

- Pass 1 Results for 84 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	2.81	0.10	0.03	9	2.81	0.10	0.03
Ammoniacal Nitrogen, Other		001.99	10	2.76	0.27	0.04	10	2.76	0.27	0.04
Method Group 001.XX PCT			20	2.75	0.24	0.03	20	2.75	0.24	0.03
Nitrate Nitrogen, Robertson	930.01	002.10	2	3.20	0.01	0.01	2	3.20	0.01	0.01
Nitrate Nitrogen, Jones Modified	930.02	002.20	2	3.10	0.02	0.02	2	3.10	0.02	0.02
Nitrate Nitrogen, Other		002.99	3	3.16	0.06	0.03	3	3.16	0.06	0.03
Method Group 002.XX PCT			7	3.16	0.06	0.02	7	3.16	0.06	0.02
Ammon & Nitrate N, Devarda	892.01	009.10	6	6.14	0.23	0.11	5	6.08	0.16	0.05
Ammon & Nitrate N, Other		009.99	1	6.02	0.08	0.11	1	6.02	0.08	0.11
Method Group 009.XX PCT			7	6.12	0.21	0.11	6	6.07	0.15	0.06
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	5.86	0.22	0.02	6	5.86	0.22	0.02
Total Nitrogen, Salicylic	955.04D	010.12	3	5.76	0.28	0.06	3	5.76	0.28	0.06
Total Nitrogen, Combustion		010.60	59	5.97	0.20	0.06	57	5.97	0.19	0.05
Total Nitrogen, Other		010.99	2	5.99	0.19	0.04	2	5.99	0.19	0.04
Method Group 010.XX PCT			70	5.95	0.21	0.06	68	5.95	0.20	0.05
Total Phosphate, Grav Quimociac	962.02	020.10	4	6.56	0.14	0.03	4	6.56	0.14	0.03
Total Phosphate, Spectrometric	958.01	020.20	16	6.58	0.23	0.07	16	6.58	0.23	0.07
Total Phosphate, Automated	978.01	020.40	6	6.56	0.13	0.04	6	6.56	0.13	0.04
Total Phosphate, ICP		020.50	13	6.65	0.19	0.12	13	6.65	0.19	0.12
Total Phosphate, Other		020.99	3	6.57	0.10	0.00	3	6.57	0.10	0.00
Method Group 020.XX PCT			42	6.60	0.19	0.07	38	6.61	0.16	0.05
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.01	0.00	0.00	1	0.01	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	2	0.06	0.02	0.00	2	0.06	0.02	0.00
Insoluble Phosphate, ICP		030.50	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Insoluble Phosphate, Other		030.99	1	0.04	0.01	0.02	1	0.04	0.01	0.02
Method Group 030.XX PCT			6	0.04	0.02	0.01	5	0.04	0.03	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	1	6.65	0.03	0.04	1	6.65	0.03	0.04
InDir Available Phosphate, Spectrometri	960.02	040.20	1	6.70	0.01	0.02	1	6.70	0.01	0.02
InDir Available Phosphate, Automated	960.02	040.40	3	6.36	0.09	0.04	3	6.36	0.09	0.04
InDir Available Phosphate, ICP		040.50	2	6.36	0.44	0.05	2	6.36	0.44	0.05
InDir Available Phosphate, Other		040.99	1	6.60	0.06	0.08	1	6.60	0.06	0.08
Method Group 040.XX PCT			8	6.47	0.25	0.05	8	6.47	0.25	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	10	6.55	0.06	0.03	10	6.55	0.06	0.03
Dir Available Phosphate, Spectrometric	960.03D	041.20	2	6.32	0.11	0.13	2	6.32	0.11	0.13
Dir Available Phosphate, Automated	978.01	041.40	3	6.52	0.10	0.02	3	6.52	0.10	0.02
Dir Available Phosphate, ICP		041.50	8	6.53	0.11	0.07	7	6.54	0.10	0.05
Dir Available Phosphate, EDTA Extract	993.01	041.60	12	6.50	0.11	0.05	11	6.49	0.10	0.03
Dir Available Phosphate, Other		041.99	1	6.54	0.10	0.14	1	6.54	0.10	0.14

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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
Method Group 041.XX PCT			38	6.52	0.11	0.06	36	6.52	0.11	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	5.39	0.33	0.14	3	5.39	0.33	0.14
Water Soluble Phosphate, Other		048.99	2	4.73	0.81	0.08	2	4.73	0.81	0.08
Method Group 048.XX PCT			5	5.12	0.63	0.12	5	5.12	0.63	0.12
Soluble Potash, STPB Oxalate	958.02	050.00	12	19.34	0.37	0.22	11	19.31	0.32	0.12
Soluble Potash, STPB Citrate	969.04	050.10	3	19.94	0.37	0.28	3	19.94	0.37	0.28
Soluble Potash, AA (Oxalate)		050.30	10	19.17	1.07	0.36	10	19.17	1.07	0.36
Soluble Potash, AA (Citrate)		050.31	1	20.09	0.07	0.10	1	20.09	0.07	0.10
Soluble Potash, ICP (Oxalate)		050.50	10	19.01	0.73	0.23	9	19.01	0.75	0.13
Soluble Potash, ICP (Citrate)		050.51	7	19.62	0.48	0.26	6	19.67	0.45	0.14
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	19.43	0.22	0.13	6	19.43	0.22	0.13
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	12	19.60	0.62	0.26	11	19.58	0.62	0.17
Soluble Potash, Other		050.99	19	19.09	0.73	0.22	18	19.03	0.68	0.18
Method Group 050.XX PCT			80	19.32	0.70	0.24	71	19.36	0.61	0.16
Free Water, Vacuum Oven	965.08B	060.00	5	0.47	0.18	0.06	5	0.47	0.18	0.06
Acid Soluble Calcium, AA	945.04	101.00	10	4.85	0.21	0.14	10	4.85	0.21	0.14
Acid Soluble Calcium, ICP		101.30	27	4.86	0.26	0.12	25	4.86	0.24	0.09
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	5.36	0.01	0.02	1	5.36	0.01	0.02
Acid Soluble Calcium, Other		101.99	3	4.75	0.26	0.06	3	4.75	0.26	0.06
Method Group 101.XX PCT			41	4.86	0.26	0.12	37	4.86	0.24	0.08
Acid Soluble Magnesium, AA	984.01	121.00	10	4.05	0.09	0.07	10	4.05	0.09	0.07
Acid Soluble Magnesium, ICP		121.30	28	3.96	0.22	0.06	26	3.95	0.23	0.05
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	3.89	0.01	0.02	1	3.89	0.01	0.02
Acid Soluble Magnesium, Other		121.99	4	4.06	0.21	0.14	4	4.06	0.21	0.14
Method Group 121.XX PCT			44	3.98	0.20	0.08	41	4.01	0.18	0.06
Water Soluble Magnesium, AA		131.00	2	3.80	0.14	0.15	2	3.80	0.14	0.15
Water Soluble Magnesium, ICP		131.30	2	3.93	0.19	0.04	2	3.93	0.19	0.04
Water Soluble Magnesium, Titrimetric		131.70	1	3.75	0.01	0.02	1	3.75	0.01	0.02
Method Group 131.XX PCT			5	3.84	0.16	0.08	4	3.83	0.16	0.03
Sulfur, Gravimetric	980.02a	144.01	17	11.51	0.34	0.14	16	11.54	0.33	0.10
Sulfur, Gravimetric	980.02b	144.02	1	11.15	0.01	0.01	1	11.15	0.01	0.01
Sulfur, Other		144.99	20	11.05	0.44	0.11	19	11.06	0.45	0.09
Method Group 144.XX PCT			38	11.26	0.45	0.12	36	11.27	0.46	0.09
Arsenic, Atomic Absorption		151.00	1	1.75	0.07	0.10	1	1.75	0.07	0.10
Arsenic, ICP		151.30	5	3.56	3.21	1.04	5	3.56	3.21	1.04
Arsenic, Other		151.99	2	2.09	0.35	0.37	2	2.09	0.35	0.37
Method Group 151.XX PPM			8	2.97	2.61	0.75	8	2.97	2.61	0.75
Acid Soluble Boron, Spectrometric	982.01	165.00	9	0.066	0.007	0.004	8	0.066	0.006	0.002
Acid Soluble Boron, Other		165.99	17	0.067	0.007	0.001	16	0.067	0.007	0.001

