

- Pass 1 Results for 81 Labs - - Pass 2 Results for 79 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation	920.03	001.10	10	2.88	0.09	0.06	10	2.88	0.09	0.06
Ammoniacal Nitrogen, Other		001.99	6	2.87	0.08	0.05	5	2.88	0.04	0.01
Method Group 001.XX PCT			16	2.88	0.08	0.06	14	2.88	0.07	0.03
Nitrate Nitrogen, Jones Modified	930.02	002.20	2	3.40	0.23	0.02	2	3.40	0.23	0.02
Nitrate Nitrogen, Other		002.99	7	3.44	0.15	0.05	7	3.44	0.15	0.05
Method Group 002.XX PCT			9	3.43	0.17	0.04	9	3.43	0.17	0.04
Ammon & Nitrate N, Devarda	892.01	009.10	8	6.38	0.19	0.09	8	6.38	0.19	0.09
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	6.35	0.29	0.05	4	6.35	0.29	0.05
Total Nitrogen, Salicylic	955.04D	010.12	3	6.23	0.10	0.03	3	6.23	0.10	0.03
Total Nitrogen, Combustion		010.60	49	6.35	0.19	0.07	48	6.34	0.19	0.07
Total Nitrogen, Other		010.99	4	6.36	0.33	0.14	3	6.24	0.24	0.01
Method Group 010.XX PCT			62	6.32	0.23	0.08	59	6.32	0.21	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	3	6.45	0.13	0.14	3	6.45	0.13	0.14
Total Phosphate, Spectrometric	958.01	020.20	12	6.42	0.11	0.05	11	6.41	0.11	0.04
Total Phosphate, Automated	978.01	020.40	7	6.47	0.19	0.08	6	6.51	0.17	0.05
Total Phosphate, ICP		020.50	15	6.48	0.28	0.15	14	6.49	0.27	0.11
Total Phosphate, Other		020.99	2	6.74	0.26	0.00	2	6.74	0.26	0.00
Method Group 020.XX PCT			40	6.48	0.23	0.11	37	6.48	0.21	0.07
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.04	0.01	0.01	1	0.04	0.01	0.01
Insoluble Phosphate, Automated	978.01	030.40	1	0.07	0.01	0.02	1	0.07	0.01	0.02
Insoluble Phosphate, ICP		030.50	2	0.02	0.03	0.02	2	0.02	0.03	0.02
Method Group 030.XX PCT			5	0.04	0.03	0.01	5	0.04	0.03	0.01
InDir Available Phosphate, Grav Quim	960.02	040.10	1	6.44	0.01	0.02	1	6.44	0.01	0.02
InDir Available Phosphate, Spectrometri	960.02	040.20	1	6.39	0.00	0.00	1	6.39	0.00	0.00
InDir Available Phosphate, Automated	960.02	040.40	1	6.30	0.03	0.04	1	6.30	0.03	0.04
InDir Available Phosphate, ICP		040.50	1	6.19	0.03	0.05	1	6.19	0.03	0.05
InDir Available Phosphate, Other		040.99	1	6.17	0.16	0.23	1	6.17	0.16	0.23
Method Group 040.XX PCT			5	6.30	0.13	0.07	4	6.33	0.10	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	10	6.40	0.04	0.04	10	6.40	0.04	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	6.10	0.03	0.04	1	6.10	0.03	0.04
Dir Available Phosphate, Automated	978.01	041.40	4	6.21	0.17	0.18	4	6.21	0.17	0.18
Dir Available Phosphate, ICP		041.50	11	6.28	0.25	0.11	10	6.27	0.25	0.09
Dir Available Phosphate, EDTA Extract	993.01	041.60	7	6.41	0.12	0.05	7	6.41	0.12	0.05
Method Group 041.XX PCT			35	6.34	0.18	0.09	32	6.36	0.15	0.06
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	5.24	0.04	0.04	3	5.24	0.04	0.04
Water Soluble Phosphate, ICP		048.50	1	5.28	0.22	0.31	1	5.28	0.22	0.31
Method Group 048.XX PCT			4	5.25	0.09	0.11	4	5.25	0.09	0.11
Soluble Potash, STPB Oxalate	958.02	050.00	12	18.20	0.26	0.15	11	18.18	0.23	0.09

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Soluble Potash, AA (Oxalate) .....		050.30	6	18.36	0.83	0.21	5	18.42	0.89	0.11
Soluble Potash, AA (Citrate) .....		050.31	3	17.53	0.58	0.22	3	17.53	0.58	0.22
Soluble Potash, ICP (Oxalate) .....		050.50	10	18.29	0.52	0.42	9	18.32	0.49	0.32
Soluble Potash, ICP (Citrate) .....		050.51	10	18.10	0.58	0.16	10	18.10	0.58	0.16
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	3	18.42	0.34	0.04	3	18.42	0.34	0.04
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	7	18.41	0.37	0.16	7	18.41	0.37	0.16
Soluble Potash, Other .....		050.99	21	18.06	0.56	0.28	19	18.15	0.49	0.21
Method Group 050.XX PCT			72	18.17	0.54	0.23	67	18.21	0.52	0.17
Free Water, Vacuum Oven .....	965.08B	060.00	4	0.39	0.06	0.05	4	0.39	0.06	0.05
Method Group 060.XX PCT			4	0.39	0.06	0.05	4	0.39	0.06	0.05
Acid Soluble Calcium, AA .....	945.04	101.00	9	4.98	0.27	0.14	9	4.98	0.27	0.14
Acid Soluble Calcium, ICP .....		101.30	34	5.09	0.24	0.12	32	5.10	0.23	0.09
Acid Soluble Calcium, Other .....		101.99	2	4.33	0.15	0.15	2	4.33	0.15	0.15
Method Group 101.XX PCT			46	5.02	0.31	0.12	44	5.02	0.30	0.10
Acid Soluble Magnesium, AA .....	984.01	121.00	11	4.19	0.30	0.10	12	4.25	0.35	0.09
Acid Soluble Magnesium, ICP .....		121.30	38	4.20	0.20	0.08	37	4.21	0.20	0.07
Acid Soluble Magnesium, Other .....		121.99	2	4.26	0.31	0.35	2	4.26	0.31	0.35
Method Group 121.XX PCT			51	4.20	0.23	0.10	49	4.21	0.22	0.08
Water Soluble Magnesium, AA .....		131.00	3	3.28	0.21	0.05	3	3.28	0.21	0.05
Water Soluble Magnesium, ICP .....		131.30	1	4.25	0.02	0.03	1	4.25	0.02	0.03
Method Group 131.XX PCT			4	3.52	0.48	0.04	4	3.52	0.48	0.04
Sulfur, Gravimetric .....	980.02a	144.01	13	12.09	0.45	0.14	13	12.09	0.45	0.14
Sulfur, Gravimetric .....	980.02b	144.02	1	11.43	0.08	0.12	1	11.43	0.08	0.12
Sulfur, Spectrometric .....		144.70	1	12.66	0.16	0.22	1	12.66	0.16	0.22
Sulfur, Other .....		144.99	26	11.68	0.78	0.26	25	11.72	0.77	0.22
Method Group 144.XX PCT			41	11.83	0.71	0.22	40	11.85	0.70	0.19
Arsenic, Atomic Absorption .....		151.00	1	7.20	0.14	0.20	1	7.20	0.14	0.20
Arsenic, ICP .....		151.30	5	8.68	3.56	0.68	5	8.68	3.56	0.68
Arsenic, Other .....		151.99	2	5.18	1.12	0.27	2	5.18	1.12	0.27
Method Group 151.XX PPM			8	7.62	3.20	0.52	8	7.62	3.20	0.52
Acid Soluble Boron, Spectrometric .....	982.01	165.00	6	0.060	0.004	0.001	6	0.060	0.004	0.001
Acid Soluble Boron, Other .....		165.99	21	0.065	0.009	0.003	21	0.065	0.009	0.003
Method Group 165.XX PCT			27	0.064	0.008	0.003	25	0.064	0.008	0.002
Water Soluble Boron, Other .....		171.99	1	0.055	0.000	0.001	1	0.055	0.000	0.001
Cadmium, Atomic Absorption .....		181.00	2	3.92	0.32	0.12	2	3.92	0.32	0.12
Cadmium, ICP .....		181.30	10	3.68	0.43	0.18	10	3.68	0.43	0.18
Method Group 181.XX PPM			13	3.66	0.49	0.26	12	3.72	0.42	0.17
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	7	1.11	0.13	0.05	7	1.11	0.13	0.05
Water Soluble Chlorine, Other .....		190.99	4	1.00	0.24	0.04	4	1.00	0.24	0.04

