628.6	14.61	4	-0.11		0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0476	771.5	13.96	789.3	628.6	14.61	4	-0.03		0
289.99	Acid Soluble Molybdenum , Other (50ppm)	0506	1,600	0.0000	789.3	628.6	14.61	4	1.29		0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0136	15.50	1.000				2			0
291.00	Acid Soluble Nickel , AA, test portion as in ... (ppm)	0550	19.41	31.64				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				
291.30	Acid Soluble Nickel , ICP (ppm)	0521	9.720	0.0000	12.68	2.830	0.8348	11	-1.04	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0096	9.750	0.5000	12.68	2.830	0.8348	11	-1.03	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0444	10.25	0.6800	12.68	2.830	0.8348	11	-0.86	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0482	11.10	0.0000	12.68	2.830	0.8348	11	-0.56	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0524	11.94	0.1100	12.68	2.830	0.8348	11	-0.26	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0394	12.40	1.000	12.68	2.830	0.8348	11	-0.10	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0102	12.65	0.8830	12.68	2.830	0.8348	11	-0.01	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0389	13.34	0.2100	12.68	2.830	0.8348	11	0.23	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0511	15.69	0.0000	12.68	2.830	0.8348	11	1.07	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0368	16.00	2.000	12.68	2.830	0.8348	11	1.17	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0035	16.60	3.800	12.68	2.830	0.8348	11	1.39	NA	0
291.30	Acid Soluble Nickel , ICP (ppm)	0541	31.50	37.00	12.68	2.830	0.8348	11	6.65	NA	1
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0527	13.75	0.2630	15.65	1.194	2.275	5	-1.60		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0515	15.56	6.635	15.65	1.194	2.275	5	-0.08		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0117	15.76	1.280	15.65	1.194	2.275	5	0.09		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0037	16.24	1.508	15.65	1.194	2.275	5	0.49		0
291.33	Acid Soluble Nickel , ICP, 2006.03 modified w... (ppm)	0494	16.96	1.691	15.65	1.194	2.275	5	1.10		0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0230	12.70	4.400				2			0
291.34	Acid Soluble Nickel , ICP, EPA 3050B/6010C (ppm)	0515	13.64	1.420				2			0
291.99	Acid Soluble Nickel , Other (ppm)	0476	2.455	0.1265	11.14	5.359	0.9683	5	-1.62		0
291.99	Acid Soluble Nickel , Other (ppm)	0519	10.25	0.0300	11.14	5.359	0.9683	5	-0.17		0
291.99	Acid Soluble Nickel , Other (ppm)	0220	12.50	1.000	11.14	5.359	0.9683	5	0.25		0
291.99	Acid Soluble Nickel , Other (ppm)	0255	13.98	0.8850	11.14	5.359	0.9683	5	0.53		0
291.99	Acid Soluble Nickel , Other (ppm)	0506	16.50	2.800	11.14	5.359	0.9683	5	1.00		0
301.30	Acid Soluble Selenium , ICP (ppm)	0541	122.5	1.000	258.3	101.4	8.213	4	-1.34		0
301.30	Acid Soluble Selenium , ICP (ppm)	0524	239.1	16.85	258.3	101.4	8.213	4	-0.19		0
301.30	Acid Soluble Selenium , ICP (ppm)	0511	332.0	0.0000	258.3	101.4	8.213	4	0.73		0
301.30	Acid Soluble Selenium , ICP (ppm)	0368	339.5	15.00	258.3	101.4	8.213	4	0.80		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0494	318.1	1.352	333.2	13.74	20.57	5	-1.09		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0515	318.7	69.58	333.2	13.74	20.57	5	-1.06		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0527	338.9	2.854	333.2	13.74	20.57	5	0.42		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0117	343.8	6.800	333.2	13.74	20.57	5	0.77		0
301.33	Acid Soluble Selenium , ICP, 2006.03 modified... (ppm)	0037	346.3	22.28	333.2	13.74	20.57	5	0.96		0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0515	285.7	39.14				2			0
301.34	Acid Soluble Selenium , ICP, EPA 3050B/6010C (ppm)	0230	289.0	48.00				2			0
301.99	Acid Soluble Selenium , Other (ppm)	0506	250.0	100.0	309.2	35.67	27.34	5	-1.66		0
301.99	Acid Soluble Selenium , Other (ppm)	0220	310.5	21.00	309.2	35.67	27.34	5	0.04		0
301.99	Acid Soluble Selenium , Other (ppm)	0519	311.7	0.2500	309.2	35.67	27.34	5	0.07		0