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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
Method Group 165.XX PCT			26	0.066	0.007	0.002	24	0.067	0.007	0.001
Water Soluble Boron, Other		171.99	2	0.068	0.003	0.000	2	0.068	0.003	0.000
Cadmium, Atomic Absorption		181.00	1	10.10	0.14	0.20	1	10.10	0.14	0.20
Cadmium, ICP		181.30	13	9.29	0.74	0.37	13	9.29	0.74	0.37
Cadmium, Other		181.99	2	9.64	1.13	0.82	2	9.64	1.13	0.82
Method Group 181.XX PPM			16	9.39	0.79	0.42	16	9.39	0.79	0.42
Water Soluble Chlorine, Titrimetric	928.02	190.00	13	2.59	0.18	0.02	12	2.58	0.18	0.01
Water Soluble Chlorine, Other		190.99	2	2.44	0.14	0.08	2	2.44	0.14	0.08
Method Group 190.XX PCT			15	2.57	0.18	0.03	13	2.56	0.19	0.02
Chromium, ICP		191.30	14	94.49	26.44	3.91	14	94.49	26.44	3.91
Chromium, Other		191.99	2	68.66	34.77	2.36	2	68.66	34.77	2.36
Method Group 191.XX PPM			16	91.26	28.30	3.72	16	91.26	28.30	3.72
Acid Soluble Cobalt, AA		202.00	1	41.50	0.71	1.00	1	41.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	11	17.63	11.55	1.59	11	17.63	11.55	1.59
Acid Soluble Cobalt, Other		202.99	2	15.02	11.58	0.22	2	15.02	11.58	0.22
Method Group 202.XX PPM			14	18.97	12.65	1.35	12	18.59	13.34	0.80
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	0.020	0.001	0.002	1	0.020	0.001	0.002
Acid Soluble Copper, ICP		221.30	18	0.020	0.003	0.002	16	0.020	0.002	0.001
Acid Soluble Copper, Other		221.99	2	0.021	0.001	0.001	2	0.021	0.001	0.001
Method Group 221.XX PCT			21	0.020	0.003	0.002	19	0.020	0.002	0.001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	11	0.33	0.02	0.01	10	0.33	0.02	0.01
Acid Soluble Iron, ICP		241.30	36	0.33	0.04	0.02	33	0.33	0.03	0.01
Acid Soluble Iron, Other		241.99	2	0.32	0.05	0.00	2	0.32	0.05	0.00
Method Group 241.XX PCT			49	0.33	0.03	0.01	44	0.33	0.03	0.01
Lead, ICP		251.30	9	1.40	0.97	0.24	8	1.26	0.93	0.15
Lead, Other		251.99	2	2.09	0.22	0.05	2	2.09	0.22	0.05
Method Group 251.XX PPM			11	1.53	0.92	0.21	10	1.43	0.89	0.13
Acid Soluble Manganese, AA	972.02a	261.00	8	0.170	0.011	0.008	8	0.170	0.011	0.008
Acid Soluble Manganese, AA	972.02b	261.11	1	0.175	0.006	0.009	1	0.175	0.006	0.009
Acid Soluble Manganese, ICP		261.30	28	0.167	0.018	0.008	27	0.166	0.017	0.007
Acid Soluble Manganese, ICP		261.31	3	0.168	0.011	0.006	3	0.168	0.011	0.006
Acid Soluble Manganese, Other		261.99	4	0.170	0.023	0.007	4	0.170	0.023	0.007
Method Group 261.XX PCT			44	0.168	0.017	0.008	42	0.167	0.016	0.007
Mercury, ICP		281.30	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Mercury, Other		281.99	1	0.11	0.03	0.04	1	0.11	0.03	0.04
Method Group 281.XX PPM			2	0.06	0.06	0.02	2	0.06	0.06	0.02
Molybdenum, ICP		289.30	12	8.48	0.88	0.68	11	8.48	0.79	0.47
Molybdenum, Other		289.99	2	6.15	1.86	0.80	2	6.15	1.86	0.80
Method Group 289.XX PPM			14	8.15	1.32	0.70	12	8.41	0.79	0.45

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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
Nickel, Atomic Absorption		291.00	1	54.00	2.83	4.00	1	54.00	2.83	4.00
Nickel, ICP		291.30	10	45.99	7.41	2.59	8	44.51	7.16	1.09
Nickel, Other		291.99	2	29.62	21.52	0.86	2	29.62	21.52	0.86
Method Group 291.XX PPM			14	41.78	14.25	2.26	12	40.09	14.60	1.20
Selenium, ICP		301.30	6	1.75	1.80	0.70	6	1.75	1.80	0.70
Selenium, Other		301.99	2	0.97	0.09	0.05	2	0.97	0.09	0.05
Method Group 301.XX PPM			8	1.55	1.58	0.54	7	1.63	1.64	0.33
Sodium, Flame Photometric	974.01	311.30	2	1.42	0.28	0.21	2	1.42	0.28	0.21
Sodium, Other		311.99	5	1.61	0.12	0.03	5	1.61	0.12	0.03
Method Group 311.XX PCT			7	1.56	0.19	0.08	6	1.61	0.10	0.03
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	10	0.251	0.025	0.004	10	0.251	0.025	0.004
Acid Soluble Zinc, ICP		321.30	33	0.234	0.022	0.005	31	0.233	0.022	0.004
Acid Soluble Zinc, Other		321.99	4	0.256	0.005	0.007	4	0.256	0.005	0.007
Method Group 321.XX PCT			47	0.239	0.023	0.005	44	0.238	0.021	0.004
Water Soluble Zinc, Atomic Absorption		325.00	1	0.097	0.003	0.004	1	0.097	0.003	0.004
Water Soluble Zinc, ICP		325.30	1	0.250	0.001	0.002	1	0.250	0.001	0.002
Method Group 325.XX PCT			2	0.173	0.088	0.003	2	0.173	0.088	0.003

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 001.10 PCT														
Ammoniacal Nitrogen														
MgO Distillation			420	2.89	.58	Meth: 001.99 PCT								
090	2.93	1.20	371	2.89	.56	Nitrate Nitrogen								
454	2.90	.98	096	2.85	.43	Other			027	3.13	-.53			
444	2.90	.92	397	2.85	.41	027	3.13	-.84	393	3.12	-.84			
029	2.83	.25	029	2.83	.33	368	2.63 S	-10.91	420	6.10	.36			
Avg	2.81		372	2.82	.29	Avg	6.07		Avg	6.07				
291	2.80	-.06	456	2.81	.27	Meth: 002.99 PCT								
232	2.79	-.19	291	2.80	.21	Nitrate Nitrogen								
456	2.81	-.35	232	2.79	.17	Other			232	3.24	1.50			
351	2.71	-.92	Avg	2.75		372	3.21	.97	372	3.21	.97			
309	2.60	-2.04	027	2.73	-.08	291	3.19	.60	291	3.19	.60			
230	2.15 S	-6.54	351	2.71	-.15	Avg	3.16		Avg	3.16				
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
Other			309	2.60	-.62	027	3.13	-.46	Meth: 010.11 PCT					
137	6.19 S	12.87	368	2.45	-1.26	351	3.11	-.82	Total Nitrogen					
409	3.09	1.24	230	2.15	-2.48	393	3.12	-.83	Modified Comprehensive					
393	2.90	.52	234	2.14	-2.53	029	3.09	-1.18	105	6.01	.71			
420	2.89	.50	255	0.24 S	-10.28	368	2.63 S	-12.01	073	5.94	.38			
371	2.89	.48	Meth: 002.10 PCT						309	5.94	.37	029	6.06	
096	2.85	.36	Nitrate Nitrogen						029	5.94	.36	007	6.05	
397	2.85	.34	Robertson			230	2.39 S	-13.94	322	5.93	.32	106	6.06	
372	2.82	.23	372	3.21	1.00	Meth: 009.10 PCT						291	6.05	
Avg	2.76		Avg	3.20		Ammon & Nitrate N						040	6.04	
027	2.73	-.11	291	3.19	-.71	Devarda						136	6.03	
368	2.45	-1.19	Meth: 002.20 PCT			030	6.46 R	2.75	Meth: 010.12 PCT			409	6.03	
234	2.14	-2.34	Nitrate Nitrogen			200	6.32	1.51	Total Nitrogen			372	6.03	
255	0.24 S	-9.43	Jones Modified			090	6.12	.31	Salicylic			377	6.02	
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
137	6.19 S	14.12	351	3.11	.94	420	6.10	.30	397	5.97	.73	037	6.01	
409	3.09	1.40	Avg	3.10		Avg	6.08		185	5.92	.58	389	5.99	
090	2.93	.73	029	3.09	-.78	291	5.95	-.87	Avg	5.76		131	6.01	
454	2.90	.62	230	2.39 S	-38.80	416	5.90	-1.13	254	5.59 S	-1.20	027	6.00	
444	2.90	.62	Meth: 002.99 PCT						444	3.21 S	-18.03	024	5.98	
393	2.90	.61	Nitrate Nitrogen						Avg	5.41	-1.27	Avg	5.97	
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
137	6.19 S	14.12	393	6.02	-.71	Meth: 010.60 PCT						117	5.95	
409	3.09	1.40	Meth: 002.99 PCT						Total Nitrogen			325	5.94	
090	2.93	.73	Other			Combustion						102	5.94	
454	2.90	.62	393	6.02	-.71	442	21.49 S	80.14	Meth: 010.60 PCT			023	5.94	
444	2.90	.62	Nitrate Nitrogen						351	6.42	2.34	Total Nitrogen		
393	2.90	.61	Other			043	6.30	1.72	Combustion			420	5.93	
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
137	6.19 S	14.12	232	3.24	1.23	096	6.27	1.54	Meth: 010.60 PCT			086	5.92	
409	3.09	1.40	Avg	3.16		402	6.26	1.51	Total Nitrogen			406	5.92	
090	2.93	.73	Meth: 002.99 PCT						Combustion			102	5.94	
454	2.90	.62	393	6.02	-.71	442	21.49 S	80.14	Meth: 010.60 PCT			023	5.94	
444	2.90	.62	Nitrate Nitrogen						351	6.42	2.34	Total Nitrogen		
393	2.90	.61	Other			043	6.30	1.72	Combustion			420	5.93	
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
137	6.19 S	14.12	232	3.24	1.23	096	6.27	1.54	Meth: 010.60 PCT			086	5.92	
409	3.09	1.40	Avg	3.16		402	6.26	1.51	Total Nitrogen			406	5.92	
090	2.93	.73	Meth: 002.99 PCT						Combustion			102	5.94	
454	2.90	.62	393	6.02	-.71	442	21.49 S	80.14	Meth: 010.60 PCT			023	5.94	
444	2.90	.62	Nitrate Nitrogen						351	6.42	2.34	Total Nitrogen		
393	2.90	.61	Other			043	6.30	1.72	Combustion			420	5.93	
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
137	6.19 S	14.12	232	3.24	1.23	096	6.27	1.54	Meth: 010.60 PCT			086	5.92	
409	3.09	1.40	Avg	3.16		402	6.26	1.51	Total Nitrogen			406	5.92	
090	2.93	.73	Meth: 002.99 PCT						Combustion			102	5.94	
454	2.90	.62	393	6.02	-.71	442	21.49 S	80.14	Meth: 010.60 PCT			023	5.94	
444	2.90	.62	Nitrate Nitrogen						351	6.42	2.34	Total Nitrogen		
393	2.90	.61	Other			043	6.30	1.72	Combustion			420	5.93	

