

Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 64

Sample # 231031

Nitrogen Select PT Scheme

Labs Reporting: 14

Grade 21-0-0

Statistical Summary

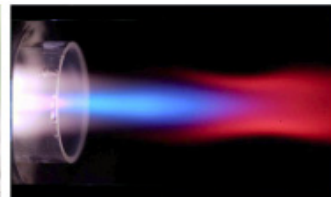
Issue Date : 11/30/2023

Method Code	Analyte & Method Sample # 231031	# 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)	Horwitz %RSD
001.10	Ammoniacal N, Magnesium Oxide Method (%)	1		21.08									
001.99	Ammoniacal N, Other (%)	6	6	20.97	0.0944	20.97		0.1070	0.0546	0.51%		0.0398	2.18%
010.17	Total N, Comprehensive (21%)	1		21.08									
010.60	Total N, Combustion (21%)	9	8	19.93	3.188	21.04	0.7404	0.1221	0.0540	0.58%	0.38	0.0709	2.18%
010.99	Total N, Other (21%)	2	2	21.50	0.6364								
060.20	Water (Free), Karl Fischer (%)	1		0.1900									
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	3	3	23.98	0.2133	23.98		0.2133	0.1540	0.89%		0.0733	2.04%
148.00	Total S, Combustion (24%)	3	3	23.99	0.0965	23.99	1.0000	0.0965	0.0696	0.40%	0.22	0.1233	2.04%
148.01	Total S, Gravimetric - sulfate and elemental (24%)	2	2	24.90	1.121								
148.07	Total S, ICP, test portion as in 2017.02 (24%)	3	3	24.16	0.3601	24.16	1.0000	0.3601	0.2599	1.49%	0.84	0.2751	2.03%
148.99	Total S, Other (24%)	1		23.51									
149.04	S - HNO3 soluble, ICP (%)	1		24.78									
151.00	Acid Soluble As, AA, test portion 2006.03 modified w/dual acid	1		0.5000									
151.30	Acid Soluble As, ICP (ppm)	4	3	1.787	2.756	2.049		3.314	2.391	161.73%		0.0255	14.36%
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	1		3.000									
165.99	Acid Soluble B, Other (%)	1		5.050									
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acid	1		1.000									
181.30	Acid Soluble Cd, ICP (ppm)	4	3	1.601	2.559	1.801		3.095	2.234	171.81%		0.0460	14.64%
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	1		1.000									
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	1		0.1673									
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	1		1.000									
191.00	Acid Soluble Cr, AA, test portion 2006.03 modified w/dual acid	1		5.000									
191.30	Acid Soluble Cr, ICP (ppm)	4	4	11.18	14.06	11.18		14.06	8.786	125.79%		0.7200	11.12%
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	1		2.000									
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	1		6.042									
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	1		5.000									
202.00	Acid Soluble Co, AA, test portion 2006.03 modified w/dual acid	1		5.000									
202.30	Acid Soluble Co, ICP (ppm)	4	3	1.233	1.742	1.311	1.3934	2.125	1.534	162.08%	3.55	0.0445	15.36%
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	1		1.000									

