

- Pass 1 Results for 89 Labs - - Pass 2 Results for 89 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	10.12	0.32	0.08	6	10.12	0.32	0.08
Ammoniacal Nitrogen, Other		001.99	12	10.23	0.29	0.08	10	10.26	0.27	0.03
Method Group 001.XX PCT			18	10.19	0.30	0.08	15	10.23	0.28	0.04
Nitrate Nitrogen, Other		002.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	0.55	0.16	0.22	1	0.55	0.16	0.22
Ammon & Nitrate N, Devarda	892.01	009.10	5	10.47	0.34	0.05	5	10.47	0.34	0.05
Total Nitrogen, Reduced Iron		010.10	1	10.50	0.14	0.20	1	10.50	0.14	0.20
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	10.37	0.09	0.02	4	10.37	0.09	0.02
Total Nitrogen, Salicylic	955.04D	010.12	4	10.12	0.23	0.09	3	10.18	0.22	0.02
Total Nitrogen, Combustion		010.60	58	10.28	0.22	0.08	54	10.29	0.21	0.06
Total Nitrogen, Other		010.99	3	10.28	0.12	0.10	3	10.28	0.12	0.10
Method Group 010.XX PCT			70	10.28	0.21	0.08	65	10.30	0.20	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	8	51.40	0.76	0.41	7	51.59	0.38	0.14
Total Phosphate, Spectrometric	958.01	020.20	15	51.31	0.83	0.41	14	51.43	0.64	0.28
Total Phosphate, Automated	978.01	020.40	7	51.28	0.38	0.20	6	51.34	0.33	0.08
Total Phosphate, ICP		020.50	13	50.20	1.27	0.51	13	50.20	1.27	0.51
Total Phosphate, Other		020.99	9	50.39	0.92	0.14	8	50.26	0.89	0.10
Method Group 020.XX PCT			53	50.83	1.12	0.36	50	50.84	1.10	0.27
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.25	0.01	0.02	1	0.25	0.01	0.02
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.51	0.17	0.13	2	0.51	0.17	0.13
Insoluble Phosphate, Automated	978.01	030.40	2	0.32	0.08	0.01	2	0.32	0.08	0.01
Insoluble Phosphate, ICP		030.50	1	0.18	0.00	0.00	1	0.18	0.00	0.00
Insoluble Phosphate, Other		030.99	2	0.51	0.08	0.10	2	0.51	0.08	0.10
Method Group 030.XX PCT			8	0.39	0.16	0.06	7	0.35	0.13	0.04
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	51.22	0.33	0.07	2	51.22	0.33	0.07
InDir Available Phosphate, Spectrometri	960.02	040.20	2	50.88	0.42	0.13	2	50.88	0.42	0.13
InDir Available Phosphate, Automated ..	960.02	040.40	3	51.13	0.25	0.09	3	51.13	0.25	0.09
InDir Available Phosphate, Other		040.99	2	51.19	0.20	0.18	2	51.19	0.20	0.18
Method Group 040.XX PCT			9	51.11	0.30	0.11	9	51.11	0.30	0.11
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	12	51.04	0.68	0.15	11	51.06	0.69	0.09
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	50.18	0.34	0.42	3	50.18	0.34	0.42
Dir Available Phosphate, Automated	978.01	041.40	2	51.61	0.36	0.21	2	51.61	0.36	0.21
Dir Available Phosphate, ICP		041.50	8	50.15	1.05	0.56	8	50.15	1.05	0.56
Dir Available Phosphate, EDTA Extract .	993.01	041.60	10	51.02	0.33	0.18	10	51.02	0.33	0.18
Dir Available Phosphate, Other		041.99	1	51.65	1.06	1.50	1	51.65	1.06	1.50
Method Group 041.XX PCT			36	50.81	0.81	0.31	34	50.81	0.79	0.23
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	43.53	0.21	0.13	3	43.53	0.21	0.13
Water Soluble Phosphate, Other		048.99	1	43.98	0.10	0.14	1	43.98	0.10	0.14
Method Group 048.XX PCT			4	43.64	0.28	0.13	4	43.64	0.28	0.13

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Soluble Potash, STPB Oxalate	958.02	050.00	2	0.35	0.24	0.06	2	0.35	0.24	0.06
Soluble Potash, ICP (Oxalate)		050.50	2	0.52	0.29	0.07	2	0.52	0.29	0.07
Soluble Potash, ICP (Citrate)		050.51	2	0.33	0.03	0.04	2	0.33	0.03	0.04
Soluble Potash, Other		050.99	4	0.42	0.13	0.01	4	0.42	0.13	0.01
Method Group 050.XX PCT			10	0.41	0.18	0.04	10	0.41	0.18	0.04
Free Water, Vacuum Oven	965.08B	060.00	7	1.50	0.16	0.07	7	1.50	0.16	0.07
Free Water, Vacuum Desiccate	965.08A	060.10	1	1.28	0.01	0.02	1	1.28	0.01	0.02
Free Water, Other		060.99	1	1.75	0.13	0.19	1	1.75	0.13	0.19
Method Group 060.XX PCT			9	1.50	0.18	0.08	9	1.50	0.18	0.08
Acid Soluble Calcium, ICP		101.30	16	0.61	0.03	0.01	15	0.61	0.03	0.01
Acid Soluble Magnesium, AA	984.01	121.00	1	0.76	0.01	0.01	1	0.76	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	17	0.94	0.08	0.01	16	0.94	0.08	0.01
Method Group 121.XX PCT			18	0.93	0.09	0.01	17	0.93	0.09	0.01
Sulfur, Gravimetric	980.02a	144.01	8	1.44	0.10	0.04	8	1.44	0.10	0.04
Sulfur, Spectrometric		144.70	1	1.41	0.03	0.04	1	1.41	0.03	0.04
Sulfur, Other		144.99	24	1.32	0.08	0.02	23	1.32	0.08	0.02
Method Group 144.XX PCT			35	1.35	0.12	0.03	33	1.35	0.12	0.02
Arsenic, Atomic Absorption		151.00	1	17.35	0.49	0.70	1	17.35	0.49	0.70