* 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: 010.60 PCT																
Total Nitrogen																
Combustion	5.92	- .28	422	6.21	1.27	Meth: 010.XX PCT									Total Phosphate	
292	5.91	- .32	330	6.15 R	1.23	Total Nitrogen	354	5.92	- .13	Meth: 020.10 PCT					ICP	
233	5.91	- .33	073	6.18	1.13	086	086	5.92	- .13	Total Phosphate					393 7.47 s 4.37	
451	5.89	- .45	105	6.16	1.03	420	420	5.93	- .14	Grav Quimociac					444 6.93 1.65	
028	5.88	- .47	262	6.14	1.02	073	073	5.94	- .14	Meth: 020.20 PCT					389 6.85 1.09	
324	5.87	- .55	444	6.14	.96	292	292	5.92	- .17	Total Phosphate					426 6.81 .82	
307	5.82	- .80	095	6.11	.77	406	406	5.92	- .18	Spectrometric					368 6.80 .81	
035	5.82	- .81	055	6.10	.74	233	233	5.91	- .21	428 6.94 1.57					255 6.76 .60	
369	5.80	- .91	041	6.09	.71	451	451	5.91	- .22	450 6.84 1.10					422 6.70 .24	
450	5.76	- 1.08	247	6.07	.60	185	185	5.92	- .32	292 6.83 1.06					Avg 6.65	
421	5.75	- 1.16	057	6.06	.60	028	028	5.89	- .34	232 6.77 .84					330 6.60 -.28	
042	5.74	- 1.20	177	6.07	.59	324	324	5.88	- .36	232 6.77 .84					390 6.63 -.28	
443	5.73	- 1.21	232	6.07	.59	307	307	5.87	- .43	309 6.75 .70					451 6.59 -.38	
426	5.82 R	- 1.25	025	6.06	.56	255	255	5.83	- .62	372 6.73 .66					402 6.54 -.60	
453	5.69	- 1.51	029	6.05	.55	035	035	5.82	- .67	406 6.72 .60					453 6.54 -1.17	
368	5.61	- 1.86	007	6.06	.55	369	369	5.82	- .69	231 6.60 .44					421 6.40 -1.55	
428	5.51	- 2.37	106	6.06	.54	450	450	5.80	- .77	Avg 6.58					432 6.37 -1.55	
425	5.51	- 2.39	291	6.05	.47	421	421	5.76	- .94	371 6.52 -.32					Meth: 020.99 PCT	
360	5.48	- 2.52	040	6.03	.42	042	042	5.75	- 1.01	234 6.47 -.52					Total Phosphate	
234	4.63 s	- 6.93	136	6.03	.40	443	443	5.74	- 1.05	369 6.48 -.52					Other	
230	6.16	.86	409	6.03	.40	426	426	5.73	- 1.06	042 6.45 -.63					443 7.99 s 16.33	
Meth: 010.99 PCT			372	6.03	.40	453	453	5.82 R	- 1.13	324 6.41 -.77					137 6.69 1.18	
Total Nitrogen	5.99	- .87	377	6.02	.36	368	368	5.69	- 1.35	425 6.40 -.80					Avg 6.57	
Other	6.16	.86	037	6.01	.33	428	428	5.61	- 1.68	200 6.40 -.82					416 6.56 -.14	
105	5.99		105	6.01	.29	425	425	5.51	- 2.16	262 6.05 -2.36					322 6.46 -1.04	
Avg	5.83	- .87	131	6.01	.28	360	360	5.51	- 2.18	420 4.51 s -9.13					455 4.76 S -17.65	
255	2.38 S	- 18.67	389	5.99	.28	254	254	5.59 s	- 2.27	442 3.27 s -14.55					Meth: 020.XX PCT	
454	6.16	.86	027	6.00	.22	234	234	5.48	- 2.30	Meth: 020.40 PCT					Total Phosphate	
Meth: 010.XX PCT			397	5.97	.14	455	455	5.41	- 2.67	Total Phosphate					443 7.99 s 10.30	
Total Nitrogen	5.95	- .02	024	5.98	.13	211	211	5.40	- 2.72	Automated					393 7.47 s 5.40	
442	21.49 s	76.10	Avg	5.95	- .02	454	454	2.38 s	- 17.49	105 6.69 1.00					444 6.93 R 2.17	
351	6.42	2.31	117	5.95	- .05	Meth: 020.10 PCT				456 6.66 .81					428 6.94 2.09	
043	6.30	1.72	325	5.94	- .08	Total Phosphate				247 6.64 .69					389 6.85 1.53	
096	6.27	1.55	102	5.94	- .08	Grav Quimociac				Avg 6.56					450 6.84 1.42	
402	6.26	1.52	029	5.94	- .10	090	090	6.66	.74	035 6.53 -.21					292 6.83 1.35	
390	6.21	1.28	309	5.94	- .11	041	041	6.63	.48	409 6.48 -.61					426 6.81 1.22	
			023	5.94	- .12	105	105	6.62	.41	096 6.34 -1.72					368 6.80 1.21	

* 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
Meth: 020.XX PCT											
<u>Total Phosphate</u>											
232	6.77	1.05	Meth: 040.10 PCT								
255	6.76	.95	InDir Available Phos								
309	6.75	.84	Grav Quim								
372	6.73	.79	090 6.65 - .71								
406	6.72	.70	Meth: 040.20 PCT								
422	6.70	.54	InDir Available Phos								
137	6.69	.50	Spectrometri								
105	6.69	.47	372 6.70 .71								
090	6.66	.33	Meth: 040.40 PCT								
456	6.66	.31	InDir Available Phos								
390	6.63	.30	Automated								
247	6.64	.26	409 6.45 1.02								
041	6.63	.13	027 6.38 .22								
105	6.62	.10	Avg 6.36								
Avg	6.61		096 6.26 -1.19								
330	6.60	-.07	Meth: 040.50 PCT								
451	6.59	-.23	InDir Available Phos								
416	6.56	-.35	ICP								
402	6.54	-.45	255 6.74 .87								
035	6.53	-.51	Avg 6.36								
371	6.52	-.62	354 5.98 -.86								
231	6.60	-.63	Meth: 040.99 PCT								
409	6.48	-.82	InDir Available Phos								
369	6.48	-.90	Other								
234	6.47	-.90	247 6.60 .71								
322	6.46	-.93	Meth: 040.XX PCT								
042	6.45	-1.06	InDir Available Phos								
453	6.54 R	-1.26	Automated								
324	6.41	-1.26	029 6.62 .95								
425	6.40	-1.30	095 6.56 .30								
200	6.40	-1.34	Avg 6.52								
432	6.37	-1.57	131 6.40 -1.23								
421	6.40 R	-1.60	025 5.77 S -7.45								
444	6.35	-1.67	Meth: 041.40 PCT								
096	6.34	-1.74	Dir Available Phosph								
262	6.05 A	-3.53	Automated								
455	4.76 s	-11.63	029 6.62 .95								
420	4.51 s	-13.23	095 6.56 .30								
			Avg 6.52								
			131 6.40 -1.23								
			025 5.77 S -7.45								
			Meth: 041.99 PCT								
			Dir Available Phosph								
			Other								
			105 6.54 .71								
			Avg 6.54								
			230 6.47 S -4.00								

