

- Pass 1 Results for 78 Labs - - Pass 2 Results for 78 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	2	14.43	0.45	0.04	2	14.43	0.45	0.04
Ammoniacal Nitrogen, Other		001.99	3	15.47	0.66	0.03	3	15.47	0.66	0.03
Method Group 001.XX PCT			5	15.05	0.77	0.03	5	15.05	0.77	0.03
Nitrate Nitrogen, Other		002.99	1	1.25	0.01	0.01	1	1.25	0.01	0.01
Water Insoluble Nitrogen, Other		003.99	1	0.75	0.01	0.02	1	0.75	0.01	0.02
Ammon & Nitrate N, Devarda	892.01	009.10	3	16.01	0.28	0.32	3	16.01	0.28	0.32
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	16.09	0.17	0.03	4	16.09	0.17	0.03
Total Nitrogen, Salicylic	955.04D	010.12	2	16.35	0.21	0.04	2	16.35	0.21	0.04
Total Nitrogen, Combustion		010.60	54	16.44	0.19	0.07	50	16.43	0.18	0.06
Total Nitrogen, Other		010.99	5	16.23	0.40	0.13	5	16.23	0.40	0.13
Method Group 010.XX PCT			66	16.41	0.25	0.07	61	16.40	0.23	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	6	7.78	0.09	0.04	6	7.78	0.09	0.04
Total Phosphate, Spectrometric	958.01	020.20	16	7.75	0.20	0.07	14	7.74	0.20	0.05
Total Phosphate, Automated	978.01	020.40	3	7.74	0.06	0.04	3	7.74	0.06	0.04
Total Phosphate, ICP		020.50	8	7.75	0.26	0.11	8	7.75	0.26	0.11
Total Phosphate, Other		020.99	2	7.28	0.26	0.00	2	7.28	0.26	0.00
Method Group 020.XX PCT			35	7.73	0.22	0.07	31	7.75	0.19	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, Automated	978.01	030.40	1	0.02	0.00	0.00	1	0.02	0.00	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	0.02	0.01	0.01	1	0.02	0.01	0.01
Method Group 030.XX PCT			4	0.01	0.01	0.00	3	0.01	0.01	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	1	7.78	0.03	0.04	1	7.78	0.03	0.04
InDir Available Phosphate, Spectrometri	960.02	040.20	1	7.70	0.01	0.01	1	7.70	0.01	0.01
InDir Available Phosphate, Automated	960.02	040.40	2	7.70	0.05	0.02	2	7.70	0.05	0.02
InDir Available Phosphate, ICP		040.50	2	7.28	0.10	0.05	2	7.28	0.10	0.05
Method Group 040.XX PCT			6	7.57	0.23	0.03	6	7.57	0.23	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	19	7.72	0.08	0.05	18	7.72	0.08	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	7.74	0.01	0.01	1	7.74	0.01	0.01
Dir Available Phosphate, Automated	978.01	041.40	5	7.66	0.11	0.03	5	7.66	0.11	0.03
Dir Available Phosphate, ICP		041.50	11	7.57	0.13	0.12	12	7.55	0.15	0.11
Dir Available Phosphate, EDTA Extract	993.01	041.60	11	7.67	0.07	0.04	10	7.67	0.06	0.02
Dir Available Phosphate, Other		041.99	1	7.82	0.03	0.04	1	7.82	0.03	0.04
Method Group 041.XX PCT			48	7.67	0.11	0.06	46	7.68	0.10	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	7.03	0.15	0.03	3	7.03	0.15	0.03
Soluble Potash, STPB Oxalate	958.02	050.00	17	8.08	0.16	0.11	16	8.07	0.16	0.09
Soluble Potash, STPB Citrate	969.04	050.10	1	7.99	0.00	0.01	1	7.99	0.00	0.01
Soluble Potash, AA (Oxalate)		050.30	10	7.92	0.38	0.09	10	7.65	0.44	0.04
Soluble Potash, AA (Citrate)		050.31	2	7.85	0.63	0.09	2	7.85	0.63	0.09

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Soluble Potash, ICP (Oxalate)		050.50	6	8.15	0.46	0.09	6	8.15	0.46	0.09
Soluble Potash, ICP (Citrate)		050.51	13	7.85	0.27	0.11	13	7.85	0.27	0.11
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	8.07	0.17	0.09	5	8.07	0.17	0.09
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	10	7.99	0.17	0.06	10	7.99	0.17	0.06
Soluble Potash, Other		050.99	10	7.97	0.32	0.05	10	7.97	0.32	0.05
Method Group 050.XX PCT			74	7.99	0.30	0.09	69	7.98	0.29	0.07
Free Water, Vacuum Oven	965.08B	060.00	5	0.49	0.07	0.03	5	0.49	0.07	0.03
Free Water, Other		060.99	1	0.69	0.03	0.04	1	0.69	0.03	0.04
Method Group 060.XX PCT			6	0.52	0.10	0.03	6	0.52	0.10	0.03
Acid Soluble Calcium, ICP		101.30	15	0.30	0.02	0.01	13	0.30	0.02	0.00
Acid Soluble Calcium, Other		101.99	1	0.30	0.00	0.00	1	0.30	0.00	0.00
Method Group 101.XX PCT			16	0.30	0.02	0.01	14	0.30	0.02	0.00
Acid Soluble Magnesium, AA	984.01	121.00	13	0.97	0.06	0.01	12	0.97	0.06	0.01
Acid Soluble Magnesium, ICP		121.30	28	0.97	0.06	0.02	27	0.97	0.06	0.02
Method Group 121.XX PCT			41	0.97	0.06	0.02	39	0.97	0.06	0.01
Water Soluble Magnesium, ICP		131.30	3	0.85	0.08	0.01	3	0.85	0.08	0.01
Water Soluble Magnesium, Titrimetric ..		131.70	1	1.21	0.00	0.00	1	1.21	0.00	0.00
Method Group 131.XX PCT			4	0.94	0.18	0.01	4	0.94	0.18	0.01
Sulfur, Gravimetric	980.02a	144.01	17	15.65	0.20	0.10	17	15.65	0.20	0.10
Sulfur, Other		144.99	15	15.31	0.53	0.13	14	15.30	0.54	0.10
Method Group 144.XX PCT			33	15.47	0.42	0.13	30	15.53	0.36	0.10
Arsenic, Atomic Absorption		151.00	1	3.06	0.01	0.02	1	3.06	0.01	0.02
Arsenic, ICP		151.30	7	3.16	1.15	0.55	6	3.36	1.05	0.31
Method Group 151.XX PPM			8	3.15	1.07	0.49	7	3.31	0.97	0.27
Acid Soluble Boron, Spectrometric	982.01	165.00	8	0.023	0.004	0.002	8	0.023	0.004	0.002
Acid Soluble Boron, Other		165.99	14	0.023	0.006	0.002	13	0.023	0.006	0.001
Method Group 165.XX PCT			22	0.023	0.005	0.002	20	0.023	0.005	0.001
Water Soluble Boron, Spectrometric	982.01	171.10	1	0.020	0.000	0.000	1	0.020	0.000	0.000
Water Soluble Boron, Other		171.99	2	0.017	0.008	0.000	2	0.017	0.008	0.000
Method Group 171.XX PCT			3	0.018	0.006	0.000	3	0.018	0.006	0.000
Cadmium, Atomic Absorption		181.00	1	1.13	0.03	0.04	1	1.13	0.03	0.04
Cadmium, ICP		181.30	10	1.07	0.12	0.11	9	1.05	0.10	0.08
