

- Pass 1 Results for 83 Labs - - Pass 2 Results for 83 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	9	3.36	0.16	0.03	9	3.36	0.16	0.03
Ammoniacal Nitrogen, Other .....		001.99	7	3.39	0.09	0.03	7	3.39	0.09	0.03
Method Group 001.XX PCT			16	3.37	0.13	0.03	16	3.37	0.13	0.03
Nitrate Nitrogen, Jones Modified .....	930.02	002.20	1	3.24	0.01	0.01	1	3.24	0.01	0.01
Nitrate Nitrogen, Other .....		002.99	6	3.52	0.21	0.14	6	3.52	0.21	0.14
Method Group 002.XX PCT			7	3.48	0.21	0.12	6	3.46	0.21	0.07
Ammon & Nitrate N, Devarda .....	892.01	009.10	9	5.93	1.52	0.03	9	5.93	1.52	0.03
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	6.65	0.10	0.01	4	6.65	0.10	0.01
Total Nitrogen, Salicylic .....	955.04D	010.12	3	6.84	0.24	0.14	3	6.84	0.24	0.14
Total Nitrogen, Combustion .....		010.60	54	6.84	0.20	0.07	52	6.84	0.20	0.06
Total Nitrogen, Other .....		010.99	2	6.26	0.21	0.06	2	6.26	0.21	0.06
Method Group 010.XX PCT			65	6.78	0.26	0.07	61	6.79	0.24	0.06
Total Phosphate, Grav Quimociac .....	962.02	020.10	6	4.73	0.16	0.06	6	4.73	0.16	0.06
Total Phosphate, Spectrometric .....	958.01	020.20	14	4.76	0.18	0.08	14	4.76	0.18	0.08
Total Phosphate, Automated .....	978.01	020.40	5	4.66	0.21	0.05	5	4.66	0.21	0.05
Total Phosphate, ICP .....		020.50	17	4.79	0.24	0.11	16	4.80	0.23	0.08
Total Phosphate, Other .....		020.99	2	4.76	0.14	0.23	2	4.76	0.14	0.23
Method Group 020.XX PCT			44	4.75	0.21	0.09	41	4.76	0.20	0.07
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Insoluble Phosphate, Spectrometric ....	963.03C	030.20	1	0.07	0.00	0.00	1	0.07	0.00	0.00
Insoluble Phosphate, Automated .....	978.01	030.40	1	0.04	0.02	0.03	1	0.04	0.02	0.03
Insoluble Phosphate, ICP .....		030.50	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Insoluble Phosphate, Other .....		030.99	1	0.07	0.01	0.01	1	0.07	0.01	0.01
Method Group 030.XX PCT			5	0.05	0.02	0.01	4	0.05	0.02	0.00
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	4.78	0.04	0.05	1	4.78	0.04	0.05
InDir Available Phosphate, Spectrometri	960.02	040.20	1	4.73	0.06	0.08	1	4.73	0.06	0.08
InDir Available Phosphate, Automated ..	960.02	040.40	1	4.77	0.06	0.09	1	4.77	0.06	0.09
InDir Available Phosphate, ICP .....		040.50	1	4.31	0.06	0.09	1	4.31	0.06	0.09
InDir Available Phosphate, Other .....		040.99	1	4.79	0.16	0.22	1	4.79	0.16	0.22
Method Group 040.XX PCT			5	4.67	0.20	0.11	5	4.67	0.20	0.11
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	9	4.71	0.08	0.05	8	4.72	0.07	0.03
Dir Available Phosphate, Automated ....	978.01	041.40	2	4.51	0.19	0.04	2	4.51	0.19	0.04
Dir Available Phosphate, ICP .....		041.50	11	4.69	0.10	0.07	10	4.71	0.08	0.05
Dir Available Phosphate, EDTA Extract .	993.01	041.60	6	4.70	0.07	0.03	6	4.70	0.07	0.03
Dir Available Phosphate, Other .....		041.99	2	4.81	0.09	0.11	2	4.81	0.09	0.11
Method Group 041.XX PCT			31	4.68	0.12	0.06	29	4.70	0.10	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	3.49	0.07	0.03	2	3.49	0.07	0.03
Water Soluble Phosphate, ICP .....		048.50	1	3.42	0.04	0.05	1	3.42	0.04	0.05
Method Group 048.XX PCT			3	3.46	0.07	0.03	3	3.46	0.07	0.03

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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
Soluble Potash, STPB Oxalate	958.02	050.00	13	19.88	0.54	0.10	13	19.88	0.54	0.10
Soluble Potash, STPB Citrate	969.04	050.10	1	19.35	0.07	0.10	1	19.35	0.07	0.10
Soluble Potash, AA (Oxalate)		050.30	9	19.54	0.64	0.17	8	19.52	0.66	0.08
Soluble Potash, AA (Citrate)		050.31	3	18.82	0.77	0.33	3	18.82	0.77	0.33
Soluble Potash, ICP (Oxalate)		050.50	9	19.79	0.76	0.28	9	19.79	0.76	0.28
Soluble Potash, ICP (Citrate)		050.51	10	19.43	0.58	0.15	9	19.42	0.60	0.07
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	19.50	0.72	0.09	4	19.50	0.72	0.09
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	19.96	0.25	0.17	6	19.96	0.25	0.17
Soluble Potash, Other		050.99	18	19.26	1.10	0.48	16	19.30	1.10	0.29
Method Group 050.XX PCT			74	19.53	0.82	0.25	68	19.53	0.81	0.16
Free Water, Vacuum Oven	965.08B	060.00	4	0.38	0.06	0.04	4	0.38	0.06	0.04
Method Group 060.XX PCT			4	0.38	0.06	0.04	4	0.38	0.06	0.04
Acid Soluble Calcium, AA	945.04	101.00	10	4.74	0.20	0.09	9	4.78	0.15	0.06
Acid Soluble Calcium, ICP		101.30	29	4.81	0.29	0.09	27	4.80	0.30	0.07
Acid Soluble Calcium, Other		101.99	3	5.12	0.48	0.24	3	5.12	0.48	0.24
Method Group 101.XX PCT			43	4.84	0.33	0.11	40	4.80	0.26	0.09
Acid Soluble Magnesium, AA	984.01	121.00	9	4.24	0.24	0.07	9	4.24	0.24	0.07
Acid Soluble Magnesium, ICP		121.30	33	4.20	0.29	0.08	31	4.17	0.26	0.06
Acid Soluble Magnesium, Other		121.99	1	4.25	0.01	0.02	1	4.25	0.01	0.02
Method Group 121.XX PCT			43	4.21	0.28	0.08	40	4.21	0.22	0.06
Water Soluble Magnesium, ICP		131.30	1	3.10	0.08	0.11	1	3.10	0.08	0.11
Water Soluble Magnesium, Other		131.99	1	7.75	1.77	2.50	1	7.75	1.77	2.50
Method Group 131.XX PCT			2	5.42	2.88	1.31	2	5.42	2.88	1.31
Sulfur, Gravimetric	980.02a	144.01	12	10.14	0.31	0.15	11	10.14	0.32	0.12
Sulfur, Gravimetric	980.02b	144.02	1	10.36	0.03	0.04	1	10.36	0.03	0.04
Sulfur, Spectrometric		144.70	1	9.98	0.21	0.29	1	9.98	0.21	0.29
Sulfur, Other		144.99	25	9.76	0.68	0.15	22	9.79	0.65	0.08
Method Group 144.XX PCT			40	9.87	0.61	0.15	36	9.90	0.58	0.10
Arsenic, Atomic Absorption		151.00	1	5.65	0.78	1.10	1	5.65	0.78	1.10
Arsenic, ICP		151.30	7	1.57	1.38	0.27	6	1.12	0.74	0.05
Arsenic, Other		151.99	2	1.46	0.14	0.10	2	1.46	0.14	0.10
Method Group 151.XX PPM			10	1.96	1.71	0.32	8	1.20	0.66	0.06
Acid Soluble Boron, Spectrometric	982.01	165.00	6	0.036	0.005	0.002	6	0.036	0.005	0.002
Acid Soluble Boron, Other		165.99	21	0.038	0.006	0.002	20	0.038	0.005	0.001
Method Group 165.XX PCT			27	0.037	0.005	0.002	26	0.037	0.005	0.001
Water Soluble Boron, Other		171.99	2	0.083	0.055	0.000	2	0.083	0.055	0.000
Cadmium, Atomic Absorption		181.00	1	5.20	0.14	0.20	1	5.20	0.14	0.20
Cadmium, ICP		181.30	14	4.97	0.49	0.31	12	4.91	0.44	0.18
Cadmium, Other		181.99	1	5.28	0.04	0.06	1	5.28	0.04	0.06

