

- Pass 1 Results for 84 Labs - - Pass 2 Results for 84 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	6	11.68	0.14	0.09	5	11.64	0.08	0.04
Ammoniacal Nitrogen, Other .....		001.99	7	11.57	0.33	0.25	6	11.56	0.27	0.10
Method Group 001.XX PCT			14	11.59	0.28	0.18	13	11.59	0.24	0.11
Nitrate Nitrogen, Other .....		002.99	3	0.88	0.12	0.02	3	0.88	0.12	0.02
Ammon & Nitrate N, Devarda .....	892.01	009.10	5	12.70	0.36	0.06	5	12.70	0.36	0.06
Ammon & Nitrate N, Other .....		009.99	1	12.02	0.02	0.03	1	12.02	0.02	0.03
Method Group 009.XX PCT			6	12.58	0.42	0.06	6	12.58	0.42	0.06
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	12.42	0.13	0.15	3	12.42	0.13	0.15
Total Nitrogen, Salicylic .....	955.04D	010.12	3	12.33	0.09	0.04	3	12.33	0.09	0.04
Total Nitrogen, Combustion .....		010.60	58	12.58	0.19	0.09	55	12.59	0.17	0.08
Method Group 010.XX PCT			65	12.55	0.21	0.09	61	12.56	0.19	0.08
Total Phosphate, Grav Quimociac .....	962.02	020.10	8	13.59	0.19	0.12	7	13.57	0.16	0.05
Total Phosphate, Spectrometric .....	958.01	020.20	19	13.43	0.35	0.12	18	13.43	0.34	0.08
Total Phosphate, Automated .....	978.01	020.40	7	13.69	0.24	0.26	6	13.69	0.18	0.15
Total Phosphate, ICP .....		020.50	13	13.37	0.41	0.22	12	13.31	0.34	0.17
Total Phosphate, Other .....		020.99	2	13.35	0.29	0.28	2	13.35	0.29	0.28
Method Group 020.XX PCT			49	13.47	0.35	0.17	44	13.46	0.32	0.10
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.01	0.01	0.01	1	0.01	0.01	0.01
Insoluble Phosphate, Spectrometric ....	963.03C	030.20	3	0.04	0.03	0.00	3	0.04	0.03	0.00
Insoluble Phosphate, Automated .....	978.01	030.40	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Insoluble Phosphate, ICP .....		030.50	1	0.06	0.01	0.01	1	0.06	0.01	0.01
Method Group 030.XX PCT			6	0.04	0.03	0.00	6	0.04	0.03	0.00
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	13.48	0.04	0.05	1	13.48	0.04	0.05
InDir Available Phosphate, Spectrometri	960.02	040.20	3	13.33	0.16	0.03	3	13.33	0.16	0.03
InDir Available Phosphate, Automated ..	960.02	040.40	2	13.50	0.14	0.14	2	13.50	0.14	0.14
InDir Available Phosphate, ICP .....		040.50	1	13.70	0.04	0.06	1	13.70	0.04	0.06
InDir Available Phosphate, Other .....		040.99	1	13.41	0.33	0.46	1	13.41	0.33	0.46
Method Group 040.XX PCT			8	13.45	0.19	0.12	7	13.45	0.18	0.07
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	11	13.45	0.14	0.05	11	13.45	0.14	0.05
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	13.14	0.07	0.10	1	13.14	0.07	0.10
Dir Available Phosphate, Automated ....	978.01	041.40	2	13.55	0.29	0.41	2	13.55	0.29	0.41
Dir Available Phosphate, ICP .....		041.50	12	13.43	0.34	0.09	11	13.41	0.35	0.07
Dir Available Phosphate, EDTA Extract .	993.01	041.60	14	13.60	0.16	0.09	13	13.58	0.13	0.06
Dir Available Phosphate, Other .....		041.99	2	13.34	0.40	0.10	2	13.34	0.40	0.10
Method Group 041.XX PCT			42	13.49	0.25	0.10	39	13.47	0.25	0.06
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	11.55	0.05	0.07	1	11.55	0.05	0.07
Water Soluble Phosphate, Spectrometric	970.01	048.20	4	11.93	0.26	0.04	4	11.93	0.26	0.04
Water Soluble Phosphate, ICP .....		048.50	1	11.31	0.01	0.02	1	11.31	0.01	0.02
Water Soluble Phosphate, Other .....		048.99	1	11.52	0.01	0.02	1	11.52	0.01	0.02

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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 048.XX PCT			7	11.73	0.32	0.04	7	11.73	0.32	0.04
Soluble Potash, STPB Oxalate .....	958.02	050.00	12	13.36	0.51	0.14	10	13.34	0.54	0.05
Soluble Potash, AA (Oxalate) .....		050.30	3	13.17	0.14	0.20	3	13.17	0.14	0.20
Soluble Potash, AA (Citrate) .....		050.31	1	13.91	0.16	0.22	1	13.91	0.16	0.22
Soluble Potash, ICP (Oxalate) .....		050.50	8	13.14	0.48	0.15	8	13.14	0.48	0.15
Soluble Potash, ICP (Citrate) .....		050.51	10	13.34	0.53	0.18	10	13.34	0.53	0.18
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	5	13.32	0.73	0.19	5	13.32	0.73	0.19
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	10	13.19	0.37	0.12	9	13.23	0.36	0.09
Soluble Potash, Other .....		050.99	28	13.28	0.54	0.23	27	13.28	0.54	0.21
Method Group 050.XX PCT			78	13.26	0.53	0.18	73	13.24	0.51	0.15
Free Water, Vacuum Oven .....	965.08B	060.00	6	0.57	0.19	0.07	5	0.51	0.12	0.02
Free Water, Karl Fischer .....	972.01	060.20	1	0.54	0.01	0.01	1	0.54	0.01	0.01
Free Water, Other .....		060.99	1	0.37	0.03	0.04	1	0.37	0.03	0.04
Method Group 060.XX PCT			8	0.54	0.18	0.06	7	0.49	0.11	0.02
Acid Soluble Calcium, AA .....	945.04	101.00	2	0.66	0.10	0.06	2	0.66	0.10	0.06
Acid Soluble Calcium, ICP .....		101.30	16	0.67	0.03	0.03	15	0.67	0.03	0.02
Method Group 101.XX PCT			18	0.67	0.04	0.03	17	0.67	0.04	0.03
Acid Soluble Magnesium, AA .....	984.01	121.00	11	2.18	0.20	0.08	10	2.15	0.18	0.05
Acid Soluble Magnesium, ICP .....		121.30	34	2.10	0.17	0.07	32	2.09	0.16	0.05
Acid Soluble Magnesium, Titrimetric ...	964.01	121.70	1	2.06	0.00	0.00	1	2.06	0.00	0.00
Acid Soluble Magnesium, Other .....		121.99	1	2.50	0.00	0.00	1	2.50	0.00	0.00
Method Group 121.XX PCT			47	2.12	0.18	0.07	44	2.11	0.17	0.05
Water Soluble Magnesium, AA .....		131.00	1	1.49	0.04	0.05	1	1.49	0.04	0.05
Water Soluble Magnesium, ICP .....		131.30	6	1.64	0.28	0.08	6	1.64	0.28	0.08
Method Group 131.XX PCT			7	1.62	0.27	0.08	7	1.62	0.27	0.08
Sulfur, Gravimetric .....	980.02a	144.01	12	12.11	0.27	0.10	11	12.15	0.21	0.05
Sulfur, Gravimetric .....	980.02b	144.02	1	11.91	0.09	0.13	1	11.91	0.09	0.13
Sulfur, Spectrometric .....		144.70	2	11.45	1.12	0.14	2	11.45	1.12	0.14
Sulfur, Other .....		144.99	25	11.60	0.51	0.21	24	11.60	0.51	0.18
Method Group 144.XX PCT			42	11.76	0.58	0.16	39	11.76	0.58	0.12
Arsenic, Atomic Absorption .....		151.00	1	3.30	0.00	0.00	1	3.30	0.00	0.00
Arsenic, ICP .....		151.30	10	6.20	1.21	0.33	10	6.20	1.21	0.33
Method Group 151.XX PPM			12	5.53	1.95	0.27	12	5.53	1.95	0.27
Acid Soluble Boron, Spectrometric .....	982.01	165.00	6	0.124	0.008	0.005	6	0.124	0.008	0.005
Acid Soluble Boron, Titrimetric .....	949.02	165.70	1	0.145	0.007	0.010	1	0.145	0.007	0.010
Acid Soluble Boron, Other .....		165.99	26	0.131	0.018	0.004	25	0.131	0.018	0.004
Method Group 165.XX PCT			33	0.130	0.017	0.005	32	0.130	0.017	0.004
Water Soluble Boron, AA .....	52.950	171.00	1	0.132	0.010	0.014	1	0.132	0.010	0.014
Cadmium, Atomic Absorption .....		181.00	1	3.77	0.06	0.09	1	3.77	0.06	0.09