* 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: 041.XX PCT																		
<u>Dir Available Phosph</u>																		
007	6.88 s	3.29	106	6.29	-2.16	Meth: 041.XX PCT												
185	6.68	1.58	231	6.25	-2.54	<u>Soluble Potash</u>												
360	6.69	1.54	230	6.47 s	-3.63	STPB Oxalate												
028	6.65	1.52	025	5.77 s	-6.98	029	19.34	.13	Meth: 050.00 PCT									
254	6.66	1.32	Meth: 048.20 PCT			055	19.30	-.22	<u>Soluble Potash</u>									
029	6.62	.94	Water Soluble Phosph	372	19.14	-5.56	231	19.17	-.46	ICP (Oxalate)								
105	6.61	.88	<u>Spectrometric</u>	043	19.06	-.80	324	19.30	.39	Avg 19.01								
057	6.61	.81	372	5.75	1.09	102	18.60	-2.25	451	19.12	.15	Avg 19.58						
296	6.59	.78	Avg	5.39		444	18.61	-.59	Meth: 050.50 PCT									
105	6.54	.67	393	5.38	-.32	Meth: 050.10 PCT												
105	6.59	.65	096	5.04	-1.10	<u>Soluble Potash</u>												
454	6.59	.65	Meth: 048.99 PCT			444	20.32	1.25	STPB Citrate									
291	6.59	.61	Water Soluble Phosph	117	19.89	-.40	Avg 19.94											
397	6.57	.52	<u>Other</u>	420	4.03	-.87	136 19.62											
325	6.53	.47	247	5.43	.86	Meth: 050.30 PCT												
296	6.57	.43	Avg	4.73		<u>Soluble Potash</u>												
055	6.55	.39	420	4.03	-.87	AA (Oxalate)												
029	6.56	.37	Meth: 048.XX PCT			369	20.63	1.37	Meth: 050.60 PCT									
095	6.56	.32	Water Soluble Phosph	234	20.01	.82	007 20.10											
177	6.55	.31	<u>Other</u>	262	19.86	.82	023 19.74											
177	6.53	.30	372	5.75	.99	Avg 19.67												
211	6.54	.14	247	5.43	.49	291 19.42												
Avg	6.52		393	5.38	.43	377 19.25												
233	6.52	-.03	Avg	5.12		043 19.18												
040	6.51	-.10	096	5.04	-.21	453 19.33 R												
377	6.51	-.14	420	4.03	-1.74	393 16.14 s												
043	6.52	-.24	Meth: 050.00 PCT			428	19.41 X	.29	Meth: 050.99 PCT									
073	6.49	-.33	<u>Soluble Potash</u>	450	19.06	-.41	042 20.30 R											
351	6.44	-.76	STPB Oxalate	073	18.24	-.88	177 19.97											
024	6.43	-.89	230	19.65 R	2.28	360 19.90												
131	6.43	-.89	090	19.76	1.39	232 19.80												
057	6.40	-1.12	057	19.60	1.04	432 19.55												
131	6.40	-1.12	233	19.61	.93	325 19.42												
055	6.39	-1.42	211	19.46	.45	105 19.36												
023	6.35	-1.64	416	19.41	.30	421 19.25												
Meth: 050.61 PCT																		
<u>Soluble Potash</u>																		
Flame (Citrate)																		
028	20.68	1.80	Meth: 050.51 PCT															
095	19.81 R	1.03	<u>Soluble Potash</u>															
057	20.03	.95	ICP (Citrate)															
041	19.91	.52	354	20.54	2.05	Other												
456	19.79	.33	292	19.77	1.02	042 20.30 R												
Avg 19.58			Avg 19.01			Avg 19.43			Avg 19.03			Avg 19.28						
024	19.55	-.06	420	18.77	-.34	406 19.73			368 19.02			397 19.28						
029	19.54	-.07	444	18.61	-.59	105 19.62			131 18.99			247 19.05						
131	19.53	-.10	426	18.50	-.69	443 19.46			137 18.95			402 19.04						
105	19.54	-.11	422	18.28	-.97	Avg 19.43			255 18.53			247 19.05						
035	19.57	-.15	390	18.20	-1.09	055 19.33			330 18.50			402 19.04						
025	19.16	-.68	Meth: 050.31 PCT			Meth: 050.10 PCT			Meth: 050.60 PCT			Meth: 050.99 PCT						
030	18.14	-2.34	<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Flame (Oxalate)</u>			<u>Soluble Potash</u>						
ICP (Citrate)																		
389	20.30	1.41	Meth: 050.31 PCT															
007	20.10	1.02	<u>Soluble Potash</u>															
023	19.74	.28	AA (Citrate)															
Avg	19.67		254 20.09															
291	19.42	-.55	20.09															
377	19.25	-.95	.71															
043	19.18	-1.09																
453	19.33 R	-1.37																
393	16.14 s	-7.86																
421	19.25	.50																
397	19.28	.38																
247	19.05	.30																
402	19.04	.08																
Avg	19.03																	
368	19.02	-.02																
131	18.99	-.10																
137	18.95	-.11																
255	18.53	-.79																
330	18.50	-.83																
322	18.41	-.91																
027	18.31	-1.06																
455	17.17	-2.75																

* 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.XX PCT																	
<u>Soluble Potash</u>																	
028	20.68	2.20	211	19.46	.16	Meth: 050.XX PCT									Meth: 101.99 PCT		
369	20.63	2.10	325	19.42	.14	<u>Soluble Potash</u>									Acid Soluble Calcium		
354	20.54	1.94	291	19.42	.11	390	18.20	-1.91	422	5.49	2.65	028	5.02	1.02			
042	20.30 R	1.75	416	19.41	.08	030	18.14	-2.01	432	5.26 R	2.10	409	4.80	.22			
444	20.32	1.63	Avg	19.36		185	18.00	-2.23	453	4.92	.80	Avg	4.75				
389	20.30	1.55	029	19.34	-.07	455	17.17 A	-3.61	450	5.01	.77	042	4.44	-1.19			
057	20.03	1.27	055	19.33	-.08	425	17.16 A	-3.61	368	4.88	.75	Meth: 101.XX PCT					
007	20.10	1.24	324	19.30	-.09	393	16.14 s	-5.28	324	5.03	.71	<u>Acid Soluble Calcium</u>					
095	19.81 R	1.23	200	19.31	-.14	442	14.86 s	-7.39	421	4.93	.69	393	7.58 s	11.43			
262	19.86 R	1.22	055	19.30	-.15	Meth: 060.00 PCT									073	5.91 s	4.45
254	20.09	1.21	397	19.28	-.17	<u>Free Water</u>									422	5.49	2.63
230	19.65 R	1.17	377	19.25	-.24	<u>Vacuum Oven</u>									372	5.36	2.09
234	20.01	1.17	043	19.18	-.30	096	0.77	1.76	389	5.00	.58	432	5.26 R	2.09			
177	19.97	1.02	231	19.17	-.32	105	0.50	.19	106	4.98	.57	105	5.07 R	1.18			
041	19.91	.90	025	19.16	-.32	Avg	0.47		247	4.99	.55	397	5.10	.97			
117	19.89	.90	309	19.16	-.33	247	0.41	-.36	360	4.94	.31	453	4.92	.79			
360	19.90	.88	372	19.14	-.37	007	0.36	-.65	420	4.93	.27	450	5.01	.77			
351	19.80	.74	451	19.12	-.40	416	0.31	-.89	131	4.89	.15	368	4.88	.75			
232	19.80	.73	421	19.25	-.45	Meth: 101.00 PCT									324	5.03	.70
456	19.79	.70	043	19.06	-.50	<u>Acid Soluble Calcium</u>									421	4.93	.69
292	19.77	.69	402	19.04	-.53	AA									454	5.00	.68
090	19.76	.66	368	19.02	-.55	105	5.07	1.41	330	4.75	-.52	028	5.02	.66			
023	19.74	.65	247	19.05	-.60	397	5.10	1.19	057	4.73	-.55	354	4.99	.62			
406	19.73	.61	131	18.99	-.62	371	4.98	.68	027	4.66	-.85	390	5.00	.60			
105	19.62	.50	137	18.95	-.67	177	4.93	.39	023	4.63	-.97	389	5.00	.57			
057	19.60	.49	453	19.33 R	-.85	351	4.91	.28	291	4.61	-1.06	106	4.98	.56			
136	19.62	.43	450	19.06 R	-.86	Avg	4.85		307	4.54 R	-1.60	247	4.99	.54			
233	19.61	.42	420	18.77	-.98	296	4.80	-.26	433	4.43	-1.80	371	4.98	.53			
040	19.59	.39	454	19.02 R	-1.12	029	4.85	-.51	065	4.30	-2.37	360	4.94	.30			
035	19.57	.38	102	18.60	-1.26	055	4.71	-.74	102	4.08 s	-3.31	177	4.93	.28			
428	19.41 X	.35	444	18.61	-1.27	043	4.54	-1.50	Meth: 101.70 PCT								
432	19.55	.31	255	18.53	-1.40	262	4.62	-1.51	351	4.91	.18	420	4.93	.26			
024	19.55	.31	426	18.50	-1.42	Meth: 101.30 PCT									351	4.91	.18
105	19.54	.30	330	18.50	-1.44	<u>Acid Soluble Calcium</u>									131	4.89	.14
029	19.54	.30	322	18.41	-1.56	Titrimetric									Avg	4.86	
105	19.36	.28	027	18.31	-1.73	372	5.36	.71	232	4.85	-.08	232	4.85	-.08			
131	19.53	.28	422	18.28	-1.77	<u>Acid Soluble Calcium</u>									095	4.84	-.12
443	19.46	.20	073	18.24	-1.84	393	7.58 s	11.45	ICP						296	4.80	-.28
						073	5.91 s	4.46							409	4.80	-.30