Cadmium, Other		181.99	1	0.65	0.07	0.10	1	0.65	0.07	0.10
Method Group 181.XX PPM			12	1.04	0.16	0.11	11	1.02	0.15	0.08
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	5.20	0.03	0.04	1	5.20	0.03	0.04
Water Soluble Chlorine, Other		190.99	1	4.97	0.11	0.15	1	4.97	0.11	0.15
Method Group 190.XX PCT			2	5.09	0.15	0.10	2	5.09	0.15	0.10
Chromium, ICP		191.30	10	37.52	3.58	0.88	10	37.52	3.58	0.88
Acid Soluble Cobalt, ICP	965.11	202.30	11	8.21	2.77	0.55	11	8.21	2.77	0.55

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Acid Soluble Cobalt, Other		202.99	1	10.50	0.71	1.00	1	10.50	0.71	1.00
Method Group 202.XX PPM			12	8.40	2.73	0.59	12	8.40	2.73	0.59
Acid Soluble Copper, Atomic Absorption	975.01	221.00	6	0.0068	0.0017	0.0008	5	0.0070	0.0016	0.0004
Acid Soluble Copper, ICP		221.30	21	0.0071	0.0016	0.0005	19	0.0071	0.0015	0.0004
Acid Soluble Copper, Other		221.99	1	0.0060	0.0000	0.0000	1	0.0060	0.0000	0.0000
Method Group 221.XX PCT			28	0.0070	0.0016	0.0006	25	0.0070	0.0015	0.0003
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	13	0.26	0.03	0.01	12	0.26	0.02	0.00
Acid Soluble Iron, ICP		241.30	26	0.27	0.02	0.01	24	0.27	0.02	0.00
Acid Soluble Iron, Other		241.99	2	0.24	0.04	0.01	2	0.24	0.04	0.01
Method Group 241.XX PCT			41	0.27	0.02	0.01	39	0.27	0.02	0.01
Lead, ICP		251.30	8	6.32	0.71	0.62	8	6.32	0.71	0.62
Lead, Other		251.99	1	6.50	0.71	1.00	1	6.50	0.71	1.00
Method Group 251.XX PPM			9	6.34	0.69	0.67	9	6.34	0.69	0.67
Acid Soluble Manganese, AA	972.02a	261.00	11	0.100	0.010	0.005	10	0.101	0.010	0.004
Acid Soluble Manganese, AA	972.02b	261.11	2	0.106	0.010	0.006	2	0.106	0.010	0.006
Acid Soluble Manganese, ICP	972.02a	261.30	24	0.103	0.008	0.007	23	0.103	0.008	0.006
Acid Soluble Manganese, Other		261.99	3	0.094	0.013	0.007	3	0.094	0.013	0.007
Method Group 261.XX PCT			40	0.102	0.009	0.007	39	0.102	0.009	0.006
Mercury, Other		281.99	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Molybdenum, ICP		289.30	11	4.39	0.64	0.40	10	4.44	0.59	0.27
Nickel, ICP		291.30	10	16.28	1.26	0.60	10	16.28	1.26	0.60
Sodium, Other		311.99	7	0.25	0.04	0.00	7	0.25	0.04	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	11	0.063	0.007	0.004	10	0.061	0.004	0.003
Acid Soluble Zinc, ICP		321.30	25	0.063	0.006	0.003	22	0.062	0.005	0.001
Acid Soluble Zinc, Other		321.99	2	0.061	0.003	0.001	2	0.061	0.003	0.001
Method Group 321.XX PCT			38	0.063	0.006	0.003	33	0.062	0.004	0.002

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 009.10 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
Ammoniacal Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Devarda</u>			<u>Combustion</u>			<u>Combustion</u>			<u>035</u>		
372	14.81	.86	030	15.97	-1.55	234	16.56	.79	018	16.25	-1.02	162	16.52	.50
Avg	14.43					035	16.53	.56	023	16.22	-1.15	450	16.50	.43
420	14.04	-.87	Meth: 010.11 PCT			162	16.52	.50	351	16.13	-1.73	177	16.49	.39
Meth: 001.99 PCT			Total Nitrogen			450	16.50	.41	073	16.02	-2.31	095	16.49	.37
Ammoniacal Nitrogen			<u>Modified Comprehensi</u>			177	16.49	.36	230	16.00	-2.36	029	16.46	.31
<u>Other</u>			029	16.27	1.01	095	16.49	.33	325	15.67 s	-4.26	300	16.45	.30
106	16.32	1.29	090	16.18	.53	029	16.46	.29	Meth: 010.99 PCT			233	16.47	.30
Avg	15.47		Avg	16.09		037	16.43	.28	Total Nitrogen			324	16.45	.27
096	15.07	-.62	322	16.08	-.13	324	16.45	.26	<u>Other</u>			136	16.46	.26
027	15.03	-.68	211	15.84	-1.47	233	16.47	.25	354	16.83	1.51	037	16.43	.25
Meth: 001.XX PCT			114	15.46 S	-3.67	296	16.44	.23	300	16.45	.57	296	16.44	.24
Ammoniacal Nitrogen			415	14.73 S	-7.84	136	16.46	.19	Avg	16.23		096	16.45	.22
106	16.32	1.64	Meth: 010.12 PCT			096	16.45	.14	255	16.11	-.35	426	16.44	.17
096	15.07	.04	Total Nitrogen			426	16.44	.09	402	15.95	-.77	055	16.42	.16
Avg	15.05		<u>Salicylic</u>			Avg	16.43		072	15.80	-1.09	049	16.42	.15
027	15.03	-.03	137	16.54	.87	131	16.43	-.08	420	14.02 S	-5.52	041	16.41	.14
372	14.81	-.32	Avg	16.35		360	16.41	-.12	Meth: 010.XX PCT			131	16.43	.12
420	14.04	-1.31	254	16.17	-.86	231	16.41	-.15	Total Nitrogen			372	16.41	.07
Meth: 002.99 PCT			Meth: 010.60 PCT			372	16.41	-.15	292	17.10 A	3.07	231	16.41	.07
Nitrate Nitrogen			Total Nitrogen			262	16.40	-.15	369	16.94	2.36	360	16.41	.03
<u>Other</u>			<u>Combustion</u>			049	16.42	-.17	102	16.87	2.07	Avg	16.40	-.01
027	1.25	-.71	292	17.10 s	3.75	041	16.41	-.19	354	16.83	1.89	262	16.40	-.01
Meth: 003.99 PCT			369	16.94 A	2.86	040	16.37	-.38	043	16.77	1.62	247	16.36	-.21
Water Insoluble Nitr			102	16.87	2.48	247	16.36	-.40	157	16.73	1.42	040	16.37	-.22
<u>Other</u>			043	16.77	1.91	291	16.33	-.58	027	16.70	1.29	291	16.33	-.36
372	0.75	.71	157	16.73	1.65	451	16.31	-.65	232	16.68	1.20	451	16.31	-.40
Meth: 009.10 PCT			027	16.70	1.49	034	16.31	-.70	422	16.66	1.12	034	16.31	-.46
Ammon & Nitrate N			232	16.68	1.38	009	16.36 R	-.76	361	16.65	1.09	025	16.29	-.52
<u>Devarda</u>			422	16.66	1.28	025	16.29	-.80	024	16.65	1.09	009	16.36 R	-.56
090	16.09	.30	361	16.65	1.24	028	16.33	-.85	377	16.60	.87	029	16.27	-.60
Avg	16.01		024	16.65	1.24	007	16.30	-.89	072	16.56 R	.87	028	16.33	-.61
416	15.98	-.13	072	16.56 R	.99	425	16.27	-.91	070	16.53 R	.80	425	16.27	-.61
			377	16.60	.97	022	16.27	-.92	406	16.58	.77	022	16.27	-.62