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Cadmium, ICP .....		181.30	13	3.84	0.57	0.29	11	3.81	0.54	0.16
Cadmium, Other .....		181.99	1	3.45	0.21	0.30	1	3.45	0.21	0.30
Method Group 181.XX PPM			15	3.81	0.54	0.28	13	3.78	0.50	0.17
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	7.63	0.01	0.01	1	7.63	0.01	0.01
Water Soluble Chlorine, Other .....		190.99	1	0.38	0.02	0.03	1	0.38	0.02	0.03
Method Group 190.XX PCT			2	4.00	4.18	0.02	2	4.00	4.18	0.02
Chromium, Atomic Absorption .....		191.00	2	92.40	3.52	4.70	2	92.40	3.52	4.70
Chromium, ICP .....		191.30	12	82.39	12.59	4.02	11	80.96	11.97	3.13
Method Group 191.XX PPM			14	83.82	12.21	4.12	13	82.72	11.81	3.38
Acid Soluble Cobalt, AA .....		202.00	1	10.50	0.71	1.00	1	10.50	0.71	1.00
Acid Soluble Cobalt, ICP .....	965.11	202.30	13	15.29	4.94	1.42	12	15.28	5.10	1.15
Method Group 202.XX PPM			14	14.95	4.92	1.39	13	14.91	5.06	1.14
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0068	0.0005	0.0007	3	0.0068	0.0005	0.0007
Acid Soluble Copper, ICP .....		221.30	22	0.0070	0.0011	0.0005	21	0.0070	0.0011	0.0004
Acid Soluble Copper, Other .....		221.99	1	0.0058	0.0000	0.0000	1	0.0058	0.0000	0.0000
Method Group 221.XX PCT			26	0.0070	0.0010	0.0005	25	0.0069	0.0010	0.0004
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	8	0.43	0.02	0.02	8	0.43	0.02	0.02
Acid Soluble Iron, ICP .....		241.30	35	0.41	0.03	0.01	33	0.41	0.03	0.01
Acid Soluble Iron, Other .....		241.99	1	0.40	0.01	0.01	1	0.40	0.01	0.01
Method Group 241.XX PCT			45	0.42	0.03	0.01	42	0.41	0.03	0.01
Lead, Atomic Absorption .....		251.00	2	12.40	1.16	0.80	2	12.40	1.16	0.80
Lead, ICP .....		251.30	13	17.59	2.79	1.31	12	17.42	2.75	1.03
Lead, Other .....		251.99	1	17.80	0.85	1.20	1	17.80	0.85	1.20
Method Group 251.XX PPM			16	16.96	3.08	1.24	15	16.78	3.04	1.01
Acid Soluble Manganese, AA .....	972.02a	261.00	8	0.444	0.035	0.011	8	0.444	0.035	0.011
Acid Soluble Manganese, AA .....	972.02b	261.11	3	0.411	0.062	0.009	3	0.411	0.062	0.009
Acid Soluble Manganese, ICP .....	972.02a	261.30	34	0.448	0.034	0.016	32	0.445	0.032	0.012
Acid Soluble Manganese, ICP .....	972.02b	261.31	1	0.470	0.013	0.018	1	0.470	0.013	0.018
Acid Soluble Manganese, Other .....		261.99	3	0.494	0.015	0.012	3	0.494	0.015	0.012
Method Group 261.XX PCT			49	0.448	0.038	0.015	46	0.449	0.033	0.012
Water Soluble Manganese, Atomic Abs ...	972.03	271.00	2	0.062	0.061	0.010	2	0.062	0.061	0.010
Water Soluble Manganese, ICP .....	972.03	271.30	2	0.035	0.013	0.020	2	0.035	0.013	0.020
Water Soluble Manganese, Other .....		271.99	1	0.020	0.000	0.000	1	0.020	0.000	0.000
Method Group 271.XX PCT			5	0.043	0.040	0.012	5	0.043	0.040	0.012
Mercury, Atomic Absorption .....		281.00	1	12.50	0.71	1.00	1	12.50	0.71	1.00
Mercury, ICP .....		281.30	2	0.36	0.39	0.02	2	0.36	0.39	0.02
Method Group 281.XX PPM			3	4.41	6.28	0.35	3	4.41	6.28	0.35
Molybdenum, ICP .....		289.30	13	6.50	1.16	0.47	12	6.46	1.17	0.37
Nickel, Atomic Absorption .....		291.00	2	33.93	1.64	2.35	2	33.93	1.64	2.35

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Nickel, ICP .....		291.30	15	33.53	5.62	1.90	14	33.24	5.63	1.54
Method Group 291.XX PPM			17	33.58	5.29	1.95	16	33.33	5.28	1.64
Selenium, Atomic Absorption .....		301.00	1	2.00	0.00	0.00	1	2.00	0.00	0.00
Selenium, ICP .....		301.30	4	1.96	1.31	0.31	4	1.96	1.31	0.31
Method Group 301.XX PPM			5	1.96	1.16	0.25	4	1.51	0.67	0.06
Sodium, Flame Photometric .....	974.01	311.30	1	0.34	0.00	0.00	1	0.34	0.00	0.00
Sodium, Other .....		311.99	6	0.35	0.01	0.00	5	0.35	0.01	0.00
Method Group 311.XX PCT			8	0.35	0.01	0.00	7	0.35	0.01	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	10	0.225	0.021	0.009	10	0.225	0.021	0.009
Acid Soluble Zinc, ICP .....		321.30	35	0.217	0.031	0.017	33	0.216	0.030	0.014
Acid Soluble Zinc, Other .....		321.99	2	0.220	0.008	0.010	2	0.220	0.008	0.010
Method Group 321.XX PCT			47	0.219	0.028	0.015	44	0.220	0.025	0.013
Water Soluble Zinc, Atomic Absorption .		325.00	1	0.071	0.001	0.001	1	0.071	0.001	0.001
Water Soluble Zinc, Other .....		325.99	2	0.233	0.029	0.044	2	0.233	0.029	0.044
Method Group 325.XX PCT			3	0.179	0.087	0.030	3	0.179	0.087	0.030

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT Ammoniacal Nitrogen <u>MgO Distillation</u>			Meth: 001.XX PCT Ammoniacal Nitrogen			Meth: 010.11 PCT Total Nitrogen <u>Modified Comprehensi</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
481	11.91 R	4.00	368	11.25 X	-1.58	456	13.66 S	9.14	292	12.70	.63	025	12.28	-1.84
405	11.74	1.36	Meth: 002.99 PCT Nitrate Nitrogen <u>Other</u>			105	12.52	.81	096	12.70	.60	472	12.27	-1.87
258	11.70	.80	504	1.03	1.17	Avg	12.42		482	12.60	.58	393	12.25	-2.00
Avg	11.64		Meth: 009.10 PCT Ammon & Nitrate N <u>Devarda</u>			211	12.38	-.32	073	12.68	.51	423	12.18	-2.46
416	11.59	-.59	397	13.37	1.84	309	12.37	-1.32	029	12.67	.49	034	12.04 A	-3.24
456	11.59	-.77	Avg	12.70		470	11.60 S	-6.14	351	12.67	.48	489	11.87 s	-4.20
504	11.56	-1.04	169	12.63	-.20	474	11.49 S	-6.96	177	12.67	.47	Meth: 010.99 PCT Total Nitrogen <u>Other</u>		
230	11.25 s	-5.31	504	12.59	-.31	Meth: 010.12 PCT Total Nitrogen <u>Salicylic</u>			494	12.61	.44	416	11.59 S	.00
Meth: 001.99 PCT Ammoniacal Nitrogen <u>Other</u>			258	12.48	-.65	504	12.43	1.00	049	12.61	.27	420	11.70 S	.00
027	11.63 R	2.18	090	12.43	-.75	185	12.35	.40	402	12.62	.24	487	11.00 s	.00
503	11.92	1.34	Meth: 009.99 PCT Ammon & Nitrate N <u>Other</u>			Avg	12.33		023	12.61	.12	500	11.51 S	.00
493	11.75	.74	393	12.02	-.71	481	12.23	-1.15	018	12.60	.05	506	11.71 S	.00
096	11.67	.42	Meth: 009.XX PCT Ammon & Nitrate N <u>Other</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Avg	12.59		Avg	0.00	
Avg	11.56		397	13.37	1.85	443	13.50 s	5.29	275	12.57	-.14	Meth: 010.XX PCT Total Nitrogen		
420	11.51	-.29	169	12.63	.13	307	12.92	2.08	368	12.56 X	-.25	456	13.66 s	5.79
393	11.27	-1.11	504	12.59	.01	117	12.85	1.53	157	12.55	-.38	443	13.50 s	4.96
368	11.25 X	-1.29	Avg	12.58		230	12.85	1.53	007	12.55	-.38	307	12.92	2.03
Meth: 001.XX PCT Ammoniacal Nitrogen			258	12.48	-.32	406	12.85	1.51	389	12.53	-.39	230	12.85	1.54
027	11.63 R	2.44	090	12.43	-.38	095	12.80	1.22	105	12.53	-.41	117	12.85	1.54
481	11.91	1.49	393	12.02	-1.34	040	12.80	1.22	247	12.51	-.51	406	12.85	1.51
503	11.92	1.38	Meth: 009.99 PCT Ammon & Nitrate N <u>Other</u>			010	12.74	1.11	450	12.50	-.53	040	12.80	1.25
493	11.75	.71	397	13.37	1.85	102	12.74	1.11	354	12.55	-.53	095	12.80	1.25
405	11.74	.63	169	12.63	.13	325	12.75	.97	136	12.49	-.63	102	12.74	1.13
258	11.70	.45	504	12.59	.01	356	12.73	.96	041	12.49 X	-.63	325	12.75	1.02
096	11.67	.34	Avg	12.58		483	12.69	.90	024	12.54	-.64	356	12.73	.99
Avg	11.59		258	12.48	-.32	055	12.74	.87	405	12.47	-.74	055	12.74	.94
416	11.59	-.04	090	12.43	-.38	426	12.63	.85	377	12.45	-.87	483	12.69	.92
456	11.59	-.17	393	12.02	-1.34	231	12.72	.75	324	12.55 R	-.91	231	12.72	.82
504	11.56	-.18	Meth: 009.XX PCT Ammon & Nitrate N <u>Other</u>			070	12.71	.69	234	12.40	-1.12	426	12.63	.82
420	11.51	-.43	397	13.37	1.85	360	12.70	.68	451	12.54 R	-1.12	070	12.71	.77
393	11.27	-1.39	169	12.63	.13	037	12.71	.68	042	12.40	-1.38	037	12.71	.76
230	11.25	-1.58	504	12.59	.01	035	12.71	.66	291	12.34	-1.49	360	12.70	.75
			Avg	12.58					486	12.30	-1.70			

