

- Pass 1 Results for 81 Labs - - Pass 2 Results for 80 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	1.44	0.19	0.04	6	1.44	0.19	0.04
Ammoniacal Nitrogen, Other		001.99	5	1.16	0.13	0.05	5	1.16	0.13	0.05
Method Group 001.XX PCT			11	1.31	0.22	0.04	11	1.31	0.22	0.04
Nitrate Nitrogen, Other		002.99	3	10.17	14.22	0.05	3	10.17	14.22	0.05
Water Insoluble Nitrogen, Other		003.99	1	0.15	0.01	0.02	1	0.15	0.01	0.02
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	28.65	0.73	0.12	2	28.65	0.73	0.12
Nitrogen From Urea, Other		005.99	4	27.02	4.35	0.42	4	27.02	4.35	0.42
Method Group 005.XX PCT			6	27.56	3.58	0.32	6	27.56	3.58	0.32
Ammon & Nitrate N, Devarda	892.01	009.10	1	2.05	0.07	0.10	1	2.05	0.07	0.10
Total Nitrogen, Reduced Iron		010.10	1	29.91	0.02	0.03	1	29.91	0.02	0.03
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	29.74	0.12	0.08	6	29.74	0.12	0.08
Total Nitrogen, Salicylic	955.04D	010.12	3	29.93	0.26	0.07	3	29.93	0.26	0.07
Total Nitrogen, Combustion		010.60	50	29.89	0.40	0.19	49	29.90	0.39	0.17
Total Nitrogen, Other		010.99	6	29.50	0.60	0.11	6	29.50	0.60	0.11
Method Group 010.XX PCT			66	29.84	0.41	0.17	63	29.86	0.40	0.14
Total Phosphate, Grav Quimociac	962.02	020.10	2	0.43	0.04	0.04	2	0.43	0.04	0.04
Total Phosphate, Spectrometric	958.01	020.20	7	0.40	0.05	0.03	7	0.40	0.05	0.03
Total Phosphate, Automated	978.01	020.40	6	0.42	0.05	0.03	6	0.42	0.05	0.03
Total Phosphate, ICP		020.50	7	0.42	0.03	0.01	6	0.42	0.03	0.00
Method Group 020.XX PCT			22	0.41	0.04	0.02	20	0.42	0.04	0.02
Insoluble Phosphate, Automated	978.01	030.40	1	0.14	0.00	0.00	1	0.14	0.00	0.00
InDir Available Phosphate, Automated ..	960.02	040.40	1	0.34	0.01	0.01	1	0.34	0.01	0.01
InDir Available Phosphate, Other		040.99	1	1.04	0.06	0.08	1	1.04	0.06	0.08
Method Group 040.XX PCT			2	0.69	0.41	0.05	2	0.69	0.41	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	4	0.19	0.21	0.00	3	0.13	0.21	0.00
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Dir Available Phosphate, Automated	978.01	041.40	3	0.22	0.17	0.02	3	0.22	0.17	0.02
Dir Available Phosphate, ICP		041.50	7	0.32	0.14	0.04	7	0.32	0.14	0.04
Dir Available Phosphate, EDTA Extract .	993.01	041.60	1	0.37	0.01	0.01	1	0.37	0.01	0.01
Dir Available Phosphate, Other		041.99	2	0.40	0.01	0.01	2	0.40	0.01	0.01
Method Group 041.XX PCT			18	0.27	0.17	0.02	16	0.26	0.18	0.01
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.23	0.00	0.00	1	0.23	0.00	0.00
Soluble Potash, STPB Oxalate	958.02	050.00	12	5.35	0.17	0.10	11	5.36	0.16	0.06
Soluble Potash, STPB Citrate	969.04	050.10	1	4.70	0.02	0.03	1	4.70	0.02	0.03
Soluble Potash, AA (Oxalate)		050.30	7	5.27	0.19	0.08	7	5.27	0.19	0.08
Soluble Potash, AA (Citrate)		050.31	3	5.14	0.31	0.06	3	5.14	0.31	0.06
Soluble Potash, ICP (Oxalate)		050.50	7	5.37	0.21	0.17	7	5.37	0.21	0.17
Soluble Potash, ICP (Citrate)		050.51	10	5.39	0.21	0.08	9	5.35	0.17	0.06
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	3	5.32	0.18	0.07	3	5.32	0.18	0.07

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Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	5.32	0.17	0.08	8	5.32	0.17	0.08
Soluble Potash, Other		050.99	19	5.25	0.26	0.13	16	5.21	0.22	0.05
Method Group 050.XX PCT			70	5.30	0.23	0.10	65	5.29	0.22	0.07
Free Water, Vacuum Oven	965.08B	060.00	4	1.53	0.07	0.04	4	1.53	0.07	0.04
Acid Soluble Calcium, AA	945.04	101.00	10	6.87	0.37	0.12	9	6.86	0.39	0.09
Acid Soluble Calcium, ICP		101.30	34	7.07	0.29	0.13	33	7.05	0.27	0.11
Acid Soluble Calcium, Other		101.99	4	6.95	0.42	0.13	3	7.15	0.18	0.01
Method Group 101.XX PCT			48	7.02	0.33	0.13	46	7.02	0.30	0.11
Acid Soluble Magnesium, AA	984.01	121.00	8	0.20	0.01	0.01	8	0.20	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	35	0.20	0.02	0.01	32	0.20	0.01	0.01
Acid Soluble Magnesium, Other		121.99	2	0.22	0.01	0.00	2	0.22	0.01	0.00
Method Group 121.XX PCT			45	0.20	0.02	0.01	41	0.20	0.01	0.01
Water Soluble Magnesium, AA		131.00	1	1.14	0.01	0.01	1	1.14	0.01	0.01
Sulfur, Gravimetric	980.02a	144.01	1	1.43	0.03	0.04	1	1.43	0.03	0.04
Sulfur, Gravimetric	980.02b	144.02	1	1.50	0.01	0.01	1	1.50	0.01	0.01
Sulfur, Other		144.99	11	1.52	0.12	0.05	11	1.52	0.12	0.05
Method Group 144.XX PCT			13	1.51	0.11	0.04	13	1.51	0.11	0.04
Arsenic, Atomic Absorption		151.00	2	1.61	0.79	0.02	2	1.61	0.79	0.02
Arsenic, ICP		151.30	6	2.30	1.03	0.31	6	2.30	1.03	0.31
Arsenic, Other		151.99	1	1.97	0.06	0.08	1	1.97	0.06	0.08
Method Group 151.XX PPM			9	2.11	0.94	0.22	8	2.06	0.97	0.13