			070	16.53 R	.92	423	16.26	-.92	234	16.56	.73	423	16.26	-.62
			406	16.58	.83	057	16.26	-.92	137	16.54	.60	057	16.26	-.62
						444	16.26	-.96				007	16.30	-.62
												444	16.26	-.66

* 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: 020.20 PCT			Meth: 020.99 PCT			Meth: 020.XX PCT			Meth: 040.10 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>InDir Available Phos</u>		
018	16.25	-.70	<u>Spectrometric</u>			<u>Other</u>			405 7.51 -1.23			<u>Grav Quim</u>		
023	16.22	-.80	232	7.78	.21	405	7.51	.87	444	7.52	-1.24	090 7.78 .71		
090	16.18	-.98	372	7.75	.06	Avg	7.28		428	7.49	-1.33	Meth: 040.20 PCT		
254	16.17	-1.02	Avg	7.74		402	7.06	-.87	255	7.37	-1.95	InDir Available Phos		
351	16.13	-1.27	231	7.70	-.29	Meth: 020.XX PCT			193	7.33	-2.16	<u>Spectrometri</u>		
255	16.11	-1.33	234	7.70	-.54	<u>Total Phosphate</u>			402	7.06 A	-3.59	372 7.70 .71		
322	16.08	-1.41	451	7.73 R	-.63	426	8.74 s	5.18	324	6.60 s	-5.98	Meth: 040.40 PCT		
073	16.02	-1.72	420	7.62	-.64	247	8.04	1.54	Meth: 030.10 PCT			InDir Available Phos		
230	16.00	-1.76	369	7.53	-1.09	432	8.01	1.47	Insoluble Phosphate			Meth: 040.40 PCT		
402	15.95 R	-2.07	428	7.49	-1.26	422	8.02	1.43	<u>Grav Quimociac</u>			InDir Available Phos		
211	15.84	-2.48	193	7.33	-2.06	425	8.02	1.40	090	0.01	.00	<u>Automated</u>		
072	15.80	-2.67	324	6.60 s	-5.74	425	8.02	1.40	Meth: 030.40 PCT			096 7.74 .85		
325	15.67 s	-3.26	Meth: 020.40 PCT			262	8.00	1.32	Insoluble Phosphate			Avg 7.70		
114	15.46 s	-4.15	<u>Total Phosphate</u>			450	7.95 R	1.25	Meth: 030.40 PCT			247 7.65 -.88		
415	14.73 s	-7.30	<u>Automated</u>			406	7.94	1.02	Insoluble Phosphate			Meth: 040.50 PCT		
420	14.02 s	-10.45	035	7.80	1.02	095	7.94	.99	<u>Automated</u>			InDir Available Phos		
Meth: 020.10 PCT			096	7.76	.33	416	7.93	.96	096 0.02 .00			<u>ICP</u>		
<u>Total Phosphate</u>			Avg	7.74		030	7.82	.37	Meth: 030.50 PCT			255 7.36 .87		
<u>Grav Quimociac</u>			247	7.67	-1.16	035	7.80	.31	Insoluble Phosphate			Avg 7.28		
095	7.94	1.67	Meth: 020.50 PCT			444	7.80	.29	<u>ICP</u>			423 7.20 -.86		
090	7.79	.23	<u>Total Phosphate</u>			292	7.80	.26	255 0.01 -.71			Meth: 040.XX PCT		
444	7.80	.21	<u>ICP</u>			090	7.79	.25	Meth: 030.99 PCT			InDir Available Phos		
114	7.79	.06	426	8.74 S	3.87	114	7.79	.21	Insoluble Phosphate			090 7.78 .93		
Avg	7.78		247	8.04	1.14	232	7.78	.20	Other			096 7.74 .75		
137	7.74	-.47	432	8.01	1.08	361	7.76	.09	247 0.02 .71			372 7.70 .55		
300	7.65	-1.55	422	8.02	1.05	096	7.76	.09	Meth: 030.XX PCT			247 7.65 .38		
Meth: 020.20 PCT			361	7.76	.06	372	7.75	.06	Insoluble Phosphate			Avg 7.57		
<u>Total Phosphate</u>			Avg	7.75		Avg	7.75		Meth: 030.XX PCT			255 7.36 -.92		
<u>Spectrometric</u>			157	7.71	-.61	137	7.74	-.03	<u>Insoluble Phosphate</u>			423 7.20 -1.67		
425	8.02	1.37	423	7.58	-.67	231	7.70	-.32	096 0.02 1.26			Meth: 041.10 PCT		
262	8.00	1.29	444	7.52	-.95	247	7.67	-.40	247 0.02 R .93			Dir Available Phosph		
450	7.95 R	1.22	255	7.37	-1.48	300	7.65	-.56	Avg 0.01			<u>Grav Quimociac</u>		
406	7.94	1.00	Meth: 020.10 PCT			234	7.70	-.57	090 0.01 -.39			211 7.86 1.70		
416	7.93	.94	<u>Total Phosphate</u>			451	7.73 R	-.66	255 0.01 -.87			041 7.82 1.27		
030	7.82	.37	<u>ICP</u>			420	7.62	-.69	Meth: 030.99 PCT			055 7.80 1.00		
292	7.80	.27	426 8.74 S 3.87			157	7.71 R	-.80	Insoluble Phosphate					
			247 8.04 1.14			423	7.58	-.86	Other					
			432 8.01 1.08			369	7.53	-1.15	247 0.02 .71					
			422 8.02 1.05						Meth: 030.99 PCT					
			361 7.76 .06						Insoluble Phosphate					
			Avg 7.75						Other					
			157 7.71 -.61						247 0.02 1.26					
			423 7.58 -.67						247 0.02 R .93					
			444 7.52 -.95						Avg 0.01					
			255 7.37 -1.48						090 0.01 -.39					
			Meth: 020.10 PCT						255 0.01 -.87					
			<u>Total Phosphate</u>						Meth: 030.XX PCT					
			<u>ICP</u>						Insoluble Phosphate					
			426 8.74 S 3.87						Other					
			247 8.04 1.14						247 0.02 .71					
			432 8.01 1.08						Meth: 030.99 PCT					
			422 8.02 1.05						Insoluble Phosphate					
			361 7.76 .06						Other					
			Avg 7.75						247 0.02 .71					
			157 7.71 -.61						Meth: 030.XX PCT					
			423 7.58 -.67						Insoluble Phosphate					
			444 7.52 -.95						Other					
			255 7.37 -1.48						247 0.02 R .93					
			Meth: 020.10 PCT						Avg 0.01					
			<u>Total Phosphate</u>						090 0.01 -.39					
			<u>ICP</u>						255 0.01 -.87					
			426 8.74 S 3.87						Meth: 030.99 PCT					
			247 8.04 1.14						Insoluble Phosphate					
			432 8.01 1.08						Other					
			422 8.02 1.05						247 0.02 .71					
			361 7.76 .06						Meth: 030.XX PCT					
			Avg 7.75						Insoluble Phosphate					
			157 7.71 -.61						Other					
			423 7.58 -.67						247 0.02 R .93					
			444 7.52 -.95						Avg 0.01					
			255 7.37 -1.48						090 0.01 -.39					
			Meth: 020.10 PCT						255 0.01 -.87					
			<u>Total Phosphate</u>						Meth: 030.XX PCT					
			<u>ICP</u>						Insoluble Phosphate					
			426 8.74 S 3.87						Other					
			247 8.04 1.14						247 0.02 .71					
			432 8.01 1.08						Meth: 030.99 PCT					
			422 8.02 1.05						Insoluble Phosphate					
			361 7.76 .06						Other					
			Avg 7.75						247 0.02 .71					
