

- Pass 1 Results for 80 Labs - - Pass 2 Results for 79 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	7	17.14	0.39	0.03	6	17.15	0.42	0.02
Ammoniacal Nitrogen, Other		001.99	12	17.34	0.49	0.05	12	17.34	0.49	0.05
Method Group 001.XX PCT			19	17.27	0.46	0.05	18	17.31	0.44	0.04
Nitrate Nitrogen, Other		002.99	1	0.08	0.00	0.00	1	0.08	0.00	0.00
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	0.42	0.03	0.04	1	0.42	0.03	0.04
Ammon & Nitrate N, Devarda	892.01	009.10	3	17.56	0.36	0.12	3	17.56	0.36	0.12
Ammon & Nitrate N, Other		009.99	1	17.63	0.03	0.04	1	17.63	0.03	0.04
Method Group 009.XX PCT			4	17.58	0.30	0.10	4	17.58	0.30	0.10
Total Nitrogen, Reduced Iron		010.10	1	18.01	0.01	0.02	1	18.01	0.01	0.02
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	18.00	0.31	0.05	6	17.91	0.19	0.03
Total Nitrogen, Salicylic	955.04D	010.12	3	17.88	0.29	0.04	3	17.88	0.29	0.04
Total Nitrogen, Combustion		010.60	52	17.90	0.25	0.09	49	17.92	0.23	0.08
Total Nitrogen, Other		010.99	6	17.78	0.40	0.19	6	17.78	0.40	0.19
Method Group 010.XX PCT			69	17.90	0.27	0.09	64	17.92	0.26	0.07
Total Phosphate, Grav Quimociac	962.02	020.10	5	47.34	0.38	0.18	5	47.34	0.38	0.18
Total Phosphate, Spectrometric	958.01	020.20	11	46.45	1.24	0.13	11	46.45	1.24	0.13
Total Phosphate, Automated	978.01	020.40	7	46.71	0.40	0.17	7	46.71	0.40	0.17
Total Phosphate, ICP		020.50	10	45.76	1.26	0.76	10	45.76	1.26	0.76
Total Phosphate, Other		020.99	4	45.89	0.74	0.70	4	45.89	0.74	0.70
Method Group 020.XX PCT			38	46.35	1.11	0.40	33	46.59	0.79	0.24
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.32	0.01	0.01	1	0.32	0.01	0.01
Insoluble Phosphate, Automated	978.01	030.40	2	0.67	0.06	0.02	2	0.67	0.06	0.02
Insoluble Phosphate, ICP		030.50	1	1.13	0.00	0.00	1	1.13	0.00	0.00
Insoluble Phosphate, Other		030.99	2	0.58	0.16	0.04	2	0.58	0.16	0.04
Method Group 030.XX PCT			6	0.66	0.27	0.02	6	0.66	0.27	0.02
InDir Available Phosphate, Grav Quim .	960.02	040.10	1	47.16	0.11	0.15	1	47.16	0.11	0.15
InDir Available Phosphate, Spectrometri	960.02	040.20	1	47.53	0.16	0.22	1	47.53	0.16	0.22
InDir Available Phosphate, Automated	960.02	040.40	3	46.33	0.21	0.10	3	46.33	0.21	0.10
InDir Available Phosphate, ICP		040.50	2	45.04	0.46	0.42	2	45.04	0.46	0.42
InDir Available Phosphate, Other		040.99	2	45.93	0.36	0.03	2	45.93	0.36	0.03
Method Group 040.XX PCT			9	46.18	0.85	0.18	9	46.18	0.85	0.18
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	18	46.57	0.55	0.21	17	46.58	0.55	0.17
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	45.79	0.28	0.26	3	45.79	0.28	0.26
Dir Available Phosphate, Automated	978.01	041.40	3	46.75	0.61	0.08	3	46.75	0.61	0.08
Dir Available Phosphate, ICP		041.50	6	45.61	0.53	0.39	6	45.61	0.53	0.39
Dir Available Phosphate, EDTA Extract	993.01	041.60	10	46.46	0.43	0.17	9	46.51	0.41	0.12
Dir Available Phosphate, Other		041.99	1	46.30	0.16	0.22	1	46.30	0.16	0.22
Method Group 041.XX PCT			41	46.35	0.62	0.22	39	46.38	0.58	0.19
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	42.57	0.99	0.05	3	42.57	0.99	0.05

- Pass 1 Results for 80 Labs - - Pass 2 Results for 79 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
Water Soluble Phosphate, Other		048.99	1	41.48	0.07	0.10	1	41.48	0.07	0.10
Method Group 048.XX PCT			4	42.30	0.98	0.06	4	42.30	0.98	0.06
Soluble Potash, STPB Oxalate	958.02	050.00	1	0.03	0.02	0.03	1	0.03	0.02	0.03
Soluble Potash, STPB Citrate	969.04	050.10	1	0.35	0.06	0.09	1	0.35	0.06	0.09
Soluble Potash, ICP (Oxalate)		050.50	3	0.16	0.09	0.01	3	0.16	0.09	0.01