Method Code	Analyte & Method Sample # 231031	# 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)	Horwitz %RSD
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	1		0.3534									
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	1		5.000									
221.00	Acid Soluble Cu, AA, inorganic 965.09 (%)	1		0.0005									
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	2	1	0.0003	0.0002								
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	1		0.0002									
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	1		4.281									
221.99	Acid Soluble Cu, Other (%)	3	2	3.519	6.094	5.278	0.5328	7.463	6.597	141.42%	32.64	0.0900	3.11%
241.00	Acid Soluble Fe, AA, inorganic 965.09 (%)	1		0.0138									
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	2	2	0.0139	0.0001								
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	1		5.000									
251.30	Acid Soluble Pb, ICP (ppm)	4	3	1.759	2.792	2.012		3.363	2.427	167.21%		0.0275	14.40%
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	1		4.000									
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	1		1.696									
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	1		5.000									
261.32	Acid Soluble Mn, ICP, test portion inorganic 965.09 (%)	1		0.0003									
261.99	Acid Soluble Mn, Other (%)	1		9.010									
281.30	Acid Soluble Hg, ICP (ppm)	4	1	0.5213	0.9865	2.012		3.363	4.204	167.21%		0.0025	14.40%
281.99	Acid Soluble Hg, Other (ppm)	1		0.0025									
289.30	Acid Soluble Mo, ICP (ppm)	3	3	4.338	3.620	4.338	2.3015	3.620	2.612	83.44%	3.66	0.5250	12.83%
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	1		1.000									
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	1		0.4273									
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	1		10.00									
291.00	Acid Soluble Ni, AA, test portion 2006.03 modified w/dual acid	1		5.000									
291.30	Acid Soluble Ni, ICP (ppm)	4	4	5.564	5.887	5.564		5.887	3.679	105.79%		0.7150	12.36%
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	1		1.000									
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	1		2.887									
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	1		5.000									
301.00	Acid Soluble Se, AA, test portion 2006.03 modified w/dual acid	1		1.000									
301.30	Acid Soluble Se, ICP (ppm)	3	1	4.085	7.071	5.564		5.887	7.358	105.79%		0.0175	12.36%
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	1		10.00									
321.00	Acid Soluble Zn, AA, inorganic 965.09 (%)	1		0.0005									
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	2	1	0.0006	0.0001								
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	1		0.0004									
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	2	2	4.353	6.153								
321.99	Acid Soluble Zn, Other (%)	2	1	0.0007	0.0005								

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. The Horwitz %RSD is calculated using the Thompson Modification, Analyst,2000,125,385-386.

Horwitz %RSD	
Average Range (R-bar)	
Method IA Ratio	
Robust % RSD	
Robust Uncertainty (U)	
Robust sd	
IA at Method Value	
Assigned Value Robust Mean	
Raw SD	
Raw Mean	
# Tests in Robust Calculations	
# Tests Submitted	
Analyte & Method Sample # 231031	
Method Code	



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Sample # 231031

Nitrogen Select PT Scheme

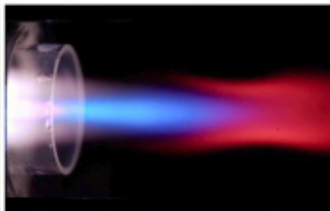
Grade 21-0-0

Method Precision Report

Issue Date : 11/30/2023

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
001.99	Ammoniacal N, Other (%)	6	6	20.97	0.0944	0.0903	0.0387	0.0983	0.43%	0.18%	0.47%	2.537
010.60	Total N, Combustion (21%)	9	7	21.07	0.0845	0.0757	0.0530	0.0924	0.36%	0.25%	0.44%	1.744

Notes: Precision data calculated when 5 or more Tests included.