\* 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>		
035	12.71	.74	042	12.40	-1.15	<u>Spectrometric</u>			<u>ICP</u>			035	13.73	.84
292	12.70	.72	185	12.35	-1.18	416	13.68	.74	247	13.76	1.30	416	13.68	.71
096	12.70	.69	291	12.34	-1.22	231	13.62	.55	474	13.74	1.25	470	13.65	.60
073	12.68	.60	309	12.37 R	-1.37	356	13.60	.50	291	13.55	.69	247	13.64	.55
029	12.67	.58	486	12.30	-1.41	169	13.60	.49	393	13.54	.67	470	13.64	.55
351	12.67	.58	025	12.28	-1.54	309	13.60	.48	426	13.34	.40	493	13.63	.53
177	12.67	.57	472	12.27	-1.57	371	13.56	.40	025	13.40	.26	105	13.62	.51
482	12.60	.56	393	12.25	-1.68	504	13.53	.29	402	13.32	.18	231	13.62	.50
494	12.61	.45	481	12.23	-1.78	258	13.44	.26	Avg	13.31		211	13.62	.50
402	12.62	.33	423	12.18	-2.11	450	13.50	.20	307	13.16	-.45	356	13.60	.46
049	12.61	.32	034	12.04	-2.82	Avg	13.43		234	13.11	-.61	169	13.60	.44
233	12.61	.29	489	11.87 A	-3.69	405	13.35	-.25	451	13.17	-.76	309	13.60	.43
023	12.61	.25	506	11.71 s	-4.59	420	13.32	-.34	389	13.05	-1.23	096	13.47	.40
485	12.61	.23	420	11.70 s	-4.61	324	13.30	-.39	482	12.60	-2.09	371	13.56	.35
018	12.60	.19	470	11.60 s	-5.14	503	13.23	-.60	157	12.25 s	-3.49	291	13.55	.27
275	12.57	.06	416	11.59 s	-5.17	027	13.32 R	-1.43	Meth: 020.99 PCT			393	13.54	.25
Avg	12.56		500	11.51 s	-5.59	489	12.94	-1.44	Total Phosphate			504	13.53	.22
368	12.56 X	-.16	474	11.49 s	-5.73	506	12.84	-1.76	Other			500	13.51	.16
389	12.53	-.23	487	11.00 s	-8.45	481	12.73	-2.14	443	16.72 S	11.57	450	13.50	.12
105	12.53	-.25	Meth: 020.10 PCT			Meth: 020.40 PCT			500	13.51	.57	504	13.48	.11
157	12.55	-.28	Total Phosphate			Total Phosphate			Avg	13.35		Avg	13.46	
007	12.55	-.28	<u>Grav Quimociac</u>			<u>Automated</u>			487	13.18	-1.09	025	13.40	-.19
247	12.51	-.33	157	13.70 R	2.09	105	13.85 X	1.58	Meth: 020.XX PCT			258	13.44	-.29
450	12.50	-.34	090	13.77	1.23	456	13.84	.85	<u>Total Phosphate</u>			405	13.35	-.37
105	12.52	-.36	470	13.65	.54	035	13.73	.23	443	16.72 s	10.34	420	13.32	-.46
501	12.56	-.38	493	13.63	.36	Avg	13.69		483	14.76 s	4.15	402	13.32	-.49
354	12.55	-.44	105	13.62	.32	470	13.64	-.31	368	14.12 R	2.48	324	13.30	-.51
041	12.49 X	-.44	211	13.62	.29	247	13.64	-.32	406	14.02	1.78	426	13.34	-.59
136	12.49	-.44	Avg	13.57		096	13.47	-1.42	042	13.67 R	1.55	322	13.27	-.63
043	12.48	-.51	504	13.48	-.64	042	13.67 R	-2.45	292	13.94	1.52	503	13.23	-.75
024	12.54	-.53	322	13.27	-2.00	300	11.55 s	-11.78	105	13.85 X	1.45	307	13.16	-.97
405	12.47	-.55	Meth: 020.20 PCT			Meth: 020.50 PCT			157	13.70 R	1.22	234	13.11	-1.13
377	12.45	-.66	Total Phosphate			Total Phosphate			456	13.84	1.21	451	13.17	-1.16
504	12.43	-.74	<u>Spectrometric</u>			<u>ICP</u>			090	13.77	.97	487	13.18	-1.24
324	12.55 R	-.80	406	14.02	1.72	483	14.76 s	4.26	247	13.76	.94	027	13.32 R	-1.58
234	12.40	-.88	292	13.94	1.48	368	14.12 R	2.66	474	13.74	.89	489	12.94	-1.65
211	12.38	-.98										389	13.05 R	-1.67
451	12.54 R	-.99										506	12.84	-2.00

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

Laboratory Averages & Accuracy Indexes

<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: 020.XX PCT			Meth: 040.10 PCT			Meth: 040.XX PCT			Meth: 041.50 PCT			Meth: 041.XX PCT		
<u>Total Phosphate</u>			<u>InDir Available Phos</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
481	12.73	-2.42	<u>Grav Quim</u>			503	13.18	-1.51	<u>ICP</u>			095	45.25 s	129.10
482	12.60	-2.75	504	13.48	.71	Meth: 041.10 PCT			377	13.58	.47	360	14.06	2.44
157	12.25 s	-4.22	Meth: 040.20 PCT			Dir Available Phosph			055	13.53	.33	233	13.79 R	1.67
300	11.55 s	-6.07	<u>InDir Available Phos</u>			<u>Grav Quimociac</u>			Avg	13.41		027	13.60 R	1.48
Meth: 030.10 PCT			<u>Spectrometri</u>			494	13.66	1.43	043	13.40	-.05	023	13.84	1.48
<u>Insoluble Phosphate</u>			504	13.53	1.24	485	13.63	1.27	423	13.36	-.19	018	13.80	1.33
<u>Grav Quimociac</u>			Avg	13.33		040	13.60	1.03	393	13.23	-.52	029	13.74	1.09
504	0.01	.71	405	13.27	-.34	105	13.54	.58	354	13.11	-.87	034	13.73	1.06
Meth: 030.20 PCT			503	13.18	-.92	Meth: 040.40 PCT			007	12.95	-1.33	486	13.59 R	.91
<u>Insoluble Phosphate</u>			Meth: 040.40 PCT			<u>InDir Available Phos</u>			325	12.90	-1.46	105	13.69	.87
<u>Spectrometric</u>			<u>Automated</u>			<u>Automated</u>			501	11.87 S	-4.39	231	13.68	.85
405	0.08	.98	247	13.58	.60	504	13.44	-.33	Meth: 041.60 PCT			494	13.66	.76
503	0.05	.24	Avg	13.50		185	13.35	-.71	<u>Dir Available Phosph</u>			073	13.64	.76
Avg	0.04		096	13.42	-1.07	041	13.33 X	-.85	<u>EDTA Extract</u>			485	13.63	.66
504	0.00	-1.21	Meth: 040.50 PCT			Meth: 041.20 PCT			233	13.79 R	2.52	105	13.63	.62
Meth: 030.40 PCT			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			018	13.80	1.65	368	13.61 X	.54
<u>Insoluble Phosphate</u>			<u>ICP</u>			<u>Spectrometric</u>			029	13.74	1.21	040	13.60	.52
<u>Automated</u>			096	0.06	.00	504	13.14	-.71	034	13.73	1.16	377	13.58	.45
Meth: 030.50 PCT			Meth: 040.99 PCT			Meth: 041.40 PCT			024	13.55	-.25	037	13.54	.37
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			231	13.68	.75	024	13.55	.32
<u>ICP</u>			<u>Other</u>			<u>Automated</u>			073	13.64	.75	494	13.51	.30
247	0.06	.71	275	13.41	.71	095	45.25 S	110.08	105	13.63	.33	055	13.53	.26
Meth: 030.XX PCT			Meth: 040.XX PCT			Meth: 041.50 PCT			Avg	13.58		105	13.54	.26
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			024	13.55	-.25	Avg	13.47	
405	0.08	1.16	247	13.70	1.39	<u>Automated</u>			037	13.54	-.55	177	13.46	-.08
096	0.06	.65	247	13.58	.73	Meth: 041.50 PCT			177	13.46	-.91	177	13.46	-.10
247	0.06	.51	504	13.53	.44	<u>ICP</u>			136	13.46	-.96	043	13.45	-.13
503	0.05	.31	504	13.48	.20	Meth: 041.50 PCT			043	13.45	-1.03	472	13.44	-.15
Avg	0.04		Avg	13.45		<u>Dir Available Phosph</u>			472	13.44	-1.10	136	13.46	-.17
504	0.01	-1.22	096	13.42	-.72	<u>ICP</u>			397	13.45	-1.17	504	13.44	-.24
504	0.00	-1.38	405	13.27	-1.00	Meth: 041.50 PCT			Meth: 041.99 PCT			043	13.40	-.30
Meth: 030.50 PCT			275	13.41 R	-1.29	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			049	13.46	-.31
<u>Insoluble Phosphate</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			397	13.45	-.32
<u>ICP</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			423	13.36	-.48
<u>Automated</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			185	13.35	-.50
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			041	13.33 X	-.58
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			102	13.30	-.70
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			393	13.23	-.98