Soluble Potash, ICP (Citrate)		050.51	3	0.13	0.02	0.01	3	0.13	0.02	0.01
Soluble Potash, Other		050.99	5	0.17	0.06	0.03	5	0.17	0.06	0.03
Method Group 050.XX PCT			13	0.16	0.09	0.03	11	0.15	0.07	0.01
Free Water, Vacuum Oven	965.08B	060.00	5	1.32	0.22	0.05	4	1.22	0.08	0.02
Free Water, Vacuum Desiccate	965.08A	060.10	1	1.35	0.01	0.02	1	1.35	0.01	0.02
Method Group 060.XX PCT			6	1.32	0.20	0.05	5	1.25	0.09	0.02
Acid Soluble Calcium, ICP		101.30	16	0.22	0.01	0.01	16	0.22	0.01	0.01
Acid Soluble Calcium, Other		101.99	1	0.22	0.03	0.04	1	0.22	0.03	0.04
Method Group 101.XX PCT			17	0.22	0.01	0.01	16	0.22	0.01	0.01
Acid Soluble Magnesium, AA	984.01	121.00	1	0.86	0.06	0.09	1	0.86	0.06	0.09
Acid Soluble Magnesium, ICP		121.30	16	0.83	0.03	0.01	14	0.84	0.04	0.01
Acid Soluble Magnesium, Other		121.99	1	0.76	0.06	0.09	1	0.76	0.06	0.09
Method Group 121.XX PCT			18	0.83	0.04	0.02	16	0.83	0.03	0.01
Sulfur, Gravimetric	980.02a	144.01	3	1.22	0.04	0.06	3	1.22	0.04	0.06
Sulfur, Other		144.99	11	1.11	0.05	0.02	11	1.11	0.05	0.02
Method Group 144.XX PCT			14	1.13	0.07	0.03	13	1.13	0.06	0.02
Arsenic, Atomic Absorption		151.00	2	13.75	1.60	0.60	2	13.75	1.60	0.60
Arsenic, ICP		151.30	7	13.02	2.30	1.02	7	13.02	2.30	1.02
Arsenic, Other		151.99	2	9.23	0.26	0.08	2	9.23	0.26	0.08
Method Group 151.XX PPM			11	12.47	2.48	0.77	11	12.47	2.48	0.77
Acid Soluble Boron, Other		165.99	9	0.020	0.013	0.001	8	0.020	0.014	0.001
Cadmium, Atomic Absorption		181.00	3	2.48	0.19	0.07	3	2.48	0.19	0.07
Cadmium, ICP		181.30	11	2.62	0.50	0.17	11	2.62	0.50	0.17
Cadmium, Other		181.99	1	2.34	0.04	0.05	1	2.34	0.04	0.05
Method Group 181.XX PPM			15	2.57	0.45	0.15	14	2.64	0.38	0.12
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	0.15	0.01	0.01	1	0.15	0.01	0.01
Water Soluble Chlorine, Other		190.99	1	0.02	0.01	0.01	1	0.02	0.01	0.01
Method Group 190.XX PCT			2	0.08	0.07	0.01	2	0.08	0.07	0.01
Chromium, ICP		191.30	12	111.84	14.09	1.91	11	112.08	14.69	1.49
Chromium, Other		191.99	1	89.20	0.28	0.40	1	89.20	0.28	0.40
Method Group 191.XX PPM			13	110.10	14.85	1.79	12	110.17	15.45	1.40
Acid Soluble Cobalt, ICP	965.11	202.30	11	3.14	0.59	0.23	10	3.05	0.46	0.07
Acid Soluble Cobalt, Other		202.99	1	2.56	0.10	0.14	1	2.56	0.10	0.14
Method Group 202.XX PPM			12	3.09	0.59	0.22	11	3.01	0.46	0.08

- Pass 1 Results for 80 Labs - - Pass 2 Results for 79 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
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0003	0.0002	0.0001	2	0.0003	0.0002	0.0001
Acid Soluble Copper, ICP		221.30	6	0.0187	0.0382	0.0002	5	0.0202	0.0421	0.0000
Acid Soluble Copper, Other		221.99	2	0.0773	0.0844	0.0135	2	0.0773	0.0844	0.0135
Method Group 221.XX PCT			10	0.0267	0.0519	0.0028	9	0.0130	0.0319	0.0009
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	1.10	0.06	0.08	1	1.10	0.06	0.08
Acid Soluble Iron, ICP		241.30	16	1.05	0.07	0.02	15	1.05	0.06	0.01
Acid Soluble Iron, Other		241.99	1	0.96	0.03	0.04	1	0.96	0.03	0.04
Method Group 241.XX PCT			18	1.05	0.07	0.03	17	1.05	0.07	0.02
Lead, ICP		251.30	3	1.88	2.00	0.10	3	1.88	2.00	0.10
Lead, Other		251.99	2	2.14	0.72	0.14	2	2.14	0.72	0.14
Method Group 251.XX PPM			5	1.98	1.55	0.12	5	1.98	1.55	0.12
Acid Soluble Manganese, AA	972.02a	261.00	1	0.029	0.001	0.001	1	0.029	0.001	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	15	0.027	0.002	0.001	14	0.027	0.002	0.000
Acid Soluble Manganese, Other		261.99	3	0.026	0.004	0.000	3	0.026	0.004	0.000
