

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 190811

11-52-0 MAP

Statistical Summary

Analytes: 32

Labs Reporting: 88

Issue Date : 09/30/2019

Analyte Code	Analyte Sample # 190811	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
001	Ammoniacal Nitrogen (%)	30	29	11.04	0.3660	11.03		0.3294	0.0765	2.99%		0.1449	2.79%
010	Total Nitrogen (11%)	75	74	11.07	0.2710	11.10	0.5965	0.1977	0.0287	1.78%	0.77	0.1243	2.78%
020	Total Phosphorus as P2O5 (%)	49	47	51.58	2.890	51.85		1.367	0.2493	2.64%		0.4204	2.21%
030	Citrate Insoluble Phosphorus as P2O5 (%)	3	3	0.0217	0.0104	0.0217		0.0104	0.0075	48.04%		0.0033	7.12%
040	Indirect Available Phosphorus as P2O5 (52%)	4	4	52.22	0.4012	52.22	1.1034	0.4012	0.2508	0.77%	0.85	0.0425	2.21%
041	Direct Available Phosphorus as P2O5 (52%)	42	41	52.22	0.9531	52.11	1.1017	0.6851	0.1337	1.31%	1.45	0.3359	2.21%
042	Water Soluble OrthoP as P2O5 (%)	1		46.77									
048	Water Soluble Phosphorus as P2O5 (%)	17	16	45.29	7.011	46.50		1.819	0.5683	3.91%		0.2730	2.24%
050	Soluble Potassium as K2O (%)	11	9	6.018	17.29	0.2669	0.4100	0.0582	0.0242	21.80%	0.33	0.0865	4.88%
060	Water (Free) (%)	7	7	2.115	0.5651	2.165		0.5212	0.2463	24.08%		0.0444	3.56%
101	Acid Soluble Calcium (%)	10	9	0.3339	0.1437	0.3495	0.2175	0.1238	0.0516	35.42%	1.33	0.0098	4.69%
121	Acid Soluble Magnesium (%)	13	12	1.365	0.1497	1.367	0.2683	0.1601	0.0578	11.71%	1.39	0.0820	3.82%
143	Elemental Sulfur (%)	2	2	1.560	0.1276								
148	Total Sulfur (%)	4	4	1.463	0.2463	1.463	0.2731	0.2463	0.1539	16.84%	2.10	0.0574	3.78%
149	Sulfur - HNO3 soluble (%)	1		1.594									
151	Acid Soluble Arsenic (ppm)	14	8	1.639	1.086	1.518		0.8722	0.3855	57.46%		0.2608	15.02%
165	Acid Soluble Boron (%)	7	5	0.0189	0.0061	0.0189	0.0058	0.0061	0.0034	32.38%	2.44	0.0057	7.27%
181	Acid Soluble Cadmium (ppm)	21	18	61.96	12.45	63.83		9.229	2.719	14.46%		3.365	8.56%
190	Water Soluble Chlorine (%)	1		48.35									
191	Acid Soluble Chromium (ppm)	20	19	271.1	115.0	280.7		73.28	21.01	26.11%		30.96	6.85%
202	Acid Soluble Cobalt (ppm)	16	9	2.391	1.117	2.438	1.7313	1.159	0.4831	47.56%	1.56	0.1988	13.99%
221	Acid Soluble Copper (%)	14	6	0.0011	0.0009	0.0011	0.0051	0.0010	0.0005	86.45%	0.45	0.0004	11.09%
241	Acid Soluble Iron (%)	13	12	1.614	0.1576	1.589	0.1639	0.1117	0.0403	7.03%	1.59	0.0825	3.73%
251	Acid Soluble Lead (ppm)	15	9	1.131	1.460	0.7575		0.5254	0.2189	69.37%		0.2048	16.68%
261	Acid Soluble Manganese (%)	10	9	0.0270	0.0037	0.0271	0.0077	0.0039	0.0016	14.25%	1.17	0.0040	6.88%
281	Acid Soluble Mercury (ppm)	8	4	2.131	4.246	2.131		4.246	2.654	199.26%		1.500	14.28%
289	Acid Soluble Molybdenum (ppm)	15	13	15.34	9.096	13.50	5.0509	3.696	1.281	27.37%	1.71	2.147	10.81%
291	Acid Soluble Nickel (ppm)	20	17	43.87	12.37	46.03		7.095	2.151	15.41%		2.608	8.99%
301	Acid Soluble Selenium (ppm)	10	3	4.475	7.429	4.475		7.429	5.361	166.00%		1.412	12.77%
311	Sodium (%)	5	5	0.2017	0.0875	0.2017	0.0252	0.0875	0.0489	43.40%	8.10	0.0074	5.09%
321	Acid Soluble Zinc (%)	28	27	0.1208	0.1842	0.0915	0.0142	0.0124	0.0030	13.59%	2.05	0.0448	5.73%
325	Water Soluble Zinc (%)	1		0.5000									

The Analyte IA Ratio = 2.33 * Robust SD / IA at the Analyte 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

Analyte Code	Analyte Sample # 190811	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Horwitz %RSD
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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.

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Analyte Proficiency From All Labs