			157 7.71 -.61						Meth: 030.XX PCT					
			423 7.58 -.67						Insoluble Phosphate					
			444 7.52 -.95						Other					
			255 7.37 -1.48						247 0.02 R .93					
			Meth: 020.10 PCT						Avg 0.01					
			<u>Total Phosphate</u>						090 0.01 -.39					
			<u>ICP</u>						255 0.01 -.87					
			426 8.74 S 3.87						Meth: 030.99 PCT					
			247 8.04 1.14						Insoluble Phosphate					
			432 8.01 1.08						Other					
			422 8.02 1.05						247 0.02 .71					
			361 7.76 .06						Meth: 030.XX PCT					
			Avg 7.75						Insoluble Phosphate					
			157 7.71 -.61						Other					
			423 7.58 -.67						247 0.02 R .93					
			444 7.52 -.95						Avg 0.01					
			255 7.37 -1.48						090 0.01 -.39					
			Meth: 020.10 PCT						255 0.01 -.87					
			<u>Total Phosphate</u>						Meth: 030.XX PCT					
			<u>ICP</u>						Insoluble Phosphate					
			426 8.74 S 3.87						Other					
			247 8.04 1.14						247 0.02 .71					
			432 8.01 1.08						Meth: 030.99 PCT					
			422 8.02 1.05						Insoluble Phosphate					
			361 7.76 .06						Other					
			Avg 7.75						247 0.02 .71					
			157 7.71 -.61						Meth: 030.XX PCT					
			423 7.58 -.67						Insoluble Phosphate					
			444 7.52 -.95						Other					
			255 7.37 -1.48						247 0.02 R .93					
			Meth: 020.10 PCT						Avg 0.01					
			<u>Total Phosphate</u>						090 0.01 -.39					
			<u>ICP</u>						255 0.01 -.87					
			426 8.74 S 3.87						Meth: 030.99 PCT					
			247 8.04 1.14						Insoluble Phosphate					
			432 8.01 1.08						Other					
			422 8.02 1.05						247 0.02 .71					
			361 7.76 .06						Meth: 030.XX PCT					
			Avg 7.75						Insoluble Phosphate					
			157 7.71 -.61						Other					
			423 7.58 -.67						247 0.02 R .93					
			444 7.52 -.95						Avg 0.01					
			255 7.37 -1.48						090 0.01 -.39					
			Meth: 020.10 PCT						255 0.01 -.87					
			<u>Total Phosphate</u>						Meth: 030.XX PCT					
			<u>ICP</u>						Insoluble Phosphate					
			426 8.74 S 3.87						Other					
			247 8.04 1.14						247 0.02 .71					
			432 8.01 1.08						Meth: 030.99 PCT					
			422 8.02 1.05						Insoluble Phosphate					
			361 7.76 .06						Other					
			Avg 7.75						247 0.02 .71					
			157 7.71 -.61						Meth: 030.XX PCT					
			423 7.58 -.67						Insoluble Phosphate					
			444 7.52 -.95						Other					
			255 7.37 -1.48						247 0.02 R .93					
			Meth: 020.10 PCT						Avg 0.01					
			<u>Total Phosphate</u>						090 0.01 -.39					
			<u>ICP</u>						255 0.01 -.87					
			426 8.74 S 3.87						Meth: 030.99 PCT					
			247 8.04 1.14						Insoluble Phosphate					
			432 8.01 1.08						Other					
			422 8.02 1.05						247 0.02 .71					
			361 7.76 .06						Meth: 030.XX PCT					
			Avg 7.75						Insoluble Phosphate					
			157 7.71 -.61						Other					

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 041.XX PCT			Meth: 050.00 PCT		
Dir Available Phosph			Dir Available Phosph			Dir Available Phosph			Dir Available Phosph			Soluble Potash		
<u>Grav Quimociac</u>			<u>ICP</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>STPB Oxalate</u>		
322	7.80	.96	023	7.72	1.14	415	8.51 s	7.97	354	7.59	-.93	009	8.02	-.46
131	7.78	.83	291	7.71	1.12	211	7.86	1.69	037	7.58	-.95	057	8.07	-.54
022	7.73	.48	022	7.58	1.11	230	7.82	1.37	072	7.57	-1.02	231	7.98	-.65
233	7.75	.33	325	7.71	1.07	041	7.82	1.35	360	7.57	-1.02	029	7.95	-.81
177	7.73	.15	009	7.57	.36	018	7.81	1.26	009	7.57	-1.15	296	7.95	-.82
Avg	7.72		354	7.59	.34	055	7.80	1.17	102	7.56	-1.32	049	7.86	-1.34
009	7.72	-.14	360	7.57	.24	322	7.80	1.14	025	7.51	-1.63	372	7.82	-1.63
136	7.71	-.24	Avg	7.57		131	7.78	1.01	043	7.50	-1.78	230	7.08 s	-6.32
057	7.71	-.31	043	7.50	-.46	260	7.72	.95	022	7.58 R	-1.87			
029	7.72	-.34	377	7.47	-.55	027	7.77	.84	377	7.47	-2.02			
040	7.72	-.39	007	7.50	-1.17	131	7.77	.83	007	7.50 R	-2.37	Meth: 050.10 PCT		
072	7.69	-.43	361	7.37	-1.18	233	7.75	.67	361	7.37	-2.97	Soluble Potash		
296	7.70	-.49	070	7.29 S	-1.73	022	7.73	.63	070	7.29 s	-3.75	<u>STPB Citrate</u>		
260	7.72 R	-1.16				043	7.74	.62	262	6.52 s	-11.12	322	7.99	.71
254	7.64	-1.18	Meth: 041.60 PCT			291	7.71	.57	Meth: 048.20 PCT			Meth: 050.30 PCT		
049	7.60	-1.59	Dir Available Phosph			055	7.74	.54	Water Soluble Phosph			Soluble Potash		
102	7.56	-2.29	<u>EDTA Extract</u>			177	7.73	.52	<u>Spectrometric</u>			<u>AA (Oxalate)</u>		
			018	7.81	2.14	040	7.72	.49	372	7.22	1.27	369	8.79 R	2.58
			043	7.74	1.09	029	7.72	.42	Avg	7.03		234	8.17	1.16
Meth: 041.20 PCT			028	7.69	.43	325	7.71	.42	096	6.96	-.52	137	8.15	1.11
Dir Available Phosph			296	7.68	.33	009	7.72	.41	420	6.92	-.79	136	7.98	.73
<u>Spectrometric</u>			034	7.68	.24	023	7.72	.41	Meth: 050.00 PCT			451	7.98	.72
415	8.51 S	109.53	Avg	7.67		057	7.71	.36	Soluble Potash			040	7.72 R	.40
055	7.74	.71	073	7.66	-.30	296	7.70	.35	<u>STPB Oxalate</u>			351	7.71	.12
Avg	7.74		177	7.65	-.45	029	7.71	.26	114	8.69 s	4.40	193	7.66	.07
262	6.52 S	-171.85	351	7.63	-.65	136	7.71	.26	444	8.37	1.99	Avg	7.84	
			028	7.69	.25	028	7.69	.25	072	8.20 R	1.56	073	7.61	-.12
Meth: 041.40 PCT			024	7.63	-.70	296	7.68	.19	102	8.23	1.21	428	7.49	-.38
Dir Available Phosph			057	7.67 R	-1.41	072	7.69	.11	055	8.13	1.10	262	7.00 S	-1.47