Method Group 261.XX PCT			19	0.027	0.002	0.001	18	0.027	0.002	0.000
Mercury, Atomic Absorption		281.00	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Molybdenum, ICP		289.30	12	7.38	1.18	0.42	12	7.38	1.18	0.42
Molybdenum, Other		289.99	1	7.10	0.05	0.07	1	7.10	0.05	0.07
Method Group 289.XX PPM			13	7.36	1.13	0.39	13	7.36	1.13	0.39
Nickel, Atomic Absorption		291.00	1	14.00	1.41	2.00	1	14.00	1.41	2.00
Nickel, ICP		291.30	8	11.95	1.56	0.90	8	11.95	1.56	0.90
Method Group 291.XX PPM			9	12.18	1.64	1.03	9	12.18	1.64	1.03
Selenium, ICP		301.30	1	1.00	0.14	0.20	1	1.00	0.14	0.20
Sodium, Other		311.99	7	0.15	0.02	0.00	7	0.15	0.02	0.00
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	5	0.004	0.001	0.001	4	0.004	0.000	0.000
Acid Soluble Zinc, ICP		321.30	17	0.004	0.001	0.000	16	0.004	0.001	0.000
Acid Soluble Zinc, Other		321.99	2	0.004	0.000	0.000	2	0.004	0.000	0.000
Method Group 321.XX PCT			25	0.004	0.001	0.000	23	0.004	0.001	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 001.10 PCT													
Ammoniacal Nitrogen													
MgO Distillation													
444	17.78	1.48	193	17.23	-0.19	090	17.90	1.06	422	18.16	1.04		
371	17.54	.92	288	17.20	-0.25	257	17.64	.21	291	18.16	1.00		
288	17.20	.11	372	17.19	-0.27	420	17.63	.18	162	18.16	1.00		
Avg	17.15		Avg	17.17	-0.33	Avg	17.58		073	18.15	.96		
029	17.10 R	-0.19	234	17.17	-0.33	030	17.15	-1.51	049	18.14	.95		
351	16.94	-0.51	029	17.10	-0.50	Meth: 010.10 PCT							
324	16.86	-0.70	420	17.00	-0.72	Total Nitrogen							
309	16.60	-1.30	351	16.94	-0.85	Reduced Iron							
230	15.00 s	-5.08	324	16.86	-1.03	405	18.01	.71	114	18.11	.78		
Meth: 001.99 PCT													
Ammoniacal Nitrogen													
Other													
430	18.25	1.85	027	16.54	-1.76	Meth: 010.11 PCT							
300	17.70	.72	394	16.53 R	-1.78	Total Nitrogen							
255	17.67	.67	230	15.00 s	-5.26	Modified Comprehensi							
096	17.66	.64	Meth: 002.99 PCT										
409	17.60	.52	Nitrate Nitrogen										
428	17.58	.48	Other										
Avg	17.34		288	0.08	.00	Meth: 005.00 PCT							
193	17.23	-0.23	Nitrogen From Urea										
372	17.19	-0.31	Urease (as N)										
234	17.17	-0.36	288	0.42	-0.71	Meth: 010.12 PCT							
420	17.00	-0.70	Total Nitrogen										
027	16.54	-1.64	Salicylic										
394	16.53	-1.65	137	18.21	1.14	Meth: 010.60 PCT							
Meth: 001.99 PCT													
Ammoniacal Nitrogen													
430	18.25	2.15	090	17.90	.95	Total Nitrogen							
444	17.78	1.08	257	17.64	.23	Devarda							
300	17.70	.88	Avg	17.56		Meth: 009.10 PCT							
255	17.67	.83	030	17.15	-1.24	Ammon & Nitrate N							
096	17.66	.79	Meth: 009.99 PCT										
409	17.60	.66	Total Nitrogen										
428	17.58	.61	Ammon & Nitrate N										
371	17.54	.53	420	17.63	.71	Other							
Meth: 010.99 PCT													
Total Nitrogen													
Other													
234	18.13	.88	428	51.41 s	130.95	Meth: 010.60 PCT							
105	18.06	.86	309	18.60	2.69	Total Nitrogen							
255	17.92	.34	028	18.43	2.03	Meth: 010.10 PCT							
300	17.79	.13	027	18.30	1.49	Total Nitrogen							
Avg	17.78		390	18.25	1.31	Meth: 010.11 PCT							
402	17.76	-0.61	137	18.21	1.12	Total Nitrogen							
420	17.05	-1.87	422	18.16	.96	Meth: 010.60 PCT							
Meth: 010.60 PCT													
Total Nitrogen													
Combustion													
423	17.75	-0.74	105	18.06 R	-0.73	Meth: 010.12 PCT							
022	17.76	-0.76	Total Nitrogen										
095	17.72 R	-1.07	Combustion										
425	17.68	-1.09	* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits										