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Method Group 190.XX PCT			11	1.07	0.18	0.05	11	1.07	0.18	0.05
Chromium, Atomic Absorption		191.00	1	67.71	5.64	7.98	1	67.71	5.64	7.98
Chromium, ICP		191.30	9	86.23	9.11	3.41	9	86.23	9.11	3.41
Chromium, Other		191.99	1	114.09	0.17	0.25	1	114.09	0.17	0.25
Method Group 191.XX PPM			11	87.08	13.21	3.54	11	87.08	13.21	3.54
Acid Soluble Cobalt, AA		202.00	2	35.75	22.84	1.50	2	35.75	22.84	1.50
Acid Soluble Cobalt, ICP	965.11	202.30	11	48.11	11.46	3.33	10	48.69	11.71	2.37
Method Group 202.XX PPM			13	46.21	13.92	3.04	12	46.53	14.34	2.22
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0022	0.0005	0.0001	2	0.0022	0.0005	0.0001
Acid Soluble Copper, ICP		221.30	17	0.0023	0.0004	0.0002	15	0.0023	0.0003	0.0001
Acid Soluble Copper, Other		221.99	1	0.0022	0.0000	0.0000	1	0.0022	0.0000	0.0000
Method Group 221.XX PCT			20	0.0023	0.0004	0.0002	18	0.0023	0.0003	0.0001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	7	0.70	0.05	0.02	7	0.70	0.05	0.02
Acid Soluble Iron, ICP		241.30	37	0.67	0.10	0.03	37	0.67	0.10	0.03
Acid Soluble Iron, Other		241.99	4	0.64	0.07	0.02	4	0.64	0.07	0.02
Method Group 241.XX PCT			48	0.67	0.10	0.03	47	0.68	0.09	0.03
Lead, Atomic Absorption		251.00	2	6.51	1.90	1.02	2	6.51	1.90	1.02
Lead, ICP		251.30	11	6.30	1.55	0.82	11	6.30	1.55	0.82
Method Group 251.XX PPM			13	6.33	1.57	0.85	13	6.33	1.57	0.85
Acid Soluble Manganese, AA	972.02a	261.00	7	0.419	0.040	0.013	7	0.419	0.040	0.013
Acid Soluble Manganese, AA	972.02b	261.11	1	0.373	0.003	0.004	1	0.373	0.003	0.004
Acid Soluble Manganese, ICP	972.02a	261.30	30	0.379	0.034	0.016	29	0.376	0.030	0.016
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.389	0.012	0.017	1	0.389	0.012	0.017
Acid Soluble Manganese, Other		261.99	8	0.370	0.037	0.007	8	0.370	0.037	0.007
Method Group 261.XX PCT			47	0.383	0.037	0.014	46	0.384	0.037	0.013
Water Soluble Manganese, Other		271.99	1	0.029	0.001	0.001	1	0.029	0.001	0.001
Mercury, ICP		281.30	1	0.05	0.01	0.02	1	0.05	0.01	0.02
Mercury, Other		281.99	1	0.06	0.01	0.01	1	0.06	0.01	0.01
Method Group 281.XX PPM			2	0.05	0.01	0.02	2	0.05	0.01	0.02
Molybdenum, ICP		289.30	13	9.19	1.12	0.41	13	9.19	1.12	0.41
Method Group 289.XX PPM			13	9.19	1.12	0.41	13	9.19	1.12	0.41
Nickel, Atomic Absorption		291.00	1	32.70	0.56	0.79	1	32.70	0.56	0.79
Nickel, ICP		291.30	10	46.24	6.45	1.64	10	46.24	6.45	1.64
Method Group 291.XX PPM			12	42.43	11.21	1.43	12	42.43	11.21	1.43
Selenium, ICP		301.30	1	0.30	0.05	0.07	1	0.30	0.05	0.07
Selenium, Other		301.99	1	0.16	0.00	0.00	1	0.16	0.00	0.00
Method Group 301.XX PPM			2	0.23	0.08	0.03	2	0.23	0.08	0.03
Sodium, Flame Photometric	974.01	311.30	1	0.49	0.01	0.02	1	0.49	0.01	0.02
Sodium, Other		311.99	5	0.48	0.03	0.01	5	0.48	0.03	0.01

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Method Group 311.XX PCT			6	0.48	0.02	0.01	6	0.48	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	10	0.152	0.008	0.005	10	0.152	0.008	0.005
Acid Soluble Zinc, ICP .....		321.30	35	0.149	0.013	0.008	33	0.149	0.012	0.007
Acid Soluble Zinc, Other .....		321.99	4	0.156	0.017	0.006	3	0.161	0.015	0.001
Method Group 321.XX PCT			50	0.151	0.013	0.007	48	0.151	0.013	0.006
Water Soluble Zinc, ICP .....		325.30	1	0.015	0.007	0.010	1	0.015	0.007	0.010
Water Soluble Zinc, Other .....		325.99	1	0.158	0.006	0.009	1	0.158	0.006	0.009
Method Group 325.XX PCT			2	0.086	0.082	0.010	2	0.086	0.082	0.010