* 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	
Meth: 101.XX PCT												
<u>Acid Soluble Calcium</u>												
255	4.78	-0.34										
029	4.85	-0.45										
330	4.75	-0.52										
057	4.73	-0.56										
055	4.71	-0.70										
027	4.66	-0.86										
023	4.63	-0.98										
291	4.61	-1.07										
262	4.62	-1.35										
043	4.54	-1.37										
307	4.54	-1.61										
042	4.44	-1.79										
433	4.43	-1.81										
065	4.30	-2.37										
102	4.08	-3.31										
Meth: 121.00 PCT												
<u>Acid Soluble Magnesi</u>												
AA												
177	4.20	1.65										
029	4.13	1.15										
296	4.10	.95										
371	4.10	.63										
055	4.07	.59										
Avg	4.05											
397	4.01	-0.52										
262	4.02	-0.71										
351	3.97	-0.89										
043	3.95	-1.06										
309	3.95	-1.06										
105	3.75	-3.78										
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
ICP												
330	6.55	s 11.41										
291	4.94	s 4.32										
422	4.37	1.84										
Meth: 121.70 PCT												
<u>Acid Soluble Magnesi</u>												
ICP												
372	3.89	.71										
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
ICP												
330	6.55	s 11.41										
291	4.94	s 4.32										
422	4.37	1.84										
Meth: 121.99 PCT												
<u>Acid Soluble Magnesi</u>												
Other												
042	4.30	1.20										
028	4.15	.42										
Avg	4.06											
137	3.91	-0.69										
234	3.88	-1.19										
Meth: 121.XX PCT												
<u>Acid Soluble Magnesi</u>												
330	6.55	s 14.14										
291	4.94	s 5.16										
422	4.37	2.03										
042	4.30	1.67										
177	4.20	1.09										
368	4.19	1.00										
354	4.18	.96										
390	4.17	.92										
421	4.15	.90										
432	4.12	.84										
426	4.15	.79										
029	4.13	.78										
028	4.15	.78										
389	4.10	.76										
296	4.10	.65										
444	4.11	.64										
371	4.10	.53										
055	4.07	.45										
420	4.07	.37										
247	4.07	.36										
262	4.02	.34										
232	4.06	.28										
360	4.06	.27										
397	4.01	.17										
Avg	4.01											
027	3.97	-0.21										
351	3.97	-0.23										
131	3.99	-0.23										
454	3.97	-0.23										
Meth: 121.99 PCT												
<u>Acid Soluble Magnesi</u>												
ICP												
042	4.30	1.20										
043	3.95	-0.32										
309	3.95	-0.32										
057	3.94	-0.42										
137	3.91	-0.53										
023	3.91	-0.56										
324	3.90	-0.59										
372	3.89	-0.65										
307	3.89	-0.69										
106	3.86	-0.83										
409	3.85	-0.94										
234	3.88	R -1.21										
065	3.76	-1.38										
255	3.76	-1.41										
105	3.75	R -1.76										
433	3.57	-2.44										
372	3.44	-3.15										
102	3.40	A -3.38										
393	2.44	s -8.70										
453	0.42	s -19.93										
Meth: 131.00 PCT												
<u>Water Soluble Magnesi</u>												
AA												
029	3.86	1.13										
Avg	3.80											
309	3.74	-0.46										
Meth: 131.30 PCT												
<u>Water Soluble Magnesi</u>												
AA												
029	3.86	1.13										
Avg	3.80											
309	3.74	-0.46										
Meth: 131.70 PCT												
<u>Acid Soluble Magnesi</u>												
ICP												
095	4.09	.86										
Avg	3.93											
027	3.76	-0.87										
Meth: 144.02 PCT												
<u>Sulfur</u>												
ICP												
292	11.15	.71										

* 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: 144.99 PCT																
Sulfur																
Other			102	11.55	.60	Meth: 144.99 PCT										
360	11.99	2.07	057	11.51	.51	Sulfur										
393	11.83	1.71	028	11.43	.34	Meth: 151.30 PPM										
291	11.76	1.56	177	11.39	.28	Arsenic										
177	11.39	.75	136	11.38	.24	ICP										
136	11.38	.72	200	11.33	.15	368									9.45	1.86
354	11.23	.41	233	11.28	.07	Avg									3.56	
390	11.10	.24	Avg	11.27		393									2.82	-.23
389	11.10	.24	354	11.23	-.20	230									1.84	-.54
454	11.10	.09	292	11.15	-.28	450									2.00	-.58
027	11.10	.09	372	11.13	-.33	065									1.72	-.60
Avg	11.06		454	11.10	-.38	Meth: 151.99 PPM										
037	11.04	-.10	027	11.10	-.39	Arsenic										
137	10.80	-.58	389	11.10	-.44	Other										
421	10.95	-.61	390	11.10	-.44	231									2.26	1.13
023	10.73	-.76	037	11.04	-.53	Avg									2.09	
368	10.71	-.80	230	11.15	-.81	409									1.93	-.48
453	10.66	-.91	421	10.95	-.90	Meth: 151.99 PPM										
232	10.62	-.97	137	10.80	-1.04	Arsenic										
422	10.58	-1.07	023	10.73	-1.21	372									77.62	28.56
450	10.56	-1.12	368	10.71	-1.25	368									9.45	2.51
255	10.47	-1.32	444	10.70	-1.27	Avg									2.97	
330	10.40	-2.86	453	10.66	-1.35	393									2.82	-.06
Meth: 144.99 PCT																
Sulfur																
055	12.00	1.60	232	10.62	-1.42	231									2.26	-.30
360	11.99	1.56	422	10.58	-1.52	409									1.93	-.40
029	11.90	1.37	450	10.56	-1.56	230									1.84	-.43
262	11.88	1.32	255	10.47	-1.76	136									1.75	-.47
095	11.86	1.29	330	10.40	-3.08	065									1.72	-.53
393	11.83	1.21	Meth: 165.00 PCT													
043	11.82	1.20	Acid Soluble Boron													
291	11.76	1.07	Spectrometric													
397	11.58	.68	200												0.095	4.55
105	11.55	.64	029												0.076	1.53
296	11.54	.63	105												0.073	1.03
324	11.55	.62	028												0.071	.64
Meth: 144.99 PCT																
Sulfur																
055	12.00	1.60	Avg												0.066	-.42
360	11.99	1.56	055												0.066	-.42
029	11.90	1.37	397												0.064	-.47
262	11.88	1.32	Meth: 151.30 PPM													
095	11.86	1.29	Arsenic													
393	11.83	1.21	ICP													
043	11.82	1.20	372												77.62	23.09
291	11.76	1.07	Meth: 165.00 PCT													
397	11.58	.68	Acid Soluble Boron													
105	11.55	.64	Spectrometric													
296	11.54	.63	200												0.095	4.55
324	11.55	.62	029												0.076	1.53
Meth: 144.99 PCT																
Sulfur																
055	12.00	1.60	105												0.073	1.03
360	11.99	1.56	028												0.071	.64
029	11.90	1.37	Avg												0.066	-.42
262	11.88	1.32	055												0.066	-.42
095	11.86	1.29	397												0.064	-.47
393	11.83	1.21	Meth: 165.00 PCT													
043	11.82	1.20	Acid Soluble Boron													
291	11.76	1.07	Spectrometric													
397	11.58	.68	200												0.095	4.55
105	11.55	.64	029												0.076	1.53
296	11.54	.63	105												0.073	1.03
324	11.55	.62	028												0.071	.64
Meth: 151.30 PPM																
Arsenic																
055	12.00	1.60	Avg												0.066	-.42
360	11.99	1.56	055												0.066	-.41
029	11.90	1.37	397												0.064	-.47
262	11.88	1.32	Meth: 165.99 PCT													
095	11.86	1.29	Acid Soluble Boron													
393	11.83	1.21	Other													
043	11.82	1.20	368												0.109	6.11
291	11.76	1.07	137												0.080	1.92
397	11.58	.68	422												0.080	1.92
105	11.55	.64	360												0.075	1.13
296	11.54	.63	354												0.071	.59
324	11.55	.62	106												0.070	.47
Meth: 151.99 PPM																
Arsenic																
055	12.00	1.60	324												0.069	.26
360	11.99	1.56	409												0.068	.19
029	11.90	1.37	255												0.067	.02
262	11.88	1.32	Avg												0.067	
095	11.86	1.29	230												0.065	-.33
393	11.83	1.21	291												0.064	-.47
043	11.82	1.20	307												0.063	-.51
291	11.76	1.07	023												0.063	-.54
397	11.58	.68	232												0.062	-.75
105	11.55	.64	043												0.065	-.79
296	11.54	.63	453												0.060	-.99
324	11.55	.62	389												0.060	-.99
Meth: 165.00 PCT																
Acid Soluble Boron																
055	12.00	1.60	433												0.060	-.99
360	11.99	1.56	444												0.057	-1.49
029	11.90	1.37	Meth: 171.99 PCT													
262	11.88	1.32	Water Soluble Boron													
095	11.86	1.29	Other													
393	11.83	1.21	454												0.070	.87
043	11.82	1.20	Avg												0.068	
291	11.76	1.07	027												0.065	-.87
397	11.58	.68	Meth: 181.00 PPM													
105	11.55	.64	Cadmium													
296	11.54	.63	Atomic Absorption													
324	11.55	.62	136												10.10	.71