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Method Group 181.XX PPM			16	5.00	0.46	0.29	14	4.95	0.43	0.18
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	6	2.83	0.16	0.02	6	2.83	0.16	0.02
Water Soluble Chlorine, Other .....		190.99	3	2.91	0.05	0.06	3	2.91	0.05	0.06
Method Group 190.XX PCT			9	2.86	0.13	0.04	8	2.85	0.14	0.03
Chromium, ICP .....		191.30	11	164.80	62.42	6.74	11	164.80	62.42	6.74
Chromium, Other .....		191.99	1	39.08	2.88	4.07	1	39.08	2.88	4.07
Method Group 191.XX PPM			12	154.33	69.41	6.51	12	154.33	69.41	6.51
Acid Soluble Cobalt, AA .....		202.00	2	65.75	66.70	1.50	2	65.75	66.70	1.50
Acid Soluble Cobalt, ICP .....	965.11	202.30	12	81.37	32.43	7.53	11	74.91	24.22	4.49
Acid Soluble Cobalt, Other .....		202.99	1	8.44	0.33	0.46	1	8.44	0.33	0.46
Method Group 202.XX PPM			15	74.43	40.56	6.26	14	68.85	35.38	3.78
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0095	0.0007	0.0006	4	0.0095	0.0007	0.0006
Acid Soluble Copper, ICP .....		221.30	19	0.0097	0.0010	0.0008	18	0.0097	0.0009	0.0007
Acid Soluble Copper, Other .....		221.99	1	0.0100	0.0000	0.0000	1	0.0100	0.0000	0.0000
Method Group 221.XX PCT			24	0.0097	0.0009	0.0007	22	0.0097	0.0008	0.0006
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	9	0.22	0.02	0.00	8	0.22	0.02	0.00
Acid Soluble Iron, ICP .....		241.30	30	0.22	0.02	0.01	28	0.22	0.02	0.01
Acid Soluble Iron, Other .....		241.99	1	0.20	0.00	0.00	1	0.20	0.00	0.00
Method Group 241.XX PCT			40	0.22	0.02	0.01	37	0.22	0.02	0.00
Lead, ICP .....		251.30	7	0.67	0.28	0.04	6	0.70	0.29	0.02
Method Group 251.XX PPM			7	0.67	0.28	0.04	6	0.70	0.29	0.02
Acid Soluble Manganese, AA .....	972.02a	261.00	10	0.111	0.010	0.004	9	0.110	0.009	0.003
Acid Soluble Manganese, ICP .....	972.02a	261.30	29	0.114	0.008	0.008	29	0.114	0.008	0.008
Acid Soluble Manganese, ICP .....	972.02b	261.31	2	0.120	0.005	0.009	2	0.120	0.005	0.009
Acid Soluble Manganese, Other .....		261.99	3	0.109	0.012	0.014	3	0.109	0.012	0.014
Method Group 261.XX PCT			44	0.113	0.009	0.007	43	0.113	0.009	0.007
Mercury, ICP .....		281.30	1	1.80	0.04	0.05	1	1.80	0.04	0.05
Molybdenum, ICP .....		289.30	12	15.82	1.66	0.76	11	15.72	1.66	0.61
Molybdenum, Other .....		289.99	1	18.40	0.28	0.40	1	18.40	0.28	0.40
Method Group 289.XX PPM			13	16.01	1.74	0.74	12	15.95	1.76	0.59
Nickel, Atomic Absorption .....		291.00	1	110.50	0.71	1.00	1	110.50	0.71	1.00
Nickel, ICP .....		291.30	13	81.37	32.59	6.21	12	76.86	29.13	3.64
Nickel, Other .....		291.99	1	11.66	1.15	1.62	1	11.66	1.15	1.62
Method Group 291.XX PPM			15	78.66	36.08	5.55	14	74.60	33.41	3.31
Selenium, ICP .....		301.30	3	0.87	0.69	0.20	3	0.87	0.69	0.20
Selenium, Other .....		301.99	2	0.92	1.00	0.10	2	0.92	1.00	0.10
Method Group 301.XX PPM			5	0.89	0.78	0.16	5	0.89	0.78	0.16
Sodium, Other .....		311.99	7	0.32	0.03	0.01	6	0.31	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	11	0.116	0.008	0.005	11	0.116	0.008	0.005

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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
Acid Soluble Zinc, ICP .....		321.30	33	0.115	0.008	0.004	31	0.115	0.008	0.003
Acid Soluble Zinc, Other .....		321.99	3	0.107	0.010	0.007	3	0.107	0.010	0.007
Method Group 321.XX PCT			47	0.115	0.009	0.004	46	0.115	0.009	0.004
Water Soluble Zinc, ICP .....		325.30	1	0.119	0.003	0.004	1	0.119	0.003	0.004
Water Soluble Zinc, Other .....		325.99	2	0.108	0.005	0.003	2	0.108	0.005	0.003
Method Group 325.XX PCT			3	0.112	0.007	0.003	3	0.112	0.007	0.003

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: 009.10 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Ammon &amp; Nitrate N</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			<u>Devarda</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
470	3.60	1.49	351	3.33	-.42	470	6.86	.61	230	7.11	1.37	406	6.67	-.86
136	3.49	.85	456	3.32	-.45	090	6.85	.60	096	7.10	1.31	402	6.66	-.91
405	3.43	.46	420	3.30	-.56	397	6.85	.60	024	7.09	1.29	262	6.66	-.92
090	3.40	.27	230	3.26	-.87	416	6.81	.57	041	7.08	1.22	428	6.66 X	-.93
232	3.38	.16	027	3.24	-.99	169	6.70 X	.50	354	7.06	1.22	232	6.65	-.96
Avg	3.36		309	3.01	-2.73	471	6.58	.43	296	7.07	1.17	022	6.65	-.99
351	3.33	-.28	368	2.95 s	-3.22	420	6.39	.30	247	7.04	1.03	393	6.63	-1.06
456	3.32	-.30	Meth: 002.20 PCT			Avg	5.93		351	7.02	.92	307	6.63	-1.07
230	3.26	-.63	<u>Nitrate Nitrogen</u>			477	3.46	-1.63	478	6.98 R	.90	426	6.64 R	-1.26
309	3.01	-2.17	<u>Jones Modified</u>			309	2.94	-1.97	292	7.00	.79	102	6.57	-1.40
Meth: 001.99 PCT			230	6.67 S	323.14	Meth: 010.11 PCT			007	6.95	.62	450	6.50	-1.72
<u>Ammoniacal Nitrogen</u>			351	3.24	.71	<u>Total Nitrogen</u>			231	6.94	.54	443	6.50	-1.72
<u>Other</u>			Avg	3.24		<u>Modified Comprehensive</u>			136	6.94	.50	451	6.50	-1.73
096	3.49	1.16	Meth: 002.99 PCT			470	6.74	.88	233	6.86	.47	472	6.45	-1.95
371	3.46	.77	<u>Nitrate Nitrogen</u>			211	6.70	.52	390	6.92	.42	422	6.07 s	-3.90
477	3.44	.64	<u>Other</u>			260	6.67	.19	452	6.92	.41	389	6.05 s	-4.00
169	3.41 X	.23	471	3.79	1.32	Avg	6.65		157	6.91	.34	Meth: 010.99 PCT		
255	3.41	.19	368	3.60	1.14	309	6.50	-1.56	034	6.89	.29	<u>Total Nitrogen</u>		
Avg	3.39		Avg	3.52		474	2.03 S	-47.95	330	6.85	.26	<u>Other</u>		
420	3.30	-1.06	027	3.50	-.11	114	1.22 S	-56.28	073	6.87	.22	030	6.98 S	5.25
027	3.24	-1.71	393	3.50 X	-.17	Meth: 010.12 PCT			131	6.87	.17	420	6.44	.86
368	2.95 s	-5.06	477	3.50	-.54	<u>Total Nitrogen</u>			035	6.86	.15	Avg	6.26	
Meth: 001.XX PCT			232	3.22	-1.45	<u>Salicylic</u>			377	6.84	.05	476	6.08	-.88
<u>Ammoniacal Nitrogen</u>			Meth: 002.XX PCT			254	7.02	.90	Avg	6.84		Meth: 010.XX PCT		
470	3.60	1.68	<u>Nitrate Nitrogen</u>			185	6.96	.47	177	6.83	-.03	<u>Total Nitrogen</u>		
136	3.49	.91	230	6.67 s	15.54	Avg	6.84		360	6.84	-.08	030	6.98 s	3.49
096	3.49	.91	471	3.79	1.61	455	6.55	-1.21	027	6.80	-.20	040	7.20	1.75
371	3.46	.66	368	3.60 R	1.27	Meth: 010.60 PCT			291	6.80	-.25	043	7.21	1.75
477	3.44	.56	477	3.50	.57	<u>Total Nitrogen</u>			234	6.80	-.36	055	7.19	1.65
405	3.43	.43	393	3.50 X	.25	<u>Combustion</u>			255	6.76	-.43	405	7.15	1.49
169	3.41 X	.27	027	3.50	.18	040	7.20	1.90	049	6.79	-.43	230	7.11	1.33
255	3.41	.27	Avg	3.46		043	7.21	1.89	324	6.75	-.52	096	7.10	1.27
090	3.40	.21	351	3.24	-1.06	055	7.19	1.77	325	6.74	-.53	024	7.09	1.25
232	3.38	.10	232	3.22	-1.17	405	7.15	1.58	023	6.73	-.53	041	7.08	1.19
Avg	3.37								368	6.75	-.57	354	7.06	1.18
									028	6.73	-.58			
									042	6.69	-.78			

