

MAGRUDER - Fertilizer Check Sample No. - 200505 Grade 4-12-0 Bone Meal

- Pass 1 Results for 78 Labs - - Pass 2 Results for 78 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	4	6.68	0.08	0.09	4	6.68	0.08	0.09
Ammoniacal Nitrogen, Other		001.99	9	6.87	0.13	0.04	9	6.87	0.13	0.04
Method Group 001.XX PCT			13	6.81	0.15	0.05	12	6.83	0.14	0.04
Nitrate Nitrogen, Other		002.99	1	0.10	0.00	0.00	1	0.10	0.00	0.00
Water Insoluble Nitrogen, Meth I	945.01	003.10	3	4.88	0.14	0.09	3	4.88	0.14	0.09
Water Insoluble Nitrogen, Other		003.99	1	5.01	0.01	0.01	1	5.01	0.01	0.01
Method Group 003.XX PCT			4	4.91	0.13	0.07	4	4.91	0.13	0.07
Nitrogen From Urea, Other		005.99	1	7.11	0.01	0.01	1	7.11	0.01	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	2	10.04	3.48	0.16	2	10.04	3.48	0.16
Ammon & Nitrate N, Other		009.99	1	6.81	0.00	0.01	1	6.81	0.00	0.01
Method Group 009.XX PCT			3	8.96	3.17	0.11	3	8.96	3.17	0.11
Total Nitrogen, Reduced Iron		010.10	1	12.66	0.01	0.01	1	12.66	0.01	0.01
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	12.70	0.18	0.05	4	12.75	0.16	0.01
Total Nitrogen, Salicylic	955.04D	010.12	2	12.56	0.01	0.02	2	12.56	0.01	0.02
Total Nitrogen, Raney	970.03	010.16	1	12.32	0.33	0.46	1	12.32	0.33	0.46
Total Nitrogen, Combustion		010.60	48	12.88	0.15	0.08	47	12.88	0.15	0.07
Total Nitrogen, Other		010.99	3	12.63	0.24	0.09	3	12.63	0.24	0.09
Method Group 010.XX PCT			62	12.81	0.21	0.08	59	12.83	0.19	0.07
Total Phosphate, Grav Quimociac	962.02	020.10	6	7.73	0.18	0.12	5	7.77	0.14	0.06
Total Phosphate, Spectrometric	958.01	020.20	19	7.96	0.49	0.14	18	8.02	0.41	0.11
Total Phosphate, Automated	978.01	020.40	5	7.80	0.18	0.03	5	7.80	0.18	0.03
Total Phosphate, ICP		020.50	8	7.86	0.48	0.10	8	7.86	0.48	0.10
Total Phosphate, Other		020.99	1	7.63	0.08	0.12	1	7.63	0.08	0.12
Method Group 020.XX PCT			39	7.87	0.42	0.11	36	7.89	0.36	0.08
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.05	0.00	0.00	1	0.05	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.21	0.01	0.02	1	0.21	0.01	0.02
Insoluble Phosphate, ICP		030.50	1	0.11	0.01	0.02	1	0.11	0.01	0.02
Insoluble Phosphate, Other		030.99	3	0.12	0.09	0.02	3	0.12	0.09	0.02
Method Group 030.XX PCT			6	0.12	0.08	0.02	6	0.12	0.08	0.02
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	7.76	0.01	0.02	1	7.76	0.01	0.02
InDir Available Phosphate, Automated ..	960.02	040.40	1	7.88	0.02	0.03	1	7.88	0.02	0.03
InDir Available Phosphate, ICP		040.50	1	7.35	0.04	0.06	1	7.35	0.04	0.06
InDir Available Phosphate, Other		040.99	2	7.67	0.19	0.02	2	7.67	0.19	0.02
Method Group 040.XX PCT			5	7.66	0.21	0.03	5	7.66	0.21	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	15	7.74	0.06	0.05	15	7.74	0.06	0.05
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	7.73	0.27	0.01	3	7.73	0.27	0.01
Dir Available Phosphate, Automated	978.01	041.40	4	7.69	0.14	0.04	4	7.69	0.14	0.04
Dir Available Phosphate, ICP		041.50	7	7.78	0.19	0.08	8	7.71	0.25	0.08
Dir Available Phosphate, EDTA Extract .	993.01	041.60	9	7.72	0.22	0.09	8	7.75	0.21	0.04

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Dir Available Phosphate, Other		041.99	1	7.57	0.06	0.08	1	7.57	0.06	0.08
Method Group 041.XX PCT			39	7.73	0.16	0.06	38	7.74	0.16	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	8.46	3.41	0.03	3	8.46	3.41	0.03
Soluble Potash, STPB Oxalate	958.02	050.00	16	5.74	0.19	0.09	15	5.74	0.19	0.06
Soluble Potash, AA (Oxalate)		050.30	10	5.76	0.23	0.13	10	5.76	0.23	0.13
Soluble Potash, ICP (Oxalate)		050.50	5	5.89	0.21	0.08	5	5.89	0.21	0.08
Soluble Potash, ICP (Citrate)		050.51	11	5.81	0.30	0.06	11	5.81	0.30	0.06
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	9	5.82	0.26	0.07	9	5.82	0.26	0.07
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	5.66	0.20	0.10	8	5.66	0.20	0.10
Soluble Potash, Other		050.99	18	5.76	0.22	0.08	17	5.76	0.22	0.06
Method Group 050.XX PCT			77	5.77	0.23	0.09	74	5.77	0.23	0.07
Free Water, Vacuum Oven	965.08B	060.00	5	2.79	0.39	0.14	5	2.79	0.39	0.14
Acid Soluble Calcium, AA	945.04	101.00	8	2.40	0.16	0.08	8	2.40	0.16	0.08
Acid Soluble Calcium, ICP		101.30	22	2.40	0.12	0.05	22	2.40	0.12	0.05
Acid Soluble Calcium, Other		101.99	4	2.33	0.08	0.07	4	2.33	0.08	0.07
Method Group 101.XX PCT			34	2.39	0.13	0.06	33	2.38	0.12	0.05
Acid Soluble Magnesium, ICP		121.30	11	0.44	0.03	0.01	11	0.44	0.03	0.01
Acid Soluble Magnesium, Other		121.99	1	0.39	0.00	0.00	1	0.39	0.00	0.00
Method Group 121.XX PCT			12	0.43	0.03	0.01	11	0.43	0.03	0.01
Sulfur, Gravimetric	980.02a	144.01	12	9.15	0.18	0.07	12	9.15	0.18	0.07
Sulfur, Gravimetric	980.02b	144.02	2	9.32	0.16	0.04	2	9.32	0.16	0.04
Sulfur, Spectrometric		144.70	2	9.23	0.37	0.05	2	9.23	0.37	0.05
Sulfur, Other		144.99	11	8.97	0.30	0.13	12	8.91	0.36	0.13
Method Group 144.XX PCT			27	9.10	0.27	0.09	26	9.09	0.27	0.08
Arsenic, Atomic Absorption		151.00	1	10.35	0.64	0.90	1	10.35	0.64	0.90
Arsenic, ICP		151.30	8	10.52	1.34	1.16	8	10.52	1.34	1.16
Arsenic, Other		151.99	1	11.50	0.71	1.00	1	11.50	0.71	1.00
Method Group 151.XX PPM			10	10.60	1.25	1.12	10	10.60	1.25	1.12
Acid Soluble Boron, Other		165.99	5	0.043	0.007	0.001	5	0.043	0.007	0.001