* 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
Meth: 221.00 PCT											
Acid Soluble Copper											
Atomic Absorption											
043	0.0235 s	97.74									
372	0.0040 s	9.13									
354	0.0035 s	7.22									
444	0.0028 s	4.85									
422	0.0025 R	3.24									
255	0.0026	2.77									
095	0.0023	1.41									
393	0.0022	1.11									
409	0.0022	.92									
105	0.0020	.46									
389	0.0020	.04									
230	0.0020	.04									
402	0.0020	.04									
095	0.0023	1.37									
393	0.0022	1.09									
402	0.0020	.08									
389	0.0020	.08									
230	0.0020	.08									
453	0.0020	.08									
Avg	0.0020										
247	0.0020	-.25									
102	0.0019	-.34									
454	0.0019	-.60									
433	0.0018	-.60									
037	0.0020	-.72									
232	0.0018	-.77									
057	0.0018	-.78									
324	0.0018	-1.01									
065	0.0017	-1.29									
368	0.0015 R	-2.98									
Meth: 221.30 PCT											
Acid Soluble Copper											
Atomic Absorption											
442	0.62 s	12.29									
055	0.36	1.15									
371	0.35	.85									
351	0.35	.79									
043	0.35	.76									
397	0.33	.16									
296	0.34	.13									
Meth: 221.99 PCT											
Acid Soluble Copper											
Other											
409	0.0022	.84									
Avg	0.0021										
231	0.0020	-.89									
Meth: 221.00 PCT											
Acid Soluble Iron											
Atomic Absorption											
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454	0.36	1.29									
354	0.37	1.24									
368	0.36 R	1.24									
Avg	0.33										
442	0.62 s	9.20									
432	0.45 s	4.00									
330	0.40	2.23									
057	0.40	2.22									
389	0.38	1.45									
454											