<u>Automated</u>			037	7.58	-1.47	Avg	7.68		416	8.23	.97	425	6.82 S	-1.88
027	7.77	.92	Meth: 041.99 PCT			034	7.68	-.15	022	8.20	.81	Meth: 050.31 PCT		
131	7.77	.91	Dir Available Phosph			073	7.66	-.23	090	8.18	.72	Soluble Potash		
029	7.71	.37	<u>Other</u>			177	7.65	-.32	Avg	8.07		<u>AA (Citrate)</u>		
Avg	7.66		230	7.82	-.71	351	7.63	-.45	043	8.07	-.05	095	8.40	.86
072	7.57	-.84				024	7.63	-.48	211	8.06	-.11	Avg	7.85	
025	7.51	-1.40				254	7.64	-.48	233	8.07	-.15	254	7.31	-.87
						049	7.60	-.76						
						057	7.67	-.87						

* 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: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>			114 8.69 s 2.73			354 8.00 .11			425 6.82 s -4.05		
292	8.86	1.53	030	8.79 s	4.92	300	8.45	1.66	028	7.99	.06			
426	8.31	.36	025	8.35	2.10	095	8.40	1.48	136	7.98	.04			
106	8.15	.02	057	8.09	.62	444	8.37	1.42	322	7.99	.03			
Avg	8.15		024	8.09	.54	025	8.35	1.31	Avg	7.98				
422	8.13	-.05	035	8.05	.37	415	8.31	1.16	451	7.98	-.05			
324	8.10	-.32	Avg	7.99		426	8.31	1.16	027	7.96	-.08			
420	7.36	-1.71	028	7.99	-.06	072	8.20 R	1.07	029	7.95	-.13			
			029	7.96	-.39	402	8.25	.98	296	7.95	-.14			
			041	7.96	-.49	102	8.23	.95	029	7.96	-.21			
Meth: 050.51 PCT			037 7.90 -.53			432 8.23 .87			037 7.90 -.27			Meth: 060.00 PCT		
Soluble Potash			018 7.84 -.89			416 8.23 .87			041 7.96 -.27			Free Water		
<u>ICP (Citrate)</u>			034 7.71 -1.68			022 8.20 .78			022 7.90 -.29			<u>Vacuum Oven</u>		
432	8.23	1.39				055	8.13 R	.77	131	7.88	-.35			
377	8.10	.93	Meth: 050.99 PCT			090	8.18	.73	049	7.86	-.41			
043	8.08	.85	Soluble Potash			234	8.17	.67	423	7.88	-.44			
291	8.02	.64	<u>Other</u>			324	8.10	.63	007	7.96	-.46			
007	7.96	.63	072	44.00 s	160.21	137	8.15	.61	018	7.84	-.48			
023	7.92	.62	260	9.12 S	3.61	106	8.15	.60	009	7.83	-.52			
423	7.88	.29	300	8.45	1.52	406	8.14	.57	372	7.82	-.58			
022	7.90	.17	402	8.25	.91	422	8.13	.53	023	7.92 R	-.58			
Avg	7.85		232	8.13	.50	232	8.13	.52	157	7.84	-.64			
009	7.83	-.11	360	8.09	.38	377	8.10	.43	070	7.74	-.86			
070	7.74	-.46	177	8.02	.18	057	8.07	.43	351	7.71	-.95			
444	7.70	-.59	354	8.00	.12	057	8.09	.42	034	7.71	-.95			
361	7.47	-1.41	Avg	7.97		360	8.09	.39	444	7.70	-.99			
096	7.25	-2.26	027	7.96	-.05	024	8.09	.38	040	7.72 R	-1.08			
			131	7.88	-.29	043	8.08	.36	193	7.66	-1.12			
			255	7.64	-1.03	233	8.07	.33	255	7.64	-1.18			
Meth: 050.60 PCT			325 7.28 -2.18			043 8.07 .31			073 7.61 -1.30			Meth: 101.30 PCT		
Soluble Potash			Meth: 050.XX PCT			131 8.06 .28			428 7.49 -1.72			Acid Soluble Calcium		
<u>Flame (Oxalate)</u>			<u>Soluble Potash</u>			211 8.06 .27			361 7.47 -1.78			<u>ICP</u>		
415	8.31	1.37	072	44.00 s	178.28	035	8.05	.27	420	7.36	-2.16			
406	8.14	.40	260	9.12 s	3.99	055	8.03	.21	254	7.31	-2.36			
Avg	8.07		292	8.86	3.07	009	8.02	.20	325	7.28	-2.46			
131	8.06	-.18	030	8.79 s	2.99	231	7.98	.19	096	7.25	-2.57			
055	8.03	-.31	369	8.79 R	2.89	291	8.02	.18	230	7.08 s	-3.17			
157	7.84	-1.53				177	8.02	.17	262	7.00 s	-3.42			

* 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: 101.30 PCT			Meth: 101.XX PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 131.30 PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Water Soluble Magnes</u>		
ICP			027	0.28	-1.55	ICP			423	0.99	.41	ICP		
Avg	0.30		041	0.05 s	-14.86	Avg	0.97		444	0.97	.35	432	0.76	-1.22
009	0.30	-.22				247	0.97	-.12	057	0.98	.29			
247	0.30	-.27	Meth: 121.00 PCT			131	0.96	-.20	296	0.98	.27	Meth: 131.70 PCT		
131	0.30	-.41	<u>Acid Soluble Magnesi</u>			023	0.97	-.22	043	0.98	.20	<u>Water Soluble Magnes</u>		
102	0.30	-.42	<u>AA</u>			009	0.95	-.39	Avg	0.97		<u>Titrimetric</u>		
232	0.30	-.60	030	1.10	2.09	037	0.96	-.40	177	0.96	-.09	415	1.21	-.71
292	0.29	-.82	136	1.00	.56	354	0.95	-.40	247	0.97	-.10			
057	0.29	-.90	450	1.00	.54	420	0.95	-.46	131	0.96	-.18	Meth: 131.XX PCT		
065	0.29 R	-1.22	028	1.00	.51	106	0.94	-.53	023	0.97	-.21	<u>Water Soluble Magnes</u>		
027	0.28	-1.52	029	0.98 R	.50	102	0.94	-.54	137	0.95	-.32	415	1.21	1.52
041	0.05 s	-14.35	296	0.98	.31	065	0.95 R	-.78	009	0.95	-.36	Avg	0.94	
			043	0.98	.24	022	0.93	-.80	354	0.95	-.37	291	0.92	-.11
Meth: 101.99 PCT			Avg	0.97		096	0.92	-.98	037	0.96	-.38	027	0.87	-.40
<u>Acid Soluble Calcium</u>			177	0.96	-.04	232	0.91	-.99	040	0.95	-.38	432	0.76	-1.01
<u>Other</u>			137	0.95	-.24	292	0.91	-1.07	095	0.95	-.41			
022	0.30	.00	040	0.95	-.31	324	0.91	-1.08	420	0.95	-.43	Meth: 144.01 PCT		
			095	0.95	-.33	233	0.89	-1.36	106	0.94	-.49	<u>Sulfur</u>		
Meth: 101.XX PCT			055	0.89	-1.21	255	0.88	-1.54	102	0.94	-.50	<u>Gravimetric</u>		
<u>Acid Soluble Calcium</u>			262	0.84	-2.09	360	0.55 s	-11.00	065	0.95 R	-.74	324	16.01	1.81
422	1.08 s	44.57	351	0.37 s	-9.64				022	0.93	-.76	296	15.91	1.35
035	0.44 s	7.63				Meth: 121.XX PCT			096	0.92	-.93	057	15.80	.99
231	0.34	2.04	Meth: 121.30 PCT			<u>Acid Soluble Magnesi</u>			232	0.91	-.94	055	15.72	.84
433	0.34	1.79	<u>Acid Soluble Magnesi</u>			422	1.56 s	10.26	292	0.91	-1.01	043	15.78	.71
106	0.32	.89	<u>ICP</u>			041	1.23 s	4.54	324	0.91	-1.03	102	15.78	.69
420	0.31 R	.85	422	1.56 s	10.52	291	1.10	2.21	233	0.89	-1.30	029	15.74	.61
096	0.32	.67	041	1.23 s	4.64	030	1.10	2.20	055	0.89	-1.36	040	15.75	.49