Cadmium, Atomic Absorption		181.00	2	2.96	0.25	0.22	2	2.96	0.25	0.22
Cadmium, ICP		181.30	12	3.73	1.14	0.21	12	3.73	1.14	0.21
Cadmium, Other		181.99	1	2.35	0.21	0.30	1	2.35	0.21	0.30
Method Group 181.XX PPM			15	3.53	1.10	0.22	15	3.53	1.10	0.22
Water Soluble Chlorine, Titrimetric	928.02	190.00	2	1.39	0.01	0.01	2	1.39	0.01	0.01
Water Soluble Chlorine, Other		190.99	1	1.43	0.00	0.01	1	1.43	0.00	0.01
Method Group 190.XX PCT			3	1.41	0.02	0.01	3	1.41	0.02	0.01
Chromium, ICP		191.30	11	109.93	9.69	2.11	11	109.93	9.69	2.11
Chromium, Other		191.99	1	109.60	2.55	3.60	1	109.60	2.55	3.60
Method Group 191.XX PPM			12	109.90	9.27	2.23	12	109.90	9.27	2.23

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Acid Soluble Cobalt, ICP	965.11	202.30	14	35.56	17.75	2.64	13	35.40	18.34	1.85
Acid Soluble Cobalt, Other		202.99	1	38.15	6.58	9.30	1	38.15	6.58	9.30
Method Group 202.XX PPM			15	35.74	17.18	3.09	14	35.59	17.71	2.38
Acid Soluble Copper, Atomic Absorption	975.01	221.00	10	0.0961	0.0042	0.0031	10	0.0961	0.0042	0.0031
Acid Soluble Copper, ICP		221.30	22	0.0910	0.0075	0.0042	21	0.0905	0.0071	0.0037
Acid Soluble Copper, Other		221.99	2	0.1006	0.0085	0.0053	2	0.1006	0.0085	0.0053
Method Group 221.XX PCT			35	0.0925	0.0079	0.0038	34	0.0922	0.0077	0.0035
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	10	2.25	0.28	0.09	10	2.25	0.28	0.09
Acid Soluble Iron, ICP		241.30	25	2.14	0.29	0.08	25	2.14	0.29	0.08
Acid Soluble Iron, Other		241.99	4	1.45	0.54	0.11	6	1.01	0.78	0.08
Method Group 241.XX PCT			41	2.10	0.43	0.10	40	2.08	0.41	0.09
Lead, Atomic Absorption		251.00	2	14.52	0.58	0.46	2	14.52	0.58	0.46
Lead, ICP		251.30	13	19.13	7.40	1.24	12	19.15	7.66	0.83
Lead, Other		251.99	1	18.10	3.39	4.80	1	18.10	3.39	4.80
Method Group 251.XX PPM			16	18.49	6.85	1.37	14	18.49	7.26	0.78
Acid Soluble Manganese, AA	972.02a	261.00	7	0.192	0.009	0.007	6	0.192	0.007	0.004
Acid Soluble Manganese, AA	972.02b	261.11	3	0.177	0.013	0.000	3	0.177	0.013	0.000
Acid Soluble Manganese, ICP	972.02a	261.30	22	0.187	0.018	0.007	22	0.187	0.018	0.007
Acid Soluble Manganese, ICP	972.02b	261.31	2	0.188	0.025	0.001	2	0.188	0.025	0.001
Acid Soluble Manganese, Spectrometric .	940.02	261.50	1	0.163	0.001	0.002	1	0.163	0.001	0.002
Acid Soluble Manganese, Other		261.99	1	0.175	0.003	0.004	1	0.175	0.003	0.004
Method Group 261.XX PCT			36	0.186	0.017	0.006	32	0.184	0.016	0.004
Water Soluble Manganese, Atomic Abs ...	972.03	271.00	1	0.027	0.001	0.001	1	0.027	0.001	0.001
Water Soluble Manganese, ICP	972.03	271.30	2	0.028	0.003	0.003	2	0.028	0.003	0.003
Water Soluble Manganese, Other		271.99	1	0.047	0.000	0.000	1	0.047	0.000	0.000
Method Group 271.XX PCT			4	0.033	0.009	0.002	3	0.035	0.010	0.000
Mercury, Other		281.99	1	0.18	0.00	0.00	1	0.18	0.00	0.00
Molybdenum, Atomic Absorption		289.00	1	8.10	0.00	0.00	1	8.10	0.00	0.00
Molybdenum, ICP		289.30	12	11.00	2.38	0.73	12	11.00	2.38	0.73
Molybdenum, Other		289.99	1	11.55	1.48	2.10	1	11.55	1.48	2.10
Method Group 289.XX PPM			14	10.83	2.35	0.77	14	10.83	2.35	0.77
Nickel, ICP		291.30	8	54.32	18.77	2.81	8	54.32	18.77	2.81
Nickel, Other		291.99	2	65.95	6.24	9.60	2	65.95	6.24	9.60
Method Group 291.XX PPM			10	56.65	17.52	4.17	9	55.49	17.97	3.08
Selenium, Atomic Absorption		301.00	1	0.32	0.09	0.13	1	0.32	0.09	0.13
Selenium, ICP		301.30	2	1.26	0.85	0.30	2	1.26	0.85	0.30
Selenium, Other		301.99	1	0.45	0.03	0.04	1	0.45	0.03	0.04
Method Group 301.XX PPM			4	0.82	0.73	0.19	4	0.82	0.73	0.19
Sodium, Flame Photometric	974.01	311.30	1	0.29	0.01	0.01	1	0.29	0.01	0.01

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Sodium, Other		311.99	7	0.30	0.03	0.01	7	0.30	0.03	0.01
Method Group 311.XX PCT			8	0.30	0.02	0.01	8	0.30	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	11	0.262	0.029	0.015	10	0.257	0.023	0.010
Acid Soluble Zinc, ICP		321.30	25	0.264	0.030	0.012	23	0.262	0.029	0.009
Acid Soluble Zinc, Other		321.99	3	0.274	0.026	0.004	3	0.274	0.026	0.004
Method Group 321.XX PCT			39	0.265	0.029	0.012	36	0.262	0.027	0.009

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 002.99 PCT			Meth: 009.99 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
Ammoniacal Nitrogen			Nitrate Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Other</u>			<u>Other</u>			<u>Combustion</u>			<u>Combustion</u>		
324	6.75	.87	027	0.10	.00	394	6.81	-.71	114	14.81 s	12.58	232	12.82	-.42
029	6.69	.72							422	14.20 s	8.61	049	12.87	-.46
Avg	6.68		Meth: 003.10 PCT			Meth: 009.XX PCT			351	13.95 s	6.97	406	12.83	-.47
415	6.67	-.11	Water Insoluble Nitr			<u>Ammon & Nitrate N</u>			428	13.90 s	6.67	377	12.81	-.47
309	6.60	-1.49	<u>Meth I</u>			030	13.05	1.29	073	13.21	2.17	009	12.83	-.51
			029	5.05	1.29	Avg	8.96		292	13.18	1.95	296	12.79	-.60
Meth: 001.99 PCT			Avg	4.88		420	7.03	-.61	393	13.18	1.92	007	12.79	-.65
Ammoniacal Nitrogen			023	4.82	-.55	394	6.81	-.68	027	13.15	1.73	233	12.82	-.65
<u>Other</u>			090	4.78	-.74	Meth: 010.10 PCT			035	13.07	1.34	131	12.75	-.86
200	7.08	1.56	Meth: 003.99 PCT			Total Nitrogen			055	12.98 R	1.12	360	12.75	-.97
409	7.00	.99	Water Insoluble Nitr			<u>Reduced Iron</u>			157	13.05	1.07	325	12.71	-1.16