\* 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			Meth: 048.XX PCT			Meth: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.99 PCT		
<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
055	13.22	-1.04	504	11.59	-.47	<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>			<u>Other</u>		
504	13.14	-1.36	504	11.55	-.59	426	15.71 s	5.33	095	13.93	1.96	042	13.23 R	-.73
354	13.11	-1.48	247	11.52	-.66	406	14.07	1.94	029	13.64	1.14	500	12.86	-.78
230	13.00	-1.96	393	11.31	-1.32	324	13.45	.72	456	13.36	.37	402	12.79	-.91
007	12.95	-2.13	Meth: 050.00 PCT			420	13.30	.46	035	13.29	.16	027	12.86	-.94
325	12.90	-2.32	<u>Soluble Potash</u>			416	13.30	.33	Avg	13.23		482	12.70	-1.08
501	11.87 s	-6.51	<u>STPB Oxalate</u>			Avg	13.14		024	13.21	-.23	451	12.68	-1.13
Meth: 048.10 PCT			102	14.50	2.15	292	12.91	-.49	037	12.97	-.75	501	12.44	-1.56
<u>Water Soluble Phosph</u>			489	14.20	1.59	397	12.78	-.76	034	12.94	-.83	325	12.25	-1.93
<u>Grav Quimociac</u>			230	13.55 R	.76	055	12.72	-.87	105	12.92	-.88	025	10.85 s	-4.51
504	11.55	.71	049	13.35 R	.44	354	12.58	-1.15	041	12.86 X	-1.06	Meth: 050.XX PCT		
Meth: 048.20 PCT			Avg	13.34		Meth: 050.51 PCT			494	12.79 R	-1.38	<u>Soluble Potash</u>		
<u>Water Soluble Phosph</u>			055	13.27	-.14	<u>Soluble Potash</u>			018	11.90 s	-3.75	157	19.25 s	11.72
<u>Spectrometric</u>			090	13.23	-.23	<u>ICP (Citrate)</u>			Meth: 050.99 PCT			426	15.71 s	4.84
503	12.19	.99	231	13.19	-.29	023	14.28	1.75	<u>Soluble Potash</u>			309	14.64 A	2.76
420	12.13	.74	211	13.11	-.43	393	14.10	1.41	<u>Other</u>			102	14.50	2.46
Avg	11.93		494	13.11	-.43	291	13.68	.62	486	14.34	1.98	486	14.34	2.17
096	11.83	-.41	405	13.08	-.49	377	13.45	.35	506	14.15	1.62	023	14.28	2.03
504	11.59	-1.34	470	12.91	-.81	Avg	13.34		503	14.12	1.54	489	14.20	1.87
Meth: 048.50 PCT			258	12.84	-.96	043	13.20	-.31	300	13.98	1.31	506	14.15	1.80
<u>Water Soluble Phosph</u>			Meth: 050.30 PCT			483	13.31	-.34	322	13.94	1.23	503	14.12	1.71
<u>ICP</u>			<u>Soluble Potash</u>			485	13.01	-.64	487	13.77	.93	393	14.10	1.67
393	11.31	.71	<u>AA (Oxalate)</u>			096	12.89	-.94	368	13.48 X	.73	406	14.07	1.64
Meth: 048.99 PCT			157	19.25 S	42.67	423	12.80	-1.04	450	13.60	.70	300	13.98	1.46
<u>Water Soluble Phosph</u>			040	13.25	1.21	007	12.75	-1.15	307	13.35	.65	322	13.94	1.38
<u>Other</u>			Avg	13.17		Meth: 050.60 PCT			474	13.39	.36	095	13.93	1.36
247	11.52	.71	185	13.13	-.33	<u>Soluble Potash</u>			275	13.31	.25	472	13.91	1.33
Meth: 048.XX PCT			356	13.12	-.96	<u>Flame (Oxalate)</u>			360	13.29	.16	487	13.77	1.07
<u>Water Soluble Phosph</u>			Meth: 050.31 PCT			309	14.64	1.84	389	13.36	.15	230	13.55 R	.92
503	12.19	1.45	<u>Soluble Potash</u>			Avg	13.32		177	13.31	.12	291	13.68	.86
420	12.13	1.25	<u>AA (Citrate)</u>			169	13.20	-.17	Avg	13.28		368	13.48 R	.82
096	11.83	.30	472	13.91	.71	470	13.03	-.40	234	13.16	-.24	450	13.60	.81
Avg	11.73					443	12.99	-.53	481	13.26	-.30	029	13.64	.79
						105	12.74	-.80	247	13.11	-.33	307	13.35 R	.71
									504	13.09	-.39	324	13.45	.51
									043	13.04	-.46	377	13.45	.51
									105	13.02	-.49	049	13.35	.50