Sample # 190811

11-52-0 MAP

Lab Values

Analytes: 32

Labs Reporting: 88

Issue Date : 09/30/2019

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001	Ammoniacal Nitrogen (%)	0394	10.20	0.0720	11.03	0.3294	0.1449	29	-2.51	001.99	0
001	Ammoniacal Nitrogen (%)	0553	10.55	0.7000	11.03	0.3294	0.1449	29	-1.45	001.99	0
001	Ammoniacal Nitrogen (%)	0526	10.59	0.0000	11.03	0.3294	0.1449	29	-1.34	001.10	0
001	Ammoniacal Nitrogen (%)	0309	10.59	0.0000	11.03	0.3294	0.1449	29	-1.33	001.10	0
001	Ammoniacal Nitrogen (%)	0451	10.63	0.1500	11.03	0.3294	0.1449	29	-1.23	001.10	0
001	Ammoniacal Nitrogen (%)	0551	10.71	0.0400	11.03	0.3294	0.1449	29	-0.97	001.99	0
001	Ammoniacal Nitrogen (%)	0513	10.72	0.0500	11.03	0.3294	0.1449	29	-0.95	001.99	0
001	Ammoniacal Nitrogen (%)	0551	10.73	0.0500	11.03	0.3294	0.1449	29	-0.92	001.10	0
001	Ammoniacal Nitrogen (%)	0456	10.85	0.1400	11.03	0.3294	0.1449	29	-0.54	001.10	0
001	Ammoniacal Nitrogen (%)	0481	10.95	0.1000	11.03	0.3294	0.1449	29	-0.24	001.10	0
001	Ammoniacal Nitrogen (%)	0558	11.00	0.0000	11.03	0.3294	0.1449	29	-0.09	001.99	0
001	Ammoniacal Nitrogen (%)	0520	11.02	0.2300	11.03	0.3294	0.1449	29	-0.04	001.99	0
001	Ammoniacal Nitrogen (%)	0220	11.07	0.0200	11.03	0.3294	0.1449	29	0.12	001.99	0
001	Ammoniacal Nitrogen (%)	0532	11.09	0.0700	11.03	0.3294	0.1449	29	0.17	001.99	0
001	Ammoniacal Nitrogen (%)	0527	11.10	0.0000	11.03	0.3294	0.1449	29	0.21	001.99	0
001	Ammoniacal Nitrogen (%)	0027	11.10	0.0600	11.03	0.3294	0.1449	29	0.21	001.99	0
001	Ammoniacal Nitrogen (%)	0117	11.12	0.0200	11.03	0.3294	0.1449	29	0.28	001.10	0
001	Ammoniacal Nitrogen (%)	0029	11.13	0.0600	11.03	0.3294	0.1449	29	0.31	001.99	0
001	Ammoniacal Nitrogen (%)	0476	11.19	0.0423	11.03	0.3294	0.1449	29	0.49	001.99	0
001	Ammoniacal Nitrogen (%)	0096	11.20	0.0400	11.03	0.3294	0.1449	29	0.52	001.99	0
001	Ammoniacal Nitrogen (%)	0537	11.20	0.4600	11.03	0.3294	0.1449	29	0.52	001.99	0
001	Ammoniacal Nitrogen (%)	0420	11.27	0.3100	11.03	0.3294	0.1449	29	0.72	001.99	0
001	Ammoniacal Nitrogen (%)	0522	11.27	0.0450	11.03	0.3294	0.1449	29	0.74	001.99	0
001	Ammoniacal Nitrogen (%)	0510	11.27	0.2174	11.03	0.3294	0.1449	29	0.74	001.99	0
001	Ammoniacal Nitrogen (%)	0405	11.29	0.0400	11.03	0.3294	0.1449	29	0.79	001.99	0
001	Ammoniacal Nitrogen (%)	0559	11.33	0.0500	11.03	0.3294	0.1449	29	0.90	001.99	0
001	Ammoniacal Nitrogen (%)	0544	11.42	0.0600	11.03	0.3294	0.1449	29	1.19	001.99	0
001	Ammoniacal Nitrogen (%)	0550	11.43	0.0400	11.03	0.3294	0.1449	29	1.22	001.99	0
001	Ammoniacal Nitrogen (%)	0524	12.12	1.137	11.03	0.3294	0.1449	29	3.32	001.99	0
001	Ammoniacal Nitrogen (%)	0255	12.09	1.480	11.03	0.3294	0.1449	29	3.22	001.99	1
010	Total Nitrogen (11%)	0526	9.810†	0.0000	11.10	0.1977	0.1243	74	-6.54	010.17	0
010	Total Nitrogen (11%)	0042	10.41†	0.3200	11.10	0.1977	0.1243	74	-3.50	010.60	0
010	Total Nitrogen (11%)	0117	10.50†	0.0000	11.10	0.1977	0.1243	74	-3.05	010.12	0
010	Total Nitrogen (11%)	0356	10.51†	0.4300	11.10	0.1977	0.1243	74	-3.02	010.60	0
010	Total Nitrogen (11%)	0553	10.55	0.7000	11.10	0.1977	0.1243	74	-2.79	010.99	0
010	Total Nitrogen (11%)	0422	10.63	0.0200	11.10	0.1977	0.1243	74	-2.39	010.60	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (11%)	0117	10.70	0.0000	11.10	0.1977	0.1243	74	-2.04	010.60	0
010	Total Nitrogen (11%)	0523	10.80	0.0000	11.10	0.1977	0.1243	74	-1.53	010.60	0
010	Total Nitrogen (11%)	0073	10.82	0.2100	11.10	0.1977	0.1243	74	-1.45	010.60	0
010	Total Nitrogen (11%)	0485	10.84	0.2600	11.10	0.1977	0.1243	74	-1.33	010.60	0
010	Total Nitrogen (11%)	0450	10.85	0.1000	11.10	0.1977	0.1243	74	-1.28	010.60	0
010	Total Nitrogen (11%)	0547	10.87	0.0700	11.10	0.1977	0.1243	74	-1.20	010.60	0
010	Total Nitrogen (11%)	0394	10.90	0.0200	11.10	0.1977	0.1243	74	-1.04	010.99	0
010	Total Nitrogen (11%)	0481	10.90	0.2000	11.10	0.1977	0.1243	74	-1.02	010.60	0
010	Total Nitrogen (11%)	0292	10.91	0.0600	11.10	0.1977	0.1243	74	-0.97	010.60	0
010	Total Nitrogen (11%)	0234	10.95	0.1000	11.10	0.1977	0.1243	74	-0.77	010.60	0
010	Total Nitrogen (11%)	0309	10.96	0.2800	11.10	0.1977	0.1243	74	-0.72	010.11	0
010	Total Nitrogen (11%)	0070	10.98	0.3000	11.10	0.1977	0.1243	74	-0.62	010.60	0
010	Total Nitrogen (11%)	0444	10.98	0.0400	11.10	0.1977	0.1243	74	-0.62	010.60	0
010	Total Nitrogen (11%)	0055	10.98	0.2230	11.10	0.1977	0.1243	74	-0.60	010.60	0
010	Total Nitrogen (11%)	0558	11.00	0.0000	11.10	0.1977	0.1243	74	-0.52	010.99	0
010	Total Nitrogen (11%)	0086	11.01	0.1640	11.10	0.1977	0.1243	74	-0.49	010.60	0
010	Total Nitrogen (11%)	0023	11.01	0.0900	11.10	0.1977	0.1243	74	-0.49	010.60	0
010	Total Nitrogen (11%)	0255	11.02	0.6040	11.10	0.1977	0.1243	74	-0.40	010.60	0
010	Total Nitrogen (11%)	0421	11.03	0.0100	11.10	0.1977	0.1243	74	-0.39	010.60	0
010	Total Nitrogen (11%)	0177	11.04	0.0200	11.10	0.1977	0.1243	74	-0.32	010.60	0
010	Total Nitrogen (11%)	0324	11.05	0.3000	11.10	0.1977	0.1243	74	-0.27	010.60	0
010	Total Nitrogen (11%)	0493	11.05	0.1000	11.10	0.1977	0.1243	74	-0.27	010.99	0
010	Total Nitrogen (11%)	0519	11.06	0.0200	11.10	0.1977	0.1243	74	-0.22	010.99	0
010	Total Nitrogen (11%)	0096	11.08	0.0500	11.10	0.1977	0.1243	74	-0.14	010.60	0
010	Total Nitrogen (11%)	0325	11.10	0.2000	11.10	0.1977	0.1243	74	-0.01	010.60	0
010	Total Nitrogen (11%)	0518	11.10	0.4000	11.10	0.1977	0.1243	74	-0.01	010.99	0
010	Total Nitrogen (11%)	0527	11.11	0.1840	11.10	0.1977	0.1243	74	0.01	010.60	0
010	Total Nitrogen (11%)	0524	11.11	0.0676	11.10	0.1977	0.1243	74	0.04	010.99	0
010	Total Nitrogen (11%)	0405	11.12	0.0200	11.10	0.1977	0.1243	74	0.09	010.60	0
010	Total Nitrogen (11%)	0095	11.13	0.0800	11.10	0.1977	0.1243	74	0.14	010.60	0
010	Total Nitrogen (11%)	0105	11.13	0.0400	11.10	0.1977	0.1243	74	0.14	010.60	0
010	Total Nitrogen (11%)	0185	11.14	0.0500	11.10	0.1977	0.1243	74	0.16	010.60	0
010	Total Nitrogen (11%)	0037	11.14	0.1140	11.10	0.1977	0.1243	74	0.18	010.60	0
010	Total Nitrogen (11%)	0390	11.15	0.0300	11.10	0.1977	0.1243	74	0.21	010.60	0
010	Total Nitrogen (11%)	0482	11.15	0.1000	11.10	0.1977	0.1243	74	0.24	010.60	0