Arsenic, ICP		151.30	10	15.51	1.64	0.92	9	15.43	1.53	0.53
Arsenic, Other		151.99	3	14.24	1.74	0.19	3	14.24	1.74	0.19
Method Group 151.XX PPM			15	14.98	2.23	0.81	13	14.78	2.21	0.35
Acid Soluble Boron, Other		165.99	6	0.025	0.020	0.002	6	0.025	0.020	0.002
Cadmium, Atomic Absorption		181.00	2	3.77	1.02	0.25	2	3.77	1.02	0.25
Cadmium, ICP		181.30	13	3.63	1.05	0.20	12	3.57	1.06	0.16
Cadmium, Other		181.99	2	3.32	0.11	0.06	2	3.32	0.11	0.06
Method Group 181.XX PPM			17	3.61	0.97	0.19	16	3.56	0.98	0.16
Chromium, ICP		191.30	15	129.55	10.68	6.70	13	130.95	7.85	2.35
Chromium, Other		191.99	2	122.28	2.02	2.35	2	122.28	2.02	2.35
Method Group 191.XX PPM			17	128.70	10.31	6.19	15	129.79	7.91	2.35
Acid Soluble Cobalt, AA		202.00	1	4.50	0.71	1.00	1	4.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	10	4.39	0.53	0.29	10	4.39	0.53	0.29
Acid Soluble Cobalt, Other		202.99	2	4.10	0.22	0.24	2	4.10	0.22	0.24
Method Group 202.XX PPM			13	4.35	0.50	0.34	13	4.35	0.50	0.34
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0003	0.0003	0.0000	3	0.0003	0.0004	0.0000
Acid Soluble Copper, ICP		221.30	8	0.0005	0.0007	0.0001	6	0.0004	0.0007	0.0000
Acid Soluble Copper, Other		221.99	2	0.0001	0.0000	0.0000	2	0.0001	0.0000	0.0000
Method Group 221.XX PCT			14	0.0004	0.0006	0.0001	12	0.0003	0.0006	0.0000
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	2	2.47	0.05	0.07	2	2.47	0.05	0.07
Acid Soluble Iron, ICP		241.30	17	2.56	0.14	0.05	17	2.56	0.14	0.05

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Method Group 241.XX PCT			19	2.55	0.13	0.05	19	2.55	0.13	0.05
Lead, ICP		251.30	11	4.77	1.70	0.46	11	4.77	1.70	0.46
Lead, Other		251.99	2	3.45	0.31	0.07	2	3.45	0.31	0.07
Method Group 251.XX PPM			13	4.56	1.63	0.40	12	4.36	1.51	0.32
Acid Soluble Manganese, ICP	972.02a	261.30	13	0.025	0.001	0.001	12	0.026	0.001	0.001
Acid Soluble Manganese, Other		261.99	3	0.024	0.002	0.000	3	0.024	0.002	0.000
Method Group 261.XX PCT			16	0.025	0.002	0.001	15	0.025	0.001	0.001
Mercury, ICP		281.30	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Mercury, Other		281.99	1	0.16	0.06	0.09	1	0.16	0.06	0.09
Method Group 281.XX PPM			2	0.08	0.10	0.04	2	0.08	0.10	0.04
Molybdenum, ICP		289.30	15	11.67	1.24	0.39	15	11.67	1.24	0.39
Molybdenum, Other		289.99	3	12.71	0.43	0.24	3	12.71	0.43	0.24
Method Group 289.XX PPM			18	11.85	1.20	0.36	18	11.85	1.20	0.36
Nickel, ICP		291.30	14	17.94	3.00	0.66	13	17.86	3.05	0.40
Nickel, Other		291.99	2	17.27	0.58	0.64	2	17.27	0.58	0.64
Method Group 291.XX PPM			16	17.86	2.82	0.65	15	17.78	2.85	0.43
Selenium, ICP		301.30	2	0.00	0.00	0.00	2	0.00	0.00	0.00
Selenium, Other		301.99	2	0.67	0.61	0.08	2	0.67	0.61	0.08
Method Group 301.XX PPM			4	0.33	0.54	0.04	3	0.05	0.07	0.01
Sodium, Flame Photometric	974.01	311.30	1	0.25	0.01	0.01	1	0.25	0.01	0.01
Sodium, Other		311.99	9	0.23	0.02	0.01	9	0.23	0.02	0.01
Method Group 311.XX PCT			10	0.23	0.02	0.01	10	0.23	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	2	0.005	0.001	0.001	2	0.005	0.001	0.001
Acid Soluble Zinc, ICP		321.30	22	0.005	0.001	0.000	21	0.005	0.001	0.000
Acid Soluble Zinc, Other		321.99	3	0.005	0.001	0.000	3	0.005	0.001	0.000
Method Group 321.XX PCT			27	0.005	0.001	0.000	24	0.005	0.001	0.000
Water Soluble Zinc, Other		325.99	1	0.000	0.000	0.000	1	0.000	0.000	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 001.XX PCT			Meth: 010.11 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
Ammoniacal Nitrogen			Ammoniacal Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Modified Comprehensi</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
405	10.40	.86	409	10.35	.40	114	10.45	.86	040	10.40	.51	042	9.95 R	-2.03
444	10.37	.79	255	10.32	.31	474	10.41	.41	262	10.40	.51	260	9.86	-2.09
470	10.32	.61	470	10.32	.29	211	10.40	.33	162	10.38	.50	023	9.73	-2.70
416	10.24	.38	416	10.24	.02	Avg	10.37		106	10.38	.46			
Avg	10.12		Avg	10.23		456	10.22	-1.57	377	10.35	.25	Meth: 010.99 PCT		
232	9.73	-1.25	200	10.01	-.81				426	10.33	.23	Total Nitrogen		
456	9.65	-1.44	234	9.80 R	-1.66	Meth: 010.12 PCT			177	10.31	.21	<u>Other</u>		
230	5.98 S	-12.73	232	9.73 R	-1.88	Total Nitrogen			402	10.31	.09	371	10.37	.73
			456	9.65	-2.12	<u>Salicylic</u>			389	10.30	.03	476	10.33	.60
Meth: 001.99 PCT			027	9.54	-2.52	185	10.40	1.00	Avg	10.29		Avg	10.28	
Ammoniacal Nitrogen			368	8.64 s	-5.80	351	10.23	.20	041	10.28	-.11	030	10.16	-1.27