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 001.XX PCT			Meth: 002.XX PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Nitrate Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
200	3.89 s	11.54	Avg	2.88		232	3.36	-.44	200	7.09 s	3.98	035	6.23	-.63
444	3.05	2.01	481	2.88	-.15	258	3.29	-.94	043	6.82	2.57	426	6.27	-.66
258	2.94	.70	420	2.86	-.41	200	3.20	-1.37	072	6.72	2.00	037	6.22	-.68
117	2.93	.63	232	2.83	-.82	Meth: 009.10 PCT			055	6.62	1.47	360	6.23	-.74
456	2.89	.47	027	2.82	-.96	Ammon & Nitrate N			443	6.57 R	1.44	042	6.20	-.76
397	2.89	.09	169	2.81	-1.15	<u>Devarda</u>			389	6.61	1.41	292	6.18	-.89
Avg	2.88		309	2.85 R	-1.42	393	6.76	2.00	393	6.60	1.39	232	6.17	-.92
481	2.88	-.12	090	2.78	-1.55	309	6.39	.65	095	6.60	1.36	325	6.20	-.93
232	2.83	-.66	368	2.80 R	-2.24	444	6.46	.52	422	6.57	1.21	351	6.16	-.97
169	2.81	-.94	Meth: 002.20 PCT			420	6.46	.38	029	6.50	.87	368	6.14	-1.08
309	2.85	-1.18	Nitrate Nitrogen			Avg	6.38		007	6.50	.85	371	6.10	-1.29
090	2.78	-1.27	<u>Jones Modified</u>			090	6.33	-.31	157	6.49	.84	451	6.05	-1.64
Meth: 001.99 PCT			029	3.59	.87	397	6.31	-.43	291	6.49	.77	234	5.99	-1.91
<u>Ammoniacal Nitrogen</u>			Avg	3.40		258	6.23	-.97	009	6.45	.70	472	5.89	-2.47
<u>Other</u>			200	3.20	-.87	169	6.16	-1.21	040	6.45	.64	482	5.78 s	-3.06
393	3.35 S	10.35	Meth: 002.99 PCT			Meth: 010.11 PCT			483	6.45	.64	450	5.80 s	-3.09
479	2.94	1.33	Nitrate Nitrogen			Total Nitrogen			233	6.38	.47	Meth: 010.99 PCT		
474	2.90	.44	<u>Other</u>			<u>Modified Comprehensi</u>			096	6.42	.42	Total Nitrogen		
096	2.89	.31	368	3.77	2.18	470	6.64	.96	102	6.35	.27	<u>Other</u>		
Avg	2.88		027	3.46	.15	309	6.50	.48	377	6.38	.26	479	6.72 R	2.33
420	2.86	-.57	Avg	3.44		260	6.37	.26	162	6.37	.23	137	6.44	.86
027	2.82	-1.45	397	3.42	-.17	Avg	6.35		402	6.37	.22	300	6.33	.40
368	2.80 R	-3.55	393	3.41	-.18	211	5.91	-1.51	354	6.37	.19	Avg	6.24	
Meth: 001.XX PCT			481	3.36	-.51	Meth: 010.12 PCT			406	6.35	.12	030	5.94	-1.26
<u>Ammoniacal Nitrogen</u>			232	3.36	-.53	Total Nitrogen			231	6.35	.07	255	2.79 S	-14.67
200	3.89 s	13.87	258	3.29	-1.07	<u>Salicylic</u>			Avg	6.34		072	2.68 S	-15.16
393	3.35 s	6.39	Meth: 002.XX PCT			185	6.33	1.01	106	6.31	-.27	Meth: 010.XX PCT		
444	3.05	2.40	Nitrate Nitrogen			481	6.25	.28	405	6.29	-.33	Total Nitrogen		
258	2.94	.82	368	3.77	2.07	Avg	6.23		136	6.28	-.34	200	7.09 s	3.69
479	2.94	.77	029	3.59	1.01	254	6.11	-1.19	247	6.31	-.36	043	6.82	2.42
117	2.93	.74	027	3.46	.19	484	5.57 S	-6.56	324	6.29	-.38	479	6.72 R	2.30
456	2.89	.56	Avg	3.43		Meth: 010.12 PCT			041	6.29	-.38	072	6.72	1.90
474	2.90	.22	397	3.42	-.12	Total Nitrogen			177	6.27	-.43	470	6.64	1.52
096	2.89	.16	393	3.41	-.12	<u>Salicylic</u>			086	6.34	-.49	055	6.62	1.42
397	2.89	.08	481	3.36	-.42	185	6.33	1.01	420	6.26	-.50	443	6.57 R	1.38
						481	6.25	.28	390	6.26	-.52			
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.23							
						254	6.11	-1.19						
						484	5.57 S	-6.56						
						Avg	6.2							

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</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
389	6.61	1.37	035	6.23	-.47	<u>Spectrometric</u>			<u>ICP</u>			258	6.48	.08
393	6.60	1.35	037	6.22	-.53	231	6.50	.79	402	6.45	-.28	Avg	6.48	
095	6.60	1.32	426	6.27	-.54	258	6.48	.67	444	6.45	-.54	090	6.47	-.06
422	6.57	1.18	042	6.20	-.59	481	6.44	.37	291	6.35	-.54	474	6.44	-.20
029	6.50	.88	360	6.23	-.59	405	6.44	.31	393	6.29	-.78	470	6.44	-.20
007	6.50	.86	292	6.18	-.71	474	6.44	.22	426	6.22	-1.13	481	6.44	-.22
157	6.49	.85	232	6.17	-.73	Avg	6.41		255	6.19	-1.15	405	6.44	-.23
309	6.50	.84	325	6.20	-.76	232	6.41	-.18	482	6.15	-1.33	402	6.45	-.31
291	6.49	.79	351	6.16	-.78	292	6.35	-.54	432	6.27 R	-1.72	247	6.41	-.31
009	6.45	.71	368	6.14	-.88	479	6.33	-.74	Meth: 020.99 PCT			232	6.41	-.33
040	6.45	.67	254	6.11	-1.02	234	6.30	-1.05	<u>Total Phosphate</u>			096	6.37	-.50
483	6.45	.67	371	6.10	-1.07	169	6.21	-1.82	<u>Other</u>			292	6.35	-.60
137	6.44	.57	451	6.05	-1.39	309	5.32 s	-9.64	443	7.46 S	2.99	291	6.35	-.60
096	6.42	.48	234	5.99	-1.63	428	5.23 s	-10.50	137	6.97	.87	456	6.35	-.64
233	6.38	.47	030	5.94	-1.85	Meth: 020.40 PCT			Avg	6.74		444	6.45	-.66
086	6.34	.44	211	5.91	-1.99	<u>Total Phosphate</u>			322	6.52	-.87	479	6.33	-.70
260	6.37	.44	472	5.89	-2.13	<u>Automated</u>			Meth: 020.XX PCT			234	6.30	-.87
377	6.38	.32	482	5.78	-2.67	484	6.83	1.89	<u>Total Phosphate</u>			393	6.29	-.89
162	6.37	.28	450	5.80 R	-2.70	042	6.55	.39	443	7.46 s	4.89	041	6.44 R	-.96
102	6.35	.28	484	5.57 s	-3.65	035	6.52	.09	422	7.06	2.77	027	6.26	-1.19
402	6.37	.28	255	2.79 s	-17.10	Avg	6.51		450	6.97 s	2.66	169	6.21	-1.27
354	6.37	.25	072	2.68 s	-17.66	247	6.41	-.55	137	6.97	2.34	426	6.22	-1.35
406	6.35	.17	Meth: 020.10 PCT			096	6.37	-.78	324	6.76 R	2.10	255	6.19	-1.36
231	6.35	.15	<u>Total Phosphate</u>			456	6.35	-.94	483	6.89	1.95	482	6.15	-1.59
185	6.33	.11	<u>Grav Quimociac</u>			027	6.26 R	-1.59	484	6.83	1.69	432	6.27 R	-2.12
300	6.33	.06	090	6.47	.19	Meth: 020.50 PCT			390	6.72	1.15	309	5.32 s	-5.45
131	6.33	.04	Avg	6.45		<u>Total Phosphate</u>			406	6.63	.74	428	5.23 s	-5.91
Avg	6.32		470	6.44	-.11	<u>ICP</u>			Meth: 030.10 PCT			Meth: 030.10 PCT		
106	6.31	-.19	041	6.44	-1.57	422	7.06	2.13	<u>Insoluble Phosphate</u>			<u>Insoluble Phosphate</u>		
405	6.29	-.21	Meth: 020.20 PCT			389	6.57	.48	<u>Grav Quimociac</u>			<u>Grav Quimociac</u>		
136	6.28	-.22	<u>Total Phosphate</u>			371	6.49	.43	090			090		
324	6.29	-.28	<u>Spectrometric</u>			042	6.55	.42	.03			.00		
041	6.29	-.28	450	6.97 s	5.49	451	6.52	.40	Meth: 030.20 PCT			Meth: 030.20 PCT		
247	6.31	-.30	324	6.76 s	4.33	035	6.52	.21	<u>Insoluble Phosphate</u>			<u>Insoluble Phosphate</u>		
177	6.27	-.31	406	6.63	1.96	322	6.52	.20	<u>Spectrometric</u>			<u>Spectrometric</u>		
481	6.25	-.36	371	6.49 R	1.06	157	6.48	.19	474			0.04		
420	6.26	-.36				157	6.48	-.16	.11			.71		
390	6.26	-.39												