\* 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: 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>		
296	7.07	1.16	402	6.66	-.55	<u>Spectrometric</u>			<u>ICP</u>			402	4.85	.47
254	7.02 R	1.09	262	6.66	-.56	324	4.93	1.09	330	4.80	.00	090	4.84	.41
247	7.04	1.04	428	6.66 X	-.57	405	4.86	.77	389	4.78	-.16	474	4.80	.29
351	7.02	.95	232	6.65	-.59	232	4.86	.56	478	4.77	-.25	035	4.81	.27
478	6.98 R	.90	022	6.65	-.63	406	4.86	.55	477	4.71	-.40	096	4.80	.26
292	7.00	.85	393	6.63	-.67	474	4.80	.31	426	4.55	-1.18	478	4.77	.26
007	6.95	.69	307	6.63	-.69	177	4.80	.20	451	4.55 R	-1.53	470	4.80	.22
185	6.96	.69	426	6.64 R	-.89	Avg	4.76		307	4.35	-1.96	330	4.80	.22
231	6.94	.62	102	6.57	-.96	450	4.73	-.46	255	4.33	-2.03	177	4.80	.20
136	6.94	.60	455	6.55	-1.03	416	4.66	-.54				456	4.79	.18
390	6.92	.54	450	6.50	-1.22	420	4.60	-.89	Meth: 020.99 PCT			389	4.78	.16
452	6.92	.53	309	6.50	-1.22	309	4.56	-1.08	<u>Total Phosphate</u>			Avg	4.76	
233	6.86	.48	443	6.50	-1.22	169	4.56 X	-1.14	<u>Other</u>			041	4.72	-.20
157	6.91	.47	451	6.50	-1.23	234	4.42	-1.87	443	4.77	1.14	477	4.71	-.23
034	6.89	.43	472	6.45	-1.41	Meth: 020.40 PCT			Avg	4.76		022	4.75	-.25
073	6.87	.34	420	6.44	-1.49	<u>Total Phosphate</u>			477	4.76	-.45	477	4.76	-.32
131	6.87	.33	476	6.08	-2.97	<u>Automated</u>			476	3.63 S	-7.80	450	4.73	-.41
330	6.85	.32	422	6.07	-3.02	035	4.81	.68	322	3.48 S	-8.85	416	4.66	-.47
035	6.86	.30	389	6.05 A	-3.10	096	4.80	.66	455	3.15 S	-11.12	042	4.64	-.67
234	6.80	.25	474	2.03 s	-19.86	456	4.79	.60	Meth: 020.XX PCT			420	4.60	-.79
377	6.84	.20	114	1.22 s	-23.21	Avg	4.66		<u>Total Phosphate</u>			309	4.56	-.96
360	6.84	.19	Meth: 020.10 PCT			042	4.64	-.34	422	5.14	1.87	426	4.55	-1.15
177	6.83	.18	<u>Total Phosphate</u>			247	4.29	-1.77	368	5.08	1.66	451	4.55 R	-1.59
291	6.80	.13	<u>Grav Quimociac</u>			Meth: 020.50 PCT			292	5.05	1.42	234	4.42	-1.69
027	6.80	.05	114	4.87	.92	<u>Total Phosphate</u>			432	4.90 R	1.10	117	4.40	-1.73
Avg	6.79		090	4.84	.67	<u>ICP</u>			157	4.97	1.05	307	4.35	-2.01
255	6.76	-.16	470	4.80	.44	422	5.14	1.44	471	4.97 X	1.05	255	4.33	-2.09
325	6.74	-.24	022	4.75	.33	368	5.08	1.28	324	4.93	1.01	247	4.29	-2.29
470	6.74	-.24	Avg	4.73		432	4.90	.85	452	4.96	1.00	476	3.63 s	-5.54
023	6.73	-.25	041	4.72	-.09	157	4.97	.73	443	4.77 R	.81	322	3.48 s	-6.28
324	6.75	-.27	117	4.40	-1.97	452	4.96	.68	393	4.90	.72	455	3.15 s	-7.89
028	6.73	-.29	Meth: 020.20 PCT			393	4.90	.44	405	4.86	.71	Meth: 030.10 PCT		
049	6.79	-.29	<u>Total Phosphate</u>			390	4.89	.39	390	4.89	.66	<u>Insoluble Phosphate</u>		
368	6.75	-.33	<u>Spectrometric</u>			231	4.86	.23	114	4.87	.63	<u>Grav Quimociac</u>		
211	6.70	-.38	292	5.05	1.55	402	4.85	.23	232	4.86	.52	090	0.06	.00
042	6.69	-.45	471	4.97 X	1.14	Avg	4.80		406	4.86	.52			
406	6.67	-.52							231	4.86	.49			
260	6.67	-.53												