301.99	Acid Soluble Selenium , Other (ppm)	0476	331.8	13.79	309.2	35.67	27.34	5	0.63		0
301.99	Acid Soluble Selenium , Other (ppm)	0255	341.9	1.635	309.2	35.67	27.34	5	0.92		0
311.32	Sodium, ICP, 2006.03 test portion (%)	0324	0.3890	0.0460				2			0
311.32	Sodium, ICP, 2006.03 test portion (%)	0521	0.4575	0.0000				2			0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0494	0.4064	0.0456	0.4660	0.0745	0.0303	6	-0.71	Low	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Method IA Status	Flag
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311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0389	0.4200	0.0000	0.4660	0.0745	0.0303	6	-0.55	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0527	0.4345	0.0090	0.4660	0.0745	0.0303	6	-0.38	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0035	0.4455	0.0710	0.4660	0.0745	0.0303	6	-0.25	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0117	0.5129	0.0423	0.4660	0.0745	0.0303	6	0.56	OK	0
311.33	Sodium, ICP, 2006.03 modified w/9:3 HNO3:HCl ... (%)	0423	0.5770	0.0140	0.4660	0.0745	0.0303	6	1.33	High	0
311.99	Sodium, Other (%)	0511	0.4700	0.0000	0.4800	0.0091	0.0100	4	-1.10		0
311.99	Sodium, Other (%)	0482	0.4750	0.0100	0.4800	0.0091	0.0100	4	-0.55		0
311.99	Sodium, Other (%)	0096	0.4850	0.0300	0.4800	0.0091	0.0100	4	0.55		0
311.99	Sodium, Other (%)	0354	0.4900	0.0000	0.4800	0.0091	0.0100	4	1.10		0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0516	0.1122	0.0093	0.1674	0.0274	0.0074	9	-1.86	Low	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0533	0.1280	0.0020	0.1674	0.0274	0.0074	9	-1.33	Low	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0531	0.1650	0.0100	0.1674	0.0274	0.0074	9	-0.08	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0539	0.1735	0.0030	0.1674	0.0274	0.0074	9	0.20	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0551	0.1750	0.0100	0.1674	0.0274	0.0074	9	0.26	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0040	0.1795	0.0010	0.1674	0.0274	0.0074	9	0.41	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0535	0.1825	0.0050	0.1674	0.0274	0.0074	9	0.51	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0029	0.1830	0.0184	0.1674	0.0274	0.0074	9	0.53	OK	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0169	0.1940	0.0080	0.1674	0.0274	0.0074	9	0.90	High	0
321.00	Acid Soluble Zinc , AA, inorganic 965.09 (0.13%)	0550	0.1600	0.0600	0.1674	0.0274	0.0074	9	-0.25	OK	1
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0234	0.1600	0.0200	0.1910	0.0120	0.0082	20	-2.58	Low	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0230	0.1640	0.0040	0.1910	0.0120	0.0082	20	-2.25	Low	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0096	0.1797	0.0086	0.1910	0.0120	0.0082	20	-0.94	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0360	0.1820	0.0100	0.1910	0.0120	0.0082	20	-0.75	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0354	0.1850	0.0100	0.1910	0.0120	0.0082	20	-0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0402	0.1850	0.0080	0.1910	0.0120	0.0082	20	-0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0444	0.1850	0.0100	0.1910	0.0120	0.0082	20	-0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0102	0.1870	0.0122	0.1910	0.0120	0.0082	20	-0.33	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0035	0.1885	0.0010	0.1910	0.0120	0.0082	20	-0.21	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0433	0.1900	0.0020	0.1910	0.0120	0.0082	20	-0.08	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0472	0.1900	0.0000	0.1910	0.0120	0.0082	20	-0.08	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0390	0.1935	0.0253	0.1910	0.0120	0.0082	20	0.20	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0324	0.1945	0.0070	0.1910	0.0120	0.0082	20	0.29	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0292	0.1950	0.0100	0.1910	0.0120	0.0082	20	0.33	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0482	0.1950	0.0100	0.1910	0.0120	0.0082	20	0.33	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0511	0.1970	0.0000	0.1910	0.0120	0.0082	20	0.50	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0255	0.2000	0.0160	0.1910	0.0120	0.0082	20	0.75	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0231	0.2100	0.0000	0.1910	0.0120	0.0082	20	1.58	OK	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0483	0.2225	0.0010	0.1910	0.0120	0.0082	20	2.62	High	0