009	17.67	-1.09	Sample 200702										
369	17.62	-1.34	March 25, 2007										
042	17.55	-1.60	Page 4										
426	17.52	-1.72											
023	17.50	-1.85											
262	17.50	-1.85											
307	17.49	-1.87											
325	17.35	-2.44											
102	17.21 A	-3.07											
351	16.51 s	-6.14											
230	16.40 s	-6.50											

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT														
Total Nitrogen														
322	18.16	.93	185	17.86	-.31	372	47.68	.99	430	44.35	-1.12	422	46.43	-.23
291	18.16	.92	034	17.85	-.34	406	47.60	.93	330	44.49	-1.21	405	46.33	-.34
162	18.16	.92	389	17.85	-.34	425	47.44	.79	307	44.06	-1.58	389	46.30	-.39
073	18.15	.89	360	17.88	-.34	232	46.71	.21				234	46.56	-.41
049	18.14	.88	292	17.81	-.50	371	46.62	.19				369	46.26	-.43
234	18.13	.84	300	17.79	-.54	257	46.66	.19				420	46.20	-.50
296	18.12	.78	233	17.77	-.61	292	46.63	.15				324	46.19	-.52
106	18.12	.77	324	17.84	-.66	Avg	46.45					042	45.94	-.87
114	18.11	.72	423	17.75	-.67	369	46.26	-.16				255	45.84	-1.02
040	18.08	.63	022	17.76	-.69	420	46.20	-.20				193	45.60	-1.54
055	18.05	.58	095	17.72	-.98	324	46.19	-.22				432	45.35	-1.59
029	18.07	.57	425	17.68	-.99	309	43.00	-2.79				007	45.44	-1.60
377	18.06	.55	009	17.67	-1.00	428	0.14 s	-37.40				402	45.24	-1.15
037	18.04	.54	402	17.76	-1.13							430	44.35	-2.85
043	18.05	.53	369	17.62	-1.22							330	44.49	-2.87
330	18.00	.50	254	17.57	-1.39							307	44.06	-3.47
035	18.05	.49	211	17.56	-1.43							309	43.00	-4.55
025	18.03	.44	042	17.55	-1.46							428	0.14 s	-58.83
090	18.03	.42	426	17.52	-1.57									
096	18.01	.36	023	17.50	-1.69									
405	18.01	.35	262	17.50	-1.69									
131	18.01	.35	307	17.49	-1.71									
136	18.01	.34	325	17.35	-2.23									
409	17.96	.25	102	17.21	-2.81									
247	17.98	.25	420	17.05	-3.42									
007	17.95	.23	351	16.51	-5.63									
105	17.92	.20	230	16.40	-5.96									
041	17.93	.03												
255	17.92	.01												
Meth: 020.10 PCT														
Total Phosphate														
Avg	17.92		Total Phosphate			ICP			Total Phosphate			Total Phosphate		
177	17.91	-.06	Grav	Quimociac		423	47.56	1.43	444	46.75	.20	096	0.72	.87
029	17.90	-.10	114	47.80	1.23	390	46.65	1.09	232	46.71	.16	Avg	0.67	
024	17.90	-.10	090	47.47	.39	426	46.57	.65	257	46.66	.15	409	0.62	-.87
232	17.91	-.15	105	47.47	.34	422	46.43	.53	247	46.67	.09			
288	17.88	-.16	Avg	47.34		389	46.30	.44	292	46.63	.07			
372	17.88	-.19	095	47.22	-.57	255	45.84	.22	Avg	46.59				
406	17.88	-.20	444	46.75	-1.54	Avg	45.76		035	46.52	-.15			
394	17.85	-.28	193	45.60	-4.89	432	45.35	-.34	426	46.57	-.18			

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 030.99 PCT											
Insoluble Phosphate											
Other											
405	0.71	.88									
Avg	0.58										
247	0.44	-.86									
Meth: 040.99 PCT											
InDir Available Phos											
Other											
247	46.24	.87									
Avg	45.93										
405	45.61	-.86									
Meth: 040.20 PCT											
InDir Available Phos											
Spectrometri											
372	47.53	1.59									
090	0.32	-1.27									
Meth: 040.10 PCT											
InDir Available Phos											
Grav Quim											
090	47.16	-.71									
Meth: 040.20 PCT											
InDir Available Phos											
Spectrometri											
372	47.53	.71									
Meth: 040.40 PCT											
InDir Available Phos											
Automated											
409	46.59	1.27									
Avg	46.33										
394	46.22	-.53									
096	46.19	-.79									
Meth: 040.50 PCT											