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.005	0.001	0.002	1	0.005	0.001	0.002
Acid Soluble Boron, Other		165.99	5	0.004	0.000	0.000	5	0.004	0.000	0.000
Method Group 165.XX PCT			7	0.006	0.006	0.001	6	0.007	0.006	0.000
Cadmium, Atomic Absorption		181.00	2	0.82	0.05	0.06	2	0.82	0.05	0.06
Cadmium, ICP		181.30	11	1.15	0.40	0.08	11	1.15	0.40	0.08
Cadmium, Other		181.99	1	0.90	0.05	0.07	1	0.90	0.05	0.07
Method Group 181.XX PPM			14	1.09	0.37	0.08	13	1.00	0.19	0.08
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	3	4.30	0.24	0.09	3	4.30	0.24	0.09
Chromium, Atomic Absorption		191.00	1	30.00	0.00	0.00	1	30.00	0.00	0.00
Chromium, ICP		191.30	11	26.06	2.74	1.70	10	25.67	2.19	1.07
Method Group 191.XX PPM			12	26.39	2.84	1.56	10	26.29	2.29	0.53
Acid Soluble Cobalt, AA		202.00	1	26.50	0.71	1.00	1	26.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	13	15.34	3.91	0.43	13	15.34	3.91	0.43
Acid Soluble Cobalt, Other		202.99	1	4.96	0.03	0.04	1	4.96	0.03	0.04
Method Group 202.XX PPM			15	15.39	5.41	0.44	15	15.39	5.41	0.44
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0201	0.0005	0.0005	3	0.0201	0.0005	0.0005
Acid Soluble Copper, ICP		221.30	21	0.0203	0.0020	0.0013	20	0.0203	0.0018	0.0009
Acid Soluble Copper, Other		221.99	1	0.0200	0.0000	0.0000	1	0.0200	0.0000	0.0000

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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 221.XX PCT			25	0.0203	0.0018	0.0011	23	0.0203	0.0016	0.0007
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	9	1.56	0.32	0.07	9	1.56	0.32	0.07
Acid Soluble Iron, ICP		241.30	38	1.53	0.31	0.06	37	1.54	0.32	0.05
Acid Soluble Iron, Other		241.99	3	1.64	0.60	0.03	3	1.64	0.60	0.03
Method Group 241.XX PCT			51	1.52	0.36	0.06	48	1.54	0.34	0.05
Lead, Atomic Absorption		251.00	1	5.34	0.13	0.19	1	5.34	0.13	0.19
Lead, ICP		251.30	10	5.19	1.12	0.33	9	5.35	1.05	0.24
Lead, Other		251.99	2	4.81	0.50	0.49	2	4.81	0.50	0.49
Method Group 251.XX PPM			13	5.14	1.01	0.34	12	5.26	0.95	0.28
Acid Soluble Manganese, AA	972.02a	261.00	1	0.028	0.002	0.002	1	0.028	0.002	0.002
Acid Soluble Manganese, ICP	972.02a	261.30	13	0.028	0.003	0.002	12	0.027	0.002	0.002
Acid Soluble Manganese, Other		261.99	2	0.024	0.004	0.001	2	0.024	0.004	0.001
Method Group 261.XX PCT			16	0.027	0.003	0.002	15	0.027	0.003	0.002
Mercury, ICP		281.30	2	0.41	0.36	0.02	2	0.41	0.36	0.02
Molybdenum, ICP		289.30	14	5.60	1.00	0.77	13	5.61	0.76	0.45
Molybdenum, Other		289.99	1	4.48	0.11	0.16	1	4.48	0.11	0.16
Method Group 289.XX PPM			16	5.62	1.12	0.88	14	5.53	0.79	0.43
Nickel, ICP		291.30	11	11.88	2.64	0.64	11	11.88	2.64	0.64
Nickel, Other		291.99	1	6.26	0.04	0.06	1	6.26	0.04	0.06
Method Group 291.XX PPM			14	11.41	4.09	1.60	12	11.41	2.98	0.59
Selenium, ICP		301.30	1	0.83	0.13	0.19	1	0.83	0.13	0.19
Sodium, Other		311.99	4	0.06	0.00	0.00	4	0.06	0.00	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	3	0.083	0.002	0.001	3	0.083	0.002	0.001
Acid Soluble Zinc, ICP		321.30	25	0.084	0.008	0.004	23	0.083	0.007	0.003
Acid Soluble Zinc, Other		321.99	1	0.085	0.001	0.002	1	0.085	0.001	0.002
Method Group 321.XX PCT			29	0.084	0.007	0.003	26	0.083	0.006	0.002
Water Soluble Zinc, Other		325.99	1	0.088	0.002	0.003	1	0.088	0.002	0.003

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 002.99 PCT			Meth: 009.10 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT		
Ammoniacal Nitrogen			Nitrate Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Other</u>			<u>Devarda</u>			<u>Combustion</u>			<u>Combustion</u>		
230	1.69	1.30	Avg	10.17		309	2.05	.71	420	30.63	1.84	043	29.61	- .80
090	1.58	.75	481	2.01	-.57				483	30.57	1.83	360	29.57	-.86
481	1.51	.37	232	0.01	-.71	Meth: 010.10 PCT			330	30.35	1.15	095	29.55	-.90
Avg	1.44		Meth: 003.99 PCT			Total Nitrogen			450	30.25	.97	027	29.55	-.93
300	1.42	-.15	Water Insoluble Nitr			<u>Reduced Iron</u>			009	30.25	.95	393	29.53	-.94
456	1.31	-.72	<u>Other</u>			397	29.91	.71	325	29.90	.76	291	29.50	-1.02
232	1.14	-1.60	027	0.15	.71	Meth: 010.11 PCT			105	30.15	.74	451	29.50	-1.04
Meth: 001.99 PCT			Meth: 005.00 PCT			Total Nitrogen			177	30.14	.61	035	29.37	-1.36
Ammoniacal Nitrogen			Nitrogen From Urea			<u>Modified Comprehensi</u>			368	30.00	.54	041	29.59 R	-1.57
<u>Other</u>			<u>Urease (as N)</u>			114	29.91	1.49	131	30.08	.47	351	29.05	-2.28
096	1.24	.63	481	29.28	.86	105	29.75	.39	324	30.05	.40	022	28.85	-2.66
255	1.23	.60	Avg	28.65		456	29.78	.37	232	30.05	.38	042	28.63 s	-3.32