\* 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: 050.30 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>AA (Oxalate)</u>			<u>ICP (Citrate)</u>			<u>Other</u>								
309	19.37	1.06	291	18.49	.66	450	18.48	.93	258	18.37 R	.87	389	18.20	-.39
185	19.15	.82	377	18.44	.58	451	18.47	.76	470	18.63	.81	325	18.05	-.42
234	18.43	.01	389	18.20	.38	177	18.49	.70	450	18.48	.80	200	17.99	-.43
Avg	18.42		Avg	18.10		402	18.43	.58	169	18.60	.77	043	18.09	-.45
040	18.20	-.28	023	18.05	-.20	232	18.33	.38	095	18.55	.68	322	17.91	-.58
157	18.05 R	-.58	043	18.09	-.35	131	18.24	.30	451	18.47	.62	360	17.95	-.59
351	16.98	-1.62	009	17.90	-.36	Avg	18.15		177	18.49	.55	072	17.91	-.59
			432	17.68	-.75	247	18.13	-.05	291	18.49	.54	009	17.90	-.60
			393	16.76	-2.32	043	18.06	-.20	377	18.44	.45	157	18.05	-.74
						405	18.02	-.26	106	18.34	.45	055	17.74	-.91
Meth: 050.31 PCT			Meth: 050.60 PCT											
Soluble Potash			Soluble Potash											
<u>AA (Citrate)</u>			<u>Flame (Oxalate)</u>											
254	18.08	.96	443	20.26 S	5.43	325	18.05	-.37	234	18.43	.43	432	17.68	-1.04
030	17.64	.22	406	18.67	.75	322	17.91	-.49	090	18.40	.39	042	17.65	-1.08
Avg	17.53		169	18.60	.55	072	17.91	-.50	035	18.34	.32	030	17.64	-1.12
472	16.87	-1.24	Avg	18.42		360	17.95	-.52	324	18.30	.27	027	17.66	-1.15
			200	17.99	-1.28	042	17.65	-1.03	232	18.33	.25	157	17.70 R	-1.38
						027	17.66	-1.10	131	18.24	.23	368	17.54	-1.40
Meth: 050.50 PCT			Meth: 050.61 PCT											
Soluble Potash			Soluble Potash											
<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>											
422	20.30 s	4.09	041	19.18	2.12	368	17.54	-1.37	131	18.32	.23	390	18.00 R	-1.42
292	18.99	1.37	095	18.55	.44	481	17.31	-1.78	029	18.24	.22	481	17.31	-1.79
420	18.80	1.22	Avg	18.41		482	17.45 R	-1.82	009	18.27	.16	482	17.45 R	-1.81
444	18.67	.74	131	18.32	-.25	255	17.12 R	-2.33	Avg	18.21		255	17.12 R	-2.31
106	18.34	.40	035	18.34	-.35				211	18.20	-.01	351	16.98	-2.39
Avg	18.32		029	18.24	-.55	Meth: 050.XX PCT			072	18.16	-.13	472	16.87	-2.65
324	18.30	-.21	037	18.13	-.79	<u>Soluble Potash</u>			136	18.15	-.15	393	16.76	-2.81
354	18.15	-.36	456	18.10	-.84	484	23.38 s	10.09	354	18.15	-.15			
426	18.19	-.41				422	20.30 s	4.07	055	18.14	-.15	Meth: 060.00 PCT		
055	17.74	-1.19				443	20.26 s	3.98	247	18.13	-.15	Free Water		
390	18.00 R	-1.58				309	19.37	2.25	057	18.16	-.16	<u>Vacuum Oven</u>		
157	17.70	-1.63				137	19.23	1.99	040	18.20	-.19	096	0.47	1.58
						041	19.18	1.90	456	18.10	-.21	456	0.40	.08
						185	19.15	1.83	037	18.13	-.21	Avg	0.39	
						292	18.99	1.51	102	18.17	-.24	474	0.38	-.32
						474	18.95	1.45	254	18.08	-.25	007	0.34	-.94
						420	18.80	1.33	426	18.19	-.29			
Meth: 050.51 PCT			Meth: 050.99 PCT											
Soluble Potash			Soluble Potash											
<u>ICP (Citrate)</u>			<u>Other</u>											
007	18.76	1.17	484	23.38 s	10.80	007	18.76	1.11	043	18.06	-.29	Meth: 060.99 PCT		
483	18.67	.98	137	19.23	2.22	444	18.67	.91	231	18.03	-.36	Free Water		
			474	18.95	1.65	483	18.67	.90	023	18.05	-.36	<u>Other</u>		
						406	18.67	.90	405	18.02	-.36	443	1.85 S	.00