010	Total Nitrogen (11%)	0481	11.15	0.1000	11.10	0.1977	0.1243	74	0.24	010.99	0
010	Total Nitrogen (11%)	0307	11.16	0.2500	11.10	0.1977	0.1243	74	0.27	010.60	0
010	Total Nitrogen (11%)	0494	11.16	0.0100	11.10	0.1977	0.1243	74	0.27	010.60	0
010	Total Nitrogen (11%)	0220	11.17	0.1100	11.10	0.1977	0.1243	74	0.32	010.11	0
010	Total Nitrogen (11%)	0043	11.17	0.0700	11.10	0.1977	0.1243	74	0.32	010.60	0
010	Total Nitrogen (11%)	0550	11.19	0.0200	11.10	0.1977	0.1243	74	0.44	010.60	0
010	Total Nitrogen (11%)	0561	11.20	0.0500	11.10	0.1977	0.1243	74	0.47	010.60	0
010	Total Nitrogen (11%)	0105	11.20	0.0000	11.10	0.1977	0.1243	74	0.49	010.11	0
010	Total Nitrogen (11%)	0040	11.20	0.2000	11.10	0.1977	0.1243	74	0.49	010.60	0
010	Total Nitrogen (11%)	0230	11.20	0.0000	11.10	0.1977	0.1243	74	0.49	010.60	0
010	Total Nitrogen (11%)	0555	11.20	0.0000	11.10	0.1977	0.1243	74	0.49	010.60	0
010	Total Nitrogen (11%)	0456	11.22	0.0900	11.10	0.1977	0.1243	74	0.57	010.11	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (11%)	0452	11.22	0.0500	11.10	0.1977	0.1243	74	0.57	010.60	0
010	Total Nitrogen (11%)	0131	11.22	0.0370	11.10	0.1977	0.1243	74	0.59	010.60	0
010	Total Nitrogen (11%)	0169	11.24	0.1200	11.10	0.1977	0.1243	74	0.70	010.60	0
010	Total Nitrogen (11%)	0371	11.25	0.1900	11.10	0.1977	0.1243	74	0.72	010.99	0
010	Total Nitrogen (11%)	0472	11.26	0.1500	11.10	0.1977	0.1243	74	0.77	010.60	0
010	Total Nitrogen (11%)	0416	11.26	0.0600	11.10	0.1977	0.1243	74	0.80	010.11	0
010	Total Nitrogen (11%)	0377	11.27	0.0400	11.10	0.1977	0.1243	74	0.85	010.60	0
010	Total Nitrogen (11%)	0029	11.28	0.1100	11.10	0.1977	0.1243	74	0.87	010.60	0
010	Total Nitrogen (11%)	0025	11.29	0.0300	11.10	0.1977	0.1243	74	0.92	010.60	0
010	Total Nitrogen (11%)	0018	11.30	0.0000	11.10	0.1977	0.1243	74	1.00	010.60	0
010	Total Nitrogen (11%)	0035	11.30	0.2000	11.10	0.1977	0.1243	74	1.00	010.60	0
010	Total Nitrogen (11%)	0354	11.30	0.0000	11.10	0.1977	0.1243	74	1.00	010.60	0
010	Total Nitrogen (11%)	0451	11.30	0.1600	11.10	0.1977	0.1243	74	1.00	010.60	0
010	Total Nitrogen (11%)	0556	11.31	0.1900	11.10	0.1977	0.1243	74	1.02	010.99	0
010	Total Nitrogen (11%)	0546	11.31	0.3000	11.10	0.1977	0.1243	74	1.05	010.11	0
010	Total Nitrogen (11%)	0360	11.33	0.0200	11.10	0.1977	0.1243	74	1.15	010.60	0
010	Total Nitrogen (11%)	0102	11.34	0.0800	11.10	0.1977	0.1243	74	1.20	010.60	0
010	Total Nitrogen (11%)	0559	11.38	0.0500	11.10	0.1977	0.1243	74	1.38	010.99	0
010	Total Nitrogen (11%)	0041	11.46	0.0800	11.10	0.1977	0.1243	74	1.81	010.60	0
010	Total Nitrogen (11%)	0510	11.54	0.3619	11.10	0.1977	0.1243	74	2.20	010.11	0
010	Total Nitrogen (11%)	0420	11.56	0.0900	11.10	0.1977	0.1243	74	2.29	010.99	0
010	Total Nitrogen (11%)	0027	5,262±	10,502	11.10	0.1977	0.1243	74	26556.87	010.60	2
020	Total Phosphorus as P2O5 (%)	0523	40.25	0.1000	51.85	1.367	0.4204	47	-8.49	020.50	0
020	Total Phosphorus as P2O5 (%)	0451	43.44	0.5600	51.85	1.367	0.4204	47	-6.15	020.50	0
020	Total Phosphorus as P2O5 (%)	0157	46.75	0.7000	51.85	1.367	0.4204	47	-3.73	020.50	0
020	Total Phosphorus as P2O5 (%)	0309	47.39	0.7600	51.85	1.367	0.4204	47	-3.27	020.20	0
020	Total Phosphorus as P2O5 (%)	0042	49.30	0.0000	51.85	1.367	0.4204	47	-1.87	020.50	0
020	Total Phosphorus as P2O5 (%)	0527	49.31	0.1770	51.85	1.367	0.4204	47	-1.86	020.50	0
020	Total Phosphorus as P2O5 (%)	0472	49.33	0.0600	51.85	1.367	0.4204	47	-1.85	020.50	0
020	Total Phosphorus as P2O5 (%)	0390	49.34	3.030	51.85	1.367	0.4204	47	-1.84	020.50	0
020	Total Phosphorus as P2O5 (%)	0292	50.79	0.1000	51.85	1.367	0.4204	47	-0.78	020.20	0
020	Total Phosphorus as P2O5 (%)	0444	51.03	0.2100	51.85	1.367	0.4204	47	-0.61	020.50	0
020	Total Phosphorus as P2O5 (%)	0324	51.10	0.8000	51.85	1.367	0.4204	47	-0.55	020.20	0
020	Total Phosphorus as P2O5 (%)	0433	51.11	0.1100	51.85	1.367	0.4204	47	-0.55	020.50	0
020	Total Phosphorus as P2O5 (%)	0553	51.30	0.4000	51.85	1.367	0.4204	47	-0.41	020.20	0
020	Total Phosphorus as P2O5 (%)	0389	51.31	1.890	51.85	1.367	0.4204	47	-0.40	020.50	0
020	Total Phosphorus as P2O5 (%)	0035	51.50	0.6000	51.85	1.367	0.4204	47	-0.26	020.40	0
020	Total Phosphorus as P2O5 (%)	0520	51.59	0.5200	51.85	1.367	0.4204	47	-0.19	020.99	0
020	Total Phosphorus as P2O5 (%)	0558	51.75	0.1000	51.85	1.367	0.4204	47	-0.08	020.20	0
020	Total Phosphorus as P2O5 (%)	0482	51.90	0.0000	51.85	1.367	0.4204	47	0.03	020.50	0
020	Total Phosphorus as P2O5 (%)	0096	51.93	0.1500	51.85	1.367	0.4204	47	0.05	020.40	0
020	Total Phosphorus as P2O5 (%)	0405	51.97	0.0100	51.85	1.367	0.4204	47	0.08	020.20	0
020	Total Phosphorus as P2O5 (%)	0450	51.97	0.4100	51.85	1.367	0.4204	47	0.08	020.20	0
020	Total Phosphorus as P2O5 (%)	0169	52.01	0.1500	51.85	1.367	0.4204	47	0.11	020.20	0
020	Total Phosphorus as P2O5 (%)	0552	52.01	1.450	51.85	1.367	0.4204	47	0.11	020.50	0
020	Total Phosphorus as P2O5 (%)	0559	52.02	0.0700	51.85	1.367	0.4204	47	0.12	020.99	0
020	Total Phosphorus as P2O5 (%)	0510	52.04	0.0073	51.85	1.367	0.4204	47	0.13	020.20	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
020	Total Phosphorus as P2O5 (%)	0356	52.09	0.0100	51.85	1.367	0.4204	47	0.17	020.20	0
020	Total Phosphorus as P2O5 (%)	0493	52.10	0.1000	51.85	1.367	0.4204	47	0.18	020.10	0
020	Total Phosphorus as P2O5 (%)	0456	52.10	0.2000	51.85	1.367	0.4204	47	0.18	020.40	0
020	Total Phosphorus as P2O5 (%)	0394	52.12	0.0260	51.85	1.367	0.4204	47	0.20	020.20	0
020	Total Phosphorus as P2O5 (%)	0476	52.19	0.0461	51.85	1.367	0.4204	47	0.25	020.20	0
020	Total Phosphorus as P2O5 (%)	0547	52.25	0.3000	51.85	1.367	0.4204	47	0.29	020.50	0
020	Total Phosphorus as P2O5 (%)	0420	52.28	0.0500	51.85	1.367	0.4204	47	0.31	020.20	0
020	Total Phosphorus as P2O5 (%)	0027	52.31	0.6800	51.85	1.367	0.4204	47	0.33	020.20	0
020	Total Phosphorus as P2O5 (%)	0561	52.36	0.0600	51.85	1.367	0.4204	47	0.37	020.20	0
020	Total Phosphorus as P2O5 (%)	0371	52.40	0.4000	51.85	1.367	0.4204	47	0.40	020.20	0
020	Total Phosphorus as P2O5 (%)	0444	52.60	0.0000	51.85	1.367	0.4204	47	0.55	020.10	0
020	Total Phosphorus as P2O5 (%)	0550	52.62	0.6400	51.85	1.367	0.4204	47	0.56	020.20	0