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

## Laboratory Averages &amp; Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 030.20 PCT			Meth: 040.40 PCT			Meth: 041.20 PCT			Meth: 041.60 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>		
<u>Spectrometric</u>			<u>Automated</u>			<u>Spectrometric</u>			<u>EDTA Extract</u>			131	4.67	-.35
474	0.07	-.71	096	4.77	.71	030	4.18 S	.00	Avg	4.70		360	4.70	-.37
Meth: 030.40 PCT			Meth: 040.50 PCT			262	3.80 S	.00	024	4.57	-2.03	291	4.64	-.71
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			Avg	0.00		034	4.19 S	-7.68	354	4.65	-.88
<u>Automated</u>			<u>ICP</u>			Meth: 041.40 PCT			Meth: 041.99 PCT			325	4.60	-1.06
096	0.04	-.71	255	4.31	.71	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			211	4.60	-1.06
Meth: 030.50 PCT			Meth: 040.99 PCT			<u>Automated</u>			<u>Other</u>			024	4.57	-1.41
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			027	5.52 S	5.39	296	4.86	.99	260	4.59	-1.49
<u>ICP</u>			<u>Other</u>			131	4.67	.86	Avg	4.81		007	4.52 R	-2.26
255	0.02	.00	405	4.79	.71	Avg	4.51		049	4.76	-.72	023	4.42	-3.04
Meth: 030.99 PCT			Meth: 040.XX PCT			472	4.35	-.87	230	4.37 S	-5.69	472	4.35 A	-3.67
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			Meth: 041.50 PCT			Meth: 041.XX PCT			230	4.37 s	-4.27
<u>Other</u>			405	4.79	.79	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			034	4.19 s	-5.38
405	0.07	.71	090	4.78	.51	<u>ICP</u>			027	5.52 s	8.44	254	3.84 s	-9.00
Meth: 030.XX PCT			096	4.77	.50	009	4.82	1.62	102	4.89 s	4.12	262	3.80 s	-9.36
<u>Insoluble Phosphate</u>			474	4.73	.34	055	4.75	.95	296	4.86	1.79	030	4.18 s	-10.27
474	0.07	.78	Avg	4.67		368	4.78	.94	055	4.85	1.49	Meth: 048.20 PCT		
405	0.07	.57	255	4.31	-1.80	452	4.77	.85	009	4.82	1.35	<u>Water Soluble Phosph</u>		
090	0.06	.29	Meth: 041.10 PCT			Avg	4.71		368	4.78	.80	<u>Spectrometric</u>		
Avg	0.05		<u>Dir Available Phosph</u>			377	4.68	-.33	055	4.75	.80	474	3.55	.87
096	0.04 R	-1.12	<u>Grav Quimociac</u>			393	4.68	-.35	452	4.77	.73	Avg	3.49	
255	0.02	-1.58	102	4.89 s	5.62	360	4.70	-.47	049	4.76	.66	096	3.43	-.86
Meth: 040.10 PCT			055	4.85	1.78	291	4.64	-.92	397	4.75	.65	Meth: 048.50 PCT		
<u>InDir Available Phos</u>			086	4.76	.60	354	4.65	-1.11	086	4.76	.64	<u>Water Soluble Phosph</u>		
<u>Grav Quim</u>			009	4.73	.43	325	4.60	-1.35	185	4.73	.43	<u>ICP</u>		
090	4.78	-.71	185	4.73	.40	007	4.52 R	-2.83	009	4.73	.42	393	3.42	.71
Meth: 040.20 PCT			Avg	4.72		023	4.42 s	-3.79	351	4.74	.37	Meth: 048.XX PCT		
<u>InDir Available Phos</u>			040	4.70	-.34	Meth: 041.60 PCT			073	4.74	.34	<u>Water Soluble Phosph</u>		
<u>Spectrometri</u>			136	4.71	-.35	<u>Dir Available Phosph</u>			131	4.71	.26	474	3.55	1.25
474	4.73	-.71	131	4.71	-.45	<u>EDTA Extract</u>			043	4.73	.24	Avg	3.46	
Meth: 040.40 PCT			211	4.60	-1.79	397	4.75	.90	136	4.71	.22	096	3.43	-.52
<u>InDir Available Phos</u>			260	4.59 R	-2.33	351	4.74	.49	296	4.71	.13	393	3.42	-.82
<u>Spectrometric</u>			254	3.84 s	-12.88	073	4.74	.46	Avg	4.70				
						043	4.73	.31	040	4.70	-.02			
						296	4.71	.17	377	4.68	-.23			
									393	4.68	-.25			

\* 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: 050.00 PCT			Meth: 050.31 PCT			Meth: 050.60 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>STPB Oxalate</u>			<u>AA (Citrate)</u>			<u>Flame (Oxalate)</u>			<u>Other</u>					
055	21.28	2.58	472	19.70	1.26	443	20.14	.89	255	17.77	-1.40	131	19.85	.39
230	20.40	.95	Avg	18.82		406	20.06	.76	455	17.45	-1.69	262	19.85	.39
470	20.16	.50	030	18.65	-.24	Avg	19.50		042	15.43 S	-3.56	049	19.78	.31
211	19.95	.12	254	18.10	-.93	169	19.36 X	-.21				452	19.76	.30
009	19.89	.09				309	18.46	-1.44	Meth: 050.XX PCT			477	19.73	.29
022	19.90	.03	Meth: 050.50 PCT						<u>Soluble Potash</u>			035	19.66	.26
Avg	19.88		Soluble Potash			Meth: 050.61 PCT			055	21.28	2.16	009	19.74	.26
471	19.88 X	-.18	<u>ICP (Oxalate)</u>			Soluble Potash			402	20.95	1.75	102	19.66	.21
049	19.78	-.21	422	20.56	1.03	<u>Flame (Citrate)</u>			260	20.49 R	1.33	231	19.69	.20
231	19.69	-.36	354	20.41	.94	456	20.29	1.30	422	20.56	1.28	416	19.68	.18
416	19.68	-.37	292	20.44	.86	024	20.00	1.01	360	20.52	1.23	296	19.66	.16
102	19.66	-.47	420	20.18	.51	041	20.14	.70	354	20.41	1.17	136	19.54	.06
090	19.13	-1.40	086	19.83	.45	Avg	19.96		292	20.44	1.12	377	19.57	.04
397	19.10	-1.46	477	19.92	.18	034	19.85	-.43	230	20.40	1.07	291	19.55	.03
114	17.97 s	-3.56	Avg	19.79		131	19.85	-.47	177	20.34	1.04	Avg	19.53	
			055	19.41	-.51	035	19.66	-1.37	234	20.32	.97	325	19.50	-.13
			324	19.10	-.92				456	20.29	.94	055	19.41	-.18
			426	18.26	-2.06	Meth: 050.99 PCT			007	20.24	.87	169	19.36 X	-.22
						Soluble Potash			185	20.20	.83	117	19.35	-.23
						<u>Other</u>			420	20.18	.80	043	19.26	-.34
						402	20.95	1.50	470	20.16	.77	232	19.18	-.45
						260	20.49	1.17	443	20.14	.76	478	19.17	-.46
						360	20.52	1.11	041	20.14	.75	090	19.13	-.51
						177	20.34	.97	131	20.08	.69	432	19.43 R	-.52
						131	20.08	.71	024	20.00	.65	389	19.10	-.54
						368	20.02	.66	406	20.06	.65	397	19.10	-.55
						477	19.73	.41	368	20.02	.62	324	19.10	-.55
						325	19.50	.20	023	19.72 R	.56	330	19.05	-.60
						Avg	19.30		086	19.83	.55	307	19.27 R	-.69
						232	19.18	-.13	472	19.70	.54	351	18.70	-1.03
						330	19.05	-.24	211	19.95	.52	030	18.65	-1.10
						307	19.27	-.45	477	19.92	.48	247	18.60	-1.16
						247	18.60	-.65	022	19.90	.46	309	18.46	-1.33
						390	18.70 R	-.91	471	19.88 X	.45	254	18.44	-1.36
						451	19.18 R	-1.13	009	19.89	.45	390	18.70 R	-1.43
						322	18.04	-1.15	040	19.85	.44	451	19.18 R	-1.58
						476	17.87	-1.32	034	19.85	.40	426	18.26	-1.62
												254	18.10	-1.77