Method PT For All Labs

Magruder Fertilizer Proficiency Testing Program

Methods: 64

Sample # 231031

Nitrogen Select PT Scheme

Labs Reporting: 14

Grade 21-0-0

Lab Values

Issue Date : 11/30/2023

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
001.10	Ammoniacal N, Magnesium Oxide Method (%)	0585	21.08	0.0300				1			0
001.99	Ammoniacal N, Other (%)	0405	20.83	0.0100	20.97	0.1070	0.0398	6	-1.23	NA	0
001.99	Ammoniacal N, Other (%)	0586	20.91	0.0700	20.97	0.1070	0.0398	6	-0.57	NA	0
001.99	Ammoniacal N, Other (%)	0593	20.96	0.0200	20.97	0.1070	0.0398	6	-0.11	NA	0
001.99	Ammoniacal N, Other (%)	0513	21.05	0.0100	20.97	0.1070	0.0398	6	0.60	NA	0
001.99	Ammoniacal N, Other (%)	0585	21.05	0.0200	20.97	0.1070	0.0398	6	0.64	NA	0
001.99	Ammoniacal N, Other (%)	0626	21.06	0.1100	20.97	0.1070	0.0398	6	0.68	NA	0
010.17	Total N, Comprehensive (21%)	0585	21.08	0.0300				1			0
010.60	Total N, Combustion (21%)	0042	11.45	0.1000	21.04	0.1221	0.0709	8	-71.87	Low	0
010.60	Total N, Combustion (21%)	0561	20.94	0.1300	21.04	0.1221	0.0709	8	-0.80	OK	0
010.60	Total N, Combustion (21%)	0371	21.01	0.0100	21.04	0.1221	0.0709	8	-0.28	OK	0
010.60	Total N, Combustion (21%)	0405	21.06	0.0400	21.04	0.1221	0.0709	8	0.13	OK	0
010.60	Total N, Combustion (21%)	0185	21.07	0.1300	21.04	0.1221	0.0709	8	0.17	OK	0
010.60	Total N, Combustion (21%)	0086	21.09	0.0360	21.04	0.1221	0.0709	8	0.34	OK	0
010.60	Total N, Combustion (21%)	0626	21.13	0.0500	21.04	0.1221	0.0709	8	0.62	OK	0
010.60	Total N, Combustion (21%)	0040	21.20	0.0000	21.04	0.1221	0.0709	8	1.18	OK	0
010.60	Total N, Combustion (21%)	0494	20.47	0.6800	21.04	0.1221	0.0709	8	-4.29	OK	1
010.99	Total N, Other (21%)	0585	21.05	0.0200				2			0
010.99	Total N, Other (21%)	0615	21.95	0.7000				2			0
060.20	Water (Free), Karl Fischer (%)	0585	0.1900	0.0000				1			0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0626	23.75	0.0300	23.98	0.2133	0.0733	3	-1.09		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0405	24.02	0.0200	23.98	0.2133	0.0733	3	0.20		0
145.00	Sulfate S, HCl soluble, Gravimetric Sulfur - sulfate form (%)	0561	24.17	0.1700	23.98	0.2133	0.0733	3	0.88		0
148.00	Total S, Combustion (24%)	0626	23.92	0.0700	23.99	0.0965	0.1233	3	-0.79		0
148.00	Total S, Combustion (24%)	0371	23.96	0.0800	23.99	0.0965	0.1233	3	-0.33		0
148.00	Total S, Combustion (24%)	0593	24.10	0.2200	23.99	0.0965	0.1233	3	1.12		0
148.01	Total S, Gravimetric - sulfate and elemental (24%)	0585	24.11	0.0900				2			0
148.01	Total S, Gravimetric - sulfate and elemental (24%)	0586	25.69	0.1400				2			0
148.07	Total S, ICP, test portion as in 2017.02 (24%)	0040	23.80	0.2000	24.16	0.3601	0.2751	3	-1.01		0
148.07	Total S, ICP, test portion as in 2017.02 (24%)	0494	24.17	0.5453	24.16	0.3601	0.2751	3	0.03		0
148.07	Total S, ICP, test portion as in 2017.02 (24%)	0513	24.52	0.0800	24.16	0.3601	0.2751	3	0.99		0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
148.99	Total S, Other (24%)	0586	23.51	0.7100				1			0
149.04	S - HNO3 soluble, ICP (%)	0086	24.78	0.4561				1			0
151.00	Acid Soluble As, AA, test portion 2006.03 modified w/dual acid	0626	< 0.5					0			5
151.30	Acid Soluble As, ICP (ppm)	0585	0.1300	0.0000	2.049	3.314	0.0255	3	-0.58		0
151.30	Acid Soluble As, ICP (ppm)	0371	0.1415	0.0010	2.049	3.314	0.0255	3	-0.58		0
151.30	Acid Soluble As, ICP (ppm)	0593	5.875	0.0500	2.049	3.314	0.0255	3	1.15		0