420	1.22	.50	368	28.02	-.87	211	29.75	.09	389	30.00	.36	472	23.72 s	-20.61
027	1.20	.32	Meth: 005.99 PCT			Avg			233	30.00	.31	Meth: 010.99 PCT		
Avg	1.16		Nitrogen From Urea			090			057	29.92	.22	Total Nitrogen		
368	0.92	-1.84	<u>Other</u>			260			377	29.96	.22	<u>Other</u>		
Meth: 001.XX PCT			029			Meth: 010.12 PCT			034	29.96	.20	479		
Ammoniacal Nitrogen			29.73			Total Nitrogen			136	29.94	.14	300		
230	1.69	1.73	309			<u>Salicylic</u>			402	29.94	.14	371		
090	1.58	1.24	027			481			231	29.93	.07	460		
481	1.51	.91	Avg			254			Avg	29.90		Avg		
300	1.42	.50	230			481			292	29.86	-.10	255		
Avg	1.31		20.00			254			096	29.87	-.17	030		
456	1.31	-.04	-1.61			Avg			354	29.85	-.18	420		
096	1.24	-.37	Meth: 005.XX PCT			185			426	29.88	-.25	Meth: 010.XX PCT		
255	1.23	-.45	Nitrogen From Urea			455			443	29.88	-.27	<u>Total Nitrogen</u>		
420	1.22	-.45	029			484			405	29.81	-.29	102		
027	1.20	-.51	481			Meth: 010.60 PCT			157	29.80	-.36	481		
232	1.14	-.82	309			Total Nitrogen			234	29.76	-.36	479		
368	0.92	-1.85	027			<u>Combustion</u>			247	29.79	-.38	029		
Meth: 002.99 PCT			368			102			055	29.70	-.51	422		
Nitrate Nitrogen			Avg			029			037	29.71	-.53	072		
<u>Other</u>			230			422			040	29.80	-.57	230		
137	28.49	1.29	20.00			072			390	29.76	-.62	420		
			-2.11			230			007	29.85	-.65	483		
						072			106	29.65	-.66			
						230								

* 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: 020.99 PCT			Meth: 030.40 PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>		
330	30.35	1.24	105	29.75	-.31	<u>Spectrometric</u>			<u>Other</u>			<u>Automated</u>		
300	30.29	1.07	055	29.70	-.41	324	0.97 s	10.85	137	0.00 S	.00	096	0.14	.00
450	30.25	1.05	037	29.71	-.44	292	0.48	1.52	397	5.20 S	.00	Meth: 040.40 PCT		
009	30.25	1.03	090	29.68	-.50	428	0.43	.50	Avg 0.00			InDir Available Phos		
254	30.22	.90	040	29.80	-.53	481	0.42	.40	Meth: 020.XX PCT			<u>Automated</u>		
105	30.15	.82	455	29.65	-.54	Avg 0.40			<u>Total Phosphate</u>			096 0.34 .71		
325	29.90 R	.76	390	29.76	-.56	169	0.40	-.14	397	5.20 s	125.10	Meth: 040.99 PCT		
177	30.14	.71	106	29.65	-.57	232	0.40	-.19	324	0.97 s	14.46	InDir Available Phos		
368	30.00	.59	007	29.85	-.63	420	0.37	-.82	041	0.61 s	6.09	<u>Other</u>		
131	30.08	.56	043	29.61	-.71	450	0.32	-1.74	292	0.48	1.66	460 1.04 X .71		
324	30.05	.49	260	29.58	-.73	230	0.18 S	-4.25	484	0.45 R	1.57	Meth: 040.XX PCT		
232	30.05	.48	360	29.57	-.76	Meth: 020.40 PCT			096	0.48	1.53	InDir Available Phos		
389	30.00	.43	095	29.55	-.80	<u>Total Phosphate</u>			114	0.46	1.36	460 1.04 X .87		
233	30.00	.39	027	29.55	-.83	<u>Automated</u>			483	0.46	1.01	Avg 0.69		
377	29.96	.29	393	29.53	-.84	484	0.45	1.15	095	0.45	.87	096 0.34 -.86		
034	29.96	.28	291	29.50	-.92	096	0.48	1.10	422	0.45	.87	Meth: 041.10 PCT		
443	29.88	.27	451	29.50	-.94	095	0.45	.61	291	0.45	.77	Dir Available Phosph		
057	29.92	.25	035	29.37	-1.26	Avg 0.42			428	0.43	.31	<u>Grav Quimociac</u>		
426	29.88	.24	041	29.59 R	-1.51	027	0.40	-.40	105	0.41	-.14	022 0.40 1.29		
402	29.95	.23	255	29.25	-1.57	105	0.38	-.79	481	0.42	-.39	105 0.38 R 1.17		
136	29.94	.22	351	29.05 R	-2.17	247	0.35	-1.35	389	0.40	-.43	Avg 0.13		
185	29.93	.21	030	28.99	-2.19	042	0.27 s	-3.84	027	0.40	-.49	254 0.00 -.65		
371	29.93	.17	022	28.85	-2.54	Meth: 020.50 PCT			402	0.40	-.50	072 0.00 -.65		
231	29.93	.16	420	28.68	-2.98	<u>Total Phosphate</u>			232	0.40	-.51	Meth: 041.20 PCT		
096	29.87	.15	042	28.63 s	-3.20	<u>ICP</u>			368	0.40	-.51	Dir Available Phosph		
114	29.91	.14	484	28.15 s	-4.39	483	0.46	1.07	169	0.40	-.58	<u>Spectrometric</u>		
397	29.91	.12	472	23.72 s	-20.38	422	0.45	.91	105	0.38	-1.03	030 0.00 .00		
Avg	29.86		309	8.30 s	-54.21	291	0.45	.78	231	0.38	-1.10	Meth: 041.40 PCT		
292	29.86	-.03	Meth: 020.10 PCT			Avg 0.42			420	0.37	-1.50	Dir Available Phosph		
406	29.86	-.08	<u>Total Phosphate</u>			389 0.40 -.63			247	0.35	-1.76	<u>Automated</u>		
354	29.85	-.13	<u>Grav Quimociac</u>			368 0.40 R -.70			450	0.32 R	-2.78	027 0.40 1.06		
460	29.85	-.13	041	0.61 S	5.76	402 0.40 -.71			042	0.27 s	-5.12	472 0.24 .18		
405	29.81	-.22	114	0.46	1.08	231 0.38 -1.41			230	0.18 s	-6.27			
456	29.78	-.22	Avg 0.43						137	0.00 s	-10.90			
234	29.76	-.26	105	0.41	-.57									
211	29.75	-.28												
157	29.80	-.29												
247	29.79	-.31												

* 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: 041.40 PCT			Meth: 041.XX PCT			Meth: 050.10 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>Automated</u>			<u>STPB Citrate</u>			<u>ICP (Citrate)</u>			<u>Other</u>					