096	6.97	.83	<u>Other</u>			405	12.66	-.71	022	12.99	1.06	023	12.72	-1.18
419	6.93	.43	027	5.01	.71	Meth: 010.11 PCT			389	13.04	1.04	034	12.70	-1.19
Avg	6.87					Total Nitrogen			043	13.01	1.02	018	12.65	-1.55
234	6.86	-.08	Meth: 003.XX PCT			<u>Modified Comprehensi</u>			390	12.92	.78	041	12.53	-2.30
027	6.80	-.54	Water Insoluble Nitr			415	12.93	1.11	234	12.96	.69	423	12.51	-2.47
420	6.80	-.64	029	5.05	1.16	105	12.79	.25	136	12.89	.56	426	12.38 s	-3.57
105	6.78	-.78	027	5.01	.71	029	12.77	.12	330	12.95	.56	096	12.28 s	-3.94
394	6.65	-1.70	Avg	4.91		Avg	12.75		028	12.94	.50	Meth: 010.99 PCT		
Meth: 001.XX PCT			023	4.82	-.79	090	12.51	-1.48	425	12.96	.48	Total Nitrogen		
Ammoniacal Nitrogen			090	4.78	-1.02	Meth: 010.12 PCT			024	12.94	.35	<u>Other</u>		
200	7.08	1.79	Meth: 005.99 PCT			Total Nitrogen			409	12.90	.25	420	12.83	.84
409	7.00	1.24	Nitrogen From Urea			<u>Salicylic</u>			095	12.92	.24	398	12.72	.51
096	6.97	1.07	<u>Other</u>			211	12.56	.20	040	12.92	.22	Avg	12.63	
419	6.93	.71	027	7.11	-.71	Avg	12.56		042	12.90	.12	397	12.33	-1.24
234	6.86	.23	Meth: 009.10 PCT			Meth: 010.16 PCT			369	12.89	.10	430	11.19 S	-5.97
Avg	6.83		Ammon & Nitrate N			Total Nitrogen			361	12.89	.10	Meth: 010.XX PCT		
027	6.80	-.21	<u>Devarda</u>			<u>Raney</u>			Avg	12.88		Total Nitrogen		
420	6.80	-.36	030	13.05	.87	419	12.32	.71	106	12.87	-.10	114	14.81 s	10.19
105	6.78	-.47	Avg	10.04		Meth: 010.16 PCT			291	12.88	-.13	422	14.20 s	7.05
324	6.75	-.58	420	7.03	-.87	Total Nitrogen			247	12.86	-.20	351	13.95 s	5.77
029	6.69	-1.10	Meth: 010.16 PCT			<u>Raney</u>			162	12.87	-.26	428	13.90 s	5.53
415	6.67	-1.17	Total Nitrogen			<u>Other</u>			025	12.88	-.26	073	13.21	1.98
394	6.65	-1.31	Meth: 010.16 PCT			Total Nitrogen			029	12.84	-.28	292	13.18	1.82
309	6.60 R	-1.82	Total Nitrogen			Meth: 010.16 PCT			324	12.88	-.33	057	12.85	-.38
			Meth: 010.16 PCT			Total Nitrogen			262	12.85 X	-.39	393	13.18	1.79
			Total Nitrogen			Meth: 010.16 PCT			A=Analysis beyond 3-s limits					
			Meth: 010.16 PCT			Total Nitrogen								
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			Total Nitrogen			Meth: 010.16 PCT								
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			Total Nitrogen			Meth: 010.16 PCT								
			Meth: 010.16 PCT			Total Nitrogen								
			Total Nitrogen			Meth: 010.16 PCT								

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.50 PCT			Meth: 020.XX PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate Spectrometric</u>			<u>Total Phosphate ICP</u>			<u>Total Phosphate</u>		
027	13.15	1.64	007	12.79	-.28	258	8.74	1.82	426	8.22	.74	324	7.78	-.42
035	13.07	1.31	009	12.83	-.28	030	8.70	1.65	432	8.02	.35	042	7.72	-.46
157	13.05	1.12	029	12.77	-.32	425	8.48	1.15	Avg	7.86		419	7.72	-.49
389	13.04	1.10	233	12.82	-.39	234	8.45	1.06	389	7.66	-.41	390	7.71	-.52
055	12.98 R	1.07	131	12.75	-.40	262	8.30	.73	423	7.59	-.58	157	7.68	-.57
022	12.99	1.04	360	12.75	-.54	418	8.30 X	.68	430	7.26	-1.24	309	7.70	-.58
043	13.01	1.04	325	12.71	-.65	292	8.14	.30	422	7.24	-1.30	389	7.66	-.63
234	12.96	.77	034	12.70	-.66	392	8.10	.20				409	7.65	-.67
390	12.92	.74	023	12.72	-.69	406	8.05	.11	Meth: 020.99 PCT			398	7.63	-.73
330	12.95	.68	398	12.72	-.69	Avg	8.02		<u>Total Phosphate</u>			035	7.62	-.75
425	12.96	.66	405	12.66	-.89	232	7.85	-.41	<u>Other</u>			423	7.59	-.84
028	12.94	.63	018	12.65	-.95	200	7.83	-.47	398	7.63	-.71	405	7.58	-.85
024	12.94	.55	211	12.56	-1.38	324	7.78	-.64	Meth: 020.XX PCT			095	7.54 R	-1.12
136	12.89	.53	185	12.56	-1.41	042	7.72	-.72	<u>Total Phosphate</u>			420	7.46	-1.19
415	12.93	.51	041	12.53	-1.53	419	7.72	-.74	258	8.74 R	2.41	397	7.32	-1.58
095	12.92	.46	090	12.51	-1.66	390	7.71	-.77	030	8.70	2.24	430	7.26	-1.73
040	12.92	.45	423	12.51	-1.67	309	7.70	-.81	330	8.50	1.70	422	7.24	-1.81
049	12.87	.42	309	12.50	-1.77	420	7.46	-1.36	425	8.48	1.66	369	6.88 R	-2.98
409	12.90	.39	426	12.38 R	-2.56	397	7.32	-1.71	234	8.45	1.56	428	3.10 s	-13.19
324	12.88	.37	397	12.33	-2.57	369	6.88 R	-2.92	361	8.40	1.43	Meth: 030.10 PCT		
042	12.90	.37	096	12.28	-2.83	428	3.10 s	-11.93	262	8.30	1.17	Insoluble Phosphate		
025	12.88	.34	419	12.32 R	-2.87				418	8.30 X	1.13	<u>Grav Quimociac</u>		
361	12.89	.31	430	11.19 s	-8.47				426	8.22	.91	090	0.05	.00
369	12.89	.31				Meth: 020.40 PCT			292	8.14	.70	Meth: 030.40 PCT		
291	12.88	.29	Meth: 020.10 PCT			<u>Total Phosphate Automated</u>			392	8.10	.59	Insoluble Phosphate		
262	12.85 X	.28	<u>Grav Quimociac</u>			096	8.09	1.59	096	8.09	.55	<u>Automated</u>		
162	12.87	.28	105	7.95	1.34	247	7.88	.43	406	8.05	.46	096	0.21	-.71
406	12.83	.26	114	7.84	.53	Avg	7.80		432	8.02	.40	Meth: 030.50 PCT		
057	12.85	.25	090	7.81	.29	320	7.77	-.15	105	7.95	.24	Insoluble Phosphate		
106	12.87	.22	Avg	7.77		409	7.65	-.86	Avg	7.89		<u>ICP</u>		
247	12.86	.16	157	7.68	-.65	035	7.62	-1.01	247	7.88	-.04	409	0.11	.71
420	12.83	.10	405	7.58	-1.39	Meth: 020.50 PCT			232	7.85	-.11	Total Phosphate		
029	12.84	.08	095	7.54 R	-2.25	<u>Total Phosphate ICP</u>			114	7.84	-.17	Total Phosphate		
Avg	12.83					330	8.50	1.33	200	7.83	-.17	Total Phosphate		
377	12.81	-.10				361	8.40	1.14	090	7.81	-.21	Total Phosphate		