\* 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: 060.XX PCT			Meth: 101.30 PCT			Meth: 101.XX PCT			Meth: 101.XX PCT			Meth: 121.30 PCT		
<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
443	1.85 s	23.83	ICP			482	5.56 s	3.09	481	4.80	-.75	ICP		
096	0.47	1.58	057	5.20	.47	420	5.57	1.80	029	4.88	-.75	086	4.32	.65
456	0.40	.08	432	5.18	.37	041	5.53	1.69	055	4.87	-.80	390	4.32	.58
Avg	0.39		247	5.12	.10	483	5.48	1.54	354	4.80	-.80	247	4.30	.46
474	0.38	-.32	Avg	5.10		231	5.36	1.10	474	4.68	-1.14	360	4.29	.43
007	0.34	-.94	131	5.09	-.06	035	5.07 R	1.02	023	4.78 R	-1.28	258	4.26	.40
			095	5.07	-.13	177	5.33	1.01	397	4.61	-1.38	420	4.27	.38
			368	5.04	-.33	157	5.32	.99	042	4.40	-2.04	433	4.28	.37
Meth: 101.00 PCT			106			479			426			472		
<u>Acid Soluble Calcium</u>			324			433			484			444		
AA			389	5.01	-.41	037	5.29	.89				131	4.25	.20
177	5.33	1.29	157	5.07	-.50	390	5.29	.87	Meth: 121.00 PCT			106	4.24	.15
157	5.32	1.27	027	4.98	-.53	086	5.28	.85	<u>Acid Soluble Magnesi</u>			057	4.23	.14
028	5.23	.99	090	4.97	-.63	028	5.23	.74	AA			Avg	4.21	
043	5.01	.10	102	4.95	-.66	291	5.25	.74	351	4.94 S	1.94	389	4.20	-.03
Avg	4.98		232	4.87	-.99	450	5.20	.68	200	4.61	1.04	055	4.19	-.08
351	4.82	-.60	360	4.90	-1.06	057	5.20	.60	177	4.61	1.02	027	4.15	-.29
481	4.80	-.71	255	4.84	-1.11	432	5.18	.52	169	4.29	.16	095	4.14	-.34
029	4.88	-.79	472	4.85	-1.13	157	5.07	.40	043	4.26	.10	102	4.12	-.42
055	4.87	-.83	444	4.84	-1.15	247	5.12	.31	Avg	4.19		450	4.15	-.53
397	4.61	-1.44	009	4.87	-1.21	131	5.09	.21	028	4.23	-.06	368	4.10	-.53
			035	5.07 R	-1.33	368	5.04	.17	397	4.19	-.19	432	4.11	-.57
Meth: 101.30 PCT			354			095			481			157		
<u>Acid Soluble Calcium</u>			474			Avg			040			426		
ICP			023	4.78 R	-1.92	106	5.02	.00	157	4.21	-.44	035	4.09	-.83
422	7.49 s	10.42	426	4.27 s	-3.66	043	5.01	-.07	309	3.70	-1.59	324	4.03	-.88
117	6.30 s	5.23				389	5.01	-.07	029	3.68	-1.62	482	4.00	-1.06
482	5.56 s	3.92	Meth: 101.99 PCT			324	5.02	-.10	Meth: 121.30 PCT			009	4.02	-1.12
420	5.57	2.05	<u>Acid Soluble Calcium</u>			027	4.98	-.16	<u>Acid Soluble Magnesi</u>			041	3.93	-1.44
041	5.53	1.91	<u>Other</u>			102	4.95	-.24	<u>ICP</u>			232	3.91	-1.48
483	5.48	1.71	042	4.40	.45	090	4.97	-.26	117	4.71	2.50	023	3.98 R	-1.52
231	5.36	1.12	Avg	4.33		232	4.87	-.49	422	4.60	1.96	090	3.88	-1.63
479	5.30	.95	484	4.27	-1.14	255	4.84	-.58	483	4.53	1.61	255	3.82	-1.99
433	5.30	.87				360	4.90	-.61	231	4.50	1.47	474	3.38 s	-4.15
037	5.29	.84	Meth: 101.XX PCT			472	4.85	-.61	354	4.45	1.25	479	2.81 s	-7.03
390	5.29	.81	<u>Acid Soluble Calcium</u>			444	4.84	-.61	291	4.36	.75			
086	5.28	.80	422	7.49 s	8.11	351	4.82	-.65	037	4.34	.67			
450	5.20	.65	117	6.30 s	4.20	009	4.87	-.72						
291	5.25	.64												

\* 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: 121.99 PCT			Meth: 121.XX PCT			Meth: 131.XX PCT			Meth: 144.99 PCT			Meth: 144.XX PCT		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Water Soluble Magnes</u>			<u>Sulfur</u>			<u>Sulfur</u>		
<u>Other</u>			<u>AA</u>			<u>Gravimetric</u>			<u>Other</u>			<u>Sulfur</u>		
137	4.37	.35	481	4.15	-.24	027	4.25	1.51	117	13.00	1.67	200	12.40	.82
Avg	4.26		027	4.15	-.26	029	3.54	.05	483	12.85	1.54	360	12.16	.43
042	4.15	-1.17	040	4.16	-.30	Avg	3.52		200	12.40	.91	324	12.15	.43
			095	4.14	-.30	309	3.17	-.74	360	12.16	.57	157	12.10	.38
			102	4.12	-.38	484	3.13	-.82	157	12.10	.52	102	12.10	.36
			450	4.15	-.47				102	12.10	.50	450	12.07	.34
Meth: 121.XX PCT			Meth: 144.01 PCT			Meth: 144.02 PCT			Meth: 144.XX PCT			Meth: 144.XX PCT		
<u>Acid Soluble Magnesi</u>			<u>Water Soluble Magnes</u>			<u>Gravimetric</u>			<u>Sulfur</u>			<u>Sulfur</u>		
351	4.94 s	3.28	432	4.11	-.51	041	12.81	1.62	389	12.05	.44	102	12.00	.24
117	4.71	2.24	157	4.07	-.68	055	12.82	1.62	422	11.91	.25	106	12.00	.24
200	4.61	1.85	426	4.08	-.72	043	12.71	1.36	479	11.77	.24	029	12.02	.23
177	4.61	1.82	035	4.09	-.75	324	12.15	.17	177	11.90	.24	371	11.97	.17
422	4.60	1.77	324	4.03	-.79	Avg	12.09		009	11.85	.21	040	11.95	.16
483	4.53	1.45	482	4.00	-.95	029	12.02	-.18	027	11.79	.10	095	11.95	.14
231	4.50	1.32	009	4.02	-1.00	371	11.97	-.27	Avg	11.72		422	11.91	.08
354	4.45	1.12	041	3.93	-1.29	102	12.00	-.28	037	11.62	-.14	177	11.90	.07
137	4.37	.74	232	3.91	-1.33	106	12.00	-.28	086	11.61	-.22	Avg	11.85	
291	4.36	.67	023	3.98 R	-1.36	095	11.95	-.31	368	11.66	-.36	027	11.79	-.09
157	4.21	.67	090	3.88	-1.46	040	11.95	-.33	291	11.37	-.45	481	11.80	-.11
037	4.34	.61	042	4.15 R	-1.59	397	11.82	-.62	232	11.34	-.49	397	11.82	-.11
086	4.32	.58	255	3.82	-1.79	481	11.80	-.65	354	11.30	-.67	009	11.85	-.14
390	4.32	.52	309	3.70	-2.30	231	11.20	-2.02	482	11.20	-.77	479	11.77	-.29
247	4.30	.42	029	3.68	-2.36				472	11.03	-.89	037	11.62	-.35
169	4.29	.41	474	3.38 s	-3.73				426	10.71	-1.33	086	11.61	-.40
360	4.29	.39	479	2.81 s	-6.31				023	10.83 R	-1.42	368	11.66	-.48
258	4.26	.36							255	10.30	-1.85	292	11.43	-.62
420	4.27	.34	Meth: 131.00 PCT			Meth: 144.70 PCT			Meth: 144.XX PCT			Meth: 144.XX PCT		
433	4.28	.34	<u>Water Soluble Magnes</u>			<u>Gravimetric</u>			<u>Sulfur</u>			<u>Sulfur</u>		
472	4.23	.28	<u>AA</u>			<u>Spectrometric</u>			<u>Other</u>			<u>Sulfur</u>		
043	4.26	.27	029	3.54	1.27	292	11.43	.71	137	13.04	1.70	351	11.30	-.91
444	4.22	.21	Avg	3.28					117	13.00	1.65	231	11.20	-.98
131	4.25	.18	309	3.17	-.58				483	12.85	1.52	482	11.20	-1.03
028	4.23	.15	484	3.13	-.74				472	12.82	1.39	472	11.03	-1.18
106	4.24	.13							426	12.81	1.39	426	10.71	-1.66
057	4.23	.13	Meth: 131.30 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 144.XX PCT		
Avg	4.21		<u>Water Soluble Magnes</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Sulfur</u>		
389	4.20	-.02	<u>ICP</u>			<u>Other</u>			<u>Other</u>			<u>Sulfur</u>		
055	4.19	-.07	027	4.25	.71	137	13.04	1.72	043	12.71	1.23	023	10.83 R	-1.74
397	4.19	-.11							474	12.66	1.17	255	10.30	-2.24
												393	9.78	-2.99
												351	9.52 s	-3.37