423	0.31	.29	291	1.10	2.25	433	1.09	2.02	255	0.88	-1.47	114	15.66	.23
Avg	0.30		433	1.09	2.06	027	1.06	1.59	262	0.84	-2.31	Avg	15.65	
009	0.30	-.21	027	1.06	1.61	426	1.04	1.25	351	0.37 s	-10.45	233	15.65	-.17
247	0.30	-.26	426	1.04	1.27	035	1.03	1.02	360	0.55 s	-10.68	372	15.59	-.31
022	0.30	-.26	035	1.03	1.02	231	1.02	.81				095	15.57	-.38
131	0.30	-.41	231	1.02	.81	432	1.00	.58	Meth: 131.30 PCT			193	15.51	-.71
102	0.30	-.41	432	1.00	.57	136	1.00	.55	<u>Water Soluble Magnes</u>			444	15.46	-1.01
232	0.30	-.60	423	0.99	.40	450	1.00	.53	<u>ICP</u>			137	15.42	-1.14
292	0.29	-.83	049	0.99	.40	029	0.98 R	.52	291	0.92	.98	106	15.38	-1.34
057	0.29	-.92	444	0.97	.36	028	1.00	.50	027	0.87	.25	028	15.29	-1.78
065	0.29 R	-1.26	057	0.98	.28	049	0.99	.41	Avg	0.85		157	15.03 s	-3.26

* 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: 144.02 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.99 PCT			Meth: 165.XX PCT		
Sulfur			Sulfur			Arsenic			Acid Soluble Boron			Acid Soluble Boron		
<u>Gravimetric</u>			<u>ICP</u>			<u>Other</u>								
292	13.93 S	.00	114	15.66	.37	102	2.81	-.52	422	0.030	1.09	423	0.020	-.62
			233	15.65	.33	065	2.02 X	-1.30	009	0.029	.97	444	0.020	-.72
			177	15.64	.29	106	2.00 R	-1.61	106	0.025 R	.93	232	0.019	-.83
Meth: 144.99 PCT			361 15.62 .24			Meth: 151.XX PPM			360 0.025 .29			037 0.016 -1.51		
Sulfur			354 15.54 .20			Arsenic			255 0.024 .21			043 0.012 -2.26		
<u>Other</u>			372 15.59 .18			<u>Avg</u>			Avg 0.023			Meth: 171.10 PCT		
027	15.88	1.08	351	15.54	.13	233	5.12	1.87	324	0.023	-.05	Water Soluble Boron		
423	15.78	.89	095	15.57	.12	450	4.00	.71	040	0.021	-.38	<u>Spectrometric</u>		
360	15.70	.75	Avg	15.53		Avg	3.31		423	0.020	-.60	296	0.020	.00
450	15.66	.69	193	15.51	-.12	136	3.06	-.26	432	0.020	-.60			
177	15.64	.63	444	15.46	-.30	096	3.05	-.31	444	0.020	-.69	Meth: 171.99 PCT		
361	15.62	.59	291	15.47	-.33	247	3.13	-.46	232	0.019	-.79	Water Soluble Boron		
009	15.45 R	.53	137	15.42	-.33	102	2.81	-.52	043	0.012	-2.10	<u>Other</u>		
354	15.54	.47	106	15.38	-.45	065	2.02 X	-1.36	Meth: 165.XX PCT			027	0.023	.87
351	15.54	.46	028	15.29	-.70	106	2.00 R	-1.70	<u>Acid Soluble Boron</u>			Avg	0.017	
291	15.47	.37	009	15.45 R	-.73	Meth: 165.00 PCT			231	0.215 s	36.92	432	0.010	-.87
Avg	15.30		131	15.13	-1.13	Acid Soluble Boron			354	0.048 s	5.14	Meth: 171.XX PCT		
131	15.13	-.31	157	15.03 R	-1.57	<u>Spectrometric</u>			428	0.050 s	5.10	<u>Water Soluble Boron</u>		
232	14.91	-.73	232	14.91	-1.76	428	0.050 s	6.22	426	0.032	1.62	027	0.023	.88
422	14.84	-.86	422	14.84	-1.97	137	0.030	1.60	433	0.031	1.46	296	0.020	.38
255	14.31	-1.84	255	14.31	-3.45	057	0.025	.76	137	0.030	1.30	Avg	0.018	
023	14.17	-2.10	023	14.17 A	-3.85	029	0.025	.47	422	0.030	1.21	432	0.010	-1.26
035	13.45 S	-3.44	292	13.93 s	-4.53	028	0.025	.44	009	0.029	1.08	Meth: 181.00 PPM		
Meth: 144.XX PCT			035 13.45 s -5.88			Avg 0.023			106	0.025 R	1.02	Cadmium		
Sulfur			Meth: 151.00 PPM			055 0.023 -.19			057	0.025 R	.62	<u>Atomic Absorption</u>		
324	16.01	1.35	Arsenic			023 0.023 -.24			029	0.025	.38	193	1.13	.71
296	15.91	1.08	<u>Atomic Absorption</u>			296 0.020 -.73			028	0.025	.34	Meth: 181.30 PPM		
027	15.88	.98	136	3.06	.71	037 0.016 -1.82			360	0.025	.34	Cadmium		
057	15.80	.84	Meth: 151.30 PPM			Meth: 165.99 PCT			255	0.024	.24	ICP		
043	15.78	.71	Arsenic			Acid Soluble Boron			Avg	0.023		450	57.00 s	579.46
102	15.78	.71	<u>ICP</u>			<u>Other</u>			324	0.023	-.04	096	1.20 R	2.59
423	15.78	.70	233	5.12	1.69	231	0.215 s	33.92	055	0.023	-.17	232	1.15	1.87
055	15.72	.67	450	4.00	.62	354	0.048 s	4.70	023	0.023	-.20	035	1.16	1.14
029	15.74	.62	Avg	3.36		426	0.032	1.46	040	0.021	-.38	037	1.08	.52
040	15.75	.60	096	3.05	-.32	433	0.031	1.31	432	0.020	-.62			
360	15.70	.49	247	3.13	-.45				296	0.020	-.62			
450	15.66	.45												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 181.30 PPM</u>			<u>Meth: 190.99 PCT</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.30 PCT</u>			<u>Meth: 221.XX PCT</u>		
<u>Cadmium</u>			<u>Water Soluble Chlori</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
324	1.10	.52	009	4.97	.71	324	4.40	-1.38	022	0.0100	1.97	041	0.0075	.47
Avg	1.05								106	0.0100	1.97	Avg	0.0070	
102	1.01	-.43	<u>Meth: 190.XX PCT</u>			<u>Meth: 202.99 PPM</u>			292	0.0100	1.97	043	0.0067	-.26
247	1.05	-.52	<u>Water Soluble Chlori</u>			<u>Acid Soluble Cobalt</u>			065	0.0094 R	1.74	423	0.0066	-.27
106	1.00	-.52	422	5.20	.79	<u>Other</u>			433	0.0088	1.14	095	0.0066	-.34
009	0.96	-1.02	Avg	5.09		136	10.50	.71	354	0.0075	.45	233	0.0063	-.46
065	0.95	-1.19	009	4.97	-.94	<u>Meth: 202.XX PPM</u>			041	0.0075	.45	231	0.0065	-.48
<u>Meth: 181.99 PPM</u>			<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Cobalt</u>			Avg	0.0071		009	0.0062	-.55
<u>Cadmium</u>			<u>Chromium</u>			065	11.33	1.08	423	0.0066	-.30	035	0.0062	-.56
<u>Other</u>			<u>ICP</u>			009	11.25	1.06	233	0.0063	-.49	450	0.0062	-.58
136	0.65	.71	035	45.20	2.14	057	10.85	.91	231	0.0065	-.50	102	0.0062	-.59
<u>Meth: 181.XX PPM</u>			009	40.25	.83	136	10.50	.79	009	0.0062	-.58	057	0.0061	-.62
<u>Cadmium</u>			065	38.96	.50	037	10.08	.62	035	0.0062	-.59	232	0.0064	-.67