232	12.82	-.11							320	7.77	-.32	Total Phosphate		
296	12.79	-.20										Total Phosphate		
105	12.79	-.22										Total Phosphate		
* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits														

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 030.99 PCT			Meth: 040.XX PCT			Meth: 041.40 PCT			Meth: 041.99 PCT			Meth: 041.XX PCT		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
Other			096	7.88	1.00	Automated			Other			325	7.68	-.46
423	0.24	1.28	247	7.83	.76	029	7.86	1.24	105	7.57 X	.71	043	7.67	-.50
Avg	0.12		090	7.76	.46	131	7.72	.19				007	7.72	-.57
405	0.08	-.52	Avg	7.66		Avg	7.69		Meth: 041.XX PCT			185	7.66	-.61
247	0.05	-.77	405	7.51	-.74	025	7.68	-.15	<u>Dir Available Phosph</u>			105	7.57 X	-1.11
			423	7.35	-1.47	409	7.51	-1.38	291	8.53 s	5.08	361	7.57	-1.12
Meth: 030.XX PCT			Meth: 041.10 PCT			Meth: 041.50 PCT			018	8.34 s	3.95	409	7.51	-1.54
<u>Insoluble Phosphate</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			055	8.27 s	3.38	073	7.54 R	-1.95
423	0.24	1.46	055	7.82	1.76	<u>ICP</u>			009	8.15	2.68	415	7.40	-2.18
096	0.21	1.13	105	7.84	1.65	291	8.53 S	3.31	057	8.07	2.11	377	7.36	-2.46
Avg	0.12		296	7.79	.88	009	8.15	1.80	028	7.99	1.62	393	7.27 s	-3.04
409	0.11	-.20	009	7.78	.86	043	7.82	.52	397	7.99	1.62	027	2.86 s	-31.30
405	0.08	-.62	136	7.76	.78	360	7.81	.40	029	7.86	.78	Meth: 048.20 PCT		
090	0.05	-.91	057	7.76	.50	007	7.72	.34	043	7.82	.69	<u>Water Soluble Phosph</u>		
247	0.05	-.91	Avg	7.74		Avg	7.78		055	7.82	.66	<u>Spectrometric</u>		
Meth: 040.10 PCT			040	7.74	-.14	023	7.70	-.12	105	7.84	.62	247	12.86	1.29
<u>InDir Available Phos</u>			029	7.73	-.40	325	7.68	-.21	360	7.81	.46	Avg	8.46	
<u>Grav Quim</u>			233	7.72	-.48	361	7.57	-.60	419	7.81	.46	096	6.42	-.60
090	7.76	.71	131	7.71	-.58	393	7.27 S	-1.82	296	7.79	.38	420	6.11	-.69
Meth: 040.40 PCT			211	7.71	-.64	Meth: 041.60 PCT			296	7.79	.34	Meth: 050.00 PCT		
<u>InDir Available Phos</u>			049	7.71	-.69	<u>Dir Available Phosph</u>			009	7.78	.33	<u>Soluble Potash</u>		
<u>Automated</u>			041	7.74	-.70	<u>EDTA Extract</u>			136	7.76	.29	<u>STPB Oxalate</u>		
096	7.88	.71	260	7.68	-1.13	018	8.34 S	2.87	041	7.74	.26	095	6.13	2.11
Meth: 040.50 PCT			185	7.66	-1.71	057	8.07	1.51	057	7.76	.19	043	6.02	1.48
<u>InDir Available Phos</u>			Meth: 041.20 PCT			028	7.99	1.15	040	7.74	-.04	392	5.85	.61
<u>ICP</u>			<u>Dir Available Phosph</u>			296	7.79	.25	029	7.73	-.14	022	5.83	.51
423	7.35	.71	<u>Spectrometric</u>			Avg	7.75		131	7.72	-.15	418	5.82 X	.47
Meth: 040.99 PCT			055	8.27 S	1.96	106	7.74	-.06	233	7.72	-.16	055	5.81	.39
<u>InDir Available Phos</u>			397	7.99	.95	351	7.71	-.24	131	7.71	-.19	296	5.78	.19
<u>Other</u>			419	7.81	.28	095	7.67	-.37	211	7.71	-.22	Avg	5.74	
247	7.83	.86	Avg	7.73		043	7.67	-.41	049	7.71	-.23	211	5.73	-.09
Avg	7.67		415	7.40	-1.23	073	7.54 R	-1.47	351	7.71	-.28	029	5.68	-.33
405	7.51	-.87				377	7.36	-1.86	023	7.70	-.32	049	5.68	-.35
									260	7.68	-.40	090	5.67	-.40
									025	7.68	-.42	258	5.68	-.54
									095	7.67	-.44	233	5.67 R	-1.20
									A=Analysis beyond 3-s limits					

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.00 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>STPB Oxalate</u>			<u>ICP (Citrate)</u>			<u>Other</u>								
114	5.54	-1.30	361	5.83	.12	300	6.16	1.82	432	5.98	.95	028	5.66	-.49
009	5.49	-1.36	389	5.84	.10	260	6.00	1.07	390	5.97	.87	258	5.68	-.52
397	5.44	-1.61	377	5.82	.05	432	5.98	1.05	330	5.85 R	.81	030	5.70	-.52
			Avg	5.81		390	5.97	.97	131	5.92	.65	131	5.62	-.67
			007	5.73	-.30	330	5.85 R	.87	043	5.90	.60	057	5.64	-.73
Meth: 050.30 PCT			423			131			025			309		
Soluble Potash			5.50			5.92			5.90			5.60		
<u>AA (Oxalate)</u>			-1.04			.74			.54			-.85		
023	6.80 s	4.45	096	5.40	-1.37	232	5.88	.56	232	5.88	.48	040	5.57	-.86
262	6.07 X	1.43	393	5.36	-1.51	360	5.81	.30	018	5.86	.44	095	5.57	-.94
234	6.03	1.17	Meth: 050.60 PCT			325	5.82	.27	136	5.86	.38	027	5.54	-.99
428	6.01	1.09	Soluble Potash			247	5.76	.18	392	5.85	.37	351	5.54	-.99
136	5.86	.43	<u>Flame (Oxalate)</u>			419	5.78	.12	406	5.84	.31	233	5.67 R	-1.00
369	5.80	.25	415	6.40	2.24	Avg	5.76		022	5.83	.31	394	5.53	-1.05
Avg	5.76		041	6.00	.72	398	5.75	-.27	389	5.84	.30	200	5.52	-1.07
040	5.57	-.81	406	5.84	.12	105	5.69 X	-.34	361	5.83	.29	035	5.53	-1.10
095	5.57	-.89	105	5.84	.09	027	5.54	-.97	105	5.84	.29	073	5.54	-1.10
351	5.54	-.93	055	5.83	.04	394	5.53	-1.03	418	5.82 X	.27	185	5.60 R	-1.13
073	5.54	-1.06	Avg	5.82		426	5.48	-1.25	360	5.81	.24	114	5.54	-1.14
185	5.60	-1.09	042	5.71	-.49	430	5.44	-1.44	055	5.83	.24	423	5.50	-1.16
			131	5.62	-.77	425	5.37	-1.77	369	5.80	.22	009	5.49	-1.21
			309	5.60	-.91	Meth: 050.XX PCT			055	5.81	.21	426	5.48	-1.25
			200	5.52	-1.13	<u>Soluble Potash</u>			377	5.82	.20	397	5.44	-1.40
						023	6.80 s	4.40	325	5.82	.19	430	5.44	-1.44
						415	6.40	2.70	419	5.78	.06	096	5.40	-1.59
						Meth: 050.61 PCT			296	5.78	.03	425	5.37	-1.75
						Soluble Potash			Avg	5.77		393	5.36	-1.77
						<u>Flame (Citrate)</u>			157	5.75	-.09	029	5.29	-2.08
						025	5.90	1.17	105	5.75	-.10			