\* 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: 151.00 PPM			Meth: 165.00 PCT			Meth: 165.XX PCT			Meth: 181.00 PPM			Meth: 181.XX PPM		
Arsenic			Acid Soluble Boron			Acid Soluble Boron			Cadmium			Cadmium		
<u>Atomic Absorption</u>			<u>Spectrometric</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>		
136	7.20	.71	481	0.060	.03	444	0.116 s	9.80	481	4.19	.87	368	3.40	-.90
			Avg	0.060		432	0.140 s	9.11	Avg	3.92		086	3.30	-1.03
			055	0.058	-.68	043	0.085	2.52	136	3.65	-.86	035	3.06	-1.59
Meth: 151.30 PPM			0200 0.053 X -1.78			368 0.084 2.40			Meth: 181.30 PPM			247 2.98 R -2.40		
Arsenic			Meth: 165.99 PCT			255 0.078 1.66			Cadmium			484 0.86 s -6.82		
<u>ICP</u>			Acid Soluble Boron			291 0.074 1.13			<u>ICP</u>			Meth: 190.00 PCT		
368	14.00	1.51	Other			483 0.071 .90			482 4.64 2.20			Water Soluble Chlori		
450	10.45	.52	444	0.116 s	9.11	137 0.070 .71			450 3.75 .60			<u>Titrimetric</u>		
Avg	8.68		432	0.140 s	8.43	042 0.065 R .61			474 3.90 .50			055 1.99 s 6.79		
037	8.09	-.17	043	0.085	2.27	Avg 0.064			095 3.86 .43			481 1.36 1.88		
095	6.73	-.55	368	0.084	2.16	023 0.064 -.08			009 3.78 .34			043 1.16 .42		
474	4.15	-1.27	255	0.078	1.47	095 0.063 -.09			Avg 3.68			057 1.12 .31		
			291	0.074	.97	090 0.063 -.19			102 3.57 -.27			029 1.14 .25		
Meth: 151.99 PPM			483 0.071 .76			433 0.062 -.23			232 3.57 -.30			Avg 1.11		
Arsenic			137 0.070 .58			426 0.063 -.35			368 3.40 -.80			102 1.06 -.40		
<u>Other</u>			042 0.065 .56			258 0.061 -.38			086 3.30 -.91			444 1.02 -.78		
086	6.14	.87	Avg 0.065			360 0.061 -.45			035 3.06 -1.45			422 0.95 -1.37		
Avg	5.18		090	0.063	-.26	231 0.060 -.48			247 2.98 s -2.26			Meth: 190.99 PCT		
481	4.23	-.86	433	0.062	-.30	481 0.060 -.48			Meth: 181.99 PPM			Water Soluble Chlori		
			426	0.063	-.38	086 0.060 -.55			Cadmium			<u>Other</u>		
Meth: 151.XX PPM			389 0.061 -.44			422 0.061 -.59			484 0.86 S .00			389 1.31 1.27		
Arsenic			258 0.061 -.51			324 0.059 -.60			<u>Other</u>			300 1.08 .33		
368	14.00	2.01	360 0.061 -.51			106 0.059 -.66			Avg 1.00			027 0.92 -.36		
450	10.45	.90	231 0.060 -.53			055 0.058 -.79			027 0.92 -.36			368 0.69 -1.28		
037	8.09	.15	086 0.060 -.60			232 0.056 -.90			Meth: 181.XX PPM					
Avg	7.62		422 0.061 -.62			009 0.056 -1.01			Cadmium					
136	7.20	-.14	324 0.059 -.65			354 0.055 R -1.22			482 4.64 2.18			Meth: 190.XX PCT		
095	6.73	-.28	106 0.059 -.70			200 0.053 X -1.37			481 4.19 1.12			Water Soluble Chlori		
086	6.14	-.47	232 0.056 -.93			482 0.050 s -2.90			450 3.75 .60			055 1.99 s 5.00		
481	4.23	-1.06	009 0.056 -1.03			Meth: 171.99 PCT			474 3.90 .42			481 1.36 1.55		
474	4.15	-1.09	354 0.055 -1.22			Water Soluble Boron			095 3.86 .35			389 1.31 1.30		
			482 0.050 S -2.77			<u>Other</u>			009 3.78 .29			043 1.16 .51		
Meth: 165.00 PCT						027 0.055 .71			Avg 3.72			029 1.14 .38		
Acid Soluble Boron									136 3.65 -.21			057 1.12 .34		
<u>Spectrometric</u>									102 3.57 -.37			300 1.08 .04		
023	0.064	.88							232 3.57 -.40			Avg 1.07		
095	0.063	.82												
029	0.063	.64												

\* 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: 241.30 PCT			Meth: 241.XX PCT			Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.30 PCT		
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Iron			Lead			Acid Soluble Manganese		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
255	0.66	-.08	234	0.74	.75	157	0.38 A	-3.43	095	6.37	.02	035	0.377	.57
444	0.66	-.11	106	0.73	.60	474	0.26 s	-4.87	Avg	6.33		095	0.392	.53
354	0.65	-.25	029	0.72	.58	324	0.07 s	-6.98	368	6.30	-.07	106	0.390	.47
090	0.64	-.26	086	0.71	.58	Meth: 251.00 PPM			474	5.15	-.77	389	0.390	.47
482	0.66	-.45	291	0.72	.57	Lead			481	5.02	-.84	368	0.384	.46
433	0.60	-.63	479	0.70	.54	<u>Atomic Absorption</u>			035	4.15	-1.59	360	0.384	.31
426	0.61	-.70	450	0.71	.50	136	8.00	.94	482	3.52	-1.87	291	0.385	.31
232	0.58	-.82	247	0.71	.46	Avg			Meth: 261.00 PCT			131	0.382	.20
041	0.58	-.84	095	0.71	.42	481			Acid Soluble Manganese			Avg		
389	0.57	-.94	258	0.70	.41	Meth: 251.30 PPM			<u>AA</u>			090	0.374	-.15
472	0.52	-1.38	177	0.71	.36	Lead			397	0.492	1.85	402	0.367	-.31
023	0.43	-2.29	131	0.70	.34	<u>ICP</u>			028	0.445	.78	247	0.361	-.52
037	0.42	-2.36	102	0.70	.32	009	13.34 s	4.54	351	0.426	.19	086	0.362	-.82
157	0.38	-2.77	231	0.70	.31	037	8.09	1.16	Avg	0.419		444	0.350	-.94
324	0.07 s	-5.73	368	0.69	.24	043	0.404	-.38	258	0.400	-.60	472	0.354	-.98
Meth: 241.99 PCT			027	0.68	.19	247	8.02	1.12	177	0.392	-.66	232	0.340	-1.22
Acid Soluble Iron			422	0.69	.12	232	7.35	.80	029	0.371	-1.21	023	0.345	-1.22
<u>Other</u>			Avg	0.68		450	7.15	.56	Meth: 261.11 PCT			422	0.339	-1.24
234	0.74	1.46	402	0.67	-.11	086	6.65	.54	Acid Soluble Manganese			426	0.340	-1.33
Avg	0.64		255	0.66	-.19	102	6.55	.18	<u>AA</u>			482	0.345	-1.34
042	0.64	-.14	444	0.66	-.21	368	6.30	.06	040			433	0.310	-2.22
137	0.63	-.19	035	0.67	-.23	095	6.37	.05	Meth: 261.30 PCT			450	0.161 s	-7.23
484	0.57	-1.15	397	0.65	-.26	Avg			Acid Soluble Manganese			Meth: 261.31 PCT		
Meth: 241.XX PCT			354	0.65	-.39	474	5.15	-.76	<u>ICP</u>			Acid Soluble Manganese		
Acid Soluble Iron			090	0.64	-.42	035	4.15	-1.59	432			ICP		
055	0.82	1.73	042	0.64	-.47	482	3.52	-1.87	055			324		
057	0.81	1.53	137	0.63	-.53	Meth: 251.XX PPM			354			0.389		
390	0.77	1.26	482	0.66	-.57	Lead			057			0.389		
432	0.78	1.21	028	0.61	-.72	009			102			0.410		
483	0.77	1.15	433	0.60	-.86	136			057			1.19		
360	0.77	1.10	426	0.61	-.93	8.00			102			1.02		
117	0.76	1.01	232	0.58	-1.08	037			057			1.01		
043	0.76	.97	041	0.58	-1.11	247			102			.97		
351	0.75	.82	389	0.57	-1.23	8.02			009			.74		
009	0.74	.79	484	0.57	-1.24	232			041			.74		
Meth: 241.99 PCT			472	0.52	-1.76	450			117			.69		
Acid Soluble Iron			023	0.43	-2.85	086			231			.66		
037	0.42	-2.93	102	0.42	-2.93	102			484			0.360		