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.99 PCT			Meth: 101.30 PCT			Meth: 121.00 PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
474	13.39	.43	041	12.86 X	-.74	<u>Other</u>			<u>ICP</u>			<u>AA</u>		
483	13.31	.38	042	13.23 R	-.76	247	0.37	.71	474	0.66	-.40	504	2.27	.65
420	13.30	.32	096	12.89	-.79	Meth: 060.XX PCT			420	0.65	-.46	105	2.21	.29
481	13.26	.32	258	12.84	-.80	<u>Free Water</u>			389	0.64	-.83	Avg	2.15	
040	13.25	.29	423	12.80	-.87	503	3.10 s	23.19	494	0.64	-.98	043	2.10	-.31
275	13.31	.29	402	12.79	-.87	096	0.88 R	3.63	482	0.63	-1.29	169	2.09	-.40
456	13.36	.25	397	12.78	-.91	489	0.72	2.01	503	0.61	-1.71	485	2.08	-.43
389	13.36	.24	027	12.86	-.92	504	0.54	.37	Meth: 101.XX PCT			040	2.06	-.53
360	13.29	.19	494	12.79	-.97	456	0.50	.27	<u>Acid Soluble Calcium</u>			258	1.96	-1.10
177	13.31	.19	105	12.74	-.98	Avg	0.49		393	0.85 s	4.30	481	1.96	-1.22
416	13.30	.13	007	12.75	-.99	007	0.49	-.09	105	0.74	2.05	Meth: 121.30 PCT		
035	13.29	.11	055	12.72	-1.02	416	0.46	-.36	035	0.68 R	1.35	<u>Acid Soluble Magnesi</u>		
055	13.27	.07	482	12.70	-1.04	474	0.39	-.92	354	0.70	1.22	<u>ICP</u>		
Avg	13.24		451	12.68	-1.09	247	0.37	-1.12	324	0.70	.98	486	2.48	2.44
090	13.23	-.09	354	12.58	-1.28	Meth: 101.00 PCT			307	0.70	.84	426	2.42	2.16
169	13.20	-.09	501	12.44	-1.56	<u>Acid Soluble Calcium</u>			041	0.70 X	.81	483	2.40	1.99
231	13.19	-.11	325	12.25	-1.94	<u>AA</u>			049	0.69	.59	027	2.31 R	1.92
043	13.20	-.15	018	11.90	-2.61	105	0.74	.91	423	0.69	.49	472	2.36	1.72
024	13.21	-.16	025	10.85 s	-4.65	Avg	0.66		096	0.69	.44	136	2.29	1.28
234	13.16	-.17	Meth: 060.00 PCT			504	0.59	-.82	Avg	0.67		041	2.17 R	1.08
185	13.13	-.22	<u>Free Water</u>			Meth: 101.30 PCT			247	0.67	-.12	231	2.25	1.02
211	13.11	-.25	<u>Vacuum Oven</u>			<u>Acid Soluble Calcium</u>			102	0.66	-.18	450	2.12	.60
494	13.11	-.25	503	3.10 S	21.85	<u>ICP</u>			474	0.66	-.30	420	2.18	.60
247	13.11	-.26	096	0.88 R	3.31	393	0.85 s	5.61	420	0.65	-.35	368	2.16 X	.55
405	13.08	-.31	489	0.72	1.77	035	0.68 R	1.76	389	0.64	-.63	049	2.14	.34
504	13.09	-.33	Avg	0.51		354	0.70	1.59	494	0.64	-.74	090	2.10	.16
356	13.12	-.34	007	0.49	-.22	324	0.70	1.28	482	0.63	-.98	177	2.09	.08
043	13.04	-.39	456	0.50	-.27	307	0.70	1.09	503	0.61	-1.30	Avg	2.09	
470	13.03	-.41	416	0.46	-.47	041	0.70 X	1.06	504	0.59	-1.95	393	2.06	-.18
105	13.02	-.42	474	0.39	-1.02	049	0.69	.77	Meth: 121.00 PCT			423	2.06	-.21
485	13.01	-.45	Meth: 060.20 PCT			423	0.69	.63	<u>Acid Soluble Magnesi</u>			307	2.06	-.23
037	12.97	-.52	<u>Free Water</u>			096	0.69	.57	<u>AA</u>			371	2.05	-.28
034	12.94	-.58	<u>Karl Fischer</u>			Avg	0.67		506	2.99 S	4.68	360	2.05	-.31
105	12.92	-.62	504	0.54	.71	247	0.67	-.16	157	2.55	2.24	482	2.03	-.39
443	12.99	-.63				102	0.66	-.24	309	2.44 R	1.90	096	2.02	-.46
470	12.91	-.64							029	2.28	.75	324	2.05	-.50
292	12.91	-.65										095	2.00	-.63
500	12.86	-.73												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT			Meth: 144.01 PCT			Meth: 144.99 PCT		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>			<u>Sulfur</u>		
<u>ICP</u>									<u>Gravimetric</u>			<u>Other</u>		
433	1.98	-.68	136	2.29	1.05	474	1.93	-1.08	043	12.56	1.91	231	11.79	.40
389	1.98	-.71	029	2.28	1.01	354	1.91	-1.17	485	12.36	.98	351	11.80	.40
501	1.98	-.72	041	2.17 R	.94	230	1.38 s	-4.28	397	12.28	.63	102	11.61	.13
291	1.96	-.83	504	2.27	.92	503	1.30 s	-4.69	504	12.24	.44	247	11.63	.12
055	1.96	-.84	231	2.25	.81	494	0.12 s	-11.56	095	12.21	.25	177	11.65	.10
035	1.95	-.86	105	2.21	.55	023	0.07 s	-11.89	489	12.20	.22	Avg 11.60		
102	1.95	-.89	450	2.12	.53	Meth: 131.00 PCT			Avg	12.15		023	11.51	-.19
397	1.95	-1.01	420	2.18	.42	Water Soluble Magnes			102	12.06	-.47	423	11.51	-.19
474	1.93	-1.02	368	2.16 X	.41	<u>AA</u>			324	12.05	-.54	029	11.60	-.25
247	1.93	-1.02	049	2.14	.18	506			040	12.00	-.72	275	11.46	-.33
354	1.91	-1.12	Avg	2.11		1.49			405	11.99	-.78	450	11.34	-.53
230	1.38 s	-4.48	043	2.10	-.09	.71			029	11.76	-1.88	096	11.45	-.58
503	1.30 s	-4.93	177	2.09	-.13	Meth: 131.30 PCT			157	11.65 R	-2.90	389	11.33	-.59
494	0.12 s	-12.37	090	2.10	-.17	Water Soluble Magnes			481	10.81 s	-6.35	482	11.50 R	-.81
023	0.07 s	-12.72	169	2.09	-.18	<u>ICP</u>			Meth: 144.02 PCT			307	11.19	-.85
			485	2.08	-.22	275			157	11.00	-1.18	157	11.00	-1.18
			489	2.06	-.30	1.96			<u>Sulfur</u>			472	11.00	-1.18
			040	2.06	-.30	1.84			<u>Gravimetric</u>			501	10.92	-1.34
			393	2.06	-.30	1.72 X			292			486	10.46	-2.25
			423	2.06	-.32	1.65			11.91			503	7.85 s	-7.36
			307	2.06	-.34	Avg			-.71			230	5.31 s	-12.34
			371	2.05	-.39	231			Meth: 144.70 PCT					
			360	2.05	-.41	1.57			<u>Sulfur</u>					
			482	2.03	-.50	393			<u>Spectrometric</u>			Meth: 144.XX PCT		
			324	2.05	-.54	1.11			474			<u>Sulfur</u>		
			096	2.02	-.56	Meth: 131.XX PCT			12.42			055		
			095	2.00	-.71	Water Soluble Magnes			.86			13.00		
			433	1.98	-.77	275			11.45			2.15		
			389	1.98	-.79	1.96			10.49			1.55		
			501	1.98	-.81	1.84			Meth: 144.99 PCT			360		
			258	1.96	-.89	1.72 X			<u>Sulfur</u>			12.63		
			291	1.96	-.91	Avg			506			1.38		
			055	1.96	-.91	231			12.63			1.16		
			035	1.95	-.94	506			2.05			474		
			102	1.95	-.96	393			1.58			12.42		
			481	1.96	-1.03	Meth: 144.01 PCT			1.44			485		
			397	1.95	-1.05	Sulfur			1.10			12.36		
			247	1.93	-1.08	<u>Gravimetric</u>			.92			1.04		
						055			483			1.01		
						13.00 s			12.16			1.04		
						4.01			.67			1.04		
									049			1.04		
									11.87			1.04		
									.52			1.04		

\* 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.XX PCT			Meth: 151.30 PPM			Meth: 165.00 PCT			Meth: 165.99 PCT			Meth: 165.XX PCT				
<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>				
102	12.06	.52	ICP			Spectrometric			Other			393	0.104	-1.56		
324	12.05	.52	368	8.45 X	1.87	055	0.123	-.37	230	0.094	-2.10	503	0.095	-2.09		
040	12.00	.42	247	7.35	.99	258	0.115	-1.12	042	0.090	-2.30	230	0.094	-2.19		
405	11.99	.41	095	7.00	.66	506	0.115	-1.20	397	0.060 S	-3.97	042	0.090	-2.41		
368	11.88 X	.41	393	6.52	.26	Meth: 165.70 PCT			Meth: 165.XX PCT			397	0.060 s	-4.20		
292	11.91	.28	450	6.35	.13	<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>			Meth: 171.00 PCT				
049	11.87	.20	102	6.26	.08	<u>Titrimetric</u>			489			0.195 s	3.87	Water Soluble Boron		
231	11.79	.17	Avg	6.20		504	0.145	-.71	483	0.152	1.29	<u>AA</u>				
351	11.80	.13	096	5.50	-.67	Meth: 165.99 PCT			136	0.150	1.17	027	0.132	.71		
Avg	11.76		230	5.25	-.79	<u>Acid Soluble Boron</u>			231	0.150	1.17	Meth: 181.00 PPM				
029	11.76	-.01	486	5.04	-.98	<u>Other</u>			433	0.148	1.08	Cadmium				
177	11.65	-.18	481	4.30	-1.58	483	0.152	1.15	307	0.147	.99	<u>Atomic Absorption</u>				
247	11.63	-.24	474	1.00 s	-4.29	231	0.150	1.03	504	0.145	.92	506	3.77	.71		
102	11.61	-.28	Meth: 151.XX PPM			136	0.150	1.03	389	0.145	.84	Meth: 181.30 PPM				
029	11.60	-.35	<u>Arsenic</u>			433	0.148	.95	043	0.144	.82	Cadmium				
023	11.51	-.42	368	8.45 X	1.50	307	0.147	.87	090	0.144	.81	<u>ICP</u>				
423	11.51	-.43	247	7.35	.95	368	0.145 X	.81	023	0.138	.46	095	4.50 R	1.59		
275	11.46	-.53	095	7.00	.75	389	0.145	.73	360	0.137	.43	035	4.23	1.06		
157	11.65 R	-.63	450	6.35	.42	043	0.144	.70	049	0.135	.41	368	4.30 X	.92		
096	11.45	-.68	393	6.52	.51	090	0.144	.70	095	0.135	.41	102	4.22	.77		
450	11.34	-.72	450	6.35	.42	023	0.138	.37	040	0.136	.32	247	4.20	.75		
389	11.33	-.77	102	6.26	.38	360	0.137	.35	029	0.135	.25	450	4.15	.70		
482	11.50 R	-.82	Avg	5.53		049	0.135	.34	472	0.132	.15	482	4.15	.70		
307	11.19	-1.00	230	5.25	-.14	040	0.136	.24	354	0.131	.15	393	4.00	.36		
157	11.00	-1.30	096	5.50	-.21	472	0.132	.12	Avg	0.130		Avg	3.81			
472	11.00	-1.30	486	5.04	-.27	Avg	0.131		481	0.130	-.02	096	3.45	-.67		
501	10.92	-1.44	481	4.30	-.64	501	0.130	-.08	423	0.128	-.13	389	3.50 R	-1.10		
481	10.81	-1.63	506	3.30	-1.14	354	0.131	.15	105	0.125	-.44	486	3.13	-1.26		
506	10.49	-2.19	474	1.00	-2.32	482	0.128	-.18	482	0.125	-.44	230	3.06	-1.40		
486	10.46	-2.23	Meth: 165.00 PCT			486	0.125	-.45	291	0.125	-.44	474	3.00	-1.51		
503	7.85 s	-6.73	<u>Acid Soluble Boron</u>			482	0.125	-.45	486	0.125	-.44	Meth: 181.99 PPM				
230	5.31 s	-11.11	<u>Spectrometric</u>			291	0.125	-.45	055	0.123	-.47	Cadmium				
Meth: 151.00 PPM			489	0.195 S	8.60	324	0.125 R	-.57	324	0.125 R	-.57	<u>Other</u>				
Arsenic			029	0.135	1.30	393	0.104	-1.51	258	0.115	-.95	487	3.45	-.71		
<u>Atomic Absorption</u>			481	0.130	.76	503	0.095	-2.00	506	0.115	-.96					
506	3.30	.00	105	0.125	.62											
			Avg	0.124												