						018	5.86	1.02	106	5.74	-.15	Meth: 060.00 PCT		
						030	5.70	.54	247	5.76	-.18	Free Water		
						105	5.75	.44	211	5.73	-.19	<u>Vacuum Oven</u>		
						Avg	5.66		324	5.76	-.20	320	3.20	1.05
						028	5.66	-.05	007	5.73	-.22	096	3.02	.59
						057	5.64	-.55	398	5.75	-.27	247	2.82	.10
						035	5.53	-.81	105	5.69 X	-.38	Avg	2.79	
						029	5.29	-1.91	029	5.68	-.39	409	2.76	-.34
									042	5.71	-.39	007	2.14	-1.71
									041	6.00	1.00			
									260	6.00	.97			
									090	5.67	-.44			

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.00 PCT			Meth: 101.30 PCT			Meth: 101.XX PCT			Meth: 121.99 PCT			Meth: 144.02 PCT		
Acid Soluble Calcium			Acid Soluble Calcium			<u>Acid Soluble Calcium</u>			Acid Soluble Magnesi			Sulfur		
<u>AA</u>			<u>ICP</u>			360 2.39 .04			<u>Other</u>			<u>Gravimetric</u>		
028	2.70	1.95	096	2.28	-1.00	Avg	2.38		420	0.39	.71	029	9.46	.86
095	2.56	.95	430	2.23	-1.41	423	2.38	-.23	Meth: 121.XX PCT			Avg	9.32	
040	2.42	.47	095	2.08	-2.68	043	2.34	-.38	<u>Acid Soluble Magnesi</u>			136	9.18	-.87
Avg	2.40		200	1.71 s	-5.67	389	2.34	-.42	422	1.10 s	21.73	Meth: 144.70 PCT		
351	2.39	-.15	Meth: 101.99 PCT			291	2.35	-.51	247	0.72 s	9.34	Sulfur		
043	2.34	-.40	Acid Soluble Calcium			055	2.33	-.52	035	0.48	1.56	<u>Spectrometric</u>		
055	2.33	-.50	<u>Other</u>			232	2.36	-.59	102	0.47	1.39	200	9.55 X	.86
397	2.26	-.95	390	2.36	1.28	065	2.30	-.73	330	0.45	.67	Avg	9.23	
233	2.25	-1.11	234	2.40	.92	390	2.36	-.85	423	0.45	.67	393	8.90	-.87
029	1.79 S	-3.86	Avg	2.33		420	2.29	-.88	131	0.43	.10	Meth: 144.99 PCT		
Meth: 101.30 PCT			420	2.29	-.66	157	2.28	-.75	Avg	0.43		Sulfur		
Acid Soluble Calcium			157	2.28	-.75	397	2.26	-1.14	096	0.43	-.07	<u>Other</u>		
<u>ICP</u>			Meth: 101.XX PCT			430	2.23	-1.32	009	0.42	-.30	360	9.24	1.08
247	3.14 s	6.01	<u>Acid Soluble Calcium</u>			233	2.25	-1.38	057	0.43	-.39	330	9.25	1.02
042	2.97 s	4.69	247	3.14 s	6.41	095	2.08	-2.64	232	0.43 R	-.60	027	9.22	.85
422	2.93 s	4.35	042	2.97 s	5.03	029	1.79 s	-5.12	065	0.40	-.89	351	9.21	.82
035	2.63	1.87	422	2.93 s	4.68	200	1.71 s	-5.76	320	0.39	-1.44	389	9.13	.60
320	2.56	1.37	028	2.70 R	2.83	Meth: 121.30 PCT			420	0.39	-1.46	035	9.09	.51
432	2.54	1.09	035	2.63	2.10	Acid Soluble Magnesi			Meth: 144.01 PCT			291	8.94	.38
057	2.47	.80	320	2.56	1.57	<u>ICP</u>			Sulfur			Avg	8.97	
102	2.50	.79	095	2.56	1.46	422	1.10 s	23.92	<u>Gravimetric</u>			009	8.79	-.35
009	2.48	.68	432	2.54	1.29	247	0.72 S	10.21	055	9.44	1.59	419	8.81	-.35
131	2.43	.62	102	2.50	.97	035	0.48	1.59	029	9.36	1.15	023	8.72	-.52
023	2.42	.55	057	2.47	.94	102	0.47	1.41	157	9.26	.65	422	8.30	-1.67
324	2.47	.53	009	2.48	.86	330	0.45	.63	324	9.25	.58	232	8.34 S	-1.75
106	2.44	.35	131	2.43	.71	423	0.45	.63	095	9.23	.57	423	8.21 S	-1.95
393	2.44	.27	324	2.47	.70	Avg	0.44		043	9.24	.48	Meth: 144.XX PCT		
Avg	2.40		040	2.42	.69	131	0.43	-.14	296	9.21	.29	Sulfur		
419	2.40	-.07	023	2.42	.64	096	0.43	-.20	Avg	9.15		200	9.55 X	1.69
027	2.39	-.11	106	2.44	.50	057	0.43	-.45	233	9.04	-.62	029	9.46	1.34
360	2.39	-.15	393	2.44	.43	009	0.42	-.46	028	9.03	-.71	055	9.44	1.30
423	2.38	-.30	351	2.39	.20	232	0.43	-.71	040	9.01	-.78	029	9.36	1.00
389	2.34	-.53	234	2.40	.13	065	0.40	-1.11	102	8.96	-1.12	360	9.24 R	.94
291	2.35	-.59	419	2.40	.10	320	0.39	-1.72	106	8.81	-1.87	330	9.25	.78
232	2.36	-.62	027	2.39	.05	* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits								
065	2.30	-.85												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.99 PCT			Meth: 181.XX PPM			Meth: 191.30 PPM		
<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Cadmium</u>			<u>Chromium</u>		
157	9.26	.66	<u>ICP</u>			<u>Other</u>			Avg	3.53		<u>ICP</u>		
324	9.25	.60	102	10.78	.63	009	0.033	-1.50	393	3.40	-.12	291	115.47	.60
095	9.23	.57	232	10.80	.43	Meth: 181.00 PPM			106	3.45	-.15	419	112.50	.27
043	9.24	.55	065	10.83	.28	<u>Cadmium</u>			035	3.34	-.18	102	110.66	.09
027	9.22	.47	Avg	10.52		<u>Atomic Absorption</u>			102	3.28	-.24	Avg	109.93	
351	9.21	.44	009	9.45	-.81	040	3.11	1.06	009	3.20	-.31	232	107.30	-.32
296	9.21	.42	043	9.50	-.85	Avg	2.96		040	3.11	-.43	324	103.95	-.62
136	9.18	.34	096	9.15	-1.03	136	2.80	-.61	136	2.80	-.66	023	104.15 X	-.63
389	9.13	.15	Meth: 151.99 PPM			Meth: 181.30 PPM			247	2.75	-.74	233	99.60	-1.07
Avg	9.09		<u>Arsenic</u>			<u>Cadmium</u>			232	2.65	-.80	393	92.03	-1.86
035	9.09	-.11	<u>Other</u>			<u>ICP</u>			409	2.35	-1.08	065	47.29 S	-6.47
233	9.04	-.20	409	11.50	.71	291	6.15	2.12	023	2.20 X	-1.21	247	34.50 S	-7.79
028	9.03	-.26	Meth: 151.XX PPM			419	5.25	1.33	Meth: 190.00 PCT			Meth: 191.99 PPM		
040	9.01	-.30	<u>Arsenic</u>			324	4.80	.96	<u>Water Soluble Chlori</u>			<u>Chromium</u>		
102	8.96	-.55	247	25.50 s	11.95	065	4.23	.47	<u>Titrimetric</u>			<u>Other</u>		
393	8.90	-.70	040	14.37 s	3.98	Avg	3.73		102	1.41	.88	409	109.60	.71
291	8.94	-.73	233	12.66	2.02	106	3.45	-.27	Avg	1.39		Meth: 191.XX PPM		
106	8.81	-1.04	106	11.00	.86	393	3.40	-.29	422	1.38	-.85	<u>Chromium</u>		
419	8.81	-1.08	409	11.50	.82	035	3.34	-.34	Meth: 190.99 PCT			009	126.05	1.75
009	8.79	-1.13	102	10.78	.65	102	3.28	-.40	<u>Water Soluble Chlori</u>			096	121.00	1.20