\* 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: 261.99 PCT			Meth: 261.XX PCT			Meth: 281.XX PPM			Meth: 289.XX PPM			Meth: 291.XX PPM		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Mercury</u>			<u>Molybdenum</u>			<u>Nickel</u>		
Other			029	0.371	-.40	450	0.05	-1.03	095	8.90	-.26	232	42.40	-.03
042	0.355	-.42	402	0.367	-.46				035	8.67	-.47	482	38.30	-.37
474	0.325	-1.21	035	0.377	-.50	Meth: 289.30 PPM			433	8.42	-.71	027	33.45	-.82
027	0.314	-1.51	247	0.361	-.64	<u>Molybdenum</u>			232	8.30	-.80	481	32.70	-.87
			484	0.360	-.71	<u>ICP</u>			102	6.79	-2.15	474	14.00	-2.54
Meth: 261.XX PCT			042	0.355	-.80	450	11.45	2.11	474	3.40 s	-5.19	Meth: 301.30 PPM		
<u>Acid Soluble Manganese</u>			086	0.362	-.80	057	9.87	.81	Meth: 291.00 PPM			Selenium		
397	0.492	2.91	444	0.350	-.96	422	10.00	.72	Nickel			<u>ICP</u>		
432	0.465	2.21	472	0.354	-.97	086	9.43	.58	<u>Atomic Absorption</u>			095	0.30	-.71
028	0.445	1.69	023	0.345	-1.17	247	9.75	.50	481 32.70 .71			Meth: 301.99 PPM		
055	0.440	1.53	232	0.340	-1.20	009	9.54	.42	Meth: 291.30 PPM			Selenium		
351	0.426	1.13	422	0.339	-1.22	037	9.26	.06	Nickel			<u>Other</u>		
483	0.418	.92	482	0.345 R	-1.25	Avg	9.19		ICP			086	0.16	.71
354	0.410	.75	426	0.340	-1.28	368	9.10	-.20	009 53.98 1.20			Meth: 301.XX PPM		
137	0.410	.69	474	0.325	-1.60	095	8.90	-.26	368 51.45 .86			<u>Selenium</u>		
390	0.407	.60	027	0.314	-1.91	433	8.42	-.71	086 50.54 .76			095 0.30 .91		
057	0.406	.59	433	0.310	-2.00	232	8.30	-.80	095 51.00 .74			Avg 0.23		
258	0.400	.57	450	0.161 s	-6.03	102	6.79	-2.15	450 49.50 .51			086 0.16 -.82		
102	0.405	.56	Meth: 271.99 PCT			474	3.40 s	-5.19	102 46.94 .11			Meth: 311.30 PCT		
043	0.404	.54	Water Soluble Mangan			Meth: 289.99 PPM			Avg 46.24			Sodium		
009	0.389	.50	<u>Other</u>			<u>Molybdenum</u>			035 44.85 -.22			<u>Flame Photometric</u>		
117	0.389	.46	027	0.029	.71	<u>Other</u>			232 42.40 -.60			086 0.49 .71		
041	0.398	.39	Meth: 281.30 PPM			484 16.60 S .00			482 38.30 -1.23			Meth: 311.99 PCT		
231	0.395	.32	Mercury			Meth: 289.XX PPM			027 33.45 -2.00			Sodium		
037	0.396	.32	<u>ICP</u>			<u>Molybdenum</u>			474 14.00 s -5.00			<u>Other</u>		
324	0.389	.26	450	0.05	-.71	484	16.60 s	6.64	Meth: 291.XX PPM			422 0.74 S 9.61		
177	0.392	.23	Meth: 281.99 PPM			450	11.45	2.11	Nickel			474 0.51 1.11		
095	0.392	.21	Mercury			057	9.87	.81	009 53.98 1.03			102 0.51 1.05		
106	0.390	.16	<u>Other</u>			422	10.00	.72	368 51.45 .82			Avg 0.48		
389	0.390	.16	484	0.06	.71	086	9.43	.58	095 51.00 .77			057 0.47 -.46		
291	0.385	.09	Meth: 281.XX PPM			247	9.75	.50	450 49.50 .63			232 0.46 -.82		
Avg	0.384		<u>Mercury</u>			009	9.54	.42	102 46.94 .40			009 0.45 -1.13		
131	0.382	-.07	484 0.06 .66			037	9.26	.06	035 44.85 .22			482 0.27 S -8.93		
255	0.380	-.11	Avg 0.05			Avg	9.19		Avg 42.43					
360	0.384	-.15	Meth: 281.99 PPM			368	9.10	-.20						
090	0.374	-.30	Mercury											
040	0.373	-.31	484 0.06 .66											
368	0.384	-.31	Avg 0.05											