020	Total Phosphorus as P2O5 (%)	0513	52.69	0.0700	51.85	1.367	0.4204	47	0.61	020.99	0
020	Total Phosphorus as P2O5 (%)	0220	52.76	0.0200	51.85	1.367	0.4204	47	0.66	020.20	0
020	Total Phosphorus as P2O5 (%)	0416	52.80	0.1600	51.85	1.367	0.4204	47	0.69	020.20	0
020	Total Phosphorus as P2O5 (%)	0522	52.95	0.0300	51.85	1.367	0.4204	47	0.80	020.20	0
020	Total Phosphorus as P2O5 (%)	0234	53.30	0.2000	51.85	1.367	0.4204	47	1.06	020.50	0
020	Total Phosphorus as P2O5 (%)	0255	54.23	1.557	51.85	1.367	0.4204	47	1.74	020.50	0
020	Total Phosphorus as P2O5 (%)	0481	54.80	0.0000	51.85	1.367	0.4204	47	2.15	020.20	0
020	Total Phosphorus as P2O5 (%)	0422	55.65	1.500	51.85	1.367	0.4204	47	2.78	020.50	0
020	Total Phosphorus as P2O5 (%)	0515	55.90	0.8465	51.85	1.367	0.4204	47	2.96	020.99	0
020	Total Phosphorus as P2O5 (%)	0542	59.17	0.5000	51.85	1.367	0.4204	47	5.35	020.50	0
020	Total Phosphorus as P2O5 (%)	0157	50.40	5.000	51.85	1.367	0.4204	47	-1.06	020.10	1
020	Total Phosphorus as P2O5 (%)	0524	55.08	8.312	51.85	1.367	0.4204	47	2.36	020.50	1
030	Citrate Insoluble Phosphorus as P2O5 (%)	0561	0.0100	0.0000	0.0217	0.0104	0.0033	3	-1.12	030.20	0
030	Citrate Insoluble Phosphorus as P2O5 (%)	0220	0.0250	0.0100	0.0217	0.0104	0.0033	3	0.32	030.20	0
030	Citrate Insoluble Phosphorus as P2O5 (%)	0096	0.0300	0.0000	0.0217	0.0104	0.0033	3	0.80	030.40	0
040	Indirect Available Phosphorus as P2O5 (52%)	0096	51.87	0.1000	52.22	0.4012	0.0425	4	-0.88	040.40	0
040	Indirect Available Phosphorus as P2O5 (52%)	0405	51.94	0.0000	52.22	0.4012	0.0425	4	-0.71	040.20	0
040	Indirect Available Phosphorus as P2O5 (52%)	0561	52.35	0.0600	52.22	0.4012	0.0425	4	0.31	040.20	0
040	Indirect Available Phosphorus as P2O5 (52%)	0220	52.74	0.0100	52.22	0.4012	0.0425	4	1.27	040.20	0
041	Direct Available Phosphorus as P2O5 (52%)	0377	50.79†	0.0600	52.11	0.6851	0.3359	41	-1.93	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0537	50.82†	0.3400	52.11	0.6851	0.3359	41	-1.89	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0027	50.99†	1.240	52.11	0.6851	0.3359	41	-1.64	041.20	0
041	Direct Available Phosphorus as P2O5 (52%)	0049	51.00†	0.2900	52.11	0.6851	0.3359	41	-1.63	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0095	51.11	0.6400	52.11	0.6851	0.3359	41	-1.46	041.40	0
041	Direct Available Phosphorus as P2O5 (52%)	0532	51.36	0.4800	52.11	0.6851	0.3359	41	-1.10	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0472	51.49	0.5600	52.11	0.6851	0.3359	41	-0.91	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0102	51.55	0.9000	52.11	0.6851	0.3359	41	-0.82	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0421	51.55	0.1000	52.11	0.6851	0.3359	41	-0.82	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0055	51.66	0.0100	52.11	0.6851	0.3359	41	-0.67	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0551	51.70	0.4000	52.11	0.6851	0.3359	41	-0.60	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0544	51.80	0.0400	52.11	0.6851	0.3359	41	-0.46	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0055	51.83	0.2600	52.11	0.6851	0.3359	41	-0.41	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0360	51.83	0.2800	52.11	0.6851	0.3359	41	-0.41	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0405	51.83	0.0200	52.11	0.6851	0.3359	41	-0.41	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0177	51.90	0.0528	52.11	0.6851	0.3359	41	-0.31	041.21	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
041	Direct Available Phosphorus as P2O5 (52%)	0040	52.00	0.2000	52.11	0.6851	0.3359	41	-0.17	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0018	52.10	0.6000	52.11	0.6851	0.3359	41	-0.02	041.40	0
041	Direct Available Phosphorus as P2O5 (52%)	0519	52.10	0.0200	52.11	0.6851	0.3359	41	-0.02	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0177	52.13	0.1929	52.11	0.6851	0.3359	41	0.02	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0037	52.21	0.0520	52.11	0.6851	0.3359	41	0.14	041.40	0
041	Direct Available Phosphorus as P2O5 (52%)	0452	52.23	0.3000	52.11	0.6851	0.3359	41	0.17	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0041	52.25	0.1100	52.11	0.6851	0.3359	41	0.19	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0522	52.30	0.2500	52.11	0.6851	0.3359	41	0.27	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0117	52.33	0.1193	52.11	0.6851	0.3359	41	0.32	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0325	52.35	0.7000	52.11	0.6851	0.3359	41	0.35	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0485	52.35	0.1860	52.11	0.6851	0.3359	41	0.35	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0394	52.36	0.2540	52.11	0.6851	0.3359	41	0.36	041.60	0
041	Direct Available Phosphorus as P2O5 (52%)	0086	52.39	0.0839	52.11	0.6851	0.3359	41	0.40	041.10	0
041	Direct Available Phosphorus as P2O5 (52%)	0023	52.46	0.0100	52.11	0.6851	0.3359	41	0.50	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0117	52.50	0.8000	52.11	0.6851	0.3359	41	0.56	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0354	52.50	0.2000	52.11	0.6851	0.3359	41	0.56	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0025	52.55	1.100	52.11	0.6851	0.3359	41	0.64	041.51	0
041	Direct Available Phosphorus as P2O5 (52%)	0518	52.55	0.3000	52.11	0.6851	0.3359	41	0.64	041.99	0
041	Direct Available Phosphorus as P2O5 (52%)	0513	52.62	0.0300	52.11	0.6851	0.3359	41	0.73	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0220	52.84	0.0900	52.11	0.6851	0.3359	41	1.05	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0073	53.03	0.2400	52.11	0.6851	0.3359	41	1.34	041.11	0
041	Direct Available Phosphorus as P2O5 (52%)	0555	53.69‡	0.5900	52.11	0.6851	0.3359	41	2.29	041.50	0
041	Direct Available Phosphorus as P2O5 (52%)	0029	53.75‡	0.1700	52.11	0.6851	0.3359	41	2.38	041.40	0
041	Direct Available Phosphorus as P2O5 (52%)	0526	53.91‡	0.0000	52.11	0.6851	0.3359	41	2.63	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0230	56.15‡	1.500	52.11	0.6851	0.3359	41	5.89	041.21	0
041	Direct Available Phosphorus as P2O5 (52%)	0043	50.47†	1.700	52.11	0.6851	0.3359	41	-2.40	041.51	1