151.30	Acid Soluble As, ICP (ppm)	0586	< 1		2.049	3.314	0.0255	3			5
151.32	Acid Soluble As, ICP, 2006.03 (ppm)	0405	< 3					0			5
165.99	Acid Soluble B, Other (%)	0593	5.050	0.0800				1			0
181.00	Acid Soluble Cd, AA, test portion 2006.03 modified w/dual acid	0626	< 1					0			5
181.30	Acid Soluble Cd, ICP (ppm)	0371	0.0090	0.0020	1.801	3.095	0.0460	3	-0.58		0
181.30	Acid Soluble Cd, ICP (ppm)	0585	0.0200	0.0000	1.801	3.095	0.0460	3	-0.58		0
181.30	Acid Soluble Cd, ICP (ppm)	0593	5.375	0.0900	1.801	3.095	0.0460	3	1.15		0
181.30	Acid Soluble Cd, ICP (ppm)	0586	< 1		1.801	3.095	0.0460	3			5
181.32	Acid Soluble Cd, ICP, 2006.03 (ppm)	0405	< 1					0			5
181.33	Acid Soluble Cd, ICP, 2017.02 (ppm)	0086	0.1673	0.0460				1			0
181.34	Acid Soluble Cd, ICP, EPA 3050B/6010C (ppm)	0626	< 1					0			5
191.00	Acid Soluble Cr, AA, test portion 2006.03 modified w/dual acid	0626	< 5					0			5
191.30	Acid Soluble Cr, ICP (ppm)	0371	1.620	0.0800	11.18	14.06	0.7200	4	-0.68		0
191.30	Acid Soluble Cr, ICP (ppm)	0585	4.070	0.0000	11.18	14.06	0.7200	4	-0.51		0
191.30	Acid Soluble Cr, ICP (ppm)	0593	7.010	0.0800	11.18	14.06	0.7200	4	-0.30		0
191.30	Acid Soluble Cr, ICP (ppm)	0586	32.00	2.000	11.18	14.06	0.7200	4	1.48		0
191.32	Acid Soluble Cr, ICP, 2006.03 (ppm)	0405	2.000	0.0000				1			0
191.33	Acid Soluble Cr, ICP, 2017.02 (ppm)	0086	6.042	7.677				1			0
191.34	Acid Soluble Cr, ICP, EPA 3050B/6010C (ppm)	0626	< 5					0			5
202.00	Acid Soluble Co, AA, test portion 2006.03 modified w/dual acid	0626	< 5					0			5
202.30	Acid Soluble Co, ICP (ppm)	0371	0.0685	0.0190	1.311	2.125	0.0445	3	-0.58		0
202.30	Acid Soluble Co, ICP (ppm)	0585	0.1000	0.0000	1.311	2.125	0.0445	3	-0.57		0
202.30	Acid Soluble Co, ICP (ppm)	0593	3.765	0.0700	1.311	2.125	0.0445	3	1.15		0
202.30	Acid Soluble Co, ICP (ppm)	0586	< 1		1.311	2.125	0.0445	3			5
202.32	Acid Soluble Co, ICP, 2006.03 (ppm)	0405	< 1					0			5
202.33	Acid Soluble Co, ICP, 2017.02 (ppm)	0086	0.3534	0.0808				1			0
202.34	Acid Soluble Co, ICP, EPA 3050B/6010C (ppm)	0626	< 5					0			5
221.00	Acid Soluble Cu, AA, inorganic 965.09 (%)	0626	< 0.0005					0			5
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0371	0.0002	0.0001				1			0
221.30	Acid Soluble Cu, ICP, test portion inorganic 965.09 (%)	0626	< 0.0005					1			5
221.32	Acid Soluble Cu, ICP, test portion 2006.03A-C (%)	0405	< 0.0002					0			5
221.33	Acid Soluble Cu, ICP, 2017.02 (%)	0086	4.281	0.7512				1			0
221.99	Acid Soluble Cu, Other (%)	0585	0.0001	0.0000				2			0
221.99	Acid Soluble Cu, Other (%)	0593	10.56	0.0900				2			0
221.99	Acid Soluble Cu, Other (%)	0586	< 0.001					2			5
241.00	Acid Soluble Fe, AA, inorganic 965.09 (%)	0626	0.0138	0.0001				1			0
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0626	0.0138	0.0000				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				
241.30	Acid Soluble Fe, ICP, test portion inorganic 965.09 (%)	0371	0.0140	0.0000				2			0
251.00	Acid Soluble Pb, AA, test portion 2006.03 modified w/dual acid	0626	< 5					0			5
251.30	Acid Soluble Pb, ICP (ppm)	0371	0.0395	0.0050	2.012	3.363	0.0275	3	-0.59		0
251.30	Acid Soluble Pb, ICP (ppm)	0585	0.1000	0.0000	2.012	3.363	0.0275	3	-0.57		0
251.30	Acid Soluble Pb, ICP (ppm)	0593	5.895	0.0500	2.012	3.363	0.0275	3	1.15		0
251.30	Acid Soluble Pb, ICP (ppm)	0586	< 1		2.012	3.363	0.0275	3			5
251.32	Acid Soluble Pb, ICP, 2006.03 (ppm)	0405	< 4					0			5