321.30	Acid Soluble Zinc , ICP, test portion inorgan... (0.13%)	0307	0.2485	0.0090	0.1910	0.0120	0.0082	20	4.79	High	0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0220	0.1750	0.0100	0.2109	0.0511	0.0104	5	-0.70		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0394	0.1800	0.0020	0.2109	0.0511	0.0104	5	-0.61		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0521	0.1995	0.0000	0.2109	0.0511	0.0104	5	-0.22		0
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0043	0.2000	0.0200	0.2109	0.0511	0.0104	5	-0.21		0

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			Value	Range	Rob Mean	Rob SD	R-bar				
321.32	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0423	0.3000	0.0200	0.2109	0.0511	0.0104	5	1.74		0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0486	0.1750	0.0100	0.1953	0.0195	0.0103	11	-0.98	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0177	0.1777	0.0036	0.1953	0.0195	0.0103	11	-0.85	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0117	0.1808	0.0027	0.1953	0.0195	0.0103	11	-0.70	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0023	0.1850	0.0120	0.1953	0.0195	0.0103	11	-0.50	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0527	0.1850	0.0000	0.1953	0.0195	0.0103	11	-0.50	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0055	0.1950	0.0100	0.1953	0.0195	0.0103	11	-0.02	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0494	0.1956	0.0018	0.1953	0.0195	0.0103	11	0.01	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0037	0.2010	0.0140	0.1953	0.0195	0.0103	11	0.27	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0136	0.2050	0.0100	0.1953	0.0195	0.0103	11	0.46	OK	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0546	0.2240	0.0180	0.1953	0.0195	0.0103	11	1.38	High	0
321.33	Acid Soluble Zinc , ICP, test portion 2006.03... (0.13%)	0515	0.2256	0.0315	0.1953	0.0195	0.0103	11	1.45	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0506	0.0025	0.0010	0.1516	0.0400	0.0078	10	-3.47	Low	0
321.99	Acid Soluble Zinc , Other (0.13%)	0042	0.1145	0.0050	0.1516	0.0400	0.0078	10	-0.86	Low	0
321.99	Acid Soluble Zinc , Other (0.13%)	0519	0.1200	0.0200	0.1516	0.0400	0.0078	10	-0.73	Low	0
321.99	Acid Soluble Zinc , Other (0.13%)	0027	0.1355	0.0130	0.1516	0.0400	0.0078	10	-0.37	OK	0
321.99	Acid Soluble Zinc , Other (0.13%)	0523	0.1530	0.0080	0.1516	0.0400	0.0078	10	0.03	OK	0
321.99	Acid Soluble Zinc , Other (0.13%)	0476	0.1622	0.0181	0.1516	0.0400	0.0078	10	0.25	OK	0
321.99	Acid Soluble Zinc , Other (0.13%)	0389	0.1720	0.0000	0.1516	0.0400	0.0078	10	0.47	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0515	0.1779	0.0027	0.1516	0.0400	0.0078	10	0.61	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0524	0.1900	0.0000	0.1516	0.0400	0.0078	10	0.89	High	0
321.99	Acid Soluble Zinc , Other (0.13%)	0368	0.1993	0.0099	0.1516	0.0400	0.0078	10	1.11	High	0
325.00	Water Soluble Zinc , AA (%)	0550	0.0037	0.0018	0.1618	0.2174	0.1830	5	-0.73		0
325.00	Water Soluble Zinc , AA (%)	0027	0.0500	0.0020	0.1618	0.2174	0.1830	5	-0.51		0
325.00	Water Soluble Zinc , AA (%)	0539	0.1040	0.0120	0.1618	0.2174	0.1830	5	-0.27		0
325.00	Water Soluble Zinc , AA (%)	0532	0.1085	0.0230	0.1618	0.2174	0.1830	5	-0.25		0
325.00	Water Soluble Zinc , AA (%)	0537	0.5430	0.8760	0.1618	0.2174	0.1830	5	1.75		0
325.30	Water Soluble Zinc , ICP (%)	0117	0.0015	0.0003	0.2032	0.2114	0.1108	3	-0.95		0
325.30	Water Soluble Zinc , ICP (%)	0541	0.1850	0.0300	0.2032	0.2114	0.1108	3	-0.09		0
325.30	Water Soluble Zinc , ICP (%)	0543	0.4230	0.3020	0.2032	0.2114	0.1108	3	1.04		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 \pm 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.