042	Water Soluble OrthoP as P2O5 (%)	0559	46.77	0.0400				1		042.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0389	20.17	0.3400	46.50	1.819	0.2730	16	-14.48	048.50	0
048	Water Soluble Phosphorus as P2O5 (%)	0553	43.70	0.4000	46.50	1.819	0.2730	16	-1.54	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0526	44.14	0.3292	46.50	1.819	0.2730	16	-1.30	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0394	46.00	0.4880	46.50	1.819	0.2730	16	-0.28	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	46.00	0.0800	46.50	1.819	0.2730	16	-0.28	048.10	0
048	Water Soluble Phosphorus as P2O5 (%)	0558	46.10	0.2000	46.50	1.819	0.2730	16	-0.22	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0096	46.43	0.0200	46.50	1.819	0.2730	16	-0.04	048.40	0
048	Water Soluble Phosphorus as P2O5 (%)	0546	46.59	0.0200	46.50	1.819	0.2730	16	0.05	048.50	0
048	Water Soluble Phosphorus as P2O5 (%)	0405	46.61	0.1000	46.50	1.819	0.2730	16	0.06	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0561	46.96	0.2100	46.50	1.819	0.2730	16	0.25	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0444	47.20	0.5600	46.50	1.819	0.2730	16	0.38	048.50	0
048	Water Soluble Phosphorus as P2O5 (%)	0420	47.22	0.8000	46.50	1.819	0.2730	16	0.40	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0513	47.37	0.0600	46.50	1.819	0.2730	16	0.48	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0220	47.40	0.0800	46.50	1.819	0.2730	16	0.49	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0550	50.08	0.3800	46.50	1.819	0.2730	16	1.97	048.20	0
048	Water Soluble Phosphorus as P2O5 (%)	0556	52.65	0.3000	46.50	1.819	0.2730	16	3.38	048.99	0
048	Water Soluble Phosphorus as P2O5 (%)	0309	42.23	1.500	46.50	1.819	0.2730	16	-2.35	048.20	1
050	Soluble Potassium as K2O (%)	0524	0.1595	0.0702	0.2669	0.0582	0.0865	9	-1.70	050.99	0
050	Soluble Potassium as K2O (%)	0325	0.2000	0.2000	0.2669	0.0582	0.0865	9	-1.06	050.99	0
050	Soluble Potassium as K2O (%)	0096	0.2650	0.0100	0.2669	0.0582	0.0865	9	-0.03	050.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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050	Soluble Potassium as K2O (%)	0422	0.2690	0.0300	0.2669	0.0582	0.0865	9	0.03	050.50	0
050	Soluble Potassium as K2O (%)	0482	0.2750	0.0100	0.2669	0.0582	0.0865	9	0.13	050.99	0
050	Soluble Potassium as K2O (%)	0542	0.2750	0.0300	0.2669	0.0582	0.0865	9	0.13	050.99	0
050	Soluble Potassium as K2O (%)	0354	0.2840	0.0080	0.2669	0.0582	0.0865	9	0.27	050.52	0
050	Soluble Potassium as K2O (%)	0389	0.3000	0.0000	0.2669	0.0582	0.0865	9	0.53	050.99	0
050	Soluble Potassium as K2O (%)	0070	52.13	0.4200	0.2669	0.0582	0.0865	9	822.98	050.51	0
050	Soluble Potassium as K2O (%)	0035	63.30	1.200	0.2669	0.0582	0.0865	9	1000.22	050.61	1
050	Soluble Potassium as K2O (%)	0552	0.0000	0.0000	0.2669	0.0582	0.0865	9		050.99	4
060	Water (Free) (%)	0513	1.035	0.0100	2.165	0.5212	0.0444	7	-1.96	060.00	0
060	Water (Free) (%)	0456	1.875	0.1100	2.165	0.5212	0.0444	7	-0.50	060.00	0
060	Water (Free) (%)	0416	1.989	0.0078	2.165	0.5212	0.0444	7	-0.31	060.00	0
060	Water (Free) (%)	0096	2.200	0.0800	2.165	0.5212	0.0444	7	0.06	060.00	0
060	Water (Free) (%)	0510	2.388	0.0432	2.165	0.5212	0.0444	7	0.39	060.99	0
060	Water (Free) (%)	0513	2.655	0.0100	2.165	0.5212	0.0444	7	0.85	060.30	0
060	Water (Free) (%)	0518	2.665	0.0500	2.165	0.5212	0.0444	7	0.87	060.30	0
101	Acid Soluble Calcium (%)	0553	0.0230	0.0040	0.3495	0.1238	0.0098	9	-2.43	101.00	0
101	Acid Soluble Calcium (%)	0105	0.1860	0.0060	0.3495	0.1238	0.0098	9	-1.22	101.00	0
101	Acid Soluble Calcium (%)	0472	0.3300	0.0000	0.3495	0.1238	0.0098	9	-0.15	101.30	0
101	Acid Soluble Calcium (%)	0105	0.3630	0.0380	0.3495	0.1238	0.0098	9	0.10	101.03	0
101	Acid Soluble Calcium (%)	0389	0.3850	0.0100	0.3495	0.1238	0.0098	9	0.26	101.99	0
101	Acid Soluble Calcium (%)	0482	0.4000	0.0000	0.3495	0.1238	0.0098	9	0.38	101.30	0
101	Acid Soluble Calcium (%)	0035	0.4040	0.0060	0.3495	0.1238	0.0098	9	0.41	101.30	0
101	Acid Soluble Calcium (%)	0096	0.4140	0.0040	0.3495	0.1238	0.0098	9	0.48	101.30	0
101	Acid Soluble Calcium (%)	0354	0.5000	0.0200	0.3495	0.1238	0.0098	9	1.12	101.30	0
101	Acid Soluble Calcium (%)	0552	1.825	1.430	0.3495	0.1238	0.0098	9	11.00	101.99	1
121	Acid Soluble Magnesium (%)	0515	1.092	0.4206	1.367	0.1601	0.0820	12	-1.72	121.99	0
121	Acid Soluble Magnesium (%)	0515	1.226	0.0933	1.367	0.1601	0.0820	12	-0.88	121.33	0
121	Acid Soluble Magnesium (%)	0482	1.295	0.0100	1.367	0.1601	0.0820	12	-0.45	121.30	0
121	Acid Soluble Magnesium (%)	0524	1.313	0.0047	1.367	0.1601	0.0820	12	-0.33	121.99	0
121	Acid Soluble Magnesium (%)	0105	1.316	0.0220	1.367	0.1601	0.0820	12	-0.32	121.00	0
121	Acid Soluble Magnesium (%)	0096	1.320	0.0200	1.367	0.1601	0.0820	12	-0.29	121.30	0
121	Acid Soluble Magnesium (%)	0553	1.330	0.2200	1.367	0.1601	0.0820	12	-0.23	121.00	0
121	Acid Soluble Magnesium (%)	0354	1.365	0.0300	1.367	0.1601	0.0820	12	-0.01	121.30	0
121	Acid Soluble Magnesium (%)	0035	1.395	0.0500	1.367	0.1601	0.0820	12	0.18	121.30	0
121	Acid Soluble Magnesium (%)	0390	1.541	0.0130	1.367	0.1601	0.0820	12	1.09	121.30	0
121	Acid Soluble Magnesium (%)	0389	1.565	0.0900	1.367	0.1601	0.0820	12	1.24	121.99	0
121	Acid Soluble Magnesium (%)	0472	1.625	0.0100	1.367	0.1601	0.0820	12	1.61	121.30	0
121	Acid Soluble Magnesium (%)	0552	2.220	1.040	1.367	0.1601	0.0820	12	5.33	121.99	1
143	Elemental Sulfur (%)	0472	1.470	0.0000				2		143.99	0
143	Elemental Sulfur (%)	0390	1.651	0.0170				2		143.99	0
148	Total Sulfur (%)	0515	1.115	0.1195	1.463	0.2463	0.0574	4	-1.41	148.07	0
148	Total Sulfur (%)	0096	1.475	0.0300	1.463	0.2463	0.0574	4	0.05	148.99	0
148	Total Sulfur (%)	0354	1.580	0.0400	1.463	0.2463	0.0574	4	0.48	148.99	0
148	Total Sulfur (%)	0482	1.680	0.0400	1.463	0.2463	0.0574	4	0.88	148.99	0
149	Sulfur - HNO3 soluble (%)	0524	1.594	0.0314				1		149.04	0
151	Acid Soluble Arsenic (ppm)	0550	0.1170	0.0020	1.518	0.8722	0.2608	8	-1.61	151.00	0
151	Acid Soluble Arsenic (ppm)	0405	1.000	0.0000	1.518	0.8722	0.2608	8	-0.59	151.30	0