023	8.72	-1.37	232	10.80	.43	009	3.20	-.47	<u>Other</u>			035	116.50	.73
422	8.30	-2.91	065	10.83	.24	247	2.75	-.88	009	1.43	.71	291	115.47	.63
232	8.34 s	-2.96	Avg	10.60		232	2.65	-.94	Meth: 190.XX PCT			419	112.50	.29
423	8.21 s	-3.29	136	10.35	-.41	023	2.20 X	-1.34	<u>Water Soluble Chlori</u>			102	110.66	.09
Meth: 151.00 PPM			009 9.45 -.93			Meth: 181.99 PPM			009 1.43 1.10			Avg 109.90		
<u>Arsenic</u>			043 9.50 -.97			<u>Cadmium</u>			102 1.41 .19			409 109.60 -.20		
<u>Atomic Absorption</u>			096 9.15 -1.16			<u>Other</u>			Avg 1.41			232 107.30 -.33		
040	14.37 S	8.11	Meth: 165.99 PCT			409 2.35 .71			422 1.38 -1.12			324 103.95 -.64		
Avg	10.35		<u>Acid Soluble Boron</u>			Meth: 181.XX PPM			Meth: 191.30 PPM			023 104.15 X -.66		
136	10.35	-.71	<u>Other</u>			<u>Cadmium</u>			<u>Chromium</u>			233 99.60 -1.11		
Meth: 151.30 PPM			422	0.052	1.15	291 6.15 2.37			009 126.05 1.67			393 92.03 -1.94		
<u>Arsenic</u>			423	0.050	.87	419 5.25 1.56			096 121.00 1.14			065 47.29 s -6.76		
<u>ICP</u>			Avg	0.043		324 4.80 1.16			035 116.50 .70			247 34.50 s -8.13		
247	25.50 s	11.21	409	0.042	-.24	065 4.23 .66								
233	12.66	1.93	232	0.041	-.31									
106	11.00	.83	* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits											

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 202.30 PPM			Meth: 202.XX PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT		
<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>		
ICP			065	14.28	-1.20	ICP			324	0.0942	.35	ICP		
009	61.35	1.42	320	6.00	-1.67	035	0.0884	-.32	419	0.0930	.28	409	2.98 s	3.10
057	59.15	1.30				065	0.0889	-.44	390	0.0941	.24	330	2.56	1.44
096	56.80	1.17	Meth: 221.00 PCT			422	0.0865	-.60	428	0.0933	.24	131	2.42	1.04
291	53.99	1.01	<u>Acid Soluble Copper</u>			360	0.0895	-.79	423	0.0930	.16	324	2.44	1.03
233	50.58	.83	<u>Atomic Absorption</u>			291	0.0845	-.92	009	0.0930	.10	009	2.40	.88
023	37.70 R	.38	095	0.1035	1.84	432	0.0850	-1.05	027	0.0930	.10	232	2.38	.82
Avg	35.40		200	0.1000 X	.92	393	0.0805	-1.41	095	0.0930	.10	360	2.32	.69
040	31.45	-.30	425	0.0985	.55	430	0.0805	-1.41	028	0.0927	.06	422	2.32	.62
419	28.50	-.38	351	0.0975	.34	042	0.0752	-2.21	Avg	0.0922		432	2.32	.61
232	27.90	-.41	Avg	0.0961		Meth: 221.99 PCT			233	0.0921	-.01	057	2.29	.58
324	27.70	-.43	397	0.0950	-.75	<u>Acid Soluble Copper</u>			426	0.0915	-.22	106	2.31	.57
102	24.48	-.60	428	0.0933	-.76	<u>Other</u>			035	0.0884	-.51	291	2.27	.52
106	18.00	-.95	028	0.0927	-.81	420	0.1285 S	3.29	065	0.0889	-.56	035	2.28	.46
065	14.28	-1.15	040	0.0935	-.85	409	0.1070	.96	422	0.0865	-.77	027	2.28	.46
320	6.00	-1.60	233	0.0921	-.93	Avg	0.1006		360	0.0895	-.80	426	2.26	.45
Meth: 202.99 PPM			043	0.0950	-1.21	291	0.0845	-1.06	291	0.0845	-1.06	247	2.24	.36
<u>Acid Soluble Cobalt</u>			029	0.0741 s	-5.17	432	0.0850	-1.14	432	0.0850	-1.14	096	2.25	.35
<u>Other</u>			Meth: 221.30 PCT			Meth: 221.XX PCT			393	0.0805	-1.53	Avg	2.14	
409	38.15	.71	<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			430	0.0805	-1.53	095	2.00	-.52
Meth: 202.XX PPM			ICP			389	0.8900 s	103.60	042	0.0752	-2.26	393	1.99	-.58
<u>Acid Soluble Cobalt</u>			389	0.8900 s	112.92	232	0.5039 s	73.18	029	0.0741	-2.35	042	1.99	-.61
009	61.35	1.46	232	0.5039 s	79.77	420	0.1285 s	4.71	Meth: 241.00 PCT			419	1.94	-.70
057	59.15	1.33	330	0.1029 R	2.02	409	0.1070	2.02	<u>Acid Soluble Iron</u>			389	1.90	-.84
096	56.80	1.20	102	0.1034	1.86	330	0.1029 R	1.66	<u>Atomic Absorption</u>			102	1.82	-1.11
291	53.99	1.04	131	0.0995	1.28	095	0.1035	1.50	351	2.68	1.56	320	1.60	-1.88
233	50.58	.85	057	0.0971	1.05	102	0.1034	1.48	055	2.48	.85	423	1.56	-2.03
023	37.70 R	.39	023	0.0950	.77	200	0.1000 X	1.01	043	2.44	.68	023	1.51	-2.18
409	38.15	.30	106	0.0955	.71	131	0.0995	.94	095	2.43	.65	430	1.13 s	-3.49
Avg	35.59		324	0.0942	.59	425	0.0985	.81	233	2.32	.37	Meth: 241.99 PCT		
040	31.45	-.32	419	0.0930	.45	057	0.0971	.77	028	2.26	.03	<u>Acid Soluble Iron</u>		
419	28.50	-.40	423	0.0930	.38	043	0.0950	.74	Avg	2.25		<u>Other</u>		
232	27.90	-.43	009	0.0930	.36	351	0.0975	.68	040	2.17	-.37	234	2.24	1.57
324	27.70	-.45	027	0.0930	.36	397	0.0950	.53	397	2.08	-.66	065	1.46	.61
102	24.48	-.63	095	0.0930	.35	023	0.0950	.53	029	1.91	-1.24	390	1.21	.25
106	18.00	-1.00	426	0.0915	.26	106	0.0955	.43	428	1.76	-1.79	Avg	1.45	
* X=Excluded from lab performance			Avg	0.0905		040	0.0935	.36	A=Analysis beyond 3-s limits			420	0.89	-.17
			S/s=Screened Outlier			R=Duplicate Range too large								

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.99 PCT			Meth: 241.XX PCT			Meth: 251.99 PPM			Meth: 261.11 PCT			Meth: 261.31 PCT		
Acid Soluble Iron			<u>Acid Soluble Iron</u>			Lead			Acid Soluble Manganese			Acid Soluble Manganese		
<u>Other</u>			389 1.90 -.43			<u>Other</u>			<u>AA</u>			<u>ICP</u>		
027	0.25 S	-.97	102	1.82	-.62	409	18.10	-.71	040	0.190	1.06	095	0.167	-.87
393	0.02 S	-1.28	428	1.76	-.78	Meth: 251.XX PPM			095	0.178	.11	Meth: 261.50 PCT		
Meth: 241.XX PCT			320	1.60	-1.16	<u>Lead</u>			Avg	0.177		Acid Soluble Manganese		
Acid Soluble Iron			423	1.56	-1.27	023	51.00 s	4.48	029	0.162	-1.17	<u>Spectrometric</u>		