<u>Other</u>			230	5.98 s	-15.42	Avg	10.18		027	10.27	-.12			
419	10.35 R	.65				455	9.93	-1.21	232	10.29	-.13	Meth: 010.XX PCT		
477	10.42	.59	Meth: 002.99 PCT			254	9.95 R	-1.30	368	10.27	-.13	<u>Total Nitrogen</u>		
137	10.41	.57	Nitrate Nitrogen						409	10.27	-.14	255	10.73	2.18
371	10.41	.56	<u>Other</u>			Meth: 010.60 PCT			073	10.27	-.18	230	10.70	2.00
096	10.40	.53	477	0.00	.00	Total Nitrogen			037	10.27	-.22	043	10.69	1.96
473	10.37	.40				<u>Combustion</u>			231	10.25	-.28	354	10.64	1.73
460	10.35	.39	Meth: 005.00 PCT			255	10.73	2.12	009	10.25	-.31	419	10.50	1.13
409	10.35	.33	Nitrogen From Urea			230	10.70	1.94	086	10.29	-.37	444	10.52	1.10
255	10.32	.24	<u>Urease (as N)</u>			043	10.69	1.90	035	10.21	-.46	034	10.50	1.01
Avg	10.26		232	0.55	-.71	354	10.64	1.68	307	10.23	-.47	233	10.49	.97
200	10.01	-.90				444	10.52	1.07	234	10.17	-.59	296	10.49	.97
234	9.80 R	-1.75	Meth: 009.10 PCT			034	10.50	.99	024	10.23	-.60	291	10.49	.96
027	9.54	-2.63	Ammon & Nitrate N			233	10.49	.95	406	10.16	-.67	247	10.48	.92
368	8.64 s	-5.96	<u>Devarda</u>			296	10.49	.94	157	10.15	-.72	007	10.45	.80
			257	11.10	1.88	291	10.49	.94	451	10.13	-.80	029	10.39 R	.80
Meth: 001.XX PCT			Avg	10.47		247	10.48	.90	057	10.13	-.87	055	10.46	.79
<u>Ammoniacal Nitrogen</u>			477	10.35	-.36	007	10.45	.79	422	10.09	-1.01	330	10.35 R	.79
419	10.35 R	.69	258	10.34	-.41	029	10.39 R	.78	360	10.07	-1.07	131	10.45	.78
477	10.42	.66	090	10.30	-.52	055	10.46	.78	443	10.07	-1.07	114	10.45	.77
137	10.41	.63	471	10.26	-.63	330	10.35 R	.77	136	10.04	-1.21	390	10.40	.71
371	10.41	.63				131	10.45	.76	325	10.00	-1.40	096	10.44	.69
096	10.40	.60	Meth: 010.10 PCT			390	10.40	.70	450	10.00	-1.40	292	10.44	.69
405	10.40	.59	Total Nitrogen			096	10.44	.68	095	9.99	-1.45	405	10.41	.57
444	10.37	.53	<u>Reduced Iron</u>			292	10.44	.68	102	10.00	-1.45	474	10.41	.55
473	10.37	.47	419	10.50	.71	405	10.41	.56	324	9.92 R	-1.98	040	10.40	.52

* 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>		
262	10.40	.52	450	10.00	-1.46	<u>Spectrometric</u>			<u>ICP</u>			416	51.44	.54
185	10.40	.52	325	10.00	-1.46	363	51.38	-.15	451	46.40 s	-3.18	470	51.43	.53
211	10.40	.52	102	10.00	-1.51	474	51.16	-.44				117	51.39	.49
162	10.38	.51	095	9.99	-1.51	234	51.18	-.48	Meth: 020.99 PCT			363	51.38	.49
106	10.38	.46	455	9.93	-1.83	471	50.77	-1.21	<u>Total Phosphate</u>			390	51.25	.49
371	10.37	.35	254	9.95 R	-1.87	257	49.82	-2.51	<u>Other</u>			460	51.30	.42
476	10.33	.31	324	9.92 R	-2.06	230	49.65 R	-3.30	258	51.44 R	1.35	042	50.95	.42
377	10.35	.25	042	9.95 R	-2.11	371	22.30 s	-45.32	460	51.30	1.18	409	51.30	.42
426	10.33	.23	260	9.86	-2.17	Meth: 020.40 PCT			041	51.27	1.14	041	51.27	.39
177	10.31	.21	023	9.73	-2.80	<u>Total Phosphate</u>			443	51.06	.91	456	51.28	.39
402	10.31	.09	Meth: 020.10 PCT			<u>Automated</u>			Avg	50.26		368	51.22	.38
389	10.30	.02	<u>Total Phosphate</u>			096	51.68	1.05	477	50.17	-.11	234	51.18	.35
Avg	10.30		<u>Grav Quimociac</u>			247	51.59	.76	322	50.16	-.12	474	51.16	.29
041	10.28	-.12	444	52.32	1.94	095	51.47	.45	476	49.82	-.51	043	51.15	.27
232	10.29	-.13	114	51.67	.68	Avg	51.34		137	49.65	-.70	443	51.06	.21
027	10.27	-.13	090	51.75	.48	456	51.28	-.21	455	48.68	-1.79	Avg	50.84	
368	10.27	-.14	Avg	51.59		409	51.30	-.32	Meth: 020.XX PCT			035	50.73	-.11
409	10.27	-.15	416	51.44	-.42	042	50.95 R	-1.82	<u>Total Phosphate</u>			471	50.77	-.37
073	10.27	-.19	470	51.43	-.42	035	50.73	-1.87	232	52.57	1.58	477	50.17	-.61
037	10.27	-.23	117	51.39	-.54	Meth: 020.50 PCT			444	52.32	1.34	322	50.16	-.62
231	10.25	-.30	043	51.15	-1.18	<u>Total Phosphate</u>			432	51.90 R	1.11	422	50.10	-.68
009	10.25	-.33	157	50.05 R	-5.10	<u>ICP</u>			324	51.85	1.04	477	50.09	-.69
351	10.23	-.34	262	47.80 s	-10.06	432	51.90	1.42	405	51.80	.87	426	49.95	-.93
456	10.22	-.38	Meth: 020.20 PCT			402	51.73	1.22	402	51.73	.85	257	49.82	-.94
086	10.29	-.39	<u>Total Phosphate</u>			402	51.73	1.22	090	51.75	.83	476	49.82	-.94
035	10.21	-.49	<u>Spectrometric</u>			247	51.50	1.02	419	51.72	.81	291	49.78	-.97
307	10.23	-.50	232	52.57	1.79	390	51.25	.87	114	51.67	.78	137	49.65	-1.09
024	10.23	-.62	368	51.22	.81	368	51.22	.81	096	51.68	.76	389	49.60	-1.15
234	10.17	-.63	Avg	50.20		422	50.10	-.09	450	51.67	.75	157	50.05 R	-1.27
406	10.16	-.70	477	50.09	-.13	477	50.09	-.13	473	51.63	.71	230	49.65 R	-1.51