450	57.00 s	370.80	106	38.50	.31	035	9.88	.54	450	0.0062	-.61	420	0.0060	-.68
096	1.20 R	1.78	450	38.00	.13	423	9.65	.45	102	0.0062	-.61	422	0.0060	-.68
232	1.15	1.31	Avg	37.52		Avg	8.40		057	0.0061	-.65	402	0.0060	-.68
035	1.16	.92	037	37.09	-.13	106	7.50	-.38	232	0.0064	-.69	049	0.0060	-.69
193	1.13	.73	096	36.55	-.28	247	6.28	-.79	420	0.0060	-.70	428	0.0060	-.71
324	1.10	.52	102	34.28	-.91	102	4.75	-1.34	422	0.0060	-.70	028	0.0060	-.76
037	1.08	.47	324	33.50	-1.13	232	4.40	-1.47	049	0.0060	-.71	324	0.0057	-.88
247	1.05	.38	232	32.90	-1.29	324	4.40	-1.47	324	0.0057	-.90	029	0.0054 R	-1.43
Avg	1.02		<u>Meth: 202.30 PPM</u>			<u>Meth: 221.00 PCT</u>			255	0.0050 R	-1.53	<u>Meth: 241.00 PCT</u>		
102	1.01	-.08	<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Meth: 221.99 PCT</u>			<u>Acid Soluble Iron</u>		
106	1.00	-.14	<u>ICP</u>			<u>Atomic Absorption</u>			<u>Acid Soluble Copper</u>			<u>Atomic Absorption</u>		
009	0.96	-.47	065	11.33	1.13	262	0.0100	1.84	402	0.0060	.00	137	0.31 R	2.17
065	0.95	-.60	009	11.25	1.11	Avg	0.0070		<u>Other</u>			029	0.30	1.67
136	0.65	-2.48	057	10.85	.96	043	0.0067	-.25	<u>ICP</u>			055	0.28	.88
<u>Meth: 190.00 PCT</u>			037	10.08	.68	095	0.0066	-.32	<u>Acid Soluble Copper</u>			262	0.28	.84
<u>Water Soluble Chlori</u>			035	9.88	.60	428	0.0060	-.67	022	0.0100	2.01	040	0.27	.46
<u>Titrimetric</u>			423	9.65	.52	028	0.0060	-.71	106	0.0100	2.01	043	0.27	.44
422	5.20	.71	Avg	8.21		029	0.0054 R	-1.33	262	0.0100	2.01	028	0.27	.31
			106	7.50	-.31				292	0.0100	2.01	351	0.27	.28
			247	6.28	-.71				065	0.0094 R	1.78	Avg	0.26	
			102	4.75	-1.25				433	0.0088	1.18	177	0.26	-.08
			232	4.40	-1.38				354	0.0075	.47	296	0.25	-.55
												095	0.24	-.88

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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: 241.99 PCT			Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.30 PCT		
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Iron			Lead			Acid Soluble Manganese		
<u>Atomic Absorption</u>			<u>Other</u>			<u>ICP</u>			<u>AA</u>			<u>ICP</u>		
136	0.23	-1.31	231	0.28	.87	023	0.26	-.51	136	6.50	.77	360	0.112	1.20
193	0.22	-1.97	Avg	0.24		255	0.26	-.52	009	6.55	.32	423	0.112	1.06
428	0.14 s	-5.10	402	0.21	-.86	049	0.27 R	-.67	Avg	6.34		324	0.104	.80
Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.30 PPM			Meth: 261.00 PCT			Meth: 261.11 PCT		
Acid Soluble Iron			Acid Soluble Iron			Lead			Acid Soluble Manganese			Acid Soluble Manganese		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>AA</u>			<u>ICP</u>		
432	0.37 s	5.02	432	0.37 s	4.25	065	0.24	-1.07	137	0.120	1.99	102	0.107	.48
354	0.33 R	3.01	354	0.33 R	2.62	292	0.24	-1.22	422	0.31	1.84	426	0.103	.12
422	0.31	1.84	137	0.31	1.87	095	0.24	-1.22	324	0.30	1.48	Avg	0.103	
324	0.30	1.48	422	0.31	1.67	136	0.23	-1.66	402	0.30	1.38	420	0.101	-.34
106	0.30	1.48	324	0.30	1.38	193	0.22	-2.32	428	0.30	1.38	422	0.100	-.38
426	0.30	1.24	106	0.30	1.35	402	0.21	-2.35	028	0.30	1.35	027	0.100	-.42
433	0.29	1.06	029	0.30	1.19	428	0.14 s	-5.49	Avg	0.101		035	0.100	-.49
102	0.29	.90	426	0.30	1.19	Meth: 251.99 PPM			136	0.100	-.06	023	0.099	-.87
131	0.28	.46	433	0.29	1.04	Lead			351	0.098	-.37	096	0.095	-.98
233	0.28	.32	102	0.29	.90	<u>ICP</u>			296	0.095	-.77	233	0.097	-1.03
096	0.28	.31	055	0.28	.58	065	7.00	1.36	177	0.092	-.94	232	0.094	-1.30
009	0.27	.29	131	0.28	.55	450	7.00	.97	193	0.092	-1.00	292	0.090	-1.59
057	0.28	.28	262	0.28	.51	324	6.55	.85	055	0.098 R	-1.03	432	0.090	-1.59
360	0.28	.26	233	0.28	.40	106	6.50	.76	095	0.090	-1.09	Meth: 261.31 PCT		
035	0.28	.22	360	0.28	.39	009	6.55	.34	Meth: 261.11 PCT			Acid Soluble Manganese		
Avg	0.27		231	0.28	.37	Avg	6.32		Acid Soluble Manganese			<u>ICP</u>		
423	0.27	-.08	096	0.28	.37	247	5.81	-.86	029	0.114	.79	231	0.980 S	.00
041	0.27	-.12	057	0.28	.36	102	5.65	-1.04	Avg	0.106		Meth: 261.99 PCT		
420	0.27	-.23	035	0.28	.34	035	5.46	-1.21	040	0.099	-.94	Acid Soluble Manganese		
444	0.26	-.65	009	0.27	.30	Meth: 251.99 PPM			Meth: 261.30 PCT			<u>Other</u>		
023	0.26	-.82	040	0.27	.23	Lead			Acid Soluble Manganese			Avg		
027	0.26	-.84	043	0.27	.15	<u>Other</u>			ICP			009		
255	0.26	-.85	420	0.27	.14	136	6.50	.71	009	5.106 s	870.85	444		
049	0.27 R	-.89	423	0.27	.13	Meth: 251.XX PPM			354	0.106 R	1.57	255		
247	0.25	-1.19	041	0.27	.08	Lead			433	0.116	1.55	402		
232	0.24	-1.48	Avg	0.27		<u>ICP</u>			022	0.110	1.51	0.053 S		
065	0.24	-1.54	028	0.27	-.07	065	7.00	1.38	041	0.110	1.51	-3.26		
292	0.24	-1.72	351	0.27	-.08	450	7.00	.97						
						444	0.26	-.35						
						177	0.26	-.40						
						027	0.26	-.51						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.XX PCT			Meth: 261.XX PCT			Meth: 291.30 PPM			Meth: 321.30 PCT			Meth: 321.XX PCT		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Nickel</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
009	5.106 s	764.49	193	0.092	-1.16	<u>ICP</u>			432	0.190 s	27.56	432	0.190 s	29.95
231	0.980 s	94.94	292	0.090	-1.26	049	16.54	.25	426	0.096 s	7.26	426	0.096 s	7.98
137	0.120	1.98	095	0.090	-1.26	Avg 16.28			137	0.090 s	6.56	137	0.090 s	6.56
433	0.116	1.50	432	0.090	-1.26	232	16.05	-.27	450	0.086 s	5.16	450	0.086 s	5.70