Avg	0.22		354	0.37	.62	117	4.70	-.71	483	5.78 R	2.66	027	5.65 R	2.39
095	0.03	-1.16	007	0.37	.60	325	0.35 R	.58	291	5.65	1.79	177	5.56	1.55
			377	0.35 R	.58	Meth: 050.30 PCT			007	5.49	.82	450	5.48 R	1.54
Meth: 041.50 PCT			Avg 0.26			<u>Soluble Potash</u>			096	5.47	.70	072	5.23 R	1.27
<u>Dir Available Phosph</u>			472 0.24 -.19			<u>AA (Oxalate)</u>			043	5.40	.36	455	5.39	.76
<u>ICP</u>			095 0.03 -1.31			040 5.45 1.01			Avg	5.35		131	5.38	.74
009	0.41	.63	393	0.00 X	-1.45	234 5.42 .89			009	5.29	-.37	460	5.38	.74
368	0.39	.54	030	0.00	-1.45	043 5.41 .76			393	5.29	-.41	042	5.35	.68
325	0.35	.42	254	0.00	-1.45	185 5.35 .52			432	5.24	-.74	360	5.36	.66
377	0.35	.42	072	0.00	-1.45	Avg 5.27			389	5.20	-.85	451	5.32	.48
354	0.37	.37	Meth: 048.20 PCT			351 5.13 -.73			377	5.10	-1.56	325	5.30	.39
007	0.37	.35	<u>Water Soluble Phosph</u>			157 5.15 -.78			Meth: 050.60 PCT			247	5.24	.15
Avg	0.32		<u>Spectrometric</u>			309 4.96 -1.65			<u>Soluble Potash</u>			137	5.23	.07
393	0.00 X	-2.28	096	0.23	.00	Meth: 050.31 PCT			<u>Flame (Oxalate)</u>			Avg	5.21	
Meth: 041.60 PCT			Meth: 050.00 PCT			<u>Soluble Potash</u>			406 5.53 1.15			300	5.20	-.18
<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>AA (Citrate)</u>			Avg 5.32			255	5.09	-.54
<u>EDTA Extract</u>			<u>STPB Oxalate</u>			472 5.54 1.28			443 5.30 -.34			402	5.04	-.80
105	0.37	.71	114	5.57	1.36	Avg 5.14			169 5.13 -1.03			368	5.02	-.96
Meth: 041.99 PCT			090	5.48	.89	030 4.98 -.50			Meth: 050.61 PCT			484	4.94	-1.25
<u>Dir Available Phosph</u>			057	5.47	.67	254 4.90 -.79			<u>Soluble Potash</u>			232	4.64	-2.58
<u>Other</u>			022	5.45	.62	Meth: 050.50 PCT			<u>Flame (Citrate)</u>			481	4.58 S	-2.89
105	0.41	.59	233	5.42	.53	<u>Soluble Potash</u>			029 5.53 1.24			Meth: 050.XX PCT		
Avg	0.40		231	5.40	.23	<u>ICP (Oxalate)</u>			456 5.44 .72			<u>Soluble Potash</u>		
230	0.40	-1.07	211	5.40	.23	422 6.35 S 4.66			034 5.42 .65			422 6.35 s 4.72		
Meth: 041.XX PCT			136	5.40	.20	420 5.66 1.38			095 5.42 .61			322 6.33 s 4.63		
<u>Dir Available Phosph</u>			Avg	5.36		390 5.40 1.06			131 5.34 .18			483 5.78 2.25		
009	0.41	.82	397	5.20	-1.04	354 5.43 .51			Avg 5.32			027 5.65 R 2.12		
105	0.41	.82	009	5.15	-1.31	324 5.42 .27			041 5.21 -.64			420 5.66 1.65		
230	0.40	.79	102	5.23 R	-1.69	106 5.40 .17			035 5.13 -1.18			291 5.65 1.60		
022	0.40	.79	055	5.05	-1.95	Avg 5.37			037 5.05 -1.68			450 5.48 R 1.30		
027	0.40	.76	230	4.47 s	-5.59	055 5.23 -.81			Meth: 050.99 PCT			114 5.57 1.28		
368	0.39	.75				426 5.07 -1.57			<u>Soluble Potash</u>			177 5.56 1.20		
105	0.38	.65				292 4.33 S -5.00			<u>Other</u>			472 5.54 1.10		
105	0.37	.65							322 6.33 s 4.97			390 5.40 R 1.10		
												406 5.53 1.07		
												029 5.53 1.06		

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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: 101.00 PCT			Meth: 101.30 PCT			Meth: 101.XX PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>		
090	5.48	.93	300	5.20	-.46	AA			ICP			095	7.33	1.03
007	5.49	.86	055	5.23	-.48	073	7.72	2.21	057	7.05	-.27	450	7.31	.98
057	5.47	.80	009	5.15	-.63	177	7.13	.70	292	6.95	-.41	037	7.31	.95
096	5.47	.77	169	5.13	-.72	481	6.98 R	.59	360	6.90	-.60	231	7.27	.85
022	5.45	.74	351	5.13	-.73	105	6.99	.34	233	6.89	-.62	131	7.27	.82
040	5.45	.74	157	5.15	-.75	028	6.87	.08	420	6.88	-.69	009	7.25	.76
354	5.43	.74	035	5.13	-.82	Avg	6.86		035	6.87	-.70	230	7.20	.63
456	5.44	.66	255	5.09	-.89	055	6.84	-.10	022	6.92	-.77	354	7.18	.52
234	5.42	.65	377	5.10	-.97	043	6.66	-.55	102	6.84	-.85	460	7.17 X	.50
233	5.42	.64	055	5.05	-1.09	397	6.53	-.85	247	6.81	-.91	389	7.15	.46
034	5.42	.60	102	5.23 R	-1.09	157	6.57	-.90	324	6.80	-1.01	472	7.12	.38
324	5.42	.59	426	5.07	-1.14	029	6.45	-1.07	432	6.78	-1.07	177	7.13	.37
095	5.42	.58	402	5.04	-1.14	169	4.03 s	-7.34	368	6.76	-1.09	433	7.12	.34
043	5.41	.53	037	5.05	-1.21	Meth: 101.30 PCT			027	6.73	-1.22	106	7.12	.32
106	5.40	.51	368	5.02	-1.29	<u>Acid Soluble Calcium</u>			232	6.69	-1.38	351	7.10	.27
043	5.40	.50	072	5.23 R	-1.31	<u>ICP</u>			255	6.41	-2.43	057	7.05	.26
211	5.40	.48	030	4.98	-1.38	422	8.72 s	6.18	426	5.86 s	-5.44	300	7.06	.16
231	5.40	.48	309	4.96	-1.51	483	7.69 R	2.63	Meth: 101.99 PCT			Avg	7.02	
136	5.40	.46	484	4.94	-1.60	117	7.63	2.15	<u>Acid Soluble Calcium</u>			105	6.99	-.14
455	5.39	.42	254	4.90	-1.78	479	7.45	1.47	<u>Other</u>			291	6.95	-.25