157	10.15	-.76	291	49.78	-.33	291	49.78	-.33	247	51.59	.67	255	49.10	-1.58
030	10.16	-.79	426	49.95	-.43	426	49.95	-.43	231	51.55	.64	455	48.68	-1.97
451	10.13	-.84	389	49.60	-.50	389	49.60	-.50	406	51.53	.62	330	48.35	-2.30
057	10.13	-.91	255	49.10	-.87	255	49.10	-.87	247	51.50	.59	307	48.06	-2.57
422	10.09	-1.05	330	48.35	-1.50	330	48.35	-1.50	258	51.44	.58	262	47.80	-2.77
360	10.07	-1.12	307	48.06	-1.72	307	48.06	-1.72	095	51.47	.57	451	46.40 s	-4.23
443	10.07	-1.12	Avg			Avg			292	51.47	.56	371	22.30 s	-25.95
136	10.04	-1.27	Avg			Avg								

* 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: 030.10 PCT			Meth: 030.XX PCT			Meth: 040.XX PCT			Meth: 041.40 PCT			Meth: 041.XX PCT		
<u>Insoluble Phosphate</u>			<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>Grav Quimociac</u>									<u>Automated</u>					
090	0.25	.71	090	0.25	-.80	200	51.11		131	51.33	-.80	095	52.21 s	2.59
			255	0.18	-1.33	247	51.05	-.25				254	52.32	1.91
Meth: 030.20 PCT			Meth: 040.10 PCT			300			Meth: 041.50 PCT			027		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			409			<u>Dir Available Phosph</u>			086		
<u>Spectrometric</u>			<u>Grav Quim</u>			474			<u>ICP</u>			354		
474	0.63	1.01	090	51.50	.88				354	51.67	1.45	009	51.40	.75
Avg	0.51		Avg	51.22		Meth: 041.10 PCT			368	50.20	.82	034	51.36	.71
473	0.40	-.69	300	50.93	-.85	<u>Dir Available Phosph</u>			007	50.87	.78	211	51.34	.67
Meth: 030.40 PCT			Meth: 040.20 PCT			<u>Grav Quimociac</u>			377			029		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			254			360			131		
<u>Automated</u>			<u>Spectrometri</u>			086			Avg			131		
409	0.39	.87	473	51.23	.86	009	51.40	.49	291	49.73	-.41	040	51.30	.62
Avg	0.32		Avg	50.88		211	51.34	.40	255	48.92	-1.17	351	51.26	.57
096	0.25	-.86	474	50.52	-.87	131	51.33	.38	023	49.29 s	-1.33	233	51.26	.56
Meth: 030.50 PCT			Meth: 040.40 PCT			040			055			007		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			Avg			325			177		
<u>ICP</u>			<u>Automated</u>			177			Meth: 041.60 PCT			073		
255	0.18	.00	096	51.43	1.20	022	50.80 R	-.69	<u>Dir Available Phosph</u>			043		
Meth: 030.99 PCT			Meth: 040.99 PCT			055			<u>EDTA Extract</u>			Avg		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			102			034			136		
<u>Other</u>			<u>Other</u>			260			029			106		
247	0.53	.34	409	51.05	-.37	185	49.91	-1.67	351	51.26	.75	055	50.51	-.39
Avg	0.51		Meth: 041.20 PCT			Meth: 041.20 PCT			233			102		
405	0.48	-1.18	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			177			360		
Meth: 030.XX PCT			<u>Spectrometric</u>			<u>Spectrometric</u>			Avg			022		
<u>Insoluble Phosphate</u>			419			419			073			024		
474	0.63 R	2.35	030	51.32	1.04	030	50.22	.25	043	50.97	-.27	377	50.64	-.59
247	0.53	1.36	Avg	51.19		Avg	50.18		136	50.77	-.83	260	50.33	-.67
405	0.48	1.19	200	51.07	-.65	363	50.06	-.39	106	50.77	-1.05	030	50.22	-.76
473	0.40	.32	Meth: 040.XX PCT			Meth: 041.40 PCT			024			419		
409	0.39	.29	<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			Meth: 041.99 PCT			363		
Avg	0.35		<u>Other</u>			<u>Automated</u>			<u>Dir Available Phosph</u>			185		
096	0.25	-.80	090			095			<u>Other</u>			368		
			096			027			230			291		
			405			Avg			255			023		
			473			51.61			48.92			255		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.XX PCT			Meth: 050.51 PCT			Meth: 060.00 PCT			Meth: 101.30 PCT			Meth: 121.30 PCT		
<u>Dir Available Phosph</u>			Soluble Potash			Free Water			Acid Soluble Calcium			Acid Soluble Magnesi		
055	48.66	-2.73	<u>ICP (Citrate)</u>			<u>Vacuum Oven</u>			<u>ICP</u>			<u>ICP</u>		
325	27.48 s	-40.93	377	0.33	1.16	456	1.27	-1.51	419	0.62	.08	035	0.85	-1.07
Meth: 048.20 PCT			389	0.33	.39	Meth: 060.10 PCT			131	0.62	.05	474	0.81	-1.59
Water Soluble Phosph			Avg	0.33		Free Water			Avg	0.61		389	0.80	-1.65
<u>Spectrometric</u>			Meth: 050.99 PCT			<u>Vacuum Desiccate</u>			390	0.61	-.11	Meth: 121.XX PCT		
096	43.78	1.21	Soluble Potash			419	1.28	.71	232	0.61	-.24	<u>Acid Soluble Magnesi</u>		
Avg	43.53		<u>Other</u>			Meth: 060.99 PCT			247	0.61	-.31	473	1.62 s	7.57
363	43.45	-.50	474	0.62	1.58	Free Water			474	0.60	-.58	041	1.24 s	3.48
474	43.36	-.88	Avg	0.42		<u>Other</u>			307	0.59 R	-1.00	422	1.15	2.38
Meth: 048.99 PCT			325	0.40	-.18	Meth: 060.XX PCT			035	0.58	-1.03	096	1.03	1.12