409	2.98 R	2.34	023	1.51	-1.37	065	1.46	-1.54	Meth: 261.30 PCT			420	0.163	.71
351	2.68	1.47	065	1.46	-1.54	390	1.21	-2.11	Acid Soluble Manganese			Meth: 261.99 PCT		
330	2.56	1.18	390	1.21	-2.11	430	1.13	-2.30	<u>ICP</u>			Acid Soluble Manganese		
055	2.48	.98	430	1.13	-2.30	420	0.89	-2.88	330	0.220	1.94	Other		
324	2.44	.89	420	0.89	-2.88	027	0.25 s	-4.43	057	0.214	1.54	409 0.215 S 16.21		
131	2.42	.88	393	0.02 s	-5.01	393	0.02 s	-5.01	102	0.211	1.43	390 0.175 .71		
043	2.44	.88	Meth: 251.00 PPM			Avg	18.49		324	0.200	.73	Avg 0.175		
095	2.43	.86	Lead			102	16.82	-.26	291	0.195	.72	Meth: 261.XX PCT		
009	2.40	.78	<u>Atomic Absorption</u>			409	18.10 R	-.34	432	0.190	.59	<u>Acid Soluble Manganese</u>		
232	2.38	.74	136	14.90	.65	106	16.00	-.34	426	0.194	.46	258 0.270 s 5.42		
360	2.32	.63	Avg	14.52		009	15.10	-.48	009	0.193	.41	409 0.215 s 2.38		
233	2.32	.62	040	14.15	-1.04	136	14.90	-.49	035	0.192	.35	330 0.220 R 2.32		
422	2.32	.60	Meth: 251.30 PPM			065	14.71	-.52	360	0.191	.22	057 0.214 1.89		
432	2.32	.59	Lead			233	14.48	-.56	422	0.190	.15	102 0.211 1.76		
106	2.31	.56	<u>ICP</u>			040	14.15	-.60	419	0.188	.13	106 0.210 1.61		
057	2.29	.56	023	51.00 s	4.16	043	13.55	-.68	389	0.188	.13	233 0.195 R 1.10		
291	2.27	.52	247	38.25	2.49	035	11.05	-1.03	Avg	0.187		055 0.200 .98		
035	2.28	.49	291	30.09	1.43	Meth: 261.00 PCT			023	0.187	-.04	324 0.200 .98		
027	2.28	.49	419	22.50	.44	Acid Soluble Manganese			232	0.180	-.38	291 0.195 R .92		
426	2.26	.47	096	20.00	.11	<u>AA</u>			393	0.180	-.39	043 0.198 .84		
028	2.26	.45	Avg	19.15		258	0.270 s	11.14	065	0.180	-.42	432 0.190 R .72		
096	2.25	.41	324	17.30	-.30	233	0.195 R	2.01	423	0.178	-.50	351 0.195 .67		
247	2.24	.41	102	16.82	-.33	055	0.200	1.19	027	0.178	-.53	426 0.194 .65		
234	2.24	.40	232	18.80 R	-.41	043	0.198	.90	320	0.161	-1.51	009 0.193 .60		
040	2.17	.25	106	16.00	-.41	351	0.195	.51	430	0.156	-1.73	035 0.192 .54		
Avg	2.08		009	15.10	-.54	Avg	0.192		042	0.147	-2.24	360 0.191 .40		
397	2.08	-.11	065	14.71	-.58	028	0.188	-.53	Meth: 261.31 PCT			040 0.190 .35		
095	2.00	-.20	233	14.48	-.61	392	0.187	-.86	Acid Soluble Manganese			422 0.190 .32		
393	1.99	-.26	043	13.55	-.73	397	0.182	-1.42	<u>ICP</u>			392 0.187 .30		
042	1.99	-.30	035	11.05	-1.06	Meth: 261.11 PCT			Acid Soluble Manganese			419 0.188 .26		
419	1.94	-.33	* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits		
029	1.91	-.40												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.XX PCT			Meth: 271.XX PCT			Meth: 289.XX PPM			Meth: 291.XX PPM			Meth: 311.30 PCT		
<u>Acid Soluble Mangan</u>			<u>Water Soluble Mangan</u>			<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>		
389	0.188	.26	027	0.047	1.27	291	13.62	1.19	419	70.50	.84	<u>Flame Photometric</u>		
028	0.188	.24	Avg	0.035		232	12.85	.89	409	67.10 R	.75	320	0.29	.71
023	0.187	.14	432	0.030	-.46	035	12.75	.82	009	67.70	.71	Meth: 311.99 PCT		
Avg	0.184		029	0.027	-.82	106	12.50	.74	102	66.61	.62	<u>Sodium</u>		
397	0.182	-.24	393	0.027 R	-.86	419	12.50	.74	035	64.80	.54	<u>Other</u>		
232	0.180	-.26	Meth: 281.99 PPM			409	11.55	.54	232	63.60	.46	422	0.48 s	7.04
393	0.180	-.28	Mercury			102	12.05	.52	106	61.50	.34	409	0.35	1.88
065	0.180	-.35	<u>Other</u>			324	11.95	.48	023	55.50 X	.04	102	0.31	.64
095	0.178	-.40	409	0.18	.00	009	11.30	.24	Avg	55.49		035	0.31	.56
423	0.178	-.41	Meth: 289.00 PPM			Avg	10.83		065	32.33	-1.29	Avg	0.30	
027	0.178	-.43	<u>Molybdenum</u>			233	10.28	-.30	247	16.85	-2.15	232	0.29	-.61
390	0.175	-.60	<u>Atomic Absorption</u>			065	8.67	-.97	Meth: 301.00 PPM			423	0.28	-.69
095	0.167	-1.13	040	8.10	.00	040	8.10	-1.16	<u>Selenium</u>			009	0.28	-.83
420	0.163	-1.35	Meth: 289.30 PPM			096	7.50	-1.43	<u>Atomic Absorption</u>			057	0.28	-.83
029	0.162	-1.41	<u>Molybdenum</u>			247	6.00	-2.06	040	0.32	.71	Meth: 311.XX PCT		
320	0.161	-1.54	<u>ICP</u>			Meth: 291.30 PPM			Meth: 301.30 PPM			<u>Sodium</u>		
430	0.156	-1.79	291	13.62	1.11	<u>Nickel</u>			<u>Selenium</u>			422	0.48 s	7.53
042	0.147	-2.36	232	12.85	.81	<u>ICP</u>			<u>ICP</u>			409	0.35	2.04
Meth: 271.00 PCT			035	12.75	.74	419	70.50	.87	<u>Selenium</u>			102	0.31	.71
<u>Water Soluble Mangan</u>			106	12.50	.67	009	67.70	.74	<u>ICP</u>			035	0.31	.63
<u>Atomic Abs</u>			419	12.50	.67	102	66.61	.66	065	1.97 X	.89	Avg	0.30	
029	0.027	.71	106	12.50	.67	232	63.60	.50	Avg	1.26		320	0.29	-.37
Meth: 271.30 PCT			419	12.50	.67	106	61.50	.38	409	0.55	-.84	232	0.29	-.62
<u>Water Soluble Mangan</u>			102	12.05	.45	023	55.50 X	.08	Meth: 301.99 PPM			423	0.28	-.70
<u>ICP</u>			324	11.95	.40	Avg	54.32		<u>Selenium</u>			009	0.28	-.84
432	0.030	.61	009	11.30	.18	065	32.33	-1.17	<u>Other</u>			057	0.28	-.85
Avg	0.028		Avg	11.00		247	16.85	-2.00	296	0.45	.71	Meth: 321.00 PCT		
393	0.027	-1.06	233	10.28	-.35	Meth: 291.99 PPM			Meth: 301.XX PPM			<u>Acid Soluble Zinc</u>		
Meth: 271.99 PCT			065	8.67	-1.02	<u>Nickel</u>			<u>Selenium</u>			<u>Atomic Absorption</u>		
<u>Water Soluble Mangan</u>			096	7.50	-1.48	<u>Other</u>			<u>Selenium</u>			234	4.300 s	172.09
<u>Other</u>			247	6.00	-2.10	409	67.10	1.14	065	1.97 X	1.61	233	0.311 R	2.66