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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: 181.XX PPM</u>			<u>Meth: 191.00 PPM</u>			<u>Meth: 202.00 PPM</u>			<u>Meth: 221.00 PCT</u>			<u>Meth: 221.XX PCT</u>		
<u>Cadmium</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
095	4.50 R	1.75	<u>Atomic Absorption</u>			<u>AA</u>			<u>Atomic Absorption</u>			482	0.0100	3.04
035	4.23	1.18	481	91.00	-.49	481	10.50	.71	481	0.0086 S	5.06	481	0.0086 s	2.51
368	4.30 X	1.04	<u>Meth: 191.30 PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Avg</u>			450	0.0074 R	1.34
102	4.22	.88	<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>043</u>			324	0.0080	1.19
247	4.20	.86	<u>ICP</u>			<u>ICP</u>			<u>105</u>			433	0.0080	1.08
450	4.15	.80	096	99.75	1.58	096	21.42	1.21	<u>Meth: 221.30 PCT</u>			423	0.0079	.95
482	4.15	.80	035	98.10 R	1.54	494	20.73	1.10	<u>Acid Soluble Copper</u>			402	0.0075	.75
393	4.00	.44	368	90.80 X	.85	095	20.50	1.03	<u>ICP</u>			049	0.0075	.75
Avg	3.78		389	88.50	.73	450	20.35	.99	482	0.0100	2.84	095	0.0075	.63
506	3.77	-.09	102	88.47	.63	035	15.45 R	.46	450	0.0074 R	1.26	504	0.0072	.22
096	3.45	-.66	450	88.00	.59	389	17.50	.45	324	0.0080	1.08	368	0.0071 X	.14
487	3.45	-.72	393	86.10	.43	393	16.03	.15	433	0.0080	.96	393	0.0071	.11
389	3.50 R	-1.14	Avg	80.96		Avg	15.28		423	0.0079	.84	102	0.0070	.06
486	3.13	-1.29	482	80.60	-.14	482	15.25	-.30	041	0.0075 X	.66	Avg	0.0069	
230	3.06	-1.43	230	70.95	-.84	230	12.65	-.52	402	0.0075	.66	247	0.0068	-.15
474	3.00	-1.55	027	70.19	-.93	368	12.95 X	-.58	049	0.0075	.66	035	0.0068	-.31
<u>Meth: 190.00 PCT</u>			486	63.70	-1.44	049	11.18	-.81	095	0.0075	.54	474	0.0066	-.41
<u>Water Soluble Chlori</u>			474	63.50	-1.46	102	9.80	-1.08	368	0.0071 X	.06	096	0.0065	-.45
<u>Titrimetric</u>			<u>Meth: 191.XX PPM</u>			<u>Meth: 202.XX PPM</u>			393	0.0071	.04	389	0.0066	-.46
504	7.63	.71	<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			Avg	0.0070		043	0.0068	-.48
<u>Meth: 190.99 PCT</u>			096	99.75	1.45	<u>Acid Soluble Cobalt</u>			102	0.0070	-.01	105	0.0065	-.66
<u>Water Soluble Chlori</u>			035	98.10 R	1.43	096	21.42	1.29	247	0.0068	-.21	494	0.0062	-.79
<u>Other</u>			506	93.80	.99	494	20.73	1.18	035	0.0068	-.34	354	0.0060	-.93
503	0.38	.71	368	90.80 X	.72	095	20.50	1.11	474	0.0066	-.46	472	0.0060	-.93
<u>Meth: 190.XX PCT</u>			481	91.00	.71	450	20.35	1.07	096	0.0065	-.50	487	0.0058	-1.12
<u>Water Soluble Chlori</u>			389	88.50	.62	389	17.50	.52	389	0.0066	-.50	503	0.0058	-1.13
504	7.63	.87	102	88.47	.49	035	15.45 R	.48	494	0.0062	-.82	230	0.0051	-1.83
Avg	4.00		450	88.00	.45	482	15.25	.31	354	0.0060	-.96	<u>Meth: 241.00 PCT</u>		
503	0.38	-.87	393	86.10	.29	393	16.03	.22	472	0.0060	-.96	<u>Acid Soluble Iron</u>		
<u>Meth: 191.00 PPM</u>			Avg	82.72		Avg	14.91		503	0.0058	-1.15	<u>Atomic Absorption</u>		
<u>Chromium</u>			482	80.60	-.22	230	12.65	-.45	230	0.0051	-1.82	029	0.47	1.76
<u>Atomic Absorption</u>			230	70.95	-1.00	368	12.95 X	-.53	<u>Meth: 221.99 PCT</u>			485	0.44	.76
506	93.80	1.12	027	70.19	-1.09	049	11.18	-.74	<u>Acid Soluble Copper</u>			105	0.44	.32
Avg	92.40		486	63.70	-1.61	481	10.50	-.88	<u>Other</u>			169	0.43	.26
			474	63.50	-1.63	102	9.80	-1.01				Avg	0.43	
						474	5.00	-1.96				351	0.42	-.64