Water Soluble Phosph			232	0.34	-.66	Free Water			009	0.57	-1.21	354	0.99	.73
<u>Other</u>			307	0.33	-.74	Free Water			389	0.55	-2.02	419	0.98	.58
247	43.98	.71	Meth: 050.XX PCT			<u>Free Water</u>			Meth: 121.00 PCT			057	0.97	.45
Meth: 048.XX PCT			Soluble Potash			443	1.75	1.43	Acid Soluble Magnesi			102	0.96	.31
Water Soluble Phosph			422	0.77	1.99	096	1.73	1.22	<u>AA</u>			363	0.95	.26
247	43.98	1.25	474	0.62	1.16	363	1.67	1.04	471	0.76	-.71	232	0.94	.21
096	43.78	.52	009	0.55	.80	416	1.51	.11	Meth: 121.30 PCT			390	0.94	.16
Avg	43.64		Avg	0.41		Avg	1.50		Acid Soluble Magnesi			247	0.94	.14
363	43.45	-.74	325	0.40	-.05	473	1.48	-.18	<u>ICP</u>			131	0.94	.11
474	43.36	-1.06	232	0.34	-.38	247	1.47	-.37	473	1.62 s	8.15	Avg	0.93	
Meth: 050.00 PCT			307	0.33	-.44	007	1.40	-.62	041	1.24 S	3.68	009	0.91 R	-.36
Soluble Potash			389	0.33	-.44	419	1.28	-1.24	422	1.15	2.48	086	0.89	-.46
<u>STPB Oxalate</u>			377	0.33	-.47	456	1.27	-1.33	096	1.03	1.10	307	0.89	-.49
009	0.55	.85	354	0.27	-.81	Meth: 101.30 PCT			422	1.15	2.48	035	0.85	-.86
Avg	0.35		022	0.15	-1.46	Acid Soluble Calcium			096	1.03	1.10	474	0.81	-1.34
022	0.15	-.88	Meth: 060.00 PCT			<u>ICP</u>			354	0.99	.67	389	0.80	-1.39
Meth: 050.50 PCT			Free Water			086	6.02 s	156.64	419	0.98	.51	471	0.76	-1.82
Soluble Potash			<u>Vacuum Oven</u>			422	1.13 s	14.96	057	0.97	.37	Meth: 144.01 PCT		
<u>ICP (Oxalate)</u>			096	1.73	1.42	473	0.97 s	10.29	102	0.96	.21	Sulfur		
422	0.77	.86	363	1.67	1.21	041	0.69	2.05	363	0.95	.16	<u>Gravimetric</u>		
Avg	0.52		416	1.51	.14	057	0.65	1.08	232	0.94	.15	230	1.59	1.55
354	0.27	-.87	Avg	1.50		354	0.65	1.05	247	0.94	.03	095	1.51	.68
Meth: 050.50 PCT			473	1.48	-.19	363	0.64	.91	Avg	0.94		262	1.50	.62
Soluble Potash			247	1.47	-.42	102	0.62	.20	131	0.94	-.05	043	1.48	.43
<u>ICP (Oxalate)</u>			007	1.40	-.70	096	0.62	.16	390	0.94	-.14	102	1.44	.04
422	0.77	.86	Meth: 060.00 PCT			Free Water			009	0.91 R	-.48	Avg	1.44	
Avg	0.52		Free Water			<u>Vacuum Oven</u>			086	0.89	-.62	Meth: 144.01 PCT		
354	0.27	-.87	Free Water			<u>ICP</u>			307	0.89	-.65	Sulfur		
Meth: 050.50 PCT			Free Water			086			Meth: 121.00 PCT			Gravimetric		
Soluble Potash			Free Water			422			Acid Soluble Magnesi			Sulfur		
<u>ICP (Oxalate)</u>			Free Water			473			Acid Soluble Magnesi			Gravimetric		
422	0.77	.86	Free Water			041			Acid Soluble Magnesi			Gravimetric		
Avg	0.52		Free Water			057			Acid Soluble Magnesi			Gravimetric		
354	0.27	-.87	Free Water			354			Acid Soluble Magnesi			Gravimetric		
Meth: 050.50 PCT			Free Water			473			Acid Soluble Magnesi			Gravimetric		
Soluble Potash			Free Water			041			Acid Soluble Magnesi			Gravimetric		
<u>ICP (Oxalate)</u>			Free Water			057			Acid Soluble Magnesi			Gravimetric		
422	0.77	.86	Free Water			354			Acid Soluble Magnesi			Gravimetric		
Avg	0.52		Free Water			473			Acid Soluble Magnesi			Gravimetric		
354	0.27	-.87	Free Water			041			Acid Soluble Magnesi			Gravimetric		
Meth: 050.50 PCT			Free Water			057			Acid Soluble Magnesi			Gravimetric		
Soluble Potash			Free Water			354			Acid Soluble Magnesi			Gravimetric		
<u>ICP (Oxalate)</u>			Free Water			473			Acid Soluble Magnesi			Gravimetric		
422	0.77	.86	Free Water			041			Acid Soluble Magnesi			Gravimetric		
Avg	0.52		Free Water			057			Acid Soluble Magnesi			Gravimetric		
354	0.27	-.87	Free Water			354			Acid Soluble Magnesi			Gravimetric		
Meth: 050.50 PCT			Free Water			473			Acid Soluble Magnesi			Gravimetric		
Soluble Potash			Free Water			041			Acid Soluble Magnesi			Gravimetric		
<u>ICP (Oxalate)</u>			Free Water			057			Acid Soluble Magnesi			Gravimetric		
422	0.77	.86	Free Water			354			Acid Soluble Magnesi			Gravimetric		
Avg	0.52		Free Water			473			Acid Soluble Magnesi			Gravimetric		
354	0.27	-.87	Free Water			041			Acid Soluble Magnesi			Gravimetric		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.01 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.XX PPM			Meth: 181.30 PPM		
Sulfur			Sulfur			Sulfur			Arsenic			Cadmium		
<u>Gravimetric</u>			<u>Other</u>									<u>ICP</u>		
324	1.34	-1.09	291	1.21	-1.48	422	1.26	-.76	368	16.15 R	1.19	096	8.45 s	4.59
444	1.33	-1.13	035	1.10	-2.88	086	1.26	-.77	136	17.35	1.18	419	6.45	2.71
296	1.33	-1.26	255	1.02 s	-3.80	231	1.27 R	-.89	450	16.50 R	1.03	477	4.95	1.30