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 050.XX PCT</u>			<u>Meth: 101.00 PCT</u>			<u>Meth: 101.30 PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 121.00 PCT</u>		
<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
393	18.05	-1.84	AA			ICP			102	4.96	.64	AA		
322	18.04	-1.84	177	4.95	1.20	231	4.72	-.29	177	4.95	.59	169	6.65 s	10.04
114	17.97	-1.95	028	4.84	.58	023	4.78	-.33	368	4.83	.57	471	4.66	1.82
476	17.87	-2.08	471	4.83	.44	131	4.69	-.39	324	4.91	.43	177	4.57	1.41
255	17.77	-2.19	Avg	4.78		354	4.70	-.39	477	4.88	.38	028	4.26	.20
455	17.45	-2.58	043	4.75	-.26	035	4.63	-.58	360	4.89	.34	Avg	4.24	
042	15.43 s	-5.12	397	4.74	-.44	307	4.56	-.80	009	4.87	.31	397	4.21	-.17
096	14.96 s	-5.66	296	4.68	-.73	027	4.45	-1.18	433	4.87	.27	262	4.19	-.24
428	1.15 s	-22.76	351	4.65	-.90	474	4.40	-1.33	028	4.84	.27	040	4.19	-.31
			262	4.57	-1.46	255	4.31	-1.63	247	4.87	.25	296	4.15	-.38
			055	4.39 R	-3.07	426	3.99	-2.70	471	4.83	.19	043	3.98	-1.07
						114	3.74 s	-3.54	390	4.82	.14	351	3.92	-1.30
<u>Meth: 060.00 PCT</u>			<u>Meth: 101.30 PCT</u>			<u>Meth: 101.99 PCT</u>			<u>Meth: 101.99 PCT</u>			<u>Meth: 121.30 PCT</u>		
<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
<u>Vacuum Oven</u>			<u>ICP</u>			<u>Other</u>			<u>Avg</u>			<u>ICP</u>		
096	0.43	1.02	230	8.50 s	12.27	230	11.90 S	14.15	090	4.82	.11	330	7.05 s	10.92
416	0.44	.99	422	6.73 s	6.42	117	5.71	1.29	420	4.81	.08	117	4.91 R	2.87
Avg	0.38		073	5.82 s	3.40	Avg	5.12		Avg	4.80		114	4.57	1.51
007	0.33	-.78	232	5.45	2.15	477	4.88	-.52	043	4.75	-.22	307	4.56	1.48
456	0.32	-.94	330	5.30	1.65	472	4.78	-.75	042	4.75	-.28	477	4.51	1.27
			393	5.19	1.29				397	4.74	-.31	009	4.42 R	1.23
			096	5.06	.93	<u>Meth: 101.XX PCT</u>			231	4.72	-.34	232	4.50	1.23
			452	5.05	.86	<u>Acid Soluble Calcium</u>			023	4.78	-.38	422	4.45	1.05
			450	5.00	.74	230	11.90 s	27.27	472	4.78	-.39	452	4.41	.91
			432	4.90 R	.65	230	8.50 s	14.22	131	4.69	-.45	472	4.36	.82
			102	4.96	.55	169	6.76 s	7.50	354	4.70	-.45	102	4.34	.64
			368	4.83 R	.49	422	6.73 s	7.44	296	4.68	-.49	231	4.33	.60
			324	4.91	.37	073	5.82 A	3.94	351	4.65	-.58	368	4.22	.43
			360	4.89	.29	117	5.71 R	3.57	035	4.63	-.67	360	4.28	.39
			009	4.87	.26	232	5.45	2.49	262	4.57	-.90	450	4.25	.35
			433	4.87	.24	330	5.30	1.91	307	4.56	-.92	042	4.25	.35
			247	4.87	.22	393	5.19	1.49	027	4.45	-1.37	390	4.25	.28
			390	4.82	.12	096	5.06	1.08	474	4.40	-1.54	247	4.23	.22
			477	4.83	.10	452	5.05	.99	055	4.39 R	-1.79	096	4.20	.16
			090	4.82	.09	040	5.03	.86	255	4.31	-1.89	433	4.21	.16
			420	4.81	.07	450	5.00	.85	426	3.99	-3.12	324	4.21	.12
			Avg	4.80		432	4.90	.75	114	3.74 s	-4.10	Avg	4.17	
			169	6.76 s	13.52									
			040	5.03	1.68									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 131.99 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>ICP</u>			<u>ICP</u>			<u>Other</u>			<u>Other</u>					
131	4.15	-.12	360	4.28	.30	230	7.75	.71	117	11.65 S	2.95	292	10.36	.80
035	4.13	-.28	042	4.25	.29	450	4.25	.29	360	10.65	1.32	422	10.34	.76
023	4.10	-.36	028	4.26	.29	028	4.26	.29	389	10.50	1.09	055	10.19 R	.67
055	4.08	-.36	477	4.25	.19	477	4.25	.19	232	10.45	1.02	472	10.06 R	.65
420	4.08	-.37	390	4.25	.18	390	4.25	.18	291	10.37	.89	300	10.25	.61
432	4.06	-.45	397	4.21	.14	397	4.21	.14	422	10.34	.84	452	10.24	.59
090	4.01	-.64	247	4.23	.10	247	4.23	.10	300	10.25	.71	043	10.21	.55
027	3.98	-.71	Avg	4.21		Avg	4.21		452	10.24	.69	102	10.21	.54
354	3.98	-.76	324	4.21	-.03	324	4.21	-.03	472	10.06 R	.67	296	10.19	.53
426	3.87	-1.19	433	4.21	-.12	433	4.21	-.12	390	10.03 R	.56	324	10.20	.52
393	3.83	-1.30	262	4.19	-.16	262	4.19	-.16	177	10.14	.54	390	10.03 R	.52
255	3.66	-1.93	096	4.20	-.17	096	4.20	-.17	157	10.10	.48	177	10.14	.42
474	3.35	-3.12	131	4.15	-.27	131	4.15	-.27	330	10.10	.48	040	10.10	.39
Meth: 121.99 PCT			040	4.19	-.29	040	4.19	-.29	027	10.08	.44	157	10.10	.35
<u>Acid Soluble Magnesi</u>			296	4.15	-.30	296	4.15	-.30	426	9.90	.25	330	10.10	.35
<u>Other</u>			035	4.13	-.46	035	4.13	-.46	450	9.89	.16	027	10.08	.32
477	4.25	.71	023	4.10	-.57	023	4.10	-.57	247	9.81	.03	474	9.98	.29
Meth: 121.XX PCT			055	4.08	-.59	055	4.08	-.59	Avg	9.79		426	9.90	.21
<u>Acid Soluble Magnesi</u>			420	4.08	-.61	420	4.08	-.61	023	9.75	-.20	371	9.99	.19
330	7.05 s	12.88	432	4.06	-.70	432	4.06	-.70	477	9.50	-.46	405	9.96	.11
169	6.65 s	11.07	090	4.01	-.93	090	4.01	-.93	368	9.43	-.57	073	9.92	.05
117	4.91 R	3.27	027	3.98	-1.02	027	3.98	-1.02	096	9.25	-.85	Avg	9.90	
471	4.66	2.10	043	3.98	-1.04	043	3.98	-1.04	247	9.81	-.15	450	9.89	-.05
177	4.57	1.66	354	3.98	-1.07	354	3.98	-1.07	023	9.75	-.32	247	9.81	-.15
114	4.57	1.64	351	3.92	-1.29	351	3.92	-1.29	397	9.53	-1.93	023	9.75	-.32
307	4.56	1.60	426	3.87	-1.58	426	3.87	-1.58	230	8.97 s	-3.70	397	9.53	-.63
477	4.51	1.36	393	3.83	-1.73	393	3.83	-1.73	351	8.45 R	-2.11	477	9.50	-.69
009	4.42 R	1.35	255	3.66	-2.48	255	3.66	-2.48	255	8.39	-2.17	368	9.43	-.81
232	4.50	1.30	474	3.35 A	-3.90	474	3.35 A	-3.90	096	9.25	-1.12	096	9.25	-1.12
422	4.45	1.10	Meth: 131.30 PCT			Meth: 144.02 PCT			Meth: 144.XX PCT			Meth: 144.XX PCT		
452	4.41	.93	<u>Water Soluble Magnes</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Sulfur</u>		
472	4.36	.84	<u>ICP</u>			<u>Gravimetric</u>			<u>Gravimetric</u>			<u>Gravimetric</u>		
102	4.34	.60	432	3.10	.71	292	10.36	.71	117	11.65 s	3.10	230	8.97	-1.59
231	4.33	.55	Meth: 144.70 PCT			Meth: 144.70 PCT			Meth: 144.70 PCT			Meth: 144.70 PCT		
368	4.22	.47	<u>Spectrometric</u>			<u>Spectrometric</u>			<u>Spectrometric</u>			<u>Spectrometric</u>		
			474	9.98	.71	474	9.98	.71	114	10.76	1.53	354	8.75	-1.98
									360	10.65	1.29	393	8.45	-2.48
									389	10.50	1.04	351	8.45 R	-2.53
									232	10.45	.95	255	8.39	-2.59
									262	10.44	.93			
									291	10.37	.81			