042	5.35	.41	117	4.70	-2.67	390	7.40	1.37	137	7.34	1.06	292	6.95	-.26
131	5.38	.40	232	4.64	-2.94	041	7.31	1.18	460	7.17 X	.12	360	6.90	-.44
460	5.38	.40	481	4.58 s	-3.25	095	7.33	1.02	Avg	7.15		233	6.89	-.45
185	5.35	.34	230	4.47 s	-3.71	450	7.31	.96	291	6.95	-1.17	028	6.87	-.52
360	5.36	.32	292	4.33 s	-4.32	037	7.31	.94	042	6.35 R	-4.73	420	6.88	-.52
443	5.30	.27	Meth: 060.00 PCT			231	7.27	.83	484	4.02 S	-17.67	035	6.87	-.52
131	5.34	.23	<u>Free Water</u>			131	7.27	.78	Meth: 101.XX PCT			055	6.84	-.61
451	5.32	.15	<u>Vacuum Oven</u>			009	7.25	.72	<u>Acid Soluble Calcium</u>			022	6.92	-.63
325	5.30	.04	096	1.64	1.54	230	7.20	.59	422	8.72 s	5.69	102	6.84	-.66
Avg	5.29		Avg	1.53		354	7.18	.45	483	7.69 R	2.47	481	6.98	-.67
009	5.29	-.07	105	1.52	-.28	389	7.15	.40	073	7.72	2.32	247	6.81	-.71
393	5.29	-.16	007	1.51	-.52	472	7.12	.33	117	7.63	2.05	324	6.80	-.81
247	5.24	-.25	456	1.47	-.89	433	7.12	.26	479	7.45	1.44	432	6.78	-.86
137	5.23	-.28				106	7.12	.23	390	7.40	1.34	368	6.76	-.87
041	5.21	-.39				351	7.10	.18	041	7.31	1.15	027	6.73	-.99
432	5.24	-.39				300	7.06	.13	137	7.34	1.07	232	6.69	-1.14
389	5.20	-.41				Avg	7.05					043	6.66	-1.23
397	5.20	-.44										397	6.53	-1.64

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.XX PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT			Meth: 144.99 PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
157	6.57	-1.64	ICP			291	2.33 s	163.65	368	0.19	-.48	<u>Other</u>		
029	6.45	-1.91	472	0.21 R	1.01	169	0.58 s	29.26	035	0.19	-.53	Avg	1.52	
255	6.41	-2.09	390	0.21	.64	157	0.37 s	13.29	255	0.20	-.54	354	1.51	-.25
042	6.35 R	-2.40	106	0.21	.64	460	0.32 s	9.25	102	0.19	-.56	472	1.49	-.28
426	5.86 s	-4.82	027	0.20	.62	432	0.30 s	7.42	117	0.20	-.62	422	1.48	-.44
169	4.03 s	-10.01	096	0.21	.45	422	0.27 s	5.15	232	0.19	-.70	389	1.46	-.56
484	4.02 s	-10.05	055	0.21	.45	231	0.24 A	3.19	324	0.19	-.74	232	1.46	-.60
			131	0.20	.03	351	0.23 R	2.29	043	0.19	-1.07	096	1.39	-1.14
			Avg	0.20		041	0.23 R	2.26	481	0.19	-1.07	393	1.40	-1.17
Meth: 121.00 PCT			247	0.20	-.03	426	0.22	1.96	040	0.19	-1.19	Meth: 144.XX PCT		
<u>Acid Soluble Magnesi</u>			292	0.20	-.03	479	0.22	1.74	389	0.19	-1.19	<u>Sulfur</u>		
AA			360	0.20	-.03	354	0.22	1.56	433	0.18	-1.63	009	1.76	2.16
169	0.58 s	33.01	300	0.20	-.03	042	0.22	1.56	230	0.18	-1.75	483	1.72	1.84
157	0.37 S	15.10	022	0.20	-.12	177	0.22	1.37	420	0.17	-2.47	102	1.56	.46
177	0.22	1.72	057	0.20	-.13	483	0.22	1.34	309	0.09 s	-8.56	390	1.55	.31
028	0.21	.78	095	0.20	-.24	450	0.22	1.24	Meth: 131.00 PCT			Avg	1.51	
397	0.20	.32	009	0.20	-.39	472	0.21 R	1.19	Water Soluble Magnes			292	1.50	-.16
Avg	0.20		233	0.19	-.42	390	0.21	.80	<u>AA</u>			472	1.49	-.22
105	0.19	-.27	368	0.19	-.47	106	0.21	.80	484	1.14	.71	354	1.51	-.23
029	0.20	-.32	255	0.20	-.50	137	0.21	.80	Meth: 144.01 PCT			422	1.48	-.40
481	0.19	-1.08	035	0.19	-.51	027	0.20	.72	Sulfur			389	1.46	-.51
043	0.19	-1.08	102	0.19	-.54	028	0.21	.56	<u>Gravimetric</u>			232	1.46	-.57
040	0.19	-1.16	117	0.20	-.57	055	0.21	.56	105	1.43	.71	105	1.43	-.75
309	0.09 S	-9.43	232	0.19	-.67	096	0.21	.56	Meth: 144.02 PCT			096	1.39	-1.13
			324	0.19	-.70	397	0.20	.12	Sulfur			393	1.40	-1.18
			389	0.19	-1.09	131	0.20	.09	<u>Gravimetric</u>			Meth: 151.00 PPM		
			433	0.18	-1.48	292	0.20	.03	292	1.50	-.71	Arsenic		
			230	0.18	-1.58	360	0.20	.03	Meth: 144.99 PCT			<u>Atomic Absorption</u>		
			420	0.17	-2.21	300	0.20	.03	Sulfur			136	2.30	.87
			Meth: 121.99 PCT			247	0.20	.03	Other			Avg	1.61	
			<u>Acid Soluble Magnesi</u>			Avg	0.20		Meth: 144.99 PCT			481	0.93	-.87
			<u>Other</u>			022	0.20	-.12	Sulfur			Meth: 151.30 PPM		
			460	0.32 S	18.19	057	0.20	-.12	Other			Arsenic		
			042	0.22	.87	095	0.20	-.22	009	1.76	1.96	<u>ICP</u>		
			Avg	0.22		029	0.20	-.35	483	1.72	1.66	368	4.15	1.81
			137	0.21	-.87	105	0.19	-.39	102	1.56	.37			
						009	0.20	-.40	390	1.55	.23			
						233	0.19	-.41						

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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: 151.30 PPM</u>			<u>Meth: 165.99 PCT</u>			<u>Meth: 181.30 PPM</u>			<u>Meth: 191.00 PPM</u>			<u>Meth: 191.XX PPM</u>				
Arsenic			Acid Soluble Boron			Cadmium			Chromium			Chromium				
<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>Atomic Absorption</u>							
450	2.50	.52	009	0.004	-.31	102	0.83	-.82	481	30.00	.00	232	23.90	-1.09		
Avg	2.30		389	0.004	-.66	Meth: 181.99 PPM			Meth: 191.30 PPM			393	23.58	-1.19		