Meth: 144.70 PCT			Meth: 144.XX PCT			Meth: 151.00 PPM			Meth: 165.99 PCT			Meth: 181.99 PPM		
Sulfur			Sulfur			Arsenic			Acid Soluble Boron			Cadmium		
<u>Spectrometric</u>			230 3.74 s 19.42			<u>Atomic Absorption</u>			<u>Other</u>			<u>Other</u>		
474	1.41	.71	360	1.65	2.39	136	17.35	-.71	009	0.049	1.18	409	3.41	.81
Meth: 144.99 PCT			137 1.51 1.28			Meth: 151.30 PPM			Avg 0.047			Avg 3.32		
Sulfur			095 1.51 1.25			Arsenic			354 0.036 .56			231 3.23 -.92		
<u>Other</u>			262 1.50 1.20			ICP			Avg 0.025			Meth: 181.XX PPM		
230	3.74 s	30.81	043	1.48	1.04	368	16.15 R	1.54	363	0.011	-.72	Cadmium		
360	1.65 s	4.14	102	1.44	.73	450	16.50	1.20	232	0.005	-1.03	096	8.45 s	5.00
137	1.51	2.41	419	1.42	.55	037	16.66	.81	409	0.005	-1.03	419	6.45	2.96
419	1.42	1.27	474	1.41	.49	009	16.56	.73	363	0.005	-1.03	477	4.95	1.42
354	1.38	.73	354	1.38	.22	102	16.39	.65	422	0.047	1.07	363	4.65	1.12
473	1.38	.70	473	1.38	.19	247	16.00	.37	354	0.036	.56	035	4.37 R	.90
027	1.37	.63	477	1.37	.16	Avg	15.43		Avg	0.025		Avg	3.56	
477	1.37	.60	027	1.37	.14	232	15.40	-.07	409	0.011	-.72	102	3.42	-.15
102	1.35	.41	Avg	1.35		474	14.85	-.38	363	0.011	-.72	009	3.47	-.15
232	1.35	.35	102	1.35	-.06	230	14.45	-.65	232	0.005	-1.03	409	3.41	-.16
409	1.34	.25	232	1.35	-.06	477	12.10	-2.18	409	0.005	-1.03	086	3.32	-.28
096	1.34	.25	409	1.34	-.10	444	9.64 s	-3.82	409	0.005	-1.03	232	3.25	-.33
247	1.33	.12	096	1.34	-.10	Meth: 151.99 PPM			Meth: 181.00 PPM			368 3.25 -.33		
390	1.33	.08	247	1.33	-.18	Arsenic			Cadmium					
450	1.33	.08	390	1.33	-.23	<u>Other</u>			<u>Atomic Absorption</u>					
Avg	1.32		450	1.33	-.23	231	16.39	1.24	363	4.65	.87			
037	1.32	-.13	037	1.32	-.28	Avg	14.24		Avg	3.77				
389	1.31	-.21	444	1.33	-.31	409	13.70	-.32	136	2.90	-.86			
363	1.29	-.40	324	1.34	-.32	086	12.63	-.93						
307	1.29	-.40	389	1.31	-.39									
009	1.29	-.44	307	1.29	-.50									
368	1.28	-.71	363	1.29	-.50									
422	1.26	-.79	296	1.33 R	-.50									
086	1.26	-.82	009	1.29	-.52									
231	1.27 R	-1.09	368	1.28	-.68									

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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.XX PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.30 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>		
231	3.23	-.34	102	139.18	1.19	ICP			ICP			095	0.0000	-.57
474	3.20	-.37	096	139.00	1.17	086	3.52	-1.67	324	0.0055 S	6.85			
247	3.30	-.41	009	136.60	1.02	422	0.01 s	-8.30	422	0.0045 S	5.52			
136	2.90	-.68	086	135.02	.91				354	0.0020	2.13			
230	2.73	-.85	368	136.50	.85	<u>Meth: 202.99 PPM</u>			086	0.0015 R	1.43	<u>Meth: 241.00 PCT</u>		
444	2.76	-.85	037	134.56	.61	<u>Acid Soluble Cobalt</u>			<u>Avg</u>			<u>Acid Soluble Iron</u>		
450	2.70	-.88	035	134.00	.55	<u>Other</u>			<u>057</u>			<u>Atomic Absorption</u>		
			419	131.00	.15	231	4.24	.94	433	0.0002	-.27	363	2.50	.95
			232	130.65	.15	<u>Avg</u>			419	0.0001	-.39	<u>Avg</u>		
<u>Meth: 191.30 PPM</u>			<u>Avg</u>			<u>409</u>			<u>450</u>			<u>Meth: 241.30 PCT</u>		
<u>Chromium</u>			<u>129.79</u>			<u>3.95</u>			<u>0.0001</u>			<u>Acid Soluble Iron</u>		
<u>ICP</u>			<u>477</u>			<u>-0.05</u>			<u>477</u>			<u>ICP</u>		
102	139.18	1.05	230	124.00	-.74	<u>Meth: 202.XX PPM</u>			<u>095</u>			<u>389</u>		
096	139.00	1.03	231	123.56	-.81	<u>Acid Soluble Cobalt</u>			<u>Meth: 221.99 PCT</u>			<u>057</u>		
009	136.60	.90	409	121.00	-1.12	<u>037</u>			<u>Acid Soluble Copper</u>			<u>102</u>		
086	135.02	.81	444	116.80	-1.64	<u>096</u>			<u>Other</u>			<u>354</u>		
368	136.50	.71	027	115.50	-1.81	<u>035</u>			<u>409</u>			<u>419</u>		
037	134.56	.46	474	116.00 R	-2.40	<u>474</u>			<u>0.0001</u>			<u>2.63</u>		
035	134.00	.41	450	125.00 R	-2.85	<u>102</u>			<u>Avg</u>			<u>473</u>		
419	131.00	.01				<u>368</u>			<u>231</u>			<u>086</u>		
Avg	130.95		<u>Meth: 202.00 PPM</u>			<u>057</u>			<u>Meth: 221.XX PCT</u>			<u>Avg</u>		
232	130.65	-.11	<u>Acid Soluble Cobalt</u>			<u>450</u>			<u>Acid Soluble Copper</u>			<u>035</u>		
477	129.50	-.19	<u>AA</u>			<u>009</u>			<u>324</u>			<u>131</u>		
230	124.00	-.89	474	4.50	.71	<u>Avg</u>			<u>422</u>			<u>041</u>		
444	116.80	-1.80	<u>Meth: 202.30 PPM</u>			<u>231</u>			<u>422</u>			<u>232</u>		
027	115.50	-1.97	<u>Acid Soluble Cobalt</u>			<u>409</u>			<u>354</u>			<u>096</u>		
474	116.00 R	-2.52	<u>ICP</u>			<u>419</u>			<u>086</u>			<u>009</u>		