InDir Available Phos											
ICP											
255	44.71	-.92									
Meth: 041.10 PCT											
Dir Available Phosph											
Grav Quimociac											
260	46.52	-.35									
136	46.22	-.65									
029	46.08	-.97									
322	46.05	-.97									
009	46.37 R	-.99									
296	46.06	-1.03									
102	45.15	-2.63									
Meth: 041.20 PCT											
Dir Available Phosph											
Spectrometric											
030	46.09	1.30									
Avg	45.79										
262	45.70	-.48									
055	45.59	-.75									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
027	47.33	.95									
131	46.92	.28									
Avg	46.75										
029	46.00	-1.23									
Meth: 041.50 PCT											
Dir Available Phosph											
ICP											
185	47.42	1.54									
211	47.21	1.15									
254	47.05	.87									
131	47.01	.78									
105	46.91	.64									
041	46.71	.49									
055	46.83	.46									
177	46.70	.22									
040	46.70	.21									
049	46.61	.18									
022	46.64	.17									
Avg	46.58										
Meth: 041.60 PCT											
Dir Available Phosph											
EDTA Extract											
034	47.34	2.04									
028	46.76	.70									
105	46.64	.32									
106	46.53	.07									
043	46.52	.02									
Avg	46.51										
177	46.50	-.04									
073	46.32	-.63									
351	46.13	-.96									
296	45.99 R	-1.46									
137	45.88	-1.55									
Meth: 041.99 PCT											
Dir Available Phosph											
Other											
105	46.30	.71									
Avg	46.30										
230	41.90 S	-28.47									
Meth: 041.90 PCT											
Dir Available Phosph											
Automated											
027	47.33	.95									
131	46.92	.28									
Avg	46.75										
029	46.00	-1.23									
Meth: 041.10 PCT											
Dir Available Phosph											
Grav Quimociac											
185	47.42	1.54									
211	47.21	1.15									
254	47.05	.87									
131	47.01	.78									
105	46.91	.64									
041	46.71	.49									
055	46.83	.46									
177	46.70	.22									
040	46.70	.21									
049	46.61	.18									
022	46.64	.17									
Avg	46.58										
Meth: 041.10 PCT											
Dir Available Phosph											
ICP											
185	47.42	1.54									
211	47.21	1.15									
254	47.05	.87									
131	47.01	.78									
105	46.91	.64									
041	46.71	.49									
055	46.83	.46									
177	46.70	.22									
040	46.70	.21									
049	46.61	.18									
022	46.64	.17									
Avg	46.58										
Meth: 041.20 PCT											
Dir Available Phosph											
Spectrometric											
372	43.82	1.26									
Avg	42.57										
096	42.19	-.38									
420	41.70	-.88									
Meth: 048.20 PCT											
Water Soluble Phosph											
Spectrometric											
372	43.82	1.26									
Avg	42.57										
096	42.19	-.38									
420	41.70	-.88									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 048.99 PCT			Meth: 050.51 PCT			Meth: 060.00 PCT			Meth: 101.30 PCT		
Water Soluble Phosph			Soluble Potash			Free Water			Acid Soluble Calcium		
Other			ICP (Citrate)			Vacuum Oven			ICP		
394	41.48	- .71	389	0.15	.67	193	1.71 R	6.31	096	0.22	.16
			Avg	0.13		105	1.33	1.40	Avg	0.22	
Meth: 048.XX PCT			009	0.10	-1.27	247	1.24	.35	307	0.22	- .17
Water Soluble Phosph						Avg	1.22		035	0.22	- .25
372	43.82	1.55	Meth: 050.61 PCT			007	1.17	- .67	247	0.22	- .42
Avg	42.30		Soluble Potash			096	1.15	- .98	131	0.21	- .64
096	42.19	- .11	Flame (Citrate)						009	0.21	- .79
420	41.70	- .61	025	46.23 S	.00	Meth: 060.10 PCT			389	0.21	- .92
394	41.48	- .84				Free Water			102	0.20	-1.09