096	2.10	-.19	232	0.004	-.95	Cadmium			Chromium			105	23.77 R	-1.62		
393	2.16	-.23	Meth: 165.XX PCT			<u>Other</u>			<u>ICP</u>			231	10.96 s	-6.71		
230	1.96	-.35	<u>Acid Soluble Boron</u>			484	3.29 S	52.22	035	43.85 s	9.18	Meth: 202.00 PPM				
102	0.94	-1.32	354	0.020	2.14	Avg	0.90		106	30.00 R	2.69	Acid Soluble Cobalt				
Meth: 151.99 PPM			Avg	0.007		231	0.90	-.71	037	29.12	1.59	<u>AA</u>				
Arsenic			105	0.005 R	-.31	Meth: 181.XX PPM			009	28.58	1.36	136			26.50	.71
<u>Other</u>			483	0.004	-.36	Cadmium			450	27.00	.61	Meth: 202.30 PPM				
231	1.97	.71	422	0.004	-.40	<u>ICP</u>			096	26.40	.33	Acid Soluble Cobalt				
Meth: 151.XX PPM			009	0.004	-.44	105	22.78 s	118.18	Avg	25.67		<u>ICP</u>				
Arsenic			389	0.004	-.45	484	3.29 s	12.43	368	25.50	-.12	009	19.43	1.05		
368	4.15	2.16	232	0.004	-.49	009	2.24 A	6.69	230	24.45	-.57	233	19.35	1.03		
450	2.50 R	.68	Meth: 181.00 PPM			035	1.35	2.01	102	24.36	-.60	450	19.00	.94		
136	2.30	.24	Cadmium			232	1.30	1.61	232	23.90	-.87	057	18.66	.85		
393	2.16	.21	<u>Atomic Absorption</u>			393	1.20	1.13	393	23.58	-.95	096	18.50	.82		
096	2.10	.04	136	0.85	1.08	096	1.00	.54	105	23.77	-1.51	037	16.77	.37		
Avg	2.06		Avg	0.82		247	1.05	.39	Meth: 191.99 PPM			368	16.70	.35		
231	1.97	-.10	481	0.79	-.58	106	1.00	.02	Chromium			035	15.80	.16		
230	1.96	-.14	Meth: 181.30 PPM			Avg	1.00		<u>Other</u>			Avg	15.34			
102	0.94	-1.16	Cadmium			450	0.95	-.37	231	10.96 S	.00	230	14.55	-.20		
481	0.93	-1.17	<u>ICP</u>			368	0.90	-.52	Meth: 191.XX PPM			102	11.78	-.91		
Meth: 165.00 PCT			105	22.78 s	55.13	231	0.90	-.52	Chromium			232	11.35	-1.03		
Acid Soluble Boron			009	2.24	2.76	136	0.85	-.83				422	10.00	-1.36		
<u>Spectrometric</u>			035	1.35	.59	230	0.84	-.84				393	7.50	-2.00		
105	0.005	.71	232	1.30	.37	102	0.83	-.91	035	43.85 s	8.56	Meth: 202.99 PPM				
Meth: 165.99 PCT			393	1.20	.20	481	0.79	-1.11	106	30.00 R	2.39	Acid Soluble Cobalt				
Acid Soluble Boron			Avg	1.15		Meth: 190.00 PCT			481	30.00	1.62	<u>Other</u>				
<u>Other</u>			247	1.05	-.28	Water Soluble Chlori			037	29.12	1.25	231			4.96	.71
354	0.020 s	41.29	106	1.00	-.38	Titrimetric			009	28.58	1.04	Meth: 202.XX PPM				
422	0.004	1.43	096	1.00	-.46	422	4.60	1.31	450	27.00	.31	Acid Soluble Cobalt				
483	0.004	1.02	450	0.95	-.52	Avg	4.30		096	26.40	.05	136			26.50	2.06
Avg	0.004		368	0.90	-.63	105	4.15	-.59	Avg	26.29		009			19.43	.75
Meth: 181.30 PPM			230	0.84	-.78	009	4.14	-.66	368	25.50	-.36	233			19.35	.73
Cadmium									230	24.45	-.81					
<u>ICP</u>									102	24.36	-.85					

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 202.XX PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.99 PCT		
<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>		
450	19.00	.67	ICP			Avg	0.0203		ICP			Other		
057	18.66	.60	233	0.0205	.13	095	0.0201	-.14	055	1.82	.93	484	2.12	.80
096	18.50	.58	Avg	0.0203		481	0.0200	-.17	057	1.76	.76	042	1.93	.48
037	16.77	.26	095	0.0201	-.17	354	0.0200	-.17	131	1.78	.76	Avg	1.64	
368	16.70	.25	354	0.0200	-.19	231	0.0200	-.17	450	1.75	.67	137	0.88	-1.28
035	15.80	.11	368	0.0198	-.38	105	0.0198	-.32	324	1.75	.66			
Avg	15.39		232	0.0192	-.71	368	0.0198	-.38	095	1.74	.63			
230	14.55	-.16	389	0.0190	-.76	232	0.0192	-.74	233	1.73	.61	Meth: 241.XX PCT		
102	11.78	-.67	131	0.0185	-1.08	389	0.0190	-.79	157	1.73	.61	<u>Acid Soluble Iron</u>		
232	11.35	-.75	472	0.0185	-1.08	131	0.0185	-1.15	432	1.72	.60	484	2.12	1.72
422	10.00	-1.00	022	0.0180	-1.36	472	0.0185	-1.15	009	1.70	.56	042	1.93	1.16
393	7.50	-1.46	035	0.0176	-1.56	022	0.0180	-1.46	479	1.71	.55	035	1.92	1.13
231	4.96	-1.93	041	0.0195 R	-2.58	035	0.0176	-1.69	360	1.71	.54	117	1.90	1.05
						041	0.0195 R	-2.85	354	1.70	.54	106	1.87	.97
						484	0.0030 s	-10.80	426	1.68	.47	483	1.86	.94
									041	1.63	.37	105	1.84	.90
Meth: 221.00 PCT			Meth: 221.99 PCT			Meth: 241.00 PCT			096			055		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			351			028		
<u>Atomic Absorption</u>			<u>Other</u>			<u>Atomic Absorption</u>			037			177		
234	1.6050	S3379.17	231	0.0200	.00	105	1.84	.90	Avg	1.54		057	1.76 R	.70
043	0.0205	1.37	484	0.0030 S	.00	028	1.80	.76	022	1.48	-.19	131	1.78	.69
Avg	0.0201		Avg	0.0200		177	1.79	.72	102	1.46	-.26	450	1.75	.61
481	0.0200	-.21				460	1.72	.49	255	1.44	-.32	324	1.75	.60
105	0.0198	-.77				043	1.71	.46	390	1.49 R	-.37	095	1.74	.58
						029	1.68	.46	422	1.39	-.46	233	1.73	.55
						Avg	1.56		368	1.35	-.64	157	1.73	.55
						169	1.45	-.34	433	1.31	-.73	432	1.72	.54