450	125.00 R	-2.90	037	6.38 s	3.78	<u>232</u>			<u>460</u>			<u>247</u>		
			096	4.95	1.10	<u>086</u>			<u>043</u>			<u>390</u>		
			035	4.90	.97	<u>422</u>			<u>Avg</u>			<u>422</u>		
			102	4.82	.81	<u>Meth: 221.00 PCT</u>			<u>433</u>			<u>307</u>		
			057	4.47	.69	<u>Acid Soluble Copper</u>			<u>057</u>			<u>Meth: 241.XX PCT</u>		
			368	4.64	.68	<u>Atomic Absorption</u>			<u>419</u>			<u>Acid Soluble Iron</u>		
			450	4.45	.67	<u>460</u>			<u>409</u>			<u>389</u>		
			009	4.54	.31	<u>043</u>			<u>474</u>			<u>057</u>		
			Avg	4.39		<u>Avg</u>			<u>450</u>			<u>102</u>		
			419	3.85	-1.03	<u>474</u>			<u>231</u>			<u>354</u>		
			232	3.77	-1.18	<u>262</u>			<u>477</u>			<u>419</u>		
						<u>0.0000</u>			<u>262</u>			<u>2.66</u>		
						<u>-.78</u>			<u>0.0000</u>			<u>2.63</u>		

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.XX PCT			Meth: 251.99 PPM			Meth: 261.30 PCT			Meth: 281.30 PPM			Meth: 289.99 PPM		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Mercury</u>			<u>Molybdenum</u>		
086	2.58	.30	<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>		
473	2.58	.29	409	3.71	.86	009	0.025	-.49	450	0.00	.00	422	20.00 S	16.90
Avg	2.55		Avg	3.45		389	0.025	-.54				028	13.05	.79
035	2.54	-.09	231	3.18	-.87	131	0.025	-.62	Meth: 281.99 PPM			231	12.89	.64
131	2.52	-.37	Meth: 251.XX PPM			232	0.024	-1.01	<u>Mercury</u>			Avg	12.71	
041	2.52	-.41	<u>Lead</u>			307	0.024	-1.09	<u>Other</u>			409	12.20	-1.21
363	2.50	-.50	136	18.00 s	9.11	035	0.024	-1.17	086	0.16	-.71	Meth: 289.XX PPM		
232	2.48	-.52	419	8.50	2.74	086	0.024 R	-2.11	Meth: 281.XX PPM			<u>Molybdenum</u>		
096	2.48	-.57	035	7.03 R	1.82	Meth: 261.99 PCT			<u>Mercury</u>			422	20.00 s	6.78
009	2.46	-.63	086	4.96	.46	<u>Acid Soluble Manganese</u>			086	0.16	.92	028	13.05	1.00
247	2.46	-.65	450	5.00	.42	<u>Other</u>			Avg	0.08		057	12.89	.99
474	2.44	-.83	474	4.50	.34	474	0.027	1.28	450	0.00	-.80	419	13.00	.96
390	2.44	-.85	247	4.70	.24	Avg	0.024		Meth: 289.30 PPM			247	13.00	.96
422	2.40	-1.13	232	4.50	.13	363	0.023	-.54	<u>Molybdenum</u>			231	12.89	.88
307	2.35	-1.47	Avg	4.36		409	0.023	-.76	<u>ICP</u>			232	12.89	.87
Meth: 251.00 PPM			444	4.28	-.20	Meth: 261.XX PCT			057	12.89	1.09	474	12.40	.52
<u>Lead</u>			409	3.71	-.43	<u>Acid Soluble Manganese</u>			247	13.00	1.07	037	12.35	.42
<u>Atomic Absorption</u>			102	3.34	-.68	471	0.037 s	7.59	419	13.00	1.07	409	12.20	.31
136	18.00 S	.00	231	3.18	-.78	354	0.028	1.50	232	12.89	.99	102	12.19	.28
Meth: 251.30 PPM			477	2.95	-.93	041	0.028	1.50	474	12.40	.64	Avg	11.85	
<u>Lead</u>			230	2.67	-1.12	474	0.027	.88	037	12.35	.55	086	11.84	-.07
<u>ICP</u>			Meth: 261.00 PCT			057	0.026	.82	102	12.19	.41	035	11.40	-.38
419	8.50	2.20	<u>Acid Soluble Manganese</u>			422	0.026	.81	086	11.84	.15	433	11.28	-.48
035	7.03	1.39	<u>AA</u>			102	0.026	.58	Avg	11.67		450	11.50	-.51
086	4.96	.24	471	0.037 S	.00	096	0.026	.55	035	11.40	-.24	230	11.15	-.58
450	5.00	.14	Meth: 261.30 PCT			Avg	0.025		433	11.28	-.33	368	10.70	-.98
Avg	4.77		<u>Acid Soluble Manganese</u>			009	0.025	-.23	230	11.15	-.42	444	9.56	-1.92
247	4.70	-.07	<u>ICP</u>			389	0.025	-.24	450	11.50	-.43	009	8.96	-2.43
232	4.50	-.17	041	0.028	1.60	131	0.025	-.32	368	10.70	-.82	255	7.93 s	-3.38
474	4.50	-.33	354	0.028	1.60	232	0.024	-.62	444	9.56	-1.73	Meth: 291.30 PPM		
444	4.28	-.34	422	0.026	.89	307	0.024	-.68	009	8.96	-2.23	<u>Nickel</u>		
102	3.34	-.84	057	0.026	.82	035	0.024	-.75	255	7.93 S	-3.16	<u>ICP</u>		
477	2.95	-1.07	102	0.026	.46	363	0.023	-1.53	444			30.17 S	4.04	
230	2.67	-1.24	096	0.026	.44	086	0.024 R	-1.55	477			25.05	2.36	
			Avg	0.026		409	0.023	-1.81	419			24.00	2.01	
									450			19.00 R	.75	

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 291.30 PPM			Meth: 291.XX PPM			Meth: 311.99 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT		
<u>Nickel</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
ICP			474	16.00	-.63	Other			ICP			096	0.007	2.86
009	18.36	.21	232	15.13	-.93	009	0.24	.79	096	0.007	2.20	419	0.006	1.63
Avg	17.86		230	15.00	-.98	Avg	0.23		419	0.006	1.33	043	0.005 R	1.50
035	17.40	-.18				086	0.22	-.31	057	0.006	.86	409	0.006	1.32
037	17.25	-.20	Meth: 301.30 PPM			232	0.22	-.33	009	0.005	.57	057	0.006	.99
368	17.15	-.26	<u>Selenium</u>			474	0.22	-.76	368	0.005	.52	368	0.005	.58
102	17.05	-.26	<u>ICP</u>			307	0.21	-.80	095	0.005	.48	009	0.005	.56