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151	Acid Soluble Arsenic (ppm)	0096	1.150	0.1000	1.518	0.8722	0.2608	8	-0.42	151.30	0
151	Acid Soluble Arsenic (ppm)	0519	1.475	0.0100	1.518	0.8722	0.2608	8	-0.05	151.99	0
151	Acid Soluble Arsenic (ppm)	0524	1.558	0.0050	1.518	0.8722	0.2608	8	0.05	151.30	0
151	Acid Soluble Arsenic (ppm)	0450	1.950	0.1000	1.518	0.8722	0.2608	8	0.50	151.30	0
151	Acid Soluble Arsenic (ppm)	0481	1.975	0.0100	1.518	0.8722	0.2608	8	0.52	151.99	0
151	Acid Soluble Arsenic (ppm)	0255	3.887	1.859	1.518	0.8722	0.2608	8	2.72	151.30	0
151	Acid Soluble Arsenic (ppm)	0555	4,349	425.2	1.518	0.8722	0.2608	8	4984.57	151.30	2
151	Acid Soluble Arsenic (ppm)	0515	0.0000	0.0000	1.518	0.8722	0.2608	8		151.33	4
151	Acid Soluble Arsenic (ppm)	0515	0.0000	0.0000	1.518	0.8722	0.2608	8		151.34	4
151	Acid Soluble Arsenic (ppm)	0027	< 0.002		1.518	0.8722	0.2608	8		151.30	5
151	Acid Soluble Arsenic (ppm)	0520	< 0.04		1.518	0.8722	0.2608	8		151.99	5
151	Acid Soluble Arsenic (ppm)	0526	< 50		1.518	0.8722	0.2608	8		151.00	5
165	Acid Soluble Boron (%)	0524	0.0105	0.0003	0.0189	0.0061	0.0057	5	-1.20	165.99	0
165	Acid Soluble Boron (%)	0482	0.0150	0.0100	0.0189	0.0061	0.0057	5	-0.55	165.99	0
165	Acid Soluble Boron (%)	0472	0.0200	0.0000	0.0189	0.0061	0.0057	5	0.16	165.99	0
165	Acid Soluble Boron (%)	0515	0.0238	0.0080	0.0189	0.0061	0.0057	5	0.71	165.99	0
165	Acid Soluble Boron (%)	0354	0.0250	0.0100	0.0189	0.0061	0.0057	5	0.88	165.30	0
165	Acid Soluble Boron (%)	0389	680.0	10.00	0.0189	0.0061	0.0057	5	97238.97	165.30	2
165	Acid Soluble Boron (%)	0552	0.0000	0.0000	0.0189	0.0061	0.0057	5		165.99	4
181	Acid Soluble Cadmium (ppm)	0389	27.40	0.8000	63.83	9.229	3.365	18	-3.95	181.30	0
181	Acid Soluble Cadmium (ppm)	0550	38.81	20.64	63.83	9.229	3.365	18	-2.71	181.00	0
181	Acid Soluble Cadmium (ppm)	0515	54.05	3.313	63.83	9.229	3.365	18	-1.06	181.33	0
181	Acid Soluble Cadmium (ppm)	0444	54.72	0.8300	63.83	9.229	3.365	18	-0.99	181.30	0
181	Acid Soluble Cadmium (ppm)	0035	54.95	3.300	63.83	9.229	3.365	18	-0.96	181.30	0
181	Acid Soluble Cadmium (ppm)	0519	56.06	0.0500	63.83	9.229	3.365	18	-0.84	181.99	0
181	Acid Soluble Cadmium (ppm)	0037	65.22	6.344	63.83	9.229	3.365	18	0.15	181.33	0
181	Acid Soluble Cadmium (ppm)	0394	65.55	0.3000	63.83	9.229	3.365	18	0.19	181.30	0
181	Acid Soluble Cadmium (ppm)	0526	65.89	0.0000	63.83	9.229	3.365	18	0.22	181.00	0
181	Acid Soluble Cadmium (ppm)	0096	66.80	0.2000	63.83	9.229	3.365	18	0.32	181.30	0
181	Acid Soluble Cadmium (ppm)	0405	67.30	4.200	63.83	9.229	3.365	18	0.38	181.30	0
181	Acid Soluble Cadmium (ppm)	0524	69.31	0.0397	63.83	9.229	3.365	18	0.59	181.30	0
181	Acid Soluble Cadmium (ppm)	0450	70.30	1.400	63.83	9.229	3.365	18	0.70	181.30	0
181	Acid Soluble Cadmium (ppm)	0255	70.39	5.476	63.83	9.229	3.365	18	0.71	181.30	0
181	Acid Soluble Cadmium (ppm)	0481	70.65	0.1000	63.83	9.229	3.365	18	0.74	181.99	0
181	Acid Soluble Cadmium (ppm)	0102	71.44	8.512	63.83	9.229	3.365	18	0.82	181.30	0
181	Acid Soluble Cadmium (ppm)	0520	73.16	2.770	63.83	9.229	3.365	18	1.01	181.99	0
181	Acid Soluble Cadmium (ppm)	0482	73.25	2.300	63.83	9.229	3.365	18	1.02	181.30	0
181	Acid Soluble Cadmium (ppm)	0515	34.70	38.19	63.83	9.229	3.365	18	-3.16	181.34	1
181	Acid Soluble Cadmium (ppm)	0027	< 0.002		63.83	9.229	3.365	18		181.30	5
181	Acid Soluble Cadmium (ppm)	0555	< 0.5		63.83	9.229	3.365	18		181.30	5
190	Water Soluble Chlorine (%)	0534	48.35	0.3000				1		190.00	0
191	Acid Soluble Chromium (ppm)	0027	0.0136	0.0000	280.7	73.28	30.96	19	-3.83	191.30	0
191	Acid Soluble Chromium (ppm)	0389	41.40	0.6000	280.7	73.28	30.96	19	-3.27	191.30	0
191	Acid Soluble Chromium (ppm)	0555	152.4	49.63	280.7	73.28	30.96	19	-1.75	191.30	0
191	Acid Soluble Chromium (ppm)	0550	196.8	99.95	280.7	73.28	30.96	19	-1.14	191.00	0
191	Acid Soluble Chromium (ppm)	0519	240.8	0.0400	280.7	73.28	30.96	19	-0.54	191.99	0
191	Acid Soluble Chromium (ppm)	0526	242.4	0.0000	280.7	73.28	30.96	19	-0.52	191.00	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
191	Acid Soluble Chromium (ppm)	0444	273.0	2.000	280.7	73.28	30.96	19	-0.10	191.30	0
191	Acid Soluble Chromium (ppm)	0035	274.5	3.000	280.7	73.28	30.96	19	-0.08	191.30	0
191	Acid Soluble Chromium (ppm)	0524	306.0	76.08	280.7	73.28	30.96	19	0.34	191.30	0
191	Acid Soluble Chromium (ppm)	0394	306.0	2.000	280.7	73.28	30.96	19	0.35	191.30	0
191	Acid Soluble Chromium (ppm)	0520	315.1	2.500	280.7	73.28	30.96	19	0.47	191.99	0
191	Acid Soluble Chromium (ppm)	0037	315.3	25.53	280.7	73.28	30.96	19	0.47	191.33	0
191	Acid Soluble Chromium (ppm)	0096	319.7	3.000	280.7	73.28	30.96	19	0.53	191.30	0
191	Acid Soluble Chromium (ppm)	0481	320.0	4.000	280.7	73.28	30.96	19	0.54	191.99	0
191	Acid Soluble Chromium (ppm)	0405	324.0	4.000	280.7	73.28	30.96	19	0.59	191.30	0
191	Acid Soluble Chromium (ppm)	0482	326.0	4.000	280.7	73.28	30.96	19	0.62	191.30	0
191	Acid Soluble Chromium (ppm)	0450	330.5	3.000	280.7	73.28	30.96	19	0.68	191.30	0
191	Acid Soluble Chromium (ppm)	0102	339.9	12.95	280.7	73.28	30.96	19	0.81	191.30	0
191	Acid Soluble Chromium (ppm)	0515	526.3	296.0	280.7	73.28	30.96	19	3.35	191.33	0
191	Acid Soluble Chromium (ppm)	0515	496.9	389.4	280.7	73.28	30.96	19	2.95	191.34	1
202	Acid Soluble Cobalt (ppm)	0389	0.2760	0.0120	2.438	1.159	0.1988	9	-1.86	202.30	0
202	Acid Soluble Cobalt (ppm)	0519	1.335	0.0100	2.438	1.159	0.1988	9	-0.95	202.99	0
202	Acid Soluble Cobalt (ppm)	0405	2.050	0.1000	2.438	1.159	0.1988	9	-0.33	202.30	0
202	Acid Soluble Cobalt (ppm)	0482	2.400	0.0000	2.438	1.159	0.1988	9	-0.03	202.30	0
202	Acid Soluble Cobalt (ppm)	0550	2.435	1.090	2.438	1.159	0.1988	9	0.00	202.33	0
202	Acid Soluble Cobalt (ppm)	0035	2.585	0.2900	2.438	1.159	0.1988	9	0.13	202.30	0
202	Acid Soluble Cobalt (ppm)	0037	2.805	0.0230	2.438	1.159	0.1988	9	0.32	202.33	0
202	Acid Soluble Cobalt (ppm)	0102	3.715	0.1790	2.438	1.159	0.1988	9	1.10	202.30	0
202	Acid Soluble Cobalt (ppm)	0524	3.915	0.0852	2.438	1.159	0.1988	9	1.27	202.30	0
202	Acid Soluble Cobalt (ppm)	0255	2.067	1.915	2.438	1.159	0.1988	9	-0.32	202.99	1
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	2.438	1.159	0.1988	9		202.33	4