354	0.106 R	1.41	255	0.082	-2.13	324	14.55	-1.37	106	0.075 R	2.94	029	0.079 R	4.20
022	0.110	1.41	402	0.053 s	-5.26	009	13.70	-2.05	049	0.070 R	2.72	106	0.075 R	3.28
041	0.110	1.41	Meth: 281.99 PPM			Meth: 311.99 PCT			433	0.073	2.22	049	0.070 R	3.01
029	0.114	1.32	Mercury			Sodium			354	0.069 R	1.93	433	0.073	2.51
360	0.112	1.17	<u>Other</u>			<u>Other</u>			041	0.070	1.66	354	0.069 R	2.17
423	0.112	1.07	009	0.01	.71	422	0.34	2.12	102	0.070	1.58	041	0.070	1.91
037	0.108	.94	Meth: 289.30 PPM			035	0.28	.61	247	0.069	1.54	102	0.070	1.82
262	0.110	.90	Molybdenum			Avg 0.25			057	0.065	.66	247	0.069	1.78
324	0.104	.73	<u>ICP</u>			102	0.24	-.36	420	0.064	.41	262	0.065 R	1.38
057	0.107	.72	106	5.50	1.98	057	0.23	-.40	233	0.062	.31	296	0.062	.93
043	0.107	.72	035	4.89	.77	009	0.23	-.53	037	0.063	.26	057	0.065	.82
049	0.105	.65	037	4.68	.51	423	0.23	-.61	023	0.063	.26	040	0.065	.64
106	0.105	.65	232	4.70	.47	232	0.22	-.83	131	0.063	.08	177	0.064	.56
065	0.107	.60	057	4.60	.44	Meth: 321.00 PCT			Avg	0.062		055	0.063	.54
131	0.107	.55	433	4.59	.26	Acid Soluble Zinc			423	0.062	-.20	420	0.064	.53
102	0.107	.55	Avg	4.44		<u>Atomic Absorption</u>			360	0.061	-.35	444	0.064	.41
028	0.103	.42	324	4.00	-.74	137	0.090 s	7.30	009	0.061	-.38	037	0.063	.36
426	0.103	.18	009	4.00	-.75	029	0.079 A	4.72	292	0.060	-.49	023	0.063	.36
Avg	0.102		102	3.77	-1.17	262	0.065	1.59	022	0.060	-.49	233	0.062	.36
136	0.100	-.18	247	3.65	-1.33	296	0.062	1.03	035	0.060	-.52	043	0.062	.24
422	0.100	-.21	065	3.91 R	-1.69	040	0.065	.84	231	0.060	-.61	131	0.063	.19
420	0.101	-.23	Meth: 291.30 PPM			177	0.064	.74	065	0.060	-.74	Avg	0.062	
027	0.100	-.24	Nickel			055	0.063	.68	255	0.058	-.86	423	0.062	-.14
035	0.100	-.33	<u>ICP</u>			043	0.062	.32	324	0.056	-1.32	360	0.061	-.30
351	0.098	-.47	247	37.00 s	16.42	Avg	0.061		027	0.056	-1.35	009	0.061	-.30
040	0.099	-.61	450	17.50	1.04	095	0.060	-.32	232	0.056	-1.35	292	0.060	-.42
023	0.099	-.68	065	16.91	.89	028	0.059	-.52	422	0.036 s	-5.77	022	0.060	-.42
096	0.095	-.72	035	17.05	.80	428	0.058	-.80	Meth: 321.99 PCT			095	0.060	-.42
233	0.097	-.81	102	17.03	.60	351	0.054	-1.76	Acid Soluble Zinc			035	0.060	-.46
296	0.095	-.90	106	17.00	.57	<u>Other</u>			Avg 0.061			231	0.060	-.55
232	0.094	-1.03	037	16.49	.28	444	0.064	.87	042			028	0.059	-.61
177	0.092	-1.10				Avg 0.061			402			065	0.060	-.74
055	0.098	-1.12				402			0.059			402	0.059	-.78
444	0.091	-1.15				-.87			255			255	0.058	-.82

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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>
Meth: 321.XX PCT											
<u>Acid Soluble Zinc</u>											
428	0.058	-.85									
324	0.056	-1.32									
027	0.056	-1.35									
232	0.056	-1.35									
351	0.054	-1.74									
422	0.036 s	-6.14									

* 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	2	0.00	1.22	0.05	101.30	18	1.98	10.98	0.37
001.99	3	0.00	1.12	0.03	101.XX	19	1.95	11.07	0.38
001.XX	5	0.00	1.06	0.03	121.00	14	- 0.68	2.75	0.15
009.10	3	0.00	0.25	0.89	121.30	31	0.23	2.66	1.46
009.XX	3	0.00	0.25	0.89	121.XX	45	- 0.07	2.72	1.18
010.11	6	- 1.92	3.35	0.13	131.30	3	0.00	1.11	0.09
010.12	2	0.00	1.21	0.12	131.XX	4	0.00	1.08	0.03
010.60	56	0.06	1.26	0.28	144.01	18	- 0.17	1.17	0.42
010.99	6	- 0.92	2.44	0.18	144.99	16	- 0.20	1.28	0.17
010.XX	68	- 0.32	1.93	0.30	144.XX	35	- 0.45	1.65	0.25
020.10	6	0.00	1.01	0.27	151.30	7	- 0.18	1.06	0.41
020.20	17	- 0.28	1.69	0.28	151.XX	8	- 0.17	1.06	0.41
020.40	3	0.00	1.03	0.35	165.00	9	0.686	2.253	0.387
020.50	9	0.43	1.59	0.28	165.99	16	2.409	8.518	0.553
020.99	2	0.00	1.22	0.01	165.XX	25	1.894	7.472	0.518
020.XX	35	- 0.11	1.73	0.34	171.99	2	0.000	1.225	0.000
030.XX	4	0.11	0.94	0.41	171.XX	3	0.000	1.118	0.000
040.40	2	0.00	1.17	0.25	181.30	11	52.82	174.67	0.84
040.50	2	0.00	1.17	0.25	181.XX	13	28.61	102.82	0.50
040.XX	6	0.00	1.04	0.08	190.XX	2	0.00	1.10	0.39
041.10	19	0.00	0.93	0.42	191.30	10	0.00	1.01	0.16
041.20	3	- 20.77	141.82	1.69	191.XX	10	0.00	1.01	0.16
041.40	5	0.00	1.05	0.15	202.30	11	0.00	1.02	0.11
041.50	12	0.00	0.88	0.50	202.XX	12	0.00	1.01	0.12
041.60	11	- 0.01	0.95	0.48	221.00	6	- 0.168	1.0236	0.3781
041.XX	41	- 0.25	2.43	0.50	221.30	21	0.0082	1.0513	0.2897
048.20	3	0.00	1.11	0.12	221.XX	28	- 0.030	1.0395	0.3159
048.XX	3	0.00	1.11	0.12	241.00	14	- 0.21	1.78	0.17
050.00	19	- 0.08	1.95	0.68	241.30	27	0.28	1.44	0.32
050.30	12	0.22	1.18	0.16	241.99	2	0.00	1.22	0.11
050.31	2	0.00	1.22	0.07	241.XX	43	0.03	1.48	0.23
050.50	6	0.00	1.04	0.14	251.30	8	0.00	0.85	0.56
050.51	13	0.00	0.98	0.26	251.XX	9	0.00	0.82	0.59
050.60	5	0.00	0.99	0.33	261.00	11	- 0.029	0.936	0.402
050.61	11	0.42	1.69	0.54	261.11	2	0.000	1.102	0.378
050.99	12	9.73	32.61	32.73	261.30	25	24.654	123.20	123.11
050.XX	72	0.88	7.60	12.85	261.99	4	- 0.814	1.834	0.302
060.00	5	0.00	1.03	0.23	261.XX	43	14.673	83.428	82.397
060.XX	6	0.00	1.03	0.17	289.30	11	- 0.08	0.95	0.54

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
289.XX	11	- 0.08	0.95	0.54					
291.30	11	1.49	5.04	0.32					
291.XX	11	1.49	5.04	0.32					
311.99	7	0.00	1.04	0.07					
311.XX	7	0.00	1.04	0.07					
321.00	12	0.986	2.496	0.642					
321.30	29	1.371	5.492	0.703					
321.99	2	0.000	1.201	0.170					
321.XX	42	1.180	5.035	0.690					