						397	1.11 X	-1.39	291	1.27	-.84	460	1.72	.51
						481	0.93	-1.97	232	1.20	-1.06	009	1.70	.51
									247	1.18	-1.13	479	1.71	.50
									230	1.16	-1.19	043	1.71	.49
									402	1.11	-1.35	360	1.71	.48
									231	0.94	-1.90	354	1.70	.48
									472	0.78	-2.41	029	1.68	.47
									292	0.69	-2.69	426	1.68	.43
									300	0.41 s	-3.57	041	1.63	.33
									393	0.36 s	-3.73	096	1.61	.29
												351	1.61	.22

* 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: 251.30 PPM			Meth: 261.00 PCT			Meth: 261.XX PCT			Meth: 289.30 PPM		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>		
037	1.61	.21	ICP			AA			389	0.028	.86	ICP		
Avg	1.54		450	6.00	.62	105	0.028	-.71	105	0.028	.59	105	4.31	-1.72
022	1.48	-.20	Avg	5.35					037	0.028	.23	422	5.50 R	-3.30
102	1.46	-.26	230	5.28	-.10	Meth: 261.30 PCT			Avg	0.027		Meth: 289.99 PPM		
169	1.45	-.27	102	5.04	-.30	<u>Acid Soluble Manganese</u>			247	0.027	-.34	<u>Molybdenum</u>		
255	1.44	-.32	393	4.67	-.65	<u>ICP</u>			102	0.026	-.36	<u>Other</u>		
390	1.49 R	-.35	106	4.00	-1.28	390	0.030 R	1.94	131	0.026	-.45	231 4.48 .71		
422	1.39	-.45	368	3.80	-1.48	057	0.030	1.25	422	0.025	-.55	Meth: 289.XX PPM		
368	1.35	-.62	035	3.79 R	-1.58	035	0.030	1.11	022	0.026	-.57	<u>Molybdenum</u>		
433	1.31	-.70	Meth: 251.99 PPM			041	0.029	1.10	232	0.024	-1.02	057 7.03 R 2.78		
291	1.27	-.81	<u>Lead</u>			354	0.030	1.02	393	0.020	-2.42	247 6.55 1.60		
232	1.20	-1.02	<u>Other</u>			389	0.028	1.02	484	0.010 s	-5.80	433 6.62 1.38		
247	1.18	-1.07	231	5.13	.66	009	0.030	.96	483	0.008 s	-6.38	035 6.39 1.12		
230	1.16	-1.13	Avg	4.81		Meth: 281.30 PPM			Mercury			450 6.00 .59		
397	1.11 X	-1.28	484	4.50	-1.03	<u>ICP</u>			393 0.72 .87			368 5.60 .39		
402	1.11	-1.28	Meth: 251.XX PPM			022	0.026	-.84	Avg	0.41		393 5.78 .31		
231	0.94	-1.80	<u>Lead</u>			422	0.025	-.84	450	0.10	-.87	232 5.61 .14		
481	0.93	-1.84	136	25.00 s	20.89	232	0.024	-1.41	Meth: 289.30 PPM			Avg 5.53		
137	0.88	-1.97	009	10.99 s	6.09	Meth: 261.99 PCT			Molybdenum			096 5.50 -.13		
472	0.78	-2.27	232	6.90	1.82	<u>Acid Soluble Manganese</u>			<u>ICP</u>			102 5.50 -.21		
292	0.69	-2.54	105	6.28	1.09	<u>Other</u>			057 7.03 s 2.82			230 5.21 -.41		
300	0.41 A	-3.36	247	6.15	.95	037 0.028 .87			247 6.55 1.58			009 4.90 -.81		
393	0.36 s	-3.51	450	6.00	.79	Avg 0.024			433 6.62 1.33			231 4.48 -1.33		
Meth: 251.00 PPM			481	5.34	.13	393 0.020 -.86			035 6.39 1.06			106 5.00 -1.44		
<u>Lead</u>			230	5.28	.08	484 0.010 S -3.13			450 6.00 .51			105 4.31 -1.56		
<u>Atomic Absorption</u>			Avg	5.26		483 0.008 S -3.53			393 5.78 .22			422 5.50 R -3.17		
136	25.00 S	146.56	231	5.13	-.16	Meth: 261.XX PCT			Avg 5.61			Meth: 291.30 PPM		
481	5.34	.71	102	5.04	-.24	<u>Acid Soluble Manganese</u>			232 5.61 -.11			<u>Nickel</u>		
Avg	5.34		393	4.67	-.63	390 0.030 R 1.70			096 5.50 -.20			<u>ICP</u>		
Meth: 251.30 PPM			484	4.50	-.91	057 0.030 1.18			102 5.50 -.26			035 18.25 s 2.88		
<u>Lead</u>			106	4.00	-1.33	035 0.030 1.05			368 5.60 -.40			105 15.67 1.44		
<u>ICP</u>			368	3.80	-1.55	354 0.030 1.00			230 5.21 -.53			450 13.50 .64		
009	10.99 s	5.38	035	3.79 R	-1.67	041 0.029 .98			009 4.90 -.95			009 13.48 .61		
232	6.90	1.55				009 0.030 .95			106 5.00 -1.54			233 12.93 .43		
105	6.28	.89										368 12.40 .23		
247	6.15	.76												

* 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: 311.99 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT			Meth: 321.XX PCT		
Nickel			Sodium			Acid Soluble Zinc			Acid Soluble Zinc			Acid Soluble Zinc		
<u>ICP</u>			<u>Other</u>			<u>ICP</u>			105 0.083 .13			Avg 0.083		
037	12.16	.18	422	0.23 s	44.42	035	0.080	-.50	402	0.083	-.01	096	0.081	-.34
Avg	11.88		057	0.06	.79	255	0.080	-.50	422	0.080	-.48	481	0.080	-.48
102	11.45	-.16	232	0.06	.56	041	0.080	-.84	481	0.080	-.48	035	0.080	-.50
230	11.30	-.22	009	0.06	.23	232	0.083 R	-1.01	035	0.080	-.50	255	0.080	-.50
106	11.50	-.24	Avg	0.06		102	0.076	-1.05	041	0.080	-.89	102	0.076	-1.11
232	11.45	-.33	035	0.05	-1.59	433	0.074	-1.40	027	0.059 s	-3.57	433	0.074	-1.49
393	4.82	-2.67	Meth: 321.00 PCT			Meth: 321.99 PCT			Meth: 321.99 PCT			Meth: 325.99 PCT		
247	4.56 s	-3.08	Acid Soluble Zinc			Acid Soluble Zinc			Acid Soluble Zinc			Water Soluble Zinc		
Meth: 291.99 PPM			<u>Atomic Absorption</u>			<u>Other</u>			102 0.076 -1.11			433 0.074 -1.49		
Nickel			043	0.084	.86	Meth: 321.99 PCT			230 0.072 -1.79			230 0.072 -1.79		