202	Acid Soluble Cobalt (ppm)	0515	0.0000	0.0000	2.438	1.159	0.1988	9		202.34	4
202	Acid Soluble Cobalt (ppm)	0027	< 0.002		2.438	1.159	0.1988	9		202.30	5
202	Acid Soluble Cobalt (ppm)	0526	< 0.01		2.438	1.159	0.1988	9		202.00	5
202	Acid Soluble Cobalt (ppm)	0555	< 0.5		2.438	1.159	0.1988	9		202.30	5
202	Acid Soluble Cobalt (ppm)	0481	< 10		2.438	1.159	0.1988	9		202.99	5
221	Acid Soluble Copper (%)	0095	0.0002	0.0001	0.0011	0.0010	0.0004	6	-1.00	221.32	0
221	Acid Soluble Copper (%)	0524	0.0003	0.0001	0.0011	0.0010	0.0004	6	-0.90	221.99	0
221	Acid Soluble Copper (%)	0519	0.0010	0.0000	0.0011	0.0010	0.0004	6	-0.14	221.99	0
221	Acid Soluble Copper (%)	0515	0.0014	0.0000	0.0011	0.0010	0.0004	6	0.26	221.33	0
221	Acid Soluble Copper (%)	0035	0.0016	0.0006	0.0011	0.0010	0.0004	6	0.46	221.30	0
221	Acid Soluble Copper (%)	0515	0.0025	0.0013	0.0011	0.0010	0.0004	6	1.33	221.99	0
221	Acid Soluble Copper (%)	0552	0.2450	0.1500	0.0011	0.0010	0.0004	6	247.09	221.30	1
221	Acid Soluble Copper (%)	0255	0.0000	0.0000	0.0011	0.0010	0.0004	6		221.30	4
221	Acid Soluble Copper (%)	0450	0.0000	0.0000	0.0011	0.0010	0.0004	6		221.30	4
221	Acid Soluble Copper (%)	0550	< 0.0002		0.0011	0.0010	0.0004	6		221.00	5
221	Acid Soluble Copper (%)	0481	< 0.001		0.0011	0.0010	0.0004	6		221.99	5
221	Acid Soluble Copper (%)	0526	< 0.0045		0.0011	0.0010	0.0004	6		221.03	5
221	Acid Soluble Copper (%)	0354	< 0.01		0.0011	0.0010	0.0004	6		221.30	5
221	Acid Soluble Copper (%)	0555	< 0.5		0.0011	0.0010	0.0004	6		221.33	5
241	Acid Soluble Iron (%)	0105	1.449	0.0800	1.589	0.1117	0.0825	12	-1.26	241.03	0
241	Acid Soluble Iron (%)	0096	1.475	0.0100	1.589	0.1117	0.0825	12	-1.02	241.30	0
241	Acid Soluble Iron (%)	0390	1.477	0.0340	1.589	0.1117	0.0825	12	-1.01	241.30	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
241	Acid Soluble Iron (%)	0472	1.560	0.0000	1.589	0.1117	0.0825	12	-0.26	241.30	0
241	Acid Soluble Iron (%)	0524	1.567	0.0049	1.589	0.1117	0.0825	12	-0.20	241.99	0
241	Acid Soluble Iron (%)	0035	1.580	0.0800	1.589	0.1117	0.0825	12	-0.08	241.30	0
241	Acid Soluble Iron (%)	0354	1.590	0.0200	1.589	0.1117	0.0825	12	0.01	241.30	0
241	Acid Soluble Iron (%)	0105	1.596	0.1890	1.589	0.1117	0.0825	12	0.06	241.00	0
241	Acid Soluble Iron (%)	0482	1.630	0.0000	1.589	0.1117	0.0825	12	0.36	241.30	0
241	Acid Soluble Iron (%)	0515	1.635	0.0220	1.589	0.1117	0.0825	12	0.41	241.33	0
241	Acid Soluble Iron (%)	0389	1.790	0.0400	1.589	0.1117	0.0825	12	1.80	241.99	0
241	Acid Soluble Iron (%)	0552	2.025	0.5100	1.589	0.1117	0.0825	12	3.90	241.30	0
241	Acid Soluble Iron (%)	0515	2.191	1.034	1.589	0.1117	0.0825	12	5.39	241.99	1
251	Acid Soluble Lead (ppm)	0389	0.2430	0.0060	0.7575	0.5254	0.2048	9	-0.98	251.30	0
251	Acid Soluble Lead (ppm)	0519	0.3950	0.0100	0.7575	0.5254	0.2048	9	-0.69	251.99	0
251	Acid Soluble Lead (ppm)	0450	0.4000	0.0000	0.7575	0.5254	0.2048	9	-0.68	251.30	0
251	Acid Soluble Lead (ppm)	0524	0.4497	0.3151	0.7575	0.5254	0.2048	9	-0.59	251.30	0
251	Acid Soluble Lead (ppm)	0405	0.5000	0.0000	0.7575	0.5254	0.2048	9	-0.49	251.30	0
251	Acid Soluble Lead (ppm)	0394	0.8800	0.0100	0.7575	0.5254	0.2048	9	0.23	251.30	0
251	Acid Soluble Lead (ppm)	0255	1.177	0.1900	0.7575	0.5254	0.2048	9	0.80	251.30	0
251	Acid Soluble Lead (ppm)	0102	1.227	0.6620	0.7575	0.5254	0.2048	9	0.89	251.30	0
251	Acid Soluble Lead (ppm)	0482	4.905	0.6500	0.7575	0.5254	0.2048	9	7.89	251.30	0
251	Acid Soluble Lead (ppm)	0550	16.38	5.360	0.7575	0.5254	0.2048	9	29.73	251.00	1
251	Acid Soluble Lead (ppm)	0515	0.0000	0.0000	0.7575	0.5254	0.2048	9		251.33	4
251	Acid Soluble Lead (ppm)	0515	0.0000	0.0000	0.7575	0.5254	0.2048	9		251.34	4
251	Acid Soluble Lead (ppm)	0526	< 0.013		0.7575	0.5254	0.2048	9		251.00	5
251	Acid Soluble Lead (ppm)	0555	< 0.5		0.7575	0.5254	0.2048	9		251.30	5
251	Acid Soluble Lead (ppm)	0481	< 2		0.7575	0.5254	0.2048	9		251.99	5
261	Acid Soluble Manganese (%)	0354	0.0200	0.0000	0.0271	0.0039	0.0040	9	-1.71	261.30	0
261	Acid Soluble Manganese (%)	0105	0.0233	0.0007	0.0271	0.0039	0.0040	9	-0.93	261.15	0
261	Acid Soluble Manganese (%)	0524	0.0252	0.0003	0.0271	0.0039	0.0040	9	-0.48	261.99	0
261	Acid Soluble Manganese (%)	0096	0.0261	0.0003	0.0271	0.0039	0.0040	9	-0.26	261.30	0
261	Acid Soluble Manganese (%)	0035	0.0276	0.0006	0.0271	0.0039	0.0040	9	0.11	261.30	0
261	Acid Soluble Manganese (%)	0472	0.0300	0.0000	0.0271	0.0039	0.0040	9	0.68	261.30	0
261	Acid Soluble Manganese (%)	0482	0.0300	0.0000	0.0271	0.0039	0.0040	9	0.68	261.31	0
261	Acid Soluble Manganese (%)	0389	0.0300	0.0000	0.0271	0.0039	0.0040	9	0.68	261.99	0
261	Acid Soluble Manganese (%)	0515	0.0310	0.0341	0.0271	0.0039	0.0040	9	0.91	261.99	0
261	Acid Soluble Manganese (%)	0552	0.5200	0.5200	0.0271	0.0039	0.0040	9	117.60	261.32	2
281	Acid Soluble Mercury (ppm)	0035	0.0036	0.0008	2.131	4.246	1.500	4	-0.42	281.99	0
281	Acid Soluble Mercury (ppm)	0450	0.0100	0.0000	2.131	4.246	1.500	4	-0.42	281.30	0
281	Acid Soluble Mercury (ppm)	0519	0.0100	0.0000	2.131	4.246	1.500	4	-0.42	281.99	0
281	Acid Soluble Mercury (ppm)	0550	8.500	6.000	2.131	4.246	1.500	4	1.27	281.00	0
281	Acid Soluble Mercury (ppm)	0515	0.0000	0.0000	2.131	4.246	1.500	4		281.30	4
281	Acid Soluble Mercury (ppm)	0405	< 0.01		2.131	4.246	1.500	4		281.30	5
281	Acid Soluble Mercury (ppm)	0481	< 0.5		2.131	4.246	1.500	4		281.99	5
281	Acid Soluble Mercury (ppm)	0526	< 60		2.131	4.246	1.500	4		281.00	5
289	Acid Soluble Molybdenum (ppm)	0515	6.895	6.530	13.50	3.696	2.147	13	-1.79	289.34	0
289	Acid Soluble Molybdenum (ppm)	0035	9.120	3.760	13.50	3.696	2.147	13	-1.19	289.30	0
289	Acid Soluble Molybdenum (ppm)	0515	9.434	6.078	13.50	3.696	2.147	13	-1.10	289.33	0
289	Acid Soluble Molybdenum (ppm)	0520	11.88	0.1600	13.50	3.696	2.147	13	-0.44	289.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
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289	Acid Soluble Molybdenum (ppm)	0102	13.60	0.7900	13.50	3.696	2.147	13	0.03	289.30	0
289	Acid Soluble Molybdenum (ppm)	0526	13.89	0.0000	13.50	3.696	2.147	13	0.10	289.00	0
289	Acid Soluble Molybdenum (ppm)	0524	13.92	0.0851	13.50	3.696	2.147	13	0.11	289.30	0
289	Acid Soluble Molybdenum (ppm)	0096	14.40	0.2000	13.50	3.696	2.147	13	0.24	289.30	0