251.33	Acid Soluble Pb, ICP, 2017.02 (ppm)	0086	1.696	0.2705				1			0
251.34	Acid Soluble Pb, ICP, EPA 3050B/6010C (ppm)	0626	< 5					0			5
261.32	Acid Soluble Mn, ICP, test portion inorganic 965.09 (%)	0371	0.0003	0.0000				1			0
261.99	Acid Soluble Mn, Other (%)	0593	9.010	0.1000				1			0
281.30	Acid Soluble Hg, ICP (ppm)	0593	0.0800	0.0000				1			0
281.30	Acid Soluble Hg, ICP (ppm)	0371	0.0000	0.0000				1			4
281.30	Acid Soluble Hg, ICP (ppm)	0585	0.0050	0.0100				1			4
281.30	Acid Soluble Hg, ICP (ppm)	0405	< 2					1			5
281.99	Acid Soluble Hg, Other (ppm)	0626	0.0025	0.0000				1			0
289.30	Acid Soluble Mo, ICP (ppm)	0585	0.3900	0.0000	4.338	3.620	0.5250	3	-1.09		0
289.30	Acid Soluble Mo, ICP (ppm)	0593	5.125	0.0500	4.338	3.620	0.5250	3	0.22		0
289.30	Acid Soluble Mo, ICP (ppm)	0586	7.500	1.000	4.338	3.620	0.5250	3	0.87		0
289.32	Acid Soluble Mo, ICP, 2006.03 (ppm)	0405	< 1					0			5
289.33	Acid Soluble Mo, ICP, 2017.02 (ppm)	0086	0.4273	0.0011				1			0
289.34	Acid Soluble Mo, ICP, EPA 3050B/6010C (ppm)	0626	< 10					0			5
291.00	Acid Soluble Ni, AA, test portion 2006.03 modified w/dual acid (0626	< 5					0			5
291.30	Acid Soluble Ni, ICP (ppm)	0371	0.8325	0.0350	5.564	5.887	0.7150	4	-0.80		0
291.30	Acid Soluble Ni, ICP (ppm)	0585	2.380	0.0000	5.564	5.887	0.7150	4	-0.54		0
291.30	Acid Soluble Ni, ICP (ppm)	0593	5.045	0.1100	5.564	5.887	0.7150	4	-0.09		0
291.30	Acid Soluble Ni, ICP (ppm)	0586	14.00	2.000	5.564	5.887	0.7150	4	1.43		0
291.32	Acid Soluble Ni, ICP, 2006.03 (ppm)	0405	1.000	0.0000				1			0
291.33	Acid Soluble Ni, ICP, 2017.02 (ppm)	0086	2.887	3.332				1			0
291.34	Acid Soluble Ni, ICP, EPA 3050B/6010C (ppm)	0626	< 5					0			5
301.00	Acid Soluble Se, AA, test portion 2006.03 modified w/dual acid	0626	< 1					0			5
301.30	Acid Soluble Se, ICP (ppm)	0593	12.25	0.9000				1			0
301.30	Acid Soluble Se, ICP (ppm)	0371	0.0000	0.0000				1			4
301.30	Acid Soluble Se, ICP (ppm)	0585	0.0050	0.0100				1			4
301.32	Acid Soluble Se, ICP, 2006.03 (ppm)	0405	< 10					0			5
321.00	Acid Soluble Zn, AA, inorganic 965.09 (%)	0626	< 0.0005					0			5
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0371	0.0006	0.0002				1			0
321.30	Acid Soluble Zn, ICP, test portion inorganic 965.09 (%)	0626	< 0.0005					1			5
321.32	Acid Soluble Zn, ICP, test portion 2006.03A-C (%)	0405	0.0004	0.0000				1			0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0593	0.0018	0.0001				2			0
321.33	Acid Soluble Zn, ICP, 2017.02 (%)	0086	8.704	4.006				2			0
321.99	Acid Soluble Zn, Other (%)	0585	0.0004	0.0001				1			0
321.99	Acid Soluble Zn, Other (%)	0586	< 0.001					1			5

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		*Robust Method Values			# Tests	Magruder PT Z Score	Method IA Status	Flag
			Value	Range	Rob Mean	Rob SD	Rob R-bar				

Interpreting Z Scores and Flags:

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.

Notes:

*Robust statistics not used if < 6 labs used in calculations, in this case Values and Z Scores are grayed out and should be interpreted with extreme caution. Identical duplicates not included in calculation of Rob R-bar. IA Status describes where your result is relative to the Assigned Value ± IA. Red indicates Higher or Lower and Green indicates within the IA range about the Robust mean. Method codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for