\* 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>Avg</u>		
136	5.65	-.71	393	0.108 S	15.32	432	0.395 s	67.84	136	5.20	.71	393	4.90	-.14
			397	0.041	1.11	368	0.048	2.07				452	4.88	-.37
Meth: 151.30 PPM			055 0.039 .66			422 0.047 1.75			Meth: 181.30 PPM			368 4.75 -.49		
Arsenic			023 0.039 .59			043 0.047 1.75			Cadmium			232 4.65 -.72		
<u>ICP</u>			471 0.037 X .34			450 0.042 R 1.52			<u>ICP</u>			450 4.65 -.72		
368	4.30 R	4.43	Avg 0.036			433 0.043 1.12			096	5.35 R	1.59	035	4.26	-1.67
450	2.00	1.19	296 0.030 -1.13			360 0.042 .89			390	5.34 R	1.56	230	4.15	-1.91
390	1.88	1.02	169 0.029 X -1.44			397 0.041 .70			474	5.45	1.23	Meth: 190.00 PCT		
230	1.24	.16	Meth: 165.99 PCT			114 0.040 .55			477	5.45	1.23	Water Soluble Chlori		
Avg	1.12		Acid Soluble Boron			231 0.040 .51			009	5.37	1.05	<u>Titrimetric</u>		
393	1.10	-.16	090 0.040 .43			090 0.040 .43			247	5.22	.90	043	3.01	1.15
474	0.50	-.84	<u>Other</u>			055 0.039 .36			102	5.16	.59	055	2.95	.78
477	0.00	-1.51	432 0.395 s 66.24			023 0.039 .25			Avg	4.91		422	2.89	.41
Meth: 151.99 PPM			368 0.048 1.94			426 0.038 .10			393	4.90	-.07	102	2.87	.24
Arsenic			422 0.047 1.62			291 0.038 .10			452	4.88	-.32	Avg 2.83		
<u>Other</u>			043 0.047 1.62			Avg 0.037			368	4.75	-.37	023 2.66 -1.08		
231	1.57	.83	450 0.042 R 1.43			324 0.037 -.12			232	4.65	-.59	477 2.60 -1.47		
Avg	1.46		433 0.043 1.01			471 0.037 X -.20			450	4.65	-.59	Meth: 190.99 PCT		
086	1.36	-.90	360 0.042 .78			232 0.036 -.34			035	4.26	-1.51	Water Soluble Chlori		
Meth: 151.XX PPM			114 0.040 .45			117 0.035 -.43			230	4.15	-1.74	<u>Other</u>		
Arsenic			231 0.040 .41			042 0.036 -.44			Meth: 181.99 PPM			471 2.95 .89		
136	5.65 R	6.84	090 0.040 .33			009 0.035 -.53			Cadmium			Avg 2.91		
368	4.30 R	4.88	Avg 0.038			452 0.033 -.86			<u>Other</u>			300 2.90 -.25		
450	2.00	1.21	291 0.038 -.11			230 0.032 -1.07			231 5.28 .71			009 2.88 -1.28		
390	1.88	1.02	426 0.038 -.11			389 0.032 -1.14			Meth: 181.XX PPM			368 1.90 S -19.74		
231	1.57	.56	324 0.037 -.20			472 0.031 -1.21			Cadmium			Meth: 190.XX PCT		
086	1.36	.25	232 0.036 -.42			296 0.030 -1.30			<u>Cadmium</u>			Water Soluble Chlori		
230	1.24	.05	117 0.035 -.50			354 0.030 -1.39			096			043 3.01 1.12		
Avg	1.20		042 0.036 -.50			169 0.029 X -1.59			390			055 2.95 .71		
393	1.10	-.24	009 0.035 -.60			477 0.004 s -6.35			474			471 2.95 .68		
474	0.50	-1.08	452 0.033 -.92			Meth: 171.99 PCT			477			009 2.88 R .47		
477	0.00	-1.84	230 0.032 -1.14			Water Soluble Boron			096			300 2.90 .31		
			389 0.032 -1.20			<u>Other</u>			390			422 2.89 .30		
			472 0.031 -1.27			432 0.130 .87			474			102 2.87 .10		
			354 0.030 -1.44			Avg 0.083			547					
			477 0.004 s -6.30			027 0.035 -.87			102					

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 190.XX PCT</u>			<u>Meth: 191.XX PPM</u>			<u>Meth: 202.XX PPM</u>			<u>Meth: 221.30 PCT</u>			<u>Meth: 221.XX PCT</u>		
<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
Avg	2.85		393	168.95	.22	450	152.50 R	2.43	ICP			433	0.0096	-.15
023	2.66	-1.36	Avg	154.33		136	123.50	1.55	096	0.0100	.42	300	0.0095	-.15
477	2.60	-1.79	477	42.15	-1.62	009	116.05	1.34	389	0.0100	.37	368	0.0094	-.37
368	1.90 s	-6.79	231	39.08	-1.66	230	98.00	.84	354	0.0100	.37	009	0.0091	-.70
			474	39.00	-1.66	368	98.05	.83	Avg	0.0097		232	0.0096	-.71
						426	91.75	.65	300	0.0095	-.13	296	0.0094	-.75
<u>Meth: 191.30 PPM</u>			<u>Meth: 202.00 PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.99 PCT</u>			<u>Meth: 241.00 PCT</u>		
<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>		
<u>ICP</u>			<u>AA</u>			<u>ICP</u>			<u>Other</u>			<u>Atomic Absorption</u>		
450	385.50 s	3.87	136	123.50	.87	Avg	68.85		009	0.0091	-.62	028	0.25	1.23
009	220.55	.89	Avg	65.75		035	67.45	-.05	232	0.0096	-.64	169	0.24 R	.90
096	217.50	.84	474	8.00	-.87	232	56.75	-.34	035	0.0085	-1.27	296	0.24	.72
368	212.00	.76				393	53.55	-.43	230	0.0094	-1.42	351	0.24	.57
232	189.80	.41				452	47.04	-.62	452	0.0081	-1.67	177	0.23	.49
452	185.20	.34				102	39.83	-.82	393	0.0080	-1.76	043	0.23	.15
035	181.00	.30				231	8.44	-1.71				Avg	0.22	
102	181.68	.27				474	8.00	-1.72	<u>Meth: 221.XX PCT</u>			<u>Acid Soluble Iron</u>		
230	175.00	.16							<u>Acid Soluble Copper</u>			<u>Atomic Absorption</u>		
393	168.95	.09							<u>Other</u>			<u>Atomic Absorption</u>		
Avg	164.80								231 0.0100 .00			028 0.25 1.23		
477	42.15	-1.97							<u>Meth: 221.XX PCT</u>			169 0.24 R .90		
474	39.00	-2.02							<u>Acid Soluble Copper</u>			296 0.24 .72		
									255 0.0260 s 23.25			351 0.24 .57		
									324 0.0190 s 11.04			177 0.23 .49		
									472 0.0105 R 2.03			043 0.23 .15		
									450 0.0109 1.46			Avg 0.22		
									102 0.0100 1.25			040 0.22 -.12		
									402 0.0105 1.15			397 0.20 -1.07		
									422 0.0105 1.15			262 0.18 -1.93		
									247 0.0104 .91			474 0.15 S -3.52		
									477 0.0104 .91			371 0.06 s -7.58		
									043 0.0100 .62			<u>Meth: 241.30 PCT</u>		
									096 0.0100 .46			<u>Acid Soluble Iron</u>		
									231 0.0100 .40			<u>ICP</u>		
									354 0.0100 .40			117 0.26 R 2.21		
									389 0.0100 .40			390 0.26 1.80		
									262 0.0100 .40			432 0.26 1.65		
									Avg 0.0097			009 0.24 1.22		
												324 0.24 1.11		
												055 0.23 R 1.03		
												102 0.24 .87		