			Meth: 050.99 PCT			Vacuum Desiccate			232	0.20	-1.23
Meth: 050.00 PCT			Soluble Potash			372	1.35	.71	433	0.20	-1.33
Soluble Potash			Other								
STPB Oxalate			255	0.25	1.27	Meth: 060.XX PCT			Meth: 101.99 PCT		
296	0.03	- .71	325	0.22	.74	Free Water			Acid Soluble Calcium		
			Avg	0.17		193	1.71 R	5.33	Other		
Meth: 050.10 PCT			409	0.14	- .56	372	1.35	1.18	022	0.22	.71
Soluble Potash			330	0.14	- .57	105	1.33	.95	Acid Soluble Calcium		
STPB Citrate			402	0.11	-1.30	Avg	1.25		Meth: 101.XX PCT		
444	0.35	.71				247	1.24	- .24	Acid Soluble Calcium		
			Meth: 050.XX PCT			007	1.17	- .89	422	1.26 s	75.78
Meth: 050.30 PCT			Soluble Potash			096	1.15	-1.17	065	0.24	1.86
Soluble Potash			025	46.23 s	641.83				022	0.22 R	1.46
AA (Oxalate)			262	1.16 s	14.12	Meth: 101.00 PCT			390	0.24	1.38
262	1.16 S	.00	444	0.35 R	2.81	Acid Soluble Calcium			423	0.23	1.15
			422	0.28	1.77	AA			420	0.23	.90
Meth: 050.50 PCT			255	0.25	1.39	105	0.09 S	.00	288	0.23	.89
Soluble Potash			325	0.22	.94				106	0.22	.74
ICP (Oxalate)			Avg	0.15		Meth: 101.30 PCT			096	0.22	.16
422	0.28	1.28	389	0.15	- .08	Acid Soluble Calcium			Avg	0.22	
Avg	0.16		377	0.15	- .08	ICP			307	0.22	- .17
307	0.12	- .47	409	0.14	- .19	422	1.26 s	75.78	035	0.22	- .25
324	0.08	- .80	330	0.14	- .30	065	0.24	1.86	247	0.22	- .42
			307	0.12	- .46	390	0.24	1.38	131	0.21	- .64
Meth: 050.51 PCT			009	0.10	- .67	423	0.23	1.15	009	0.21	- .79
Soluble Potash			324	0.08	- .88	420	0.23	.90	389	0.21	- .92
ICP (Citrate)			402	0.11 R	- .92	288	0.23	.89	102	0.20	-1.09
377	0.15	.67	296	0.03	-1.73	106	0.22	.74	232	0.20	-1.23

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.XX PCT											
<u>Acid Soluble Magnesi</u>											
422	1.18 s	9.94									
420	0.89	1.67									
423	0.89	1.65									
105	0.86 R	1.44									
433	0.88	1.34									
288	0.86	.77									
389	0.84	.43									
307	0.84	.28									
131	0.84	.17									
247	0.84	.15									
Meth: 144.99 PCT											
<u>Sulfur</u>											
Other			247	1.11	-1.13						
420	0.89	1.67	307	1.09	-0.39						
423	0.89	1.65	096	1.07	-0.83						
105	0.86 R	1.44	035	1.07	-0.83						
433	0.88	1.34	422	1.07	-0.91						
288	0.86	.77	232	1.03	-1.61						
389	0.84	.43									
307	0.84	.28									
131	0.84	.17									
247	0.84	.15									
Meth: 144.XX PCT											
<u>Sulfur</u>											
288	1.24	1.77									
193	1.23	1.52									
105	1.20 R	1.35									
102	1.19	1.07									
390	1.16	.48									
423	1.16	.42									
389	1.14	.24									
Avg	1.13										
009	1.13	-0.02									
247	1.11	-0.37									
307	1.09	-0.57									
035	1.07	-0.92									
096	1.07	-0.92									
422	1.07	-0.99									
232	1.03	-1.53									
Meth: 151.00 PPM											
<u>Arsenic</u>											
394	15.10	.85									
Avg	13.75										
136	12.40	-0.88									
Meth: 151.30 PPM											
<u>Arsenic</u>											
065	16.56	1.69									
394	15.10	1.06									
106	15.00	1.02									
247	13.50	.45									
096	12.70	.09									
Avg	12.47										
136	12.40	-0.16									
037	12.14	-0.49									
102	11.66	-0.50									
009	9.60	-1.16									
372	9.45	-1.21									
409	9.02	-1.39									
Meth: 151.99 PPM											
<u>Arsenic</u>											
009	0.044	1.73									
433	0.030	.73									
307	0.026	.46									
288	0.025	.38									
422	0.024 R	.29									
Meth: 144.99 PCT											
<u>Sulfur</u>											
102	1.19	1.76									
390	1.16	.98									
423	1.16	.94									
389	1.14	.66									