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.00 PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.00 PPM			Meth: 251.XX PPM		
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Iron			Lead			Lead		
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>		
040	0.42	-.85	389	0.40	-.54	360	0.43	.57	506	13.25	.98	487	17.80	.39
506	0.43	-.97	291	0.40	-.62	090	0.43	.55	Avg	12.40		474	17.00	.34
043	0.41	-1.25	307	0.39	-.63	351	0.42	.49	481	11.55	-.74	393	17.12	.11
356	0.24 S	-9.21	023	0.39	-.72	482	0.43	.46	Avg	16.78		096	15.20	-.56
481	0.14 S	-14.37	354	0.39	-.74	234	0.43	.46	Meth: 251.30 PPM			506	13.25	-1.19
			055	0.41	-.77	371	0.42	.39	Lead			230	13.00	-1.24
			486	0.39	-.99	420	0.42	.38	<u>ICP</u>			486	12.35	-1.47
Meth: 241.30 PCT			247			102			482			481		
Acid Soluble Iron			474			040			368			11.55		
<u>ICP</u>			397			096			20.95			-1.72		
503	0.55 s	8.58	230	0.29 s	-4.51	423	0.41	-.15	035	19.65 R	1.18	Meth: 261.00 PCT		
324	0.51 s	3.73	450	0.30 s	-4.53	043	0.41	-.27	389	19.50	.78	Acid Soluble Mangane		
027	0.42 R	2.71	Meth: 241.99 PCT			177	0.41	-.33	247	19.00	.57	<u>AA</u>		
041	0.46 R	1.97	Acid Soluble Iron			095	0.41	-.41	095	18.50	.43	029		
483	0.45	1.62	<u>Other</u>			042	0.41	-.31	450	17.85	.28	485		
426	0.45	1.42	501			042	0.25 S	-21.22	049	17.81	.26	043		
368	0.44 X	1.38	503			042	0.25 S	-21.22	Avg	17.42		351		
136	0.45	1.35	503			042	0.25 S	-21.22	Avg	17.12	-.11	506		
433	0.44	1.29	324			042	0.25 S	-21.22	393	17.12	-.11	169		
494	0.43	1.09	027			042	0.25 S	-21.22	474	17.00	-.39	Avg		
360	0.43	.71	029			042	0.25 S	-21.22	096	15.20	-.84	0444		
090	0.43	.69	041			042	0.25 S	-21.22	230	13.00	-1.61	258		
482	0.43	.60	483			042	0.25 S	-21.22	486	12.35	-1.86	481		
234	0.43	.60	426			042	0.25 S	-21.22	Meth: 251.99 PPM			Meth: 261.11 PCT		
371	0.42	.54	368			042	0.25 S	-21.22	Lead			Acid Soluble Mangane		
420	0.42	.53	136			042	0.25 S	-21.22	<u>Other</u>			<u>AA</u>		
231	0.42	.38	485			042	0.25 S	-21.22	487			040		
102	0.42	.33	433			042	0.25 S	-21.22	Meth: 251.XX PPM			105		
096	0.42	.27	506			042	0.25 S	-21.22	Lead			Avg		
Avg	0.41		494			042	0.25 S	-21.22	482			356		
049	0.41	-.01	105			042	0.25 S	-21.22	20.95			0.332 X		
423	0.41	-.13	169			042	0.25 S	-21.22	12.40			-1.29		
177	0.41	-.18				042	0.25 S	-21.22	20.80 X			Meth: 261.30 PCT		
157	0.40	-.36				042	0.25 S	-21.22	19.65 R			Acid Soluble Mangane		
035	0.40	-.36				042	0.25 S	-21.22	19.50			<u>ICP</u>		
095	0.41	-.39				042	0.25 S	-21.22	247			503		
402	0.40	-.40				042	0.25 S	-21.22	19.00			027		
393	0.40	-.47				042	0.25 S	-21.22	095			486		
						042	0.25 S	-21.22	18.50			501		
						042	0.25 S	-21.22	17.85			027		
						042	0.25 S	-21.22	17.81			486		
						042	0.25 S	-21.22				0505		
						042	0.25 S	-21.22				1.90		
						042	0.25 S	-21.22				1.74		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index				
Meth: 261.30 PCT			Meth: 261.31 PCT			Meth: 261.XX PCT			Meth: 271.30 PCT			Meth: 281.XX PPM						
Acid Soluble Manganese			Acid Soluble Manganese			Acid Soluble Manganese			Water Soluble Manganese			Mercury						
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>						
450	0.485 R	1.68	Avg	0.470		040	0.453	.22	368	1.570 S	118.90	450	0.02	-.70				
482	0.495	1.65	230	0.229 S	-18.94	105	0.450	.17	231	0.040	.87	Meth: 289.30 PPM						
426	0.496	1.61	Meth: 261.99 PCT			177	0.451	.08	Avg	0.035		Molybdenum						
136	0.480	1.15	Acid Soluble Manganese			Avg	0.449		230	0.030	-.87	<u>ICP</u>						
494	0.464	.86	Other			433	0.447	-.07	Meth: 271.99 PCT			095	8.00	1.32				
368	0.465 X	.79	042	0.510	1.28	169	0.449	-.11	Water Soluble Manganese			368	7.80 X	1.22				
096	0.445	.60	Avg	0.494		360	0.445	-.19	<u>Other</u>			433	7.63	1.00				
090	0.463	.55	423	0.486	-.54	472	0.443	-.20	247			0.020	.00	035	7.06 R	.90		
420	0.462	.55	483	0.486	-.75	291	0.440	-.41	Meth: 271.XX PCT			450	7.35	.76				
231	0.460	.47	Meth: 261.XX PCT			095	0.435	-.45	Water Soluble Manganese			102	6.75	.40				
055	0.445	.47	Acid Soluble Manganese			055	0.445	-.47	<u>Other</u>			247	6.65	.34				
402	0.457	.39	503	0.450 s	5.36	389	0.430	-.58	368			1.570 s	37.97	494	6.59	.22		
102	0.454	.38	027	0.496 R	2.11	096	0.445	-.59	027			0.115	1.81	Avg	6.46			
177	0.451	.20	042	0.510	1.90	035	0.429	-.61	Avg			0.043		393	6.36	-.08		
023	0.451	.19	486	0.505	1.73	049	0.425	-.74	231			0.040	-.26	096	5.85	-.52		
360	0.445	.16	501	0.500	1.57	247	0.425	-.74	230			0.030	-.41	230	5.06	-1.20		
433	0.447	.06	450	0.485 R	1.54	041	0.420 X	-.88	247			0.020	-.57	486	4.95	-1.29		
Avg	0.445		482	0.495	1.49	258	0.420	-.91	506			0.010	-.82	474	4.50	-1.73		
472	0.443	-.11	426	0.496	1.45	307	0.417	-1.00	Meth: 281.00 PPM			Meth: 291.00 PPM						
095	0.435	-.35	029	0.490	1.27	157	0.415	-1.03	Mercury			Nickel						
291	0.440	-.35	483	0.486	1.15	393	0.414	-1.06	<u>Atomic Absorption</u>			<u>Atomic Absorption</u>						
389	0.430	-.48	423	0.486	1.13	354	0.397	-1.62	506			12.50	.71	506	34.35	1.16		
035	0.429	-.51	136	0.480	1.00	397	0.386	-1.95	Meth: 281.30 PPM			Avg			33.93			
049	0.425	-.65	494	0.464	.76	474	0.381	-2.09	Mercury			481			33.50	-.40		
247	0.425	-.65	324	0.470	.71	481	0.370	-2.41	<u>ICP</u>			Meth: 291.30 PPM						
041	0.420 X	-.79	368	0.465 X	.68	356	0.332 A	-3.59	393			0.70	.87	Nickel				
307	0.417	-.91	420	0.462	.42	230	0.229 s	-6.73	Avg			0.36		<u>ICP</u>				
157	0.415	-.95	090	0.463	.42	Meth: 271.00 PCT			450			0.02	-.87	247			40.05	1.21
393	0.414	-.97	485	0.460	.40	Water Soluble Manganese			Meth: 281.XX PPM			035			37.60 R	.99		
354	0.397	-1.56	043	0.458	.35	<u>Atomic Abs</u>			<u>Mercury</u>			096			38.75	.99		
397	0.386	-1.89	231	0.460	.34	027	0.115	.87	506			12.50	1.29	102			37.90	.92
474	0.381	-2.04	506	0.450	.31	Avg	0.062		Avg			4.41		389			37.50	.76
Meth: 261.31 PCT			102	0.454	.30	506	0.010	-.86	Meth: 281.XX PPM			368			37.10 X	.71		
Acid Soluble Manganese			351	0.455	.29	Meth: 271.00 PCT			506			12.50	1.29	095			37.00	.67
<u>ICP</u>			402	0.457	.27	Water Soluble Manganese			Avg			0.70	-.59	049			34.10	.30
324	0.470	.71				<u>Atomic Abs</u>			393			0.70	-.59					