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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: 261.00 PCT			Meth: 261.30 PCT				
<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>				
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>AA</u>			<u>ICP</u>				
096	0.24	.79	028	0.25	1.46	474	0.15 s	-3.36	040	0.122	1.36	157	0.112	-.83		
389	0.24	.79	009	0.24	1.26	114	0.12 s	-4.74	028	0.121	1.18	023	0.105	-1.06		
360	0.24	.78	324	0.24	1.15	477	0.11 s	-5.05	043	0.116	.72	426	0.113	-1.28		
247	0.23	.53	169	0.24 X	1.11	371	0.06 s	-7.49	296	0.115	.66	354	0.110	-1.29		
354	0.23	.53	055	0.23 R	1.07	Meth: 251.00 PPM			177	0.111	.22	114	0.109	-1.45		
368	0.23	.41	296	0.24	.95	Lead			Avg	0.110		330	0.100	-1.65		
131	0.22	.27	102	0.24	.90	<u>Atomic Absorption</u>			397	0.105	-.53	307	0.097	-2.18		
023	0.22	.23	096	0.24	.82	136	14.50 S	.00	169	0.100 X	-1.01	432	0.095 s	-3.78		
Avg	0.22		389	0.24	.82	Meth: 251.30 PPM			262	0.100	-1.01	Meth: 261.31 PCT				
157	0.22	-.03	360	0.24	.80	Lead			471	0.097 X	-1.39	<u>Acid Soluble Manganese</u>				
027	0.21	-.16	351	0.24	.79	<u>ICP</u>			Meth: 261.30 PCT			<u>ICP</u>				
422	0.22	-.25	177	0.23	.71	450	1.00	1.05	<u>Acid Soluble Manganese</u>			324			0.122	.73
472	0.21	-.34	247	0.23	.55	393	0.97	.95	<u>ICP</u>			Avg			0.120	
090	0.21	-.41	354	0.23	.55	390	0.85	.53	360	0.127	2.09	230	0.118	-.99		
402	0.21	-.41	368	0.23	.42	390	0.85	.53	090	0.121	1.08	Meth: 261.99 PCT				
232	0.21	-.49	043	0.23	.37	Avg	0.70		055	0.121	1.01	<u>Acid Soluble Manganese</u>				
035	0.21	-.50	131	0.22	.28	452	0.61	-.30	390	0.120	.89	Other				
426	0.20	-.64	023	0.22	.24	230	0.53	-.56	102	0.121	.89	255	0.116	1.44		
433	0.20	-.66	040	0.22	.09	477	0.50 R	-.75	452	0.115	.79	393	0.109	.08		
307	0.20	-.76	Avg	0.22		102	0.21	-1.68	450	0.120	.77	Avg	0.109			
330	0.20	-.79	157	0.22	-.03	Meth: 251.XX PPM			389	0.120	.77	474	0.101	-.65		
452	0.20	-.93	027	0.21	-.17	Lead			035	0.114	.73	Meth: 261.XX PCT				
230	0.18	-1.58	422	0.22	-.27	136	14.50 s	47.47	131	0.117	.63	<u>Acid Soluble Manganese</u>				
300	0.15	-2.99	472	0.21	-.36	450	1.00	1.05	300	0.115	.63	360	0.127	2.01		
114	0.12 s	-4.53	090	0.21	-.44	393	0.97	.95	096	0.116	.61	255	0.116 R	1.88		
477	0.11 s	-4.84	402	0.21	-.44	390	0.85	.53	009	0.116	.37	351	0.124	1.68		
Meth: 241.99 PCT			232	0.21	-.52	Avg	0.70		368	0.116	.33	040	0.122	1.08		
<u>Acid Soluble Iron</u>			035	0.21	-.52	452	0.61	-.30	402	0.114	-.06	090	0.121	1.07		
<u>Other</u>			426	0.20	-.67	230	0.53	-.56	433	0.114	-.18	324	0.122	1.04		
042	0.20	.00	433	0.20	-.69	477	0.50 R	-.75	027	0.111	-.39	055	0.121	1.02		
Meth: 241.XX PCT			307	0.20	-.80	102	0.21	-1.68	422	0.110	-.44	102	0.121	.91		
<u>Acid Soluble Iron</u>			330	0.20	-.83	Meth: 261.00 PCT			117	0.113	-.61	390	0.120	.90		
117	0.26 R	2.31	042	0.20	-.83	Acid Soluble Manganese			472	0.108	-.70	028	0.121	.87		
390	0.26 R	1.88	397	0.20	-.87	<u>AA</u>			232	0.112	-.80	230	0.118	.80		
432	0.26	1.72	452	0.20	-.98	351	0.124 R	1.88								
			230	0.18	-1.65											
			262	0.18	-1.74											
			300	0.15	-3.12											

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.XX PCT			Meth: 281.30 PPM			Meth: 289.XX PPM			Meth: 291.XX PPM			Meth: 301.XX PPM		
<u>Acid Soluble Manganese</u>			<u>Mercury</u>			<u>Molybdenum</u>			<u>Nickel</u>			<u>Selenium</u>		
389	0.120	.80	ICP			232	15.95	.20	450	135.50 R	1.90	086	0.05	-1.08
450	0.120	.80	393	1.80	.71	Avg	15.95		136	110.50	1.07	450	0.00	-1.14
452	0.115	.75	Meth: 289.30 PPM			433	15.28	-.38	009	105.25	.93	Meth: 311.99 PCT		
035	0.114	.69	<u>Molybdenum</u>			102	15.06	-.51	368	98.35	.71	<u>Sodium</u>		
131	0.117	.64	<u>ICP</u>			393	14.57	-.80	247	98.00	.70	<u>Other</u>		
300	0.115	.61	422	25.00 s	6.34	452	14.53	-.80	096	94.50	.60	422	0.37 R	3.51
096	0.116	.61	450	19.00	2.06	035	14.25	-1.08	102	93.30	.56	307	0.34	1.92
117	0.113	.56	247	17.65	1.16	230	13.45	-1.42	232	88.55	.42	009	0.31	.23
009	0.116	.42	390	16.85 R	1.01	474	3.50 s	-7.08	230	81.20	.20	Avg 0.31		
043	0.116	.41	368	16.75	.62	231	3.46 s	-7.10	035	76.85	.16	474	0.31	-.03
296	0.115	.41	009	16.46	.51	Meth: 291.00 PPM			393	77.75	.11	102	0.31	-.21
368	0.116	.39	232	15.95	.25	<u>Nickel</u>			452	75.10	.02	232	0.30	-.83
433	0.114	.18	Avg	15.72		<u>Atomic Absorption</u>			Avg	74.60		035	0.29	-1.01
402	0.114	.09	433	15.28	-.27	136	110.50	.71	477	18.95	-1.67	Meth: 321.00 PCT		
Avg	0.113		102	15.06	-.41	Meth: 291.30 PPM			474	14.50	-1.80	<u>Acid Soluble Zinc</u>		
291	0.113	-.07	393	14.57	-.71	<u>Nickel</u>			231	11.66	-1.88	<u>Atomic Absorption</u>		
177	0.111	-.25	452	14.53	-.72	<u>ICP</u>			Meth: 301.30 PPM			351	0.130	1.82
027	0.111	-.28	035	14.25	-1.02	450	135.50 R	2.11	<u>Selenium</u>			296	0.122	.72
422	0.110	-.33	230	13.45	-1.37	009	105.25	.98	<u>ICP</u>			177	0.121	.62
393	0.109	-.47	474	3.50 s	-7.36	368	98.35	.74	393	1.35	.70	028	0.118	.53
472	0.108	-.57	Meth: 289.99 PPM			247	98.00	.73	477	1.25	.66	371	0.120	.47
232	0.112	-.73	<u>Molybdenum</u>			096	94.50	.61	Avg	0.87		040	0.120	.41
157	0.112	-.75	<u>Other</u>			102	93.30	.56	450	0.00	-1.25	Avg 0.116		
023	0.105	-.90	028	18.40	.71	232	88.55	.41	Meth: 301.99 PPM			397	0.116	-.31
397	0.105	-.95	Avg	18.40		230	81.20	.15	<u>Selenium</u>			043	0.111	-.68
354	0.110	-1.17	231	3.46 S	-52.84	393	77.75	.07	<u>Other</u>			262	0.110	-.73
426	0.113	-1.18	Meth: 289.XX PPM			Avg	76.86		231	1.79	.87	169	0.105 X	-1.46
114	0.109	-1.32	<u>Molybdenum</u>			452	75.10	-.06	Avg	0.92		471	0.106 X	-1.55
474	0.101	-1.37	422	25.00 s	5.88	035	76.85	-.16	086	0.05	-.86	Meth: 321.30 PCT		
330	0.100	-1.46	450	19.00	1.83	477	18.95	-1.99	Meth: 301.XX PPM			<u>Acid Soluble Zinc</u>		
169	0.100 X	-1.46	028	18.40	1.40	474	14.50	-2.14	<u>Selenium</u>			<u>ICP</u>		
262	0.100	-1.46	247	17.65	.97	Meth: 291.99 PPM			231	1.79	1.16	432	0.210 s	11.79
471	0.097 X	-1.86	390	16.85 R	.88	<u>Nickel</u>			393	1.35	.60	300	0.130	1.86
307	0.097	-1.95	368	16.75	.46	<u>Other</u>			477	1.25	.57	360	0.128 R	1.75
432	0.095 s	-3.47	009	16.46	.38	231	11.66	.71	Avg	0.89		102	0.125	1.24