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 251.00 PPM											
Lead			Meth: 251.00 PPM								
Atomic Absorption		.00	372	0.00	-1.60	Meth: 261.30 PCT					
136	11.50 S		ICP			360	0.173	.41	Meth: 261.99 PCT		
Meth: 251.30 PPM											
Lead			Meth: 261.00 PCT								
ICP			200	0.260 S	8.57	426	0.172	.30	Meth: 281.99 PPM		
368	2.80	1.67	442	0.249 S	7.14	247	0.168	.09	Meth: 289.30 PPM		
450	2.50 R	1.44	351	0.185	1.41	232	0.166	.08	Meth: 281.30 PPM		
393	2.07	.86	397	0.177	.81	Avg	0.166		Meth: 281.99 PPM		
105	1.60	.42	055	0.175	.62	023	0.165	-.19	Meth: 281.30 PPM		
230	1.58	.34	296	0.175	.49	393	0.159	-.42	Meth: 281.99 PPM		
Avg			Avg	0.170		065	0.162	-.47	Meth: 281.30 PPM		
444	1.17	-.16	262	0.170	-.03	095	0.158	-.48	Meth: 281.99 PPM		
102	0.77	-.53	307	0.170	-.63	057	0.157	-.73	Meth: 281.30 PPM		
065	0.13	-1.22	177	0.156	-1.30	291	0.152	-.85	Meth: 281.99 PPM		
372	0.00	-1.36	043	0.155	-1.46	433	0.152	-.85	Meth: 281.30 PPM		
Meth: 251.99 PPM											
Lead			Meth: 261.11 PCT								
Other			Acid Soluble Manganese								
409	2.27	.88	AA			324	0.148	-1.07	Meth: 281.99 PPM		
Avg			029	0.175	-.71	307	0.148	-1.07	Meth: 281.30 PPM		
231	1.90	-.86	Meth: 261.30 PCT								
Meth: 251.00 PPM											
Lead			Acid Soluble Manganese								
ICP			324	0.181	1.22	454	0.163	-.46	Meth: 281.99 PPM		
136	11.50 s	11.28	Avg	0.168		073	0.159	-.90	Meth: 281.30 PPM		
368	2.80	1.55	432	0.245 s	4.62	330	0.200	1.95	Meth: 281.99 PPM		
450	2.50 R	1.32	330	0.200	1.95	368	0.192 R	1.78	Meth: 281.30 PPM		
409	2.27	.94	390	0.184	1.17	390	0.184	1.17	Meth: 281.99 PPM		
393	2.07	.71	230	0.186	1.11	230	0.186	1.11	Meth: 281.30 PPM		
231	1.90	.53	354	0.185	1.10	354	0.185	1.11	Meth: 281.99 PPM		
105	1.60	.29	106	0.180	.98	453	0.180	.98	Meth: 281.30 PPM		
230	1.58	.17	453	0.180	.98	131	0.177	.99	Meth: 281.99 PPM		
Avg			131	0.177	.97	389	0.180	.77	Meth: 281.30 PPM		
444	1.17	-.31	389	0.180	.79	450	0.180	.76	Meth: 281.99 PPM		
102	0.77	-.74	450	0.177	.76	422	0.128	-2.21	Meth: 281.30 PPM		
065	0.13	-1.45	444	0.175	.58	102	0.142	-1.42	Meth: 281.99 PPM		
* 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			
Meth: 289.30 PPM														
Molybdenum														
ICP			Meth: 291.00 PPM											
230	8.52	.08	Nickel											
Avg	8.48		Atomic Absorption											
065	8.35	-1.19	136	54.00	.71	Meth: 291.30 PPM								
307	8.36	-2.23	Nickel											
393	7.78	-0.87	ICP											
102	7.78	-0.90	444	54.47 R	1.52	Meth: 301.30 PPM								
433	7.30	-1.49	232	49.35 R	.90	Selenium								
105	0.07 s	-10.58	247	50.50	.84	ICP								
372	0.00 s	-10.66	368	48.60	.57	368 4.90 1.79								
Meth: 289.99 PPM														
Molybdenum														
Other			102	46.24	.44	393 2.82 .60								
409	7.68	.82	037	47.43	.42	Avg 1.75								
Avg	6.15		065	47.27	.39	230 1.01 -.41								
231	4.62	-.91	230	45.85	.19	065 0.74 X -.58								
Meth: 289.99 PPM														
Molybdenum														
444	14.00 s	8.67	Avg	44.51		450 1.00 -.69								
232	9.85	2.18	105	43.00	-.21	372 0.00 -.97								
450	8.50 R	1.90	393	27.17 X	-2.42	Meth: 301.99 PPM								
057	8.52	1.07	372	11.83 s	-4.57	Selenium								
247	9.00	.74	Meth: 291.99 PPM											
037	8.94	.66	Nickel											
368	8.85	.64	Other											
230	8.52	.15	409	48.25	.87	231 1.04 .89								
Avg	8.41		Avg	29.62		409 0.89 -.84								
065	8.35	-1.13	231	10.99	-.87	Meth: 301.99 PPM								
307	8.36	-1.18	Selenium											
393	7.78	-0.79	368	4.90	2.04	368 4.90 2.04								
102	7.78	-0.82	393	2.82	.73	393 2.82 .73								
409	7.68	-0.93	444	54.47 R	1.03	Avg 1.63								
433	7.30	-1.41	136	54.00	.96	231 1.04 -.36								
231	4.62 A	-4.87	247	50.50	.71	230 1.01 -.38								
105	0.07 s	-10.52	232	49.35 R	.70	409 0.89 -.45								
372	0.00 s	-10.61	368	48.60	.58	065 0.74 X -.57								
Meth: 311.30 PCT														
Sodium														
Other			409	48.25	.87	450 1.00 R -.72								
444	14.00 s	8.67	037	47.43	.50	372 0.00 -.99								
232	9.85	2.18	065	47.27	.49	Meth: 321.30 PCT								
450	8.50 R	1.90	102	46.24	.44	Acid Soluble Zinc								
057	8.52	1.07	230	45.85	.19	Atomic Absorption								
247	9.00	.74	Avg	44.51		055 0.240 -.44								
037	8.94	.66	105	43.00	-.21	371 0.240 -.45								
368	8.85	.64	393	27.17 X	-2.42	397 0.231 -.82								
230	8.52	.15	372	11.83 s	-4.57	043 0.215 -1.46								
Avg	8.41		Meth: 311.99 PCT											
065	8.35	-1.13	Sodium											
307	8.36	-1.18	Other											
393	7.78	-0.79	422	1.81	1.69	Meth: 321.00 PCT								
102	7.78	-0.82	232	1.64	.29	Acid Soluble Zinc								
409	7.68	-0.93	Avg	1.61		Atomic Absorption								
433	7.30	-1.41	102	1.57	-.36	055 0.240 -.44								
231	4.62 A	-4.87	454	1.53	-.79	371 0.240 -.45								
105	0.07 s	-10.52	057	1.51	-.90	397 0.231 -.82								
372	0.00 s	-10.61	453	0.24 S	-11.89	043 0.215 -1.46								
Meth: 311.30 PCT														
Sodium														
Other			Meth: 311.99 PCT											
444	14.00 s	8.67	Sodium											
232	9.85	2.18	Other											
450	8.50 R	1.90	422	1.81	1.85	Meth: 321.30 PCT								
057	8.52	1.07	232	1.64	.30	Acid Soluble Zinc								
247	9.00	.74	372	1.62	.12	Atomic Absorption								
037	8.94	.66	Avg	1.61		055 0.240 -.44								
368	8.85	.64	102	1.57	-.41	371 0.240 -.45								
230	8.52	.15	454	1.53	-.89	397 0.231 -.82								
Avg	8.41		057	1.51	-1.01	043 0.215 -1.46								
065	8.35	-1.13	450	1.23 R	-4.18	Meth: 321.00 PCT								
307	8.36	-1.18	453	0.24 s	-13.14	Acid Soluble Zinc								
393	7.78	-0.79	Meth: 321.00 PCT											
102	7.78	-0.82	Acid Soluble Zinc											
409	7.68	-0.93	Atomic Absorption											
433	7.30	-1.41	029	0.310	2.38	Avg 0.233								
231	4.62 A	-4.87	262	0.265	.60	393 0.230 -.16								
105	0.07 s	-10.52	105	0.262	.47	023 0.224 -.46								
372	0.00 s	-10.61	Avg	0.251		372 0.221 -.57								
Meth: 321.30 PCT														
Acid Soluble Zinc														
444	14.00 s	8.67	Meth: 321.00 PCT											
232	9.85	2.18	Acid Soluble Zinc											
450	8.50 R	1.90	Atomic Absorption											
057	8.52	1.07	029	0.310	2.38	Avg 0.233								
247	9.00	.74	262	0.265	.60	393 0.230 -.16								
037	8.94	.66	105	0.262	.47	023 0.224 -.46								
368	8.85	.64	Avg	0.251		372 0.221 -.57								
230	8.52	.15	351	0.250	-.09	232 0.221 -.59								
Avg	8.41		296	0.250	-.12	389 0.220 -.62								
065	8.35	-1.13	177	0.248	-.13	450 0.227 R -.62								
307	8.36	-1.18	Meth: 321.00 PCT											
393	7.78	-0.79	Acid Soluble Zinc											
102	7.78	-0.82	Atomic Absorption											
409	7.68	-0.93	029	0.310	2.38	Avg 0.233								
433	7.30	-1.41	262	0.265	.60	393 0.230 -.16								
231	4.62 A	-4.87	105	0.262	.47	023 0.224 -.46								
105	0.07 s	-10.52	Avg	0.251		372 0.221 -.57								
372	0.00 s	-10.61	351	0.250	-.09	232 0.221 -.59								
Meth: 321.30 PCT														
Acid Soluble Zinc														
444	14.00 s	8.67	Meth: 321.00 PCT											
232	9.85	2.18	Acid Soluble Zinc											
450	8.50 R	1.90	Atomic Absorption											
057	8.52	1.07	029	0.310	2.38	Avg 0.233								
247	9.00	.74	262	0.265	.60	393 0.230 -.16								
037	8.94	.66	105	0.262	.47	023 0.224 -.46								
368	8.85	.64	Avg	0.251		372 0.221 -.57								
230	8.52	.15	351	0.250	-.09	232 0.221 -.59								
Avg	8.41		296	0.250	-.12	389 0.220 -.62								
065	8.35	-1.13	177	0.248	-.13	450 0.227 R -.62								
307	8.36	-1.18	Meth: 321.00 PCT											
393	7.78	-0.79	Acid Soluble Zinc											
102	7.78	-0.82	Atomic Absorption											
409	7.68	-0.93	029	0.310	2.38	Avg 0.233								
433	7.30	-1.41	262	0.265	.60	393 0.230 -.16								
231	4.62 A	-4.87	105	0.262	.47	023 0.224 -.46								
105	0.07 s	-10.52	Avg	0.251		372 0.221 -.57								
372	0.00 s	-10.61	351	0.250	-.09	232 0.221 -.59								
Meth: 321.30 PCT														
Acid Soluble Zinc														
444	14.00 s	8.67	Meth: 321.00 PCT											
232	9.85	2.18	Acid Soluble Zinc											
450	8.50 R	1.90	Atomic Absorption											
057	8.52	1.07	029	0.310	2.38	Avg 0.233								
247	9.00	.74	262	0.265	.60	393 0.230 -.16								
037	8.94	.66	105	0.262	.47	023 0.224 -.46								
368	8.85	.64	Avg	0.251		372 0.221 -.57								
230	8.52	.15	351	0.250	-.09	232 0.221 -.59								
Avg	8.41		296	0.250	-.12	389 0.220 -.62								
065	8.35	-1.13	177	0.248	-.13	450 0.227 R -.62								
307	8.36	-1.18	Meth: 321.00 PCT											
393	7.78	-0.79	Acid Soluble Zinc											
102	7.78	-0.82	Atomic Absorption											
409	7.68	-0.93	029	0.310	2.38	Avg 0.233								
433	7.30	-1.41	262	0.265	.60	393 0.230 -.16								
231	4.62 A	-4.87	105	0.262	.47	023 0.224 -.46								
105	0.07 s	-10.52	Avg	0.251		372 0.221 -.57								
372	0.00 s	-10.61	351	0.250	-.09	232 0.221 -.59								
Meth: 321.30 PCT														
Acid Soluble Zinc														
444	14.00 s	8.67	Meth: 321.00 PCT											
232	9.85	2.18	Acid Soluble Zinc											
450	8.50 R	1.90	Atomic Absorption											
057	8.52	1.07	029	0.310	2.38	Avg 0.233								
247	9.00	.74	262	0.265	.60	393 0.230 -.16								
037	8.94	.66	105	0.262	.47	023 0.224 -.46								
368	8.85	.64	Avg	0.251		372 0.221 -.57								
230	8.52	.15	351	0.250	-.09	232 0.221 -.59								
Avg	8.41		296	0.250	-.12	389 0.220 -.62								
065	8.35	-1.13	177	0.248	-.13	450 0.227 R -.62								
307	8.36	-1.18	Meth: 321.00 PCT											
393	7.78	-0.79	Acid Soluble Zinc											
102	7.78	-0.82	Atomic Absorption											
409	7.68	-0.93	029	0.310	2.38	Avg 0.233								
433	7.30	-1.41	262	0.265	.60	393 0.230 -.16								
231	4.62 A	-4.87	105	0.262	.47	023 0.224 -.46								
105	0.07 s	-10.52	Avg	0.251		372 0.221 -.57								
372	0.00 s	-10.61	351	0.250	-.09	232 0.221 -.59								
Meth: 321.30 PCT														
Acid Soluble Zinc														
444	14.00 s	8.67	Meth: 321.00 PCT											
232	9.85	2.18	Acid Soluble Zinc											
450	8.50 R	1.90	Atomic Absorption											
057	8.52	1.07	029	0.310	2.38	Avg 0.233								
247	9.00	.74	262	0.265	.60	393 0.230 -.16								
037	8.94	.66	105	0.262	.47	023 0.224 -.46								
368	8.85	.64	Avg	0.251		372 0.221 -.57								
230	8.52	.15	351	0.250	-.09	232 0.221 -.59								
Avg	8.41		296	0.250	-.12	389 0.220 -.62								
065	8.35	-1.13	177	0.248	-.13	450 0.227 R -.62								
307	8.36	-1.18	Meth: 321.00 PCT											
393	7.78	-0.79	Acid Soluble Zinc											
102	7.78	-0.82	Atomic Absorption											
409	7.68	-0.93	029	0.310	2.38	Avg 0.233								
433	7.30	-1.41	262	0.265	.60	393 0.230 -.16								
231	4.62 A	-4.87	105	0.262	.47	023 0.224 -.46								
105	0.07 s	-10.52	Avg	0.251		372 0.221 -.57								
372	0.00 s	-10.61												