<u>Other</u>			105	0.083	.58	Acid Soluble Zinc			105 0.071 -1.80			105 0.071 -1.80		
231	6.26	.71	Avg	0.083		<u>Other</u>			027 0.059 s -3.91			027 0.059 s -3.91		
Meth: 291.XX PPM			481	0.080	-1.19	231 0.085 .71			484 0.015 s -10.63			484 0.015 s -10.63		
Nickel			Meth: 321.30 PCT			Avg 0.085			Meth: 325.99 PCT			Meth: 325.99 PCT		
035	18.25 R	2.68	Acid Soluble Zinc			484 0.015 S -49.62			Water Soluble Zinc			Water Soluble Zinc		
105	15.67	1.43	<u>ICP</u>			Meth: 321.XX PCT			<u>Other</u>			<u>Other</u>		
450	13.50	.72	389	0.810 s	102.12	Acid Soluble Zinc			450 0.088 .71			450 0.088 .71		
009	13.48	.69	368	0.101 R	2.74	Meth: 321.XX PCT			389 0.810 s 113.23			389 0.810 s 113.23		
233	12.93	.53	483	0.101	2.46	Acid Soluble Zinc			368 0.101 R 3.08			368 0.101 R 3.08		
368	12.40	.35	390	0.092	1.42	Meth: 321.XX PCT			483 0.101 2.78			483 0.101 2.78		
037	12.16	.28	095	0.092	1.19	Acid Soluble Zinc			390 0.092 R 1.62			390 0.092 R 1.62		
232	11.45	.25	354	0.090	.92	Meth: 321.XX PCT			095 0.092 1.38			095 0.092 1.38		
106	11.50	.17	037	0.089	.80	Acid Soluble Zinc			232 0.083 R 1.12			232 0.083 R 1.12		
102	11.45	.03	292	0.085	.74	Meth: 321.XX PCT			354 0.090 1.08			354 0.090 1.08		
Avg	11.41		450	0.088	.71	Acid Soluble Zinc			037 0.089 .94			037 0.089 .94		
230	11.30	-.05	057	0.086	.36	Meth: 321.XX PCT			450 0.088 .85			450 0.088 .85		
231	6.26	-1.73	022	0.085	.33	Acid Soluble Zinc			292 0.085 .84			292 0.085 .84		
393	4.82	-2.21	472	0.084	.16	Meth: 321.XX PCT			057 0.086 .45			057 0.086 .45		
247	4.56 R	-2.59	247	0.084	.12	Acid Soluble Zinc			022 0.085 .39			022 0.085 .39		
Meth: 301.30 PPM			131	0.084	.08	Meth: 321.XX PCT			231 0.085 .34			231 0.085 .34		
Selenium			233	0.084	.08	Acid Soluble Zinc			472 0.084 .21			472 0.084 .21		
<u>ICP</u>			Avg	0.083		Meth: 321.XX PCT			043 0.084 .21			043 0.084 .21		
393	0.83	.71	402	0.083	-.06	Acid Soluble Zinc			247 0.084 .15			247 0.084 .15		
			096	0.081	-.35	Meth: 321.XX PCT			131 0.084 .13			131 0.084 .13		
			422	0.080	-.48	Acid Soluble Zinc			233 0.084 .13			233 0.084 .13		

* 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	6	0.00	1.04	0.11	101.XX	52	- 0.35	2.40	0.50
001.99	5	0.00	1.03	0.21	121.00	11	3.53	11.26	0.87
001.XX	11	0.00	1.02	0.11	121.30	38	4.14	23.16	0.48
002.99	3	0.00	1.12	0.00	121.99	3	6.06	10.54	0.00
002.XX	3	0.00	1.12	0.00	121.XX	52	4.37	23.06	0.59
005.00	2	0.00	1.22	0.10	144.99	11	0.00	0.99	0.25
005.99	4	0.00	1.08	0.06	144.XX	13	0.00	0.99	0.25
005.XX	6	0.00	1.05	0.06	151.00	2	0.00	1.22	0.02
010.11	7	- 26.24	69.42	1.05	151.30	6	0.00	1.02	0.22
010.12	5	- 0.26	4.50	0.62	151.XX	9	0.05	0.98	0.19
010.60	54	- 0.28	2.42	1.89	165.99	6	6.881	16.870	0.571
010.99	7	0.45	1.52	0.11	165.XX	7	- 0.037	0.962	0.069
010.XX	72	- 0.93	6.75	1.66	181.00	2	0.00	0.78	0.67
020.10	3	1.55	2.74	2.04	181.30	12	4.56	15.82	1.95
020.20	9	0.73	4.13	0.36	181.99	2	25.90	36.62	4.72
020.40	7	- 0.41	1.38	1.04	181.XX	16	8.52	29.22	3.61
020.50	7	- 0.09	0.98	0.16	190.00	3	0.00	1.08	0.24
020.99	2	0.00	0.00	0.00	190.XX	3	0.00	1.08	0.24
020.XX	27	4.54	24.44	1.04	191.30	12	0.86	2.55	1.31
040.XX	2	0.00	1.22	0.07	191.XX	14	0.11	3.00	1.17
041.10	4	0.29	1.08	0.01	202.30	13	0.00	1.02	0.07
041.40	3	0.00	1.11	0.09	202.XX	15	0.00	1.02	0.05
041.50	7	0.00	1.02	0.20	221.00	4	844.75	1689.5	16.000
041.99	2	0.00	0.41	0.82	221.30	23	45.299	206.24	10.924
041.XX	16	- 0.02	1.00	0.11	221.99	2	0.0000	0.0000	0.0000
050.00	13	- 0.49	1.79	0.48	221.XX	29	73.643	269.43	10.923
050.30	7	0.00	1.00	0.27	241.00	9	0.00	1.02	0.13
050.31	3	0.00	1.11	0.10	241.30	40	- 0.19	1.25	0.13
050.50	9	- 0.04	2.53	0.47	241.99	3	0.00	1.12	0.03
050.51	10	0.25	1.23	0.36	241.XX	52	- 0.12	1.17	0.12
050.60	3	0.00	1.09	0.21	251.00	2	73.19	103.50	5.29
050.61	8	0.00	0.98	0.32	251.30	11	0.35	1.94	0.29
050.99	21	0.25	1.61	0.50	251.99	2	0.00	0.90	0.59
050.XX	71	0.01	1.46	0.38	251.XX	15	1.69	5.62	0.40
060.00	4	0.00	1.01	0.33	261.30	13	0.076	0.881	0.673
060.XX	4	0.00	1.01	0.33	261.99	4	- 1.658	2.045	0.236
101.00	11	- 0.64	2.40	0.22	261.XX	18	- 0.621	2.171	0.513
101.30	36	0.11	1.63	0.62	281.30	2	0.00	1.22	0.02
101.99	5	- 4.44	7.69	0.68	281.XX	2	0.00	1.22	0.02

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
289.30	15	0.11	0.95	1.11					
289.XX	16	0.12	0.97	1.03					
291.30	13	- 0.03	1.41	0.59					
291.XX	14	0.00	1.30	0.50					
311.99	5	8.88	19.87	0.69					
311.XX	5	8.88	19.87	0.69					
321.00	3	0.000	1.039	0.336					
321.30	27	3.747	19.696	0.512					
321.99	2	- 24.74	35.000	2.550					
321.XX	31	3.354	20.516	0.574					