009	1.13	.36									
Avg	1.11										
Meth: 144.01 PCT											
<u>Sulfur</u>											
288	1.24	.65									
193	1.23	.36									
Avg	1.22										
105	1.20	-1.39									
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
Other			106	2.34	.71						
102	1.19	1.76									
390	1.16	.98									
423	1.16	.94									
389	1.14	.66									
009	1.13	.36									
Avg	1.11										
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
Other			106	2.34	.71						
009	0.044	1.73									
433	0.030	.73									
307	0.026	.46									
288	0.025	.38									
422	0.024 R	.29									
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
Other			106	2.34	.71						
009	0.044	1.73									
433	0.030	.73									
307	0.026	.46									
288	0.025	.38									
422	0.024 R	.29									
Meth: 181.00 PPM											
<u>Cadmium</u>											
Other			106	0.020	.02						
106	0.020	.02									
Avg	0.020										
423	0.005	-1.04									
232	0.004	-1.10									
409	0.003	-1.15									
Meth: 181.30 PPM											
<u>Cadmium</u>											
394	2.65	.91									
136	2.55	.43									
Avg	2.48										
193	2.25	-1.22									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP			035	3.30	1.42						
035	3.30	1.42									
096	3.15	1.09									
037	2.91	.62									
247	2.90	.56									
102	2.86	.48									
324	2.80	.36									
Avg	2.62										
390	2.55	-0.19									
232	2.50	-0.31									
372	2.20	-0.83									
106	2.00	-1.22									
009	1.65	-1.98									
065	1.83 S	-2.29									
Meth: 181.99 PPM											
<u>Cadmium</u>											
Other			009	0.02	.71						
009	0.02	.71									
Meth: 190.00 PCT											
<u>Water Soluble Chlori</u>											
Titrimetric			422	0.15	-0.71						
422	0.15	-0.71									
Meth: 190.99 PCT											
<u>Water Soluble Chlori</u>											
Other			009	0.02	.71						
009	0.02	.71									
Meth: 191.30 PPM											
<u>Chromium</u>											
ICP			065	128.25	1.10						
065	128.25	1.10									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 191.30 PPM											
Chromium											
ICP											
394	124.00	.81									
035	123.50	.80									
106	120.00	.54									
102	119.01	.47									
037	116.64	.31									
009	115.75	.25									
096	112.50	.11									
Avg	112.08										
444	109.22	R									
232	100.55	-.79									
372	93.90	-1.24									
324	78.75	-2.27									
Meth: 191.99 PPM											
Chromium											
Other											
409	89.20	.71									
Meth: 202.99 PPM											
Acid Soluble Cobalt											
Other											
409	2.56	.71									
Meth: 202.22 PPM											
Chromium											
065	128.25	1.17									
394	124.00	.90									
035	123.50	.88									
106	120.00	.64									
102	119.01	.57									
037	116.64	.42									
009	115.75	.36									
096	112.50	.18									
Avg	110.17										
444	109.22	R									
232	100.55	-.62									
372	93.90	-1.06									
409	89.20	-1.36									
324	78.75	-2.03									
Meth: 202.30 PPM											
Acid Soluble Cobalt											
ICP											
065	4.02	R									
096	3.60	1.18									
102	3.54	1.09									
037	3.53	1.03									
009	3.30	.53									
247	3.20	.32									
Avg	3.05										
106	3.00	-.12									
035	3.02	-.22									
232	2.60	-.98									
372	2.40	-1.42									
324	2.35	-1.56									
Meth: 221.00 PCT											
Acid Soluble Copper											
Atomic Absorption											
043	0.0004	.83									
Avg	0.0003										
428	0.0002	-.90									
Meth: 221.30 PCT											