Laboratory Averages & Accuracy Indexes

Lab Average* Index Lab Average* Index Lab Average* Index Lab Average* Index

Meth: 321.30 PCT
 Acid Soluble Zinc
 ICP
 065 0.209 -1.13
 307 0.210 -1.17
 102 0.202 -1.47
 330 0.200 -1.55
 433 0.193 -1.87
 027 0.192 -1.92
 292 0.030 s -9.43

Meth: 321.99 PCT
 Acid Soluble Zinc
 Other
 137 0.260 .85
 Avg 0.256 -.94
 409 0.255 -.94
 231 0.255 -.94
 028 0.252 -1.00
 042 0.170 s -16.19

Meth: 321.XX PCT
 Acid Soluble Zinc
 432 0.350 s 5.64
 029 0.310 A 3.53
 426 0.287 2.37
 368 0.270 1.57
 262 0.265 1.35
 037 0.262 R 1.28
 105 0.262 1.20
 137 0.260 1.08
 231 0.255 .88
 409 0.255 .88
 117 0.255 .82
 028 0.252 .72
 057 0.250 .64
 409 0.250 .60
 351 0.250 .59
 296 0.250 .59
 177 0.248 .49

Meth: 325.00 PCT
 Water Soluble Zinc
 Atomic Absorption
 428 0.097 -.71

Meth: 325.30 PCT
 Water Soluble Zinc
 ICP
 095 0.250 .71

Meth: 325.XX PCT
 Water Soluble Zinc
 095 0.250 .87
 Avg 0.173
 428 0.097 -.87

Meth: 321.XX PCT
 Acid Soluble Zinc
 324 0.248 .48
 106 0.245 .43
 453 0.245 .43
 230 0.245 .36
 354 0.245 .34
 255 0.245 .33
 360 0.243 .26
 422 0.243 .25
 454 0.242 .22
 390 0.242 .22
 371 0.240 .18
 055 0.240 .11
 402 0.240 .09
 247 0.239 .08
 Avg 0.238

131 0.236 -.13
 444 0.235 -.27
 397 0.231 -.35
 393 0.230 -.37
 023 0.224 -.68
 450 0.227 R -.76
 372 0.221 -.81
 232 0.221 -.82
 389 0.220 -.85
 043 0.215 -1.12
 291 0.214 -1.15
 065 0.209 -1.39
 307 0.210 -1.42
 102 0.202 -1.74
 330 0.200 -1.82
 433 0.193 -2.16
 027 0.192 -2.21
 042 0.170 s -3.31
 292 0.030 s -10.06

* 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	10	- 0.65	2.28	0.20	050.51	8	- 1.08	2.89	0.44
001.99	12	0.29	4.89	0.08	050.60	6	0.00	0.97	0.37
001.XX	22	0.17	3.93	0.08	050.61	12	0.03	0.95	0.36
002.10	2	0.00	1.00	0.50	050.99	19	0.10	1.06	0.24
002.20	3	12.60	21.84	5.06	050.XX	74	0.25	1.53	0.37
002.99	4	2.12	4.33	3.43	060.00	5	0.00	1.03	0.22
002.XX	9	2.55	5.24	2.72	060.XX	5	0.00	1.03	0.22
009.10	7	2.23	7.07	0.55	101.00	10	0.00	0.89	0.48
009.XX	8	2.09	7.09	0.57	101.30	30	0.43	2.51	0.41
010.11	6	0.00	1.05	0.06	101.99	3	0.00	1.11	0.13
010.12	4	0.16	0.96	0.52	101.XX	44	0.29	2.14	0.39
010.60	61	1.20	10.36	0.23	121.00	11	0.29	1.29	0.75
010.99	3	6.22	10.81	0.34	121.30	32	0.16	3.84	0.17
010.XX	71	0.69	9.39	0.29	121.99	4	0.00	0.94	0.46
020.10	4	0.00	1.07	0.12	121.XX	47	0.28	4.01	0.35
020.20	18	1.31	4.05	0.22	131.00	2	0.00	0.65	0.73
020.40	6	0.00	1.03	0.17	131.30	2	0.00	1.22	0.09
020.50	14	0.31	1.46	0.42	131.XX	5	0.03	0.93	0.40
020.99	5	0.77	11.19	3.91	144.01	17	0.07	1.01	0.31
020.XX	45	0.79	4.45	0.94	144.99	21	0.08	1.01	0.56
030.40	2	0.00	1.22	0.00	144.XX	39	0.07	1.01	0.43
030.XX	6	0.03	0.95	0.17	151.30	6	3.85	9.47	0.19
040.40	3	0.00	1.07	0.27	151.99	2	0.00	0.68	0.72
040.50	2	0.00	1.22	0.07	151.XX	9	3.17	9.57	0.20
040.XX	8	0.00	1.03	0.11	165.00	10	0.315	1.759	0.517
041.10	12	0.01	1.22	0.68	165.99	18	0.325	1.728	0.203
041.20	2	0.00	0.89	0.60	165.XX	28	0.323	1.721	0.339
041.40	4	1.86	3.83	0.17	171.99	2	0.000	1.225	0.000
041.50	9	0.28	1.43	0.45	171.XX	2	0.000	1.225	0.000
041.60	12	0.15	1.07	0.38	181.30	14	0.39	1.74	0.29
041.99	2	0.35	0.50	2.83	181.99	2	0.00	1.08	0.41
041.XX	32	0.19	1.66	0.79	181.XX	17	0.31	1.59	0.32
048.20	3	0.00	1.08	0.25	190.00	13	0.06	1.00	0.09
048.99	2	0.00	1.22	0.07	190.99	4	38.59	82.29	4.41
048.XX	5	0.00	1.05	0.11	190.XX	17	6.73	29.18	1.59
050.00	12	0.09	1.00	0.63	191.30	14	0.00	1.01	0.10
050.10	3	0.00	0.97	0.46	191.99	2	0.00	1.22	0.03
050.30	11	0.37	1.54	0.23	191.XX	16	0.00	1.01	0.09
050.50	10	0.00	0.97	0.27	202.30	11	0.00	1.02	0.10

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
202.99	2	0.00	1.22	0.01					
202.XX	14	0.03	0.96	0.08					
221.00	3	45.961	92.127	2.0817					
221.30	21	0.8897	2.6101	1.0900					
221.99	2	0.0000	1.1583	0.2814					
221.XX	26	4.1610	19.338	1.1323					
241.00	13	0.08	4.81	0.45					
241.30	37	0.00	1.19	0.42					
241.99	2	0.00	1.22	0.00					
241.XX	52	0.04	2.04	0.41					
251.30	9	0.15	1.06	0.21					
251.99	2	0.00	1.21	0.14					
251.XX	12	1.04	3.37	0.25					
261.00	10	1.526	3.330	0.938					
261.30	29	0.208	1.277	0.377					
261.31	3	0.000	1.056	0.299					
261.99	5	1.483	3.440	0.158					
261.XX	48	0.154	2.187	0.438					
281.XX	2	0.000	1.180	0.231					
289.30	15	- 0.95	4.38	1.45					
289.99	2	0.00	1.16	0.28					
289.XX	17	- 1.10	4.21	1.39					
291.30	11	- 0.23	1.73	0.28					
291.99	2	0.00	1.22	0.02					
291.XX	14	0.12	0.99	0.13					
301.30	6	0.00	1.00	0.29					
301.99	2	0.00	1.15	0.29					
301.XX	8	- 0.05	0.96	0.27					
311.30	2	0.00	0.99	0.51					
311.99	6	- 1.98	4.94	0.16					
311.XX	8	- 2.10	4.72	0.71					
321.00	10	0.000	1.022	0.102					
321.30	35	- 0.085	2.098	0.292					
321.99	5	- 3.215	7.210	1.083					
321.XX	49	- 0.090	2.028	0.278					