289	Acid Soluble Molybdenum (ppm)	0037	14.43	1.624	13.50	3.696	2.147	13	0.25	289.33	0
289	Acid Soluble Molybdenum (ppm)	0394	14.45	0.1000	13.50	3.696	2.147	13	0.26	289.32	0
289	Acid Soluble Molybdenum (ppm)	0405	15.25	1.100	13.50	3.696	2.147	13	0.47	289.30	0
289	Acid Soluble Molybdenum (ppm)	0255	18.16	7.379	13.50	3.696	2.147	13	1.26	289.30	0
289	Acid Soluble Molybdenum (ppm)	0519	43.95	0.1100	13.50	3.696	2.147	13	8.24	289.30	0
289	Acid Soluble Molybdenum (ppm)	0555	332.5	5.000	13.50	3.696	2.147	13	86.30	289.30	2
289	Acid Soluble Molybdenum (ppm)	0481	< 62.5		13.50	3.696	2.147	13		289.99	5
291	Acid Soluble Nickel (ppm)	0389	2.100	0.0000	46.03	7.095	2.608	17	-6.19	291.30	0
291	Acid Soluble Nickel (ppm)	0550	32.01	15.38	46.03	7.095	2.608	17	-1.98	291.00	0
291	Acid Soluble Nickel (ppm)	0519	36.42	0.0400	46.03	7.095	2.608	17	-1.35	291.99	0
291	Acid Soluble Nickel (ppm)	0444	40.63	0.3900	46.03	7.095	2.608	17	-0.76	291.30	0
291	Acid Soluble Nickel (ppm)	0481	44.70	0.0000	46.03	7.095	2.608	17	-0.19	291.99	0
291	Acid Soluble Nickel (ppm)	0035	45.20	3.800	46.03	7.095	2.608	17	-0.12	291.30	0
291	Acid Soluble Nickel (ppm)	0524	45.25	0.3598	46.03	7.095	2.608	17	-0.11	291.30	0
291	Acid Soluble Nickel (ppm)	0482	45.40	0.0000	46.03	7.095	2.608	17	-0.09	291.30	0
291	Acid Soluble Nickel (ppm)	0515	45.78	3.910	46.03	7.095	2.608	17	-0.04	291.34	0
291	Acid Soluble Nickel (ppm)	0394	47.25	0.1000	46.03	7.095	2.608	17	0.17	291.30	0
291	Acid Soluble Nickel (ppm)	0515	48.06	3.156	46.03	7.095	2.608	17	0.29	291.33	0
291	Acid Soluble Nickel (ppm)	0405	48.80	0.0000	46.03	7.095	2.608	17	0.39	291.30	0
291	Acid Soluble Nickel (ppm)	0450	50.00	2.000	46.03	7.095	2.608	17	0.56	291.30	0
291	Acid Soluble Nickel (ppm)	0037	51.29	5.191	46.03	7.095	2.608	17	0.74	291.33	0
291	Acid Soluble Nickel (ppm)	0096	51.60	0.2000	46.03	7.095	2.608	17	0.79	291.30	0
291	Acid Soluble Nickel (ppm)	0102	55.06	6.803	46.03	7.095	2.608	17	1.27	291.30	0
291	Acid Soluble Nickel (ppm)	0520	56.30	3.000	46.03	7.095	2.608	17	1.45	291.99	0
291	Acid Soluble Nickel (ppm)	0255	59.91	39.86	46.03	7.095	2.608	17	1.96	291.99	1
291	Acid Soluble Nickel (ppm)	0555	310.3	29.63	46.03	7.095	2.608	17	37.25	291.30	2
291	Acid Soluble Nickel (ppm)	0027	< 0.002		46.03	7.095	2.608	17		291.99	5
301	Acid Soluble Selenium (ppm)	0519	0.0100	0.0000	4.475	7.429	1.412	3	-0.49	301.99	0
301	Acid Soluble Selenium (ppm)	0524	0.3650	0.5500	4.475	7.429	1.412	3	-0.45	301.30	0
301	Acid Soluble Selenium (ppm)	0255	13.05	3.687	4.475	7.429	1.412	3	0.94	301.99	0
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	4.475	7.429	1.412	3		301.33	4
301	Acid Soluble Selenium (ppm)	0515	0.0000	0.0000	4.475	7.429	1.412	3		301.34	4
301	Acid Soluble Selenium (ppm)	0027	< 0.002		4.475	7.429	1.412	3		301.99	5
301	Acid Soluble Selenium (ppm)	0550	< 0.08		4.475	7.429	1.412	3		301.00	5
301	Acid Soluble Selenium (ppm)	0481	< 0.15		4.475	7.429	1.412	3		301.99	5
301	Acid Soluble Selenium (ppm)	0555	< 0.5		4.475	7.429	1.412	3		301.30	5
301	Acid Soluble Selenium (ppm)	0405	< 1		4.475	7.429	1.412	3		301.30	5
311	Sodium (%)	0534	0.0475	0.0010	0.2017	0.0875	0.0074	5	-1.76	311.00	0
311	Sodium (%)	0096	0.2250	0.0100	0.2017	0.0875	0.0074	5	0.27	311.99	0
311	Sodium (%)	0035	0.2310	0.0160	0.2017	0.0875	0.0074	5	0.33	311.33	0
311	Sodium (%)	0482	0.2400	0.0000	0.2017	0.0875	0.0074	5	0.44	311.99	0
311	Sodium (%)	0354	0.2650	0.0100	0.2017	0.0875	0.0074	5	0.72	311.99	0
321	Acid Soluble Zinc (%)	0043	0.0170	0.0000	0.0915	0.0124	0.0448	27	-5.99	321.33	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
321	Acid Soluble Zinc (%)	0519	0.0300	0.0000	0.0915	0.0124	0.0448	27	-4.95	321.99	0
321	Acid Soluble Zinc (%)	0027	0.0352	0.0001	0.0915	0.0124	0.0448	27	-4.53	321.99	0
321	Acid Soluble Zinc (%)	0558	0.0700	0.0000	0.0915	0.0124	0.0448	27	-1.73	321.99	0
321	Acid Soluble Zinc (%)	0550	0.0716	0.0425	0.0915	0.0124	0.0448	27	-1.61	321.00	0
321	Acid Soluble Zinc (%)	0389	0.0850	0.0300	0.0915	0.0124	0.0448	27	-0.53	321.99	0
321	Acid Soluble Zinc (%)	0481	0.0865	0.0010	0.0915	0.0124	0.0448	27	-0.40	321.99	0
321	Acid Soluble Zinc (%)	0390	0.0892	0.0017	0.0915	0.0124	0.0448	27	-0.19	321.30	0
321	Acid Soluble Zinc (%)	0255	0.0895	0.0090	0.0915	0.0124	0.0448	27	-0.16	321.30	0
321	Acid Soluble Zinc (%)	0472	0.0900	0.0000	0.0915	0.0124	0.0448	27	-0.12	321.30	0
321	Acid Soluble Zinc (%)	0482	0.0900	0.0000	0.0915	0.0124	0.0448	27	-0.12	321.30	0
321	Acid Soluble Zinc (%)	0105	0.0920	0.0012	0.0915	0.0124	0.0448	27	0.04	321.00	0
321	Acid Soluble Zinc (%)	0096	0.0925	0.0007	0.0915	0.0124	0.0448	27	0.07	321.30	0
321	Acid Soluble Zinc (%)	0515	0.0931	0.0051	0.0915	0.0124	0.0448	27	0.12	321.33	0
321	Acid Soluble Zinc (%)	0515	0.0936	0.0118	0.0915	0.0124	0.0448	27	0.17	321.99	0
321	Acid Soluble Zinc (%)	0405	0.0939	0.0008	0.0915	0.0124	0.0448	27	0.19	321.99	0
321	Acid Soluble Zinc (%)	0354	0.0950	0.0100	0.0915	0.0124	0.0448	27	0.28	321.30	0
321	Acid Soluble Zinc (%)	0105	0.0954	0.0021	0.0915	0.0124	0.0448	27	0.31	321.03	0
321	Acid Soluble Zinc (%)	0394	0.0969	0.0001	0.0915	0.0124	0.0448	27	0.43	321.32	0
321	Acid Soluble Zinc (%)	0524	0.0971	0.0012	0.0915	0.0124	0.0448	27	0.45	321.99	0
321	Acid Soluble Zinc (%)	0095	0.0984	0.0054	0.0915	0.0124	0.0448	27	0.55	321.32	0
321	Acid Soluble Zinc (%)	0526	0.1003	0.0000	0.0915	0.0124	0.0448	27	0.70	321.03	0
321	Acid Soluble Zinc (%)	0450	0.1015	0.0050	0.0915	0.0124	0.0448	27	0.80	321.30	0
321	Acid Soluble Zinc (%)	0444	0.1030	0.0140	0.0915	0.0124	0.0448	27	0.92	321.30	0
321	Acid Soluble Zinc (%)	0035	0.1040	0.0088	0.0915	0.0124	0.0448	27	1.00	321.30	0
321	Acid Soluble Zinc (%)	0520	0.1150	0.0100	0.0915	0.0124	0.0448	27	1.89	321.99	0
321	Acid Soluble Zinc (%)	0552	1.035	1.050	0.0915	0.0124	0.0448	27	75.83	321.30	0
321	Acid Soluble Zinc (%)	0102	937.3	67.17	0.0915	0.0124	0.0448	27	75328.97	321.30	2
325	Water Soluble Zinc (%)	0555	< 0.5					0		325.30	5

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%).
Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are grey and included for information only. Your offset values are higher (‡) or lower (†) than the Robust Analyte value ± Investigational Allowance. Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.