\* 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: 321.30 PCT			Meth: 321.99 PCT			Meth: 321.XX PCT			Meth: 325.XX PCT					
Acid Soluble Zinc			Acid Soluble Zinc			Acid Soluble Zinc			Water Soluble Zinc					
<u>ICP</u>			<u>Other</u>											
090	0.125	1.24	231	0.115	.94	131	0.115	-.18	472	0.112	-.37	157	0.105	-1.06
009	0.123	1.20	474	0.110	.32	452	0.113	-.29	035	0.111	-.47			
390	0.124	1.16	Avg	0.107		117	0.111	-.47	472	0.112	-.49			
230	0.124	1.08	042	0.095	-1.23	472	0.112	-.49	043	0.111	-.52			
426	0.118 R	.86	Meth: 321.XX PCT			262	0.110	-.57	474	0.110	-.57			
368	0.121	.82	<u>Acid Soluble Zinc</u>			474	0.110	-.57	291	0.109	-.75			
023	0.120	.67	432	0.210 s	11.22	291	0.109	-.75	433	0.107	-.98			
354	0.120	.66	351	0.130	1.87	433	0.107	-.98	027	0.106	-1.09			
292	0.120	.66	300	0.130	1.74	157	0.105	-1.21	169	0.105 X	-1.29			
232	0.116	.61	360	0.128	1.63	255	0.104	-1.36	471	0.106 R	-1.39			
055	0.115	.61	090	0.125	1.14	307	0.100	-1.73	307	0.100	-1.73			
422	0.115	.61	102	0.125	1.14	330	0.100	-1.73	114	0.100	-1.73			
402	0.119	.55	009	0.123	1.11	042	0.095	-2.38	042	0.095	-2.38			
247	0.118	.47	390	0.124	1.07	450	0.061 s	-6.24	324	0.070 s	-8.44			
389	0.118	.46	230	0.124	.99	Meth: 325.30 PCT			Water Soluble Zinc					
096	0.116	.13	296	0.122	.81	<u>ICP</u>								
477	0.116	.13	426	0.118	.81	393	0.119	.71						
Avg	0.115		368	0.121	.74	Meth: 325.99 PCT			Water Soluble Zinc					
131	0.115	-.18	177	0.121	.72	<u>Other</u>								
452	0.113	-.26	023	0.120	.59	472	0.112	.95						
035	0.111	-.45	292	0.120	.58	Avg	0.108							
117	0.111	-.45	354	0.120	.58	157	0.105	-.78						
472	0.112	-.48	371	0.120	.58	Meth: 325.XX PCT			Water Soluble Zinc					
291	0.109	-.74	028	0.118	.58	<u>ICP</u>								
433	0.107	-.98	422	0.115	.58	393	0.119	.71						
027	0.106	-1.10	231	0.115	.58	Meth: 325.99 PCT			Water Soluble Zinc					
157	0.105	-1.22	055	0.115	.58	<u>Other</u>								
255	0.104	-1.37	232	0.116	.57	472	0.112	.95						
330	0.100	-1.76	040	0.120	.53	Avg	0.108							
114	0.100	-1.76	402	0.119	.48	157	0.105	-.78						
307	0.100	-1.76	389	0.118	.41	Meth: 325.XX PCT			Water Soluble Zinc					
450	0.061 s	-6.48	247	0.118	.40	<u>ICP</u>								
324	0.070 s	-8.80	397	0.116	.30	393	0.119	1.12						
			096	0.116	.09	Meth: 325.99 PCT			Water Soluble Zinc					
			477	0.116	.09	<u>ICP</u>								
			Avg	0.115		393	0.119	1.12						
						Avg	0.112							

\* 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	9	0.00	1.02	0.13	060.00	4	0.00	0.98	0.39
001.99	8	- 0.63	2.02	0.24	060.XX	5	5.51	12.36	0.72
001.XX	17	- 0.19	1.25	0.16	101.00	11	0.99	4.33	0.50
002.20	2	161.48	228.37	7.68	101.30	33	0.57	2.68	0.26
002.99	6	0.00	0.90	0.50	101.99	4	3.53	7.12	0.40
002.XX	8	2.03	5.53	0.47	101.XX	46	0.81	3.63	1.02
009.10	9	0.00	1.03	0.01	121.00	10	1.00	3.31	0.19
009.XX	9	0.00	1.03	0.01	121.30	34	0.43	2.14	0.22
010.11	6	- 17.37	27.05	0.50	121.XX	44	0.53	2.81	0.27
010.12	3	0.00	1.04	0.33	131.XX	2	0.00	1.14	0.31
010.60	56	- 0.15	1.21	0.23	144.01	13	- 0.27	1.37	0.35
010.99	3	1.17	2.19	2.27	144.99	26	0.06	1.17	0.23
010.XX	68	- 0.65	3.82	0.46	144.XX	41	0.04	1.12	0.23
020.10	6	0.00	1.02	0.22	151.30	7	0.61	1.89	0.41
020.20	14	0.00	0.97	0.29	151.99	2	0.00	1.10	0.38
020.40	5	0.00	1.05	0.16	151.XX	10	1.15	2.64	0.47
020.50	17	- 0.06	0.98	0.37	165.00	7	2.188	5.866	0.176
020.99	5	- 5.55	5.21	0.58	165.99	23	2.641	13.958	0.338
020.XX	46	- 0.43	1.91	0.33	165.XX	30	2.527	12.672	0.312
030.XX	5	- 0.18	1.01	0.33	171.99	2	0.000	1.225	0.000
040.XX	5	0.00	1.01	0.30	171.XX	2	0.000	1.225	0.000
041.10	11	- 1.13	4.10	1.60	181.30	14	0.14	0.98	0.52
041.20	2	0.00	0.00	0.00	181.XX	16	0.11	0.97	0.51
041.40	3	1.80	3.23	0.10	190.00	6	0.00	1.04	0.09
041.50	12	- 0.50	1.45	0.69	190.99	4	- 4.91	9.84	1.16
041.60	7	- 1.09	3.03	0.36	190.XX	10	- 0.66	2.33	0.28
041.99	3	- 1.67	2.96	1.62	191.30	12	0.29	1.41	0.46
041.XX	34	- 0.89	3.13	1.73	191.XX	13	0.26	1.34	0.39
048.20	2	0.00	1.20	0.19	202.00	2	0.00	1.22	0.02
048.XX	3	0.00	1.07	0.27	202.30	12	0.27	1.34	0.28
050.00	14	- 0.25	1.36	0.16	202.XX	15	0.16	1.15	0.17
050.30	10	- 2.76	8.88	0.21	221.00	4	0.0000	0.8729	0.5510
050.31	3	0.00	1.05	0.30	221.30	21	1.3464	4.3475	2.6284
050.50	9	0.00	0.99	0.26	221.XX	26	1.1913	4.3573	2.6219
050.51	11	- 0.68	2.43	0.23	241.00	11	- 0.94	2.61	0.18
050.60	4	0.00	1.08	0.07	241.30	32	- 0.21	1.54	0.29
050.61	6	0.00	0.89	0.50	241.XX	44	- 0.37	1.88	0.27
050.99	19	- 0.22	1.22	0.36	251.30	7	- 0.10	0.99	0.13
050.XX	72	- 0.48	2.96	0.33	251.XX	8	5.85	16.83	0.62



## 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
261.00	10	0.158	1.077	0.364					
261.30	30	- 0.075	0.865	0.834					
261.31	2	0.000	0.460	0.803					
261.99	3	0.000	0.571	0.785					
261.XX	45	- 0.038	0.883	0.726					
289.30	14	- 0.08	2.71	0.87					
289.99	2	- 26.42	37.36	0.66					
289.XX	16	- 0.53	2.98	0.77					
291.30	13	0.15	1.12	0.19					
291.XX	15	0.12	1.09	0.16					
301.30	3	0.00	1.09	0.21					
301.99	2	0.00	1.22	0.07					
301.XX	5	0.00	1.05	0.16					
311.99	7	0.48	1.58	0.40					
311.XX	7	0.48	1.58	0.40					
321.00	11	0.000	0.910	0.450					
321.30	36	0.043	2.594	1.261					
321.99	3	0.000	1.008	0.395					
321.XX	50	- 0.030	2.159	1.049					
325.99	2	0.000	1.089	0.397					
325.XX	2	0.012	1.507	0.214					