Acid Soluble Copper											
ICP											
372	0.1000	1.90									
Avg	0.0202										
422	0.0115	R									
307	0.0008	-.46									
433	0.0001	-.48									
041	0.0000	-.48									
330	0.0000	-.48									
Meth: 241.00 PCT											
Acid Soluble Iron											
Atomic Absorption											
105	1.10	.71									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
389	11.00	s									
035	1.17	1.82									
065	1.12	R									
288	1.13	1.27									
422	1.12	1.12									
102	1.12	1.08									
106	1.08	.42									
131	1.06	.26									
307	1.06	.23									
Avg	1.05										
390	1.05	-.09									
009	1.03	-.22									
372	1.03	-.44									
096	1.01	-.56									
423	0.99	-.91									
232	0.98	-1.05									
433	0.97	-1.10									
402	0.96	-1.29									
420	0.94	-1.59									
Meth: 251.30 PPM											
Lead											
ICP											
324	4.45	1.29									
Avg	1.88										
102	0.79	-.55									
372	0.40	-.74									
Meth: 251.99 PPM											
Lead											
Other											
394	2.75	.86									
Avg	2.14										
409	1.52	-.87									
Meth: 251.22 PPM											
Chromium											
444	109.22	R									
232	100.55	-.62									
372	93.90	-1.06									
409	89.20	-1.36									
324	78.75	-2.03									

* 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	8	- 0.65	2.00	0.05	101.XX	19	3.50	17.66	0.52
001.99	12	0.00	1.02	0.07	121.30	17	0.51	2.54	0.28
001.XX	20	- 0.35	1.55	0.07	121.XX	19	0.44	2.52	0.49
009.10	3	0.00	1.08	0.24	144.01	3	0.00	0.53	0.80
009.XX	4	0.00	1.04	0.25	144.99	11	0.00	1.00	0.22
010.11	7	0.51	1.66	0.22	144.XX	14	0.07	1.00	0.29
010.12	3	0.00	1.11	0.10	151.00	2	0.00	1.19	0.20
010.60	55	2.29	19.35	0.33	151.30	7	0.00	0.99	0.30
010.99	6	0.00	0.98	0.33	151.99	2	0.00	1.20	0.17
010.XX	70	1.63	15.74	0.31	151.XX	11	0.00	1.00	0.23
020.10	6	- 0.76	2.06	0.79	165.99	9	0.029	0.972	0.047
020.20	12	- 3.12	10.84	0.06	165.XX	9	0.029	0.972	0.047
020.40	7	0.00	1.00	0.26	181.00	3	0.00	1.09	0.22
020.50	10	0.00	0.92	0.44	181.30	12	- 0.13	1.05	0.54
020.99	4	0.00	0.88	0.54	181.XX	16	- 0.30	1.23	0.63
020.XX	38	- 1.87	9.58	0.43	190.XX	2	0.00	1.22	0.07
030.40	2	0.00	1.20	0.17	191.30	12	- 0.02	0.98	0.09
030.99	2	0.00	1.21	0.14	191.XX	13	0.00	0.98	0.09
030.XX	6	0.00	1.05	0.05	202.30	11	0.19	1.15	0.59
040.40	3	0.00	1.07	0.28	202.XX	12	0.18	1.15	0.57
040.50	2	0.00	1.02	0.48	221.00	2	0.0000	1.1785	0.2357
040.99	2	0.00	1.22	0.05	221.30	6	- 0.034	0.9524	0.0049
040.XX	9	0.00	1.02	0.14	221.99	2	0.0000	1.2183	0.0887
041.10	18	- 0.02	0.97	0.30	221.XX	10	0.4297	1.6702	0.1052
041.20	3	0.00	0.92	0.52	241.30	17	9.09	37.18	0.29
041.40	3	0.00	1.11	0.09	241.XX	19	7.97	34.47	0.31
041.50	6	0.00	0.93	0.44	251.30	3	0.00	1.12	0.04
041.60	10	- 0.13	1.03	0.29	251.99	2	0.00	1.22	0.10
041.99	2	- 14.14	20.00	2.33	251.XX	5	0.00	1.06	0.05
041.XX	34	- 0.28	1.65	0.40	261.00	2	19.033	26.917	2.142
048.20	3	0.00	1.12	0.02	261.30	15	- 0.012	0.971	0.273
048.XX	4	0.00	1.08	0.03	261.99	3	0.000	1.118	0.008
050.50	3	0.00	1.12	0.05	261.XX	20	0.751	3.524	0.321
050.51	3	0.00	1.10	0.17	289.30	13	0.31	1.47	0.31
050.99	5	0.00	0.95	0.41	289.XX	14	0.30	1.47	0.31
050.XX	15	43.88	165.46	0.36	291.30	8	0.00	0.95	0.39
060.00	5	1.24	2.92	0.56	291.XX	9	0.00	0.94	0.40
060.XX	6	0.87	2.33	0.46	311.99	8	1.29	3.77	0.15
101.30	17	4.46	18.40	0.42	311.XX	8	1.29	3.77	0.15

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
321.00	5	0.081	0.933	1.232					
321.30	19	12.907	56.822	0.325					
321.99	3	- 3.462	6.057	3.608					
321.XX	26	8.596	44.057	0.425					