027	0.047	.00	Meth: 289.99 PPM			Avg	65.95		Avg	0.82		095	0.283	1.10
<u>Molybdenum</u>			<u>Molybdenum</u>			035	64.80	-.46	409	0.55	-.38	258	0.270	.69
<u>Other</u>			<u>Other</u>			Meth: 291.99 PPM			296	0.45	-.51	392	0.270	.58
						<u>Nickel</u>			040	0.32	-.70	043	0.260	.44
			409 11.55 -.71			<u>Other</u>			Meth: 301.99 PPM			Analysis beyond 3-s limits		
						409 67.10 1.14			<u>Selenium</u>					
						Avg 65.95			<u>ICP</u>					
						035 64.80 -.46			<u>ICP</u>					
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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 321.00 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT								
Acid Soluble Zinc			Acid Soluble Zinc			<u>Acid Soluble Zinc</u>								
<u>Atomic Absorption</u>			<u>ICP</u>			Avg 0.262								
397	0.263	.42	430	0.215	-1.61	040	0.260	-.06						
028	0.264	.35	042	0.190	-2.46	419	0.255	-.27						
351	0.262	.19	Meth: 321.99 PCT			035	0.252	-.36						
040	0.260	.12	Acid Soluble Zinc			043	0.260	-.37						
Avg	0.257		<u>Other</u>			291	0.252	-.37						
200	0.245 X	-.56	409	0.304	1.17	232	0.251	-.38						
029	0.197	-2.57	Avg	0.274		320	0.251	-.46						
425	0.174 S	-3.56	390	0.271	-.17	420	0.248	-.52						
428	0.044 s	-9.07	420	0.248	-1.04	200	0.245 X	-.63						
Meth: 321.30 PCT			Meth: 321.XX PCT			423	0.241	-.76						
Acid Soluble Zinc			<u>Acid Soluble Zinc</u>			422	0.238	-.86						
<u>ICP</u>			234	4.300 s	146.92	393	0.237	-.92						
426	0.316	1.88	233	0.311 R	2.13	065	0.237	-.94						
102	0.311	1.67	426	0.316	2.01	430	0.215	-1.71						
432	0.295 R	1.41	102	0.311	1.79	029	0.197	-2.36						
057	0.291 R	1.20	409	0.304	1.54	042	0.190	-2.61						
330	0.290	1.02	432	0.295 R	1.52	425	0.174 s	-3.20						
389	0.290	.97	057	0.291 R	1.29	428	0.044 s	-7.91						
009	0.283	.79	330	0.290	1.09									
106	0.280	.62	389	0.290	1.05									
023	0.278	.53	009	0.283	.85									
095	0.277	.53	095	0.283	.78									
324	0.275	.48	106	0.280	.67									
360	0.273	.42	023	0.278	.58									
131	0.272	.37	095	0.277	.57									
027	0.265	.12	324	0.275	.52									
Avg	0.262		258	0.270	.47									
419	0.255	-.26	360	0.273	.46									
035	0.252	-.35	131	0.272	.40									
291	0.252	-.36	390	0.271	.36									
232	0.251	-.36	392	0.270	.35									
320	0.251	-.44	397	0.263	.31									
423	0.241	-.72	028	0.264	.21									
422	0.238	-.82	027	0.265	.14									
393	0.237	-.87	351	0.262	.01									
065	0.237	-.89												

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	4	0.00	0.73	0.69	101.00	9	- 0.43	1.57	0.32
001.99	9	0.00	1.01	0.21	101.30	26	0.36	2.24	0.28
001.XX	13	- 0.13	1.06	0.29	101.99	4	0.00	0.77	0.66
003.10	3	0.00	1.03	0.36	101.XX	38	0.22	2.16	0.48
003.XX	4	0.00	1.01	0.33	121.30	13	2.62	7.05	0.30
009.10	2	0.00	1.22	0.03	121.XX	14	2.20	6.21	0.26
009.XX	3	0.00	1.12	0.03	144.01	12	0.00	1.00	0.21
010.11	5	- 0.30	1.15	0.28	144.02	2	0.00	1.21	0.11
010.12	2	0.00	0.28	0.84	144.70	2	0.00	1.22	0.07
010.60	54	0.52	2.67	0.38	144.99	13	- 0.12	1.04	0.32
010.99	4	- 1.48	3.10	0.36	144.XX	28	- 0.24	1.22	0.31
010.XX	66	0.24	2.33	0.33	151.00	2	3.16	4.47	3.63
020.10	6	- 0.28	1.14	0.65	151.30	9	1.24	3.82	0.53
020.20	20	- 0.73	2.87	0.27	151.XX	12	1.25	3.56	0.91
020.40	5	0.00	1.06	0.10	165.99	5	0.000	1.055	0.096
020.50	8	0.00	1.03	0.13	165.XX	5	0.000	1.055	0.096
020.XX	40	- 0.37	2.36	0.25	181.00	2	0.00	0.86	0.61
030.99	3	0.00	1.11	0.13	181.30	12	0.00	1.02	0.11
030.XX	6	0.00	1.04	0.13	181.XX	15	0.00	1.01	0.12
040.99	2	0.00	1.22	0.06	190.00	2	0.00	1.18	0.22
040.XX	5	0.00	1.06	0.08	190.XX	3	0.00	1.10	0.16
041.10	15	0.00	0.88	0.49	191.30	13	- 1.10	2.85	0.13
041.20	4	0.49	1.34	0.03	191.XX	14	- 1.06	2.87	0.14
041.40	5	- 6.96	15.59	0.21	202.30	14	0.01	0.98	0.12
041.50	9	0.37	1.46	0.18	202.XX	15	0.01	0.98	0.14
041.60	10	0.18	1.33	0.40	221.00	11	- 0.469	1.7617	0.4981
041.XX	36	- 0.78	5.44	0.52	221.30	24	7.2107	25.481	11.101
048.20	3	0.00	1.12	0.01	221.99	3	1.0965	2.0453	0.3553
048.XX	3	0.00	1.12	0.01	221.XX	37	4.3882	18.952	8.2241
050.00	16	- 0.02	0.96	0.37	241.00	10	0.00	1.01	0.19
050.30	11	0.40	1.61	0.36	241.30	27	- 0.02	1.30	0.29
050.50	5	0.00	1.02	0.26	241.99	6	0.00	1.04	0.08
050.51	11	0.00	1.02	0.11	241.XX	40	- 0.07	1.17	0.58
050.60	9	0.00	1.01	0.17	251.00	2	0.00	0.92	0.57
050.61	8	0.00	0.98	0.32	251.30	14	0.29	1.46	0.13
050.99	18	0.02	0.97	0.25	251.XX	17	0.26	1.42	0.15
050.XX	69	0.00	0.99	0.39	261.00	8	1.445	3.973	0.897
060.00	5	0.00	1.02	0.25	261.11	3	0.000	1.118	0.000
060.XX	5	0.00	1.02	0.25	261.30	22	0.000	0.976	0.262

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
261.31	2	0.000	1.225	0.014					
261.99	2	7.133	10.087	5.460					
261.XX	37	0.325	1.340	0.375					
271.30	2	0.000	0.862	0.615					
271.XX	4	- 0.205	1.000	0.131					
289.30	12	0.00	1.01	0.17					
289.XX	14	0.00	1.00	0.20					
291.30	8	0.00	1.03	0.09					
291.99	2	0.00	0.26	0.85					
291.XX	10	0.06	0.99	0.16					
301.30	2	0.00	1.19	0.21					
301.XX	4	0.00	1.06	0.18					
311.99	8	0.88	2.65	0.29					
311.XX	9	0.84	2.67	0.30					
321.00	14	11.554	46.289	0.423					
321.30	25	0.084	0.993	0.289					
321.99	3	0.000	1.112	0.097					
321.XX	40	3.450	23.326	0.291					