\* 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: 291.30 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 311.XX PCT Sodium			Meth: 321.30 PCT Acid Soluble Zinc			Meth: 321.XX PCT Acid Soluble Zinc			
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			
393	34.61	.24	368	3.80 X	1.46	474	0.36	.44	368	0.228 X	.65	426	0.544 s	13.37	
450	33.50	.10	393	2.24	.22	423	0.35	.41	483	0.233	.61	481	0.500 s	11.40	
Avg	33.24		Avg	1.96		Avg	0.35		371	0.231	.53	096	0.261 R	2.03	
230	33.00	-.25	095	1.00	-.73	102	0.35	-.06	393	0.229	.44	324	0.267	1.93	
482	29.50	-.68	230	0.78	-.90	503	0.34	-1.34	231	0.225	.36	482	0.255	1.55	
027	25.36	-1.40	Meth: 301.XX PPM Selenium			482	0.34	-1.46	474	0.219	.33	472	0.252	1.54	
474	24.00	-1.65	368	3.80 R	3.50	494	0.34 R	-2.47	023	0.224	.29	450	0.231 R	1.47	
486	23.05	-1.81	393	2.24	1.10	Meth: 321.00 PCT Acid Soluble Zinc			360	0.220	.18	506	0.255	1.44	
Meth: 291.XX PPM Nickel			506	2.00	.74	<u>Atomic Absorption</u>			486	0.220	.15	402	0.250	1.25	
247	40.05	1.27	Avg	1.51		506	0.255	1.42	433	0.219	.13	136	0.250	1.22	
035	37.60 R	1.05	095	1.00	-.75	040	0.248	1.09	Avg	0.216		292	0.245	1.19	
096	38.75	1.04	230	0.78	-1.09	504	0.245	.96	102	0.215	-.10	040	0.248	1.15	
102	37.90	.97	Meth: 311.30 PCT Sodium			356	0.236 X	.66	423	0.213	-.18	504	0.245	1.04	
389	37.50	.80	<u>Flame Photometric</u>			485	0.232	.31	177	0.213	-.33	090	0.243	1.03	
368	37.10 X	.74	503	0.34	.71	Avg	0.225		389	0.207	-.34	356	0.236 X	.74	
095	37.00	.70	Meth: 311.99 PCT Sodium			169	0.216	-.47	041	0.210 X	-.39	368	0.228 X	.69	
506	34.35	.40	<u>Other</u>			029	0.214	-.53	095	0.210	-.39	483	0.233	.58	
049	34.10	.31	354	0.40 s	6.13	043	0.216	-.67	420	0.203	-.43	371	0.231	.49	
393	34.61	.24	096	0.36	.89	258	0.193	-1.51	494	0.212	-.50	485	0.232	.48	
481	33.50	.10	035	0.36	.83	Meth: 321.30 PCT Acid Soluble Zinc			049	0.195	-.72	393	0.229	.36	
450	33.50	.10	423	0.35 R	.28	<u>ICP</u>			035	0.194	-.75	231	0.225	.29	
Avg	33.33		474	0.36	.25	426	0.544 s	11.22	055	0.195	-.86	501	0.225	.29	
230	33.00	-.27	Avg	0.35		481	0.500 s	9.59	354	0.189	-.92	023	0.224	.20	
482	29.50	-.74	102	0.35	-.27	096	0.261 R	1.80	397	0.175	-1.39	360	0.220	.12	
027	25.36	-1.51	482	0.34	-1.70	324	0.267	1.74	027	0.152	-2.22	486	0.220	.00	
474	24.00	-1.78	494	0.34 s	-2.69	482	0.255	1.42	230	0.133	-2.80	Avg	0.220		
486	23.05	-1.95	Meth: 311.XX PCT Sodium			472	0.252	1.40	027	0.152	-2.22	433	0.219	-.07	
Meth: 301.00 PPM Selenium			<u>Atomic Absorption</u>			450	0.231 R	1.27	397	0.175	-1.39	169	0.216	-.23	
506	2.00	.00	354	0.40 s	6.21	402	0.250	1.18	027	0.152	-2.22	102	0.215	-.23	
Meth: 311.99 PCT Selenium			096	0.36	1.08	136	0.250	1.16	Meth: 321.99 PCT Acid Soluble Zinc	230	0.133	-2.80	029	0.214	-.24
Meth: 311.30 PCT Selenium			<u>Other</u>			292	0.245	1.11	Avg	0.220		042	0.215	-.28	
Meth: 311.99 PCT Selenium			<u>Other</u>			090	0.243	.98	042	0.215	-.87	423	0.213	-.34	
Meth: 311.30 PCT Selenium			<u>Other</u>			Meth: 321.30 PCT Acid Soluble Zinc			501	0.225	.87	474	0.219	-.39	
Meth: 311.30 PCT Selenium			<u>Other</u>			<u>ICP</u>			Avg	0.220		351	0.216	-.46	
Meth: 311.30 PCT Selenium			<u>Other</u>			<u>ICP</u>			042	0.215	-.87	177	0.213	-.46	
Meth: 311.30 PCT Selenium			<u>Other</u>			<u>ICP</u>			041	0.210 X	-.57	041	0.210 X	-.57	
Meth: 311.30 PCT Selenium			<u>Other</u>			<u>ICP</u>			095	0.210	-.57	389	0.207	-.57	

\* 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>
Meth: 321.XX PCT											
<u>Acid Soluble Zinc</u>											
494	0.212	-.66									
420	0.203	-.69									
043	0.198	-.91									
291	0.195	-1.03									
049	0.195	-1.03									
035	0.194	-1.07									
258	0.193	-1.10									
055	0.195	-1.18									
354	0.189	-1.28									
397	0.175	-1.85									
027	0.152	-2.85									
230	0.133 A	-3.55									
Meth: 325.00 PCT											
Water Soluble Zinc											
<u>Atomic Absorption</u>											
027	0.071	-.71									
Meth: 325.99 PCT											
Water Soluble Zinc											
<u>Other</u>											
356	0.236	.33									
Avg	0.233										
450	0.231 X	-1.18									
Meth: 325.XX PCT											
<u>Water Soluble Zinc</u>											
450	0.231 X	.72									
356	0.236	.66									
Avg	0.179										
027	0.071	-1.25									

\* 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	7	- 0.21	2.59	1.08	060.00	7	3.56	8.19	0.48
001.99	7	0.04	0.93	0.85	060.XX	9	2.95	7.72	0.45
001.XX	14	0.01	0.92	0.73	101.00	2	0.00	1.14	0.31
002.99	3	0.00	1.11	0.12	101.30	17	0.36	1.59	0.62
002.XX	3	0.00	1.11	0.12	101.XX	19	0.24	1.31	0.51
009.10	5	0.00	1.05	0.12	121.00	12	0.52	1.66	0.35
009.XX	6	0.00	1.04	0.09	121.30	38	- 0.86	3.13	0.34
010.11	6	- 0.66	5.79	0.56	121.XX	52	- 0.46	2.72	0.32
010.12	3	0.00	1.07	0.26	131.30	6	0.00	1.03	0.17
010.60	60	- 0.05	1.33	0.36	131.XX	7	0.00	1.02	0.17
010.99	5	0.00	0.00	0.00	144.01	14	- 0.34	2.33	0.46
010.XX	73	- 0.45	2.18	0.38	144.70	2	0.00	1.22	0.06
020.10	8	0.10	0.99	0.70	144.99	27	- 0.74	2.87	0.27
020.20	19	- 0.02	0.97	0.36	144.XX	41	- 0.41	2.23	0.23
020.40	8	- 1.49	4.21	1.02	151.30	11	- 0.39	1.61	0.17
020.50	15	0.23	1.73	0.64	151.XX	12	0.00	1.02	0.10
020.99	3	3.85	6.70	0.61	165.00	7	1.225	3.359	0.423
020.XX	48	0.11	2.10	0.61	165.99	27	- 0.160	1.226	0.168
030.20	3	0.00	1.11	0.08	165.XX	35	- 0.019	1.362	0.191
030.XX	5	0.26	0.92	0.12	181.30	13	0.06	0.99	0.43
040.20	3	0.00	1.10	0.14	181.XX	15	0.06	1.00	0.44
040.40	2	0.00	0.83	0.64	190.XX	2	0.00	1.22	0.00
040.XX	6	- 0.26	0.91	0.62	191.00	2	0.00	0.56	0.77
041.10	11	0.00	0.99	0.24	191.30	12	0.12	1.05	0.23
041.40	3	36.69	63.55	0.73	191.XX	14	0.09	1.02	0.24
041.50	13	- 0.30	1.54	0.20	202.30	13	0.00	0.97	0.20
041.60	14	0.11	1.02	0.60	202.XX	14	0.01	0.97	0.20
041.99	2	0.00	1.20	0.18	221.00	4	0.8693	1.8138	1.9473
041.XX	37	3.37	21.29	0.40	221.30	22	0.0153	0.9548	0.3650
048.20	4	0.00	1.07	0.10	221.XX	27	0.0769	0.9844	0.5171
048.XX	6	0.09	1.11	0.07	241.00	10	- 2.36	5.18	0.43
050.00	12	0.03	0.93	0.23	241.30	39	0.07	1.74	1.20
050.30	4	10.66	21.33	0.88	241.99	2	- 10.61	15.00	0.71
050.50	9	0.59	2.01	0.24	241.XX	51	- 0.43	2.49	1.05
050.51	10	0.00	1.00	0.22	251.00	2	0.00	1.04	0.46
050.60	5	0.00	1.04	0.19	251.30	13	0.06	0.98	0.32
050.61	11	- 0.45	1.47	0.24	251.XX	16	0.06	0.99	0.27
050.99	29	- 0.16	1.26	0.29	261.00	8	0.000	1.018	0.176
050.XX	75	0.25	1.85	0.28	261.11	3	0.000	1.114	0.077

## 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
261.30	35	0.086	0.989	1.021					
261.31	2	- 9.467	13.389	0.512					
261.99	3	0.000	0.946	0.486					
261.XX	51	- 0.152	1.436	0.826					
271.00	2	0.000	1.214	0.116					
271.30	3	39.634	68.648	0.775					
271.XX	6	6.327	15.527	0.203					
281.30	2	0.00	1.22	0.03					
281.XX	3	0.00	1.12	0.05					
289.30	13	0.04	0.96	0.30					
289.XX	13	0.04	0.96	0.30					
291.00	2	0.00	0.37	0.83					
291.30	15	0.05	0.99	0.23					
291.XX	17	0.05	0.98	0.25					
301.30	4	0.00	1.06	0.19					
301.XX	5	0.68	1.79	0.34					
311.99	8	0.45	2.43	0.91					
311.XX	9	0.42	2.32	0.84					
321.00	10	0.000	0.990	0.262					
321.30	37	0.613	2.541	0.491					
321.99	2	0.000	0.866	0.612					
321.XX	49	0.472	2.687	0.526					
325.99	2	0.000	0.105	0.863					
325.XX	2	- 0.299	1.340	0.077					