\* 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
<u>Meth: 311.XX PCT</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.XX PCT</u>			<u>Meth: 325.XX PCT</u>		
<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Water Soluble Zinc</u>		
422	0.74 s	10.37	ICP			Other			232	0.148	-.28	450	0.158	.87
474	0.51	1.16	324	0.156	.72	041	0.154	-.53	291	0.149	-.34	Avg	0.086	
102	0.51	1.09	479	0.155	.66	474	0.150	-.76	102	0.147	-.34	479	0.015	-.87
086	0.49	.45	106	0.155	.66	042	0.140 R	-1.59	029	0.149	-.37			
Avg	0.48		057	0.155	.55	484	0.105 S	-3.84	043	0.147	-.38			
057	0.47	-.52	117	0.152	.49				157	0.148	-.43			
232	0.46	-.94	291	0.149	.33	<u>Meth: 321.XX PCT</u>			422	0.145	-.55			
009	0.45	-1.27	090	0.149	.25	<u>Acid Soluble Zinc</u>			472	0.142	-.74			
482	0.27 s	-9.72	035	0.152	.23	432	0.515 s	29.30	255	0.140	-.83			
			402	0.152	.23	397	0.181	2.40	292	0.140	-.83			
			009	0.151	.23	137	0.180	2.32	354	0.140	-.83			
<u>Meth: 321.00 PCT</u>			<u>Acid Soluble Zinc</u>			<u>Avg</u>			<u>389</u>			<u>258</u>		
<u>Atomic Absorption</u>			<u>131</u>			<u>0.149</u>			<u>0.144</u>			<u>-.87</u>		
397	0.181 s	3.53	232	0.148	-.12	483	0.173	1.73	023	0.146	-.92			
371	0.164	1.44	102	0.147	-.22	390	0.170	1.55	247	0.139	-.99			
040	0.159	.89	157	0.148	-.38	231	0.160	1.08	200	0.138 X	-.99			
481	0.155	.72	422	0.145	-.45	055	0.160	1.08	086	0.146 R	-1.13			
028	0.157	.66	472	0.142	-.62	371	0.164	1.02	042	0.140	-1.15			
177	0.154	.36	292	0.140	-.71	360	0.158	.92	095	0.136	-1.19			
Avg	0.152		255	0.140	-.71	040	0.159	.67	444	0.130	-1.62			
351	0.151	-.08	389	0.140	-.71	450	0.158	.65	426	0.131	-1.64			
029	0.149	-.62	354	0.140	-.71	324	0.156	.58	433	0.120	-2.41			
043	0.147	-.69	247	0.139	-.88	479	0.155	.53	027	0.108 s	-3.40			
258	0.144	-1.41	023	0.146	-.90	481	0.155	.53	484	0.105 s	-3.61			
200	0.138 X	-1.64	095	0.136	-1.08	106	0.155	.53	482	0.105 s	-3.78			
			086	0.146 R	-1.13	028	0.157	.51	041	0.080 s	-5.61			
			444	0.130	-1.53	117	0.152	.41						
<u>Meth: 321.30 PCT</u>			<u>426</u>			<u>0.155</u>			<u>Meth: 325.30 PCT</u>					
<u>Acid Soluble Zinc</u>			<u>0.131</u>			<u>-.39</u>			<u>Water Soluble Zinc</u>					
<u>ICP</u>			<u>433</u>			<u>0.154</u>			<u>ICP</u>					
432	0.515 s	30.59	027	0.108 S	-3.38	041	0.154	.26	479	0.015	.71			
368	0.175 R	2.51	482	0.105 s	-3.78	402	0.152	.08						
483	0.173	1.95	041	0.080 s	-5.67	035	0.152	.08						
390	0.170	1.76				009	0.151	.08						
037	0.169	1.62	<u>Meth: 321.99 PCT</u>			<u>351</u>			<u>Meth: 325.99 PCT</u>					
055	0.160	1.23	<u>Acid Soluble Zinc</u>			<u>Avg</u>			<u>Water Soluble Zinc</u>					
231	0.160	1.23	<u>Other</u>			<u>474</u>			<u>Other</u>					
360	0.158	1.06	137	0.180	1.28	474	0.150	-.05	450	0.158	.71			
450	0.158	.81	Avg	0.161		131	0.149	-.20						
						090	0.149	-.27						

\* 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	11	1.05	3.58	0.45	060.00	4	0.00	0.86	0.56
001.99	7	1.21	4.18	1.15	060.XX	5	4.76	10.68	0.56
001.XX	18	1.03	3.66	0.61	101.00	9	0.00	0.96	0.36
002.20	2	0.00	1.22	0.04	101.30	38	0.33	2.21	0.68
002.99	7	0.00	1.02	0.21	101.99	2	0.00	0.64	0.74
002.XX	9	0.00	1.01	0.17	101.XX	48	0.27	1.62	0.48
009.10	8	0.00	0.98	0.32	121.00	12	0.00	1.01	0.17
009.XX	8	0.00	0.98	0.32	121.30	40	- 0.31	1.59	0.30
010.11	4	0.00	1.07	0.13	121.99	2	0.00	0.50	0.79
010.12	4	- 1.62	3.36	0.54	121.XX	53	- 0.15	1.45	0.34
010.60	52	- 0.01	1.25	0.30	131.00	3	0.00	1.10	0.15
010.99	6	- 4.63	8.04	0.53	131.XX	4	0.00	1.08	0.06
010.XX	65	- 0.40	2.61	1.25	144.01	13	0.00	1.00	0.20
020.10	3	0.00	0.15	0.90	144.99	27	- 0.15	1.12	0.25
020.20	16	- 0.72	3.99	1.02	144.XX	41	- 0.12	1.13	0.24
020.40	7	- 0.20	1.08	0.34	151.30	5	0.00	1.05	0.13
020.50	15	- 0.06	0.98	0.45	151.99	2	0.00	1.21	0.13
020.99	3	0.92	1.81	0.69	151.XX	8	0.00	1.03	0.11
020.XX	44	- 0.10	1.73	0.55	165.00	6	0.000	1.032	0.171
030.50	2	0.00	1.10	0.38	165.99	24	0.517	2.264	1.556
030.XX	5	0.00	1.00	0.33	165.XX	30	0.420	2.213	1.487
040.XX	5	- 0.32	1.17	0.52	181.00	2	0.00	1.20	0.18
041.10	12	0.02	1.33	0.83	181.30	11	- 0.15	1.06	0.54
041.20	2	17.85	25.25	0.56	181.XX	14	- 0.61	2.06	0.50
041.40	5	- 0.54	1.40	0.93	190.00	8	0.85	2.58	0.21
041.50	11	0.04	0.96	0.31	190.99	4	0.00	1.07	0.11
041.60	7	0.00	0.98	0.32	190.XX	12	0.42	1.74	0.15
041.XX	31	- 0.12	1.55	0.70	191.30	10	- 0.69	2.37	0.23
048.20	3	0.00	0.85	0.60	191.XX	12	- 0.40	1.69	0.17
048.XX	4	0.00	0.35	0.89	202.00	2	0.00	1.22	0.05
050.00	12	0.07	0.98	0.58	202.30	11	- 0.05	0.98	0.20
050.30	6	- 0.07	0.96	0.17	202.XX	13	- 0.02	0.98	0.16
050.31	3	0.00	1.07	0.27	221.00	2	0.0000	1.2153	0.1074
050.50	11	0.31	1.50	0.62	221.30	20	110.32	480.64	13.093
050.51	10	0.00	1.01	0.19	221.XX	23	96.003	448.55	12.216
050.60	4	1.36	2.86	0.12	241.00	8	- 1.11	3.27	0.21
050.61	7	0.00	1.01	0.23	241.30	38	- 0.15	1.34	0.21
050.99	22	0.33	2.55	0.49	241.99	4	0.00	1.04	0.25
050.XX	69	0.22	1.71	0.39	241.XX	50	- 0.31	1.59	0.23

## 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
251.00	2	0.00	1.11	0.37					
251.30	12	0.38	1.59	0.35					
251.XX	14	0.32	1.50	0.36					
261.00	7	0.000	1.013	0.222					
261.30	31	- 0.137	1.685	0.366					
261.99	8	0.000	1.026	0.127					
261.XX	48	- 0.148	1.298	0.260					
281.XX	2	0.000	0.443	0.807					
289.30	14	- 0.37	1.67	0.28					
289.XX	15	0.10	2.42	0.27					
291.30	11	- 0.45	1.79	0.17					
291.XX	12	0.00	1.02	0.09					
301.XX	2	0.00	1.16	0.28					
311.99	7	0.27	5.10	1.69					
311.XX	8	0.24	5.12	1.72					
321.00	11	0.321	1.373	0.426					
321.30	39	0.495	5.071	1.097					
321.99	5	- 1.052	1.845	0.343					
321.XX	54	0.311	4.140	0.996					