247	17.00	-.28	450	0.00	.00	035	0.20	-1.74	402	0.005	.22	095	0.005	.44
096	16.50	-.47	477	0.00	.00	Meth: 311.XX PCT			354	0.005	.20	460	0.005	.20
086	16.29	-.53	Avg	0.00		<u>Sodium</u>			247	0.005	.07	231	0.005	.19
474	16.00	-.61				422	0.60 s	23.34	102	0.005	.07	354	0.005	.03
232	15.13	-.90	Meth: 301.99 PPM			477	0.25	1.12	477	0.005	.07	Avg	0.005	
230	15.00	-.94	<u>Selenium</u>			057	0.24	1.01	233	0.005	.07	037	0.005	-.17
			<u>Other</u>			102	0.24	.97	037	0.005	.07	233	0.005	-.21
			231	1.20	.87	363	0.24	.80	Avg	0.005		247	0.005	-.22
			Avg	0.67		009	0.24	.66	433	0.005	-.22	477	0.005	-.22
			086	0.14	-.86	Avg	0.23		307	0.005	-.25	102	0.005	-.22
						232	0.22	-.41	086	0.005	-.28	402	0.005	-.24
			Meth: 301.XX PPM			474	0.22	-.85	232	0.004	-.52	086	0.005	-.55
			<u>Selenium</u>			086	0.22	-.42	450	0.005	-.53	433	0.005	-.56
			231	1.20 R	15.87	474	0.22	-.85	230	0.004	-.90	307	0.005	-.62
			086	0.14	1.29	307	0.21	-.90	363	0.004	-1.01	474	0.004	-.84
			Avg	0.05		035	0.20	-1.82	324	0.003 R	-2.30	450	0.005	-.88
			477	0.00	-.64	Meth: 321.00 PCT			255	0.002	-3.10	232	0.004	-.99
			450	0.00	-.64	<u>Acid Soluble Zinc</u>			Meth: 321.99 PCT			230	0.004	-1.54
						<u>Atomic Absorption</u>			<u>Acid Soluble Zinc</u>			363	0.004	-1.70
						043	0.005	1.22	<u>Other</u>			324	0.003 R	-3.49
						Avg	0.005		409	0.006	1.16	255	0.002 A	-4.66
						460	0.005	-.14	Avg	0.005		257	0.000 s	-7.84
						257	0.000 S	-7.00	231	0.005	-.02	Meth: 325.99 PCT		
						Meth: 321.30 PCT			474	0.004	-1.07	<u>Water Soluble Zinc</u>		
						<u>Acid Soluble Zinc</u>			Meth: 321.XX PCT			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Zinc</u>			257	0.000	.00
						422	0.064 s	65.63	422	0.064 s	92.89			
						035	0.014 s	9.64	035	0.014 s	13.41			
						041	0.010 s	8.88	041	0.010 s	12.46			

* 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	- 1.82	4.90	0.18	060.XX	9	0.00	0.99	0.27
001.99	13	- 0.56	1.91	0.23	101.30	19	9.53	35.86	0.69
001.XX	20	- 1.21	3.72	0.22	101.XX	19	9.53	35.86	0.69
009.10	5	0.00	1.06	0.09	121.30	19	0.60	2.21	0.21
009.XX	5	0.00	1.06	0.09	121.XX	20	0.54	2.05	0.18
010.11	4	0.00	1.07	0.11	144.01	8	0.00	0.99	0.28
010.12	4	- 0.28	1.07	0.34	144.99	27	1.13	6.10	0.25
010.60	58	- 0.05	1.00	0.29	144.XX	34	0.22	2.06	1.51
010.99	3	0.00	0.96	0.47	151.30	11	- 0.30	1.45	0.56
010.XX	70	- 0.07	1.02	0.30	151.99	3	0.00	1.12	0.06
020.10	9	- 1.57	3.56	1.06	151.XX	15	0.09	0.97	0.34
020.20	16	- 3.01	11.34	0.54	165.99	6	0.000	1.045	0.086
020.40	7	- 0.17	1.04	0.54	165.XX	6	0.000	1.045	0.086
020.50	14	- 0.21	1.24	0.38	181.00	2	0.00	1.21	0.12
020.99	9	0.15	1.06	0.11	181.30	14	0.38	1.54	0.14
020.XX	53	- 0.58	3.72	0.33	181.99	2	0.00	1.13	0.34
030.20	2	0.00	0.98	0.52	181.XX	18	0.32	1.52	0.14
030.40	2	0.00	1.22	0.09	191.30	15	- 0.18	1.05	0.87
030.99	2	0.00	0.45	0.81	191.99	2	0.00	0.90	0.59
030.XX	8	0.27	1.20	0.42	191.XX	17	- 0.14	1.02	0.81
040.10	2	0.00	1.21	0.15	202.30	12	- 0.38	2.85	0.35
040.20	2	0.00	1.20	0.16	202.99	2	0.00	0.95	0.55
040.40	3	0.00	1.08	0.23	202.XX	15	- 0.31	2.67	0.43
040.99	2	0.00	0.91	0.58	221.00	4	0.0478	0.9178	0.0697
040.XX	9	0.00	1.00	0.24	221.30	10	1.3562	2.7010	0.3097
041.10	12	- 0.03	0.98	0.20	221.99	2	0.0000	1.1664	0.2641
041.20	3	0.00	0.31	0.88	221.XX	16	1.1794	3.0231	0.3298
041.40	3	0.55	1.24	2.43	241.00	2	0.00	0.74	0.69
041.50	10	- 2.25	6.87	6.78	241.30	17	0.00	0.99	0.20
041.60	10	0.00	0.97	0.33	241.XX	19	0.00	0.99	0.21
041.XX	36	- 0.80	5.02	4.76	251.30	11	0.00	1.01	0.18
048.20	3	0.00	1.05	0.31	251.99	2	0.00	1.21	0.12
048.XX	4	0.00	1.04	0.24	251.XX	14	0.77	2.59	0.39
050.00	2	0.00	1.20	0.16	261.30	13	- 0.132	1.030	0.480
050.50	2	0.00	1.21	0.13	261.99	3	0.000	1.112	0.095
050.51	2	0.00	0.00	0.87	261.XX	17	0.376	2.090	0.355
050.99	4	0.00	1.08	0.06	281.XX	2	0.000	1.137	0.322
050.XX	10	0.00	1.02	0.14	289.30	16	- 0.19	1.22	0.31
060.00	7	0.00	1.00	0.27	289.99	4	4.22	8.49	0.28

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	20	0.18	1.95	0.29					
291.30	15	0.29	1.40	0.19					
291.99	2	0.00	0.93	0.57					
291.XX	17	0.28	1.42	0.20					
301.30	2	0.00	0.00	0.00					
301.99	2	0.00	1.22	0.08					
301.XX	4	3.96	7.98	0.45					
311.99	10	2.40	7.65	0.28					
311.XX	11	2.12	7.10	0.27					
321.00	3	- 2.332	4.041	0.699					
321.30	25	3.137	13.235	1.486					
321.99	3	0.000	1.079	0.239					
321.XX	31	3.170	16.990	1.913					