

- Pass 1 Results for 75 Labs - - Pass 2 Results for 74 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation	920.03	001.10	2	9.91	0.47	0.06	2	9.91	0.47	0.06
Ammoniacal Nitrogen, Other		001.99	5	10.53	0.64	0.07	5	10.53	0.64	0.07
Method Group 001.XX PCT			7	10.35	0.64	0.07	7	10.35	0.64	0.07
Nitrate Nitrogen, Other		002.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	4	10.80	0.17	0.09	4	10.80	0.17	0.09
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	11.00	0.31	0.06	6	11.04	0.32	0.03
Total Nitrogen, Salicylic	955.04D	010.12	4	10.87	0.14	0.05	4	10.87	0.14	0.05
Total Nitrogen, Combustion		010.60	49	10.75	0.28	0.15	45	10.76	0.27	0.11
Total Nitrogen, Other		010.99	5	10.98	0.24	0.05	5	10.98	0.24	0.05
Method Group 010.XX PCT			65	10.81	0.28	0.13	60	10.81	0.28	0.09
Total Phosphate, Grav Quimociac	962.02	020.10	9	51.80	0.48	0.13	8	51.70	0.41	0.08
Total Phosphate, Spectrometric	958.01	020.20	14	51.53	0.69	0.14	14	51.53	0.69	0.14
Total Phosphate, Automated	978.01	020.40	6	51.78	0.70	0.23	6	51.78	0.70	0.23
Total Phosphate, ICP		020.50	6	51.31	1.22	0.75	7	51.32	1.86	0.37
Total Phosphate, Other		020.99	2	51.72	0.30	0.28	2	51.72	0.30	0.28
Method Group 020.XX PCT			37	51.61	0.75	0.26	36	51.61	0.72	0.18
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.50	0.03	0.04	1	0.50	0.03	0.04
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	1.06	0.56	0.02	2	1.06	0.56	0.02
Insoluble Phosphate, Automated	978.01	030.40	2	0.33	0.11	0.07	2	0.33	0.11	0.07
Method Group 030.XX PCT			5	0.65	0.49	0.05	5	0.65	0.49	0.05
InDir Available Phosphate, Grav Quim	960.02	040.10	1	51.84	0.04	0.06	1	51.84	0.04	0.06
InDir Available Phosphate, Spectrometri	960.02	040.20	3	50.92	0.80	0.04	3	50.92	0.80	0.04
InDir Available Phosphate, Automated	960.02	040.40	2	51.22	0.20	0.20	2	51.22	0.20	0.20
InDir Available Phosphate, ICP		040.50	2	49.41	1.07	0.51	2	49.41	1.07	0.51
InDir Available Phosphate, Other		040.99	1	51.90	0.04	0.05	1	51.90	0.04	0.05
Method Group 040.XX PCT			9	50.86	1.08	0.18	9	50.86	1.08	0.18
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	7	51.06	0.84	0.29	6	51.01	0.87	0.17
Dir Available Phosphate, Automated	978.01	041.40	4	50.45	1.19	0.33	4	50.45	1.19	0.33
Dir Available Phosphate, ICP		041.50	11	50.34	1.20	0.46	11	50.34	1.20	0.46
Dir Available Phosphate, EDTA Extract	993.01	041.60	11	51.36	0.47	0.13	10	51.26	0.38	0.09
Dir Available Phosphate, Other		041.99	2	50.42	0.89	0.50	2	50.42	0.89	0.50
Method Group 041.XX PCT			35	50.82	1.01	0.31	34	50.84	1.01	0.29
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	44.24	0.15	0.21	1	44.24	0.15	0.21
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	44.07	0.14	0.20	1	44.07	0.14	0.20
Water Soluble Phosphate, ICP		048.50	1	44.46	0.06	0.09	1	44.46	0.06	0.09
Method Group 048.XX PCT			3	44.25	0.20	0.17	3	44.25	0.20	0.17
Soluble Potash, ICP (Oxalate)		050.50	3	0.28	0.05	0.04	3	0.28	0.05	0.04
Soluble Potash, ICP (Citrate)		050.51	5	0.31	0.08	0.03	5	0.31	0.08	0.03
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	1	0.26	0.01	0.01	1	0.26	0.01	0.01

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Soluble Potash, Flame (Citrate)	983.02(b)	050.61	1	0.30	0.01	0.02	1	0.30	0.01	0.02
Soluble Potash, Other		050.99	3	0.31	0.04	0.05	3	0.31	0.04	0.05
Method Group 050.XX PCT			13	0.30	0.06	0.03	13	0.30	0.06	0.03
Free Water, Vacuum Oven	965.08B	060.00	6	1.40	0.34	0.04	6	1.40	0.34	0.04
Free Water, Other		060.99	1	2.02	0.06	0.08	1	2.02	0.06	0.08
Method Group 060.XX PCT			7	1.49	0.38	0.05	7	1.49	0.38	0.05
Acid Soluble Calcium, AA	945.04	101.00	1	0.44	0.00	0.00	1	0.44	0.00	0.00
Acid Soluble Calcium, ICP		101.30	9	0.45	0.03	0.02	9	0.45	0.03	0.02
Method Group 101.XX PCT			10	0.45	0.03	0.02	10	0.45	0.03	0.02
Acid Soluble Magnesium, AA	984.01	121.00	2	1.32	0.03	0.05	2	1.32	0.03	0.05
Acid Soluble Magnesium, ICP		121.30	11	1.31	0.10	0.02	11	1.31	0.10	0.02
Method Group 121.XX PCT			13	1.31	0.09	0.03	13	1.31	0.09	0.03
Sulfur, Gravimetric	980.02a	144.01	7	1.23	0.07	0.04	7	1.23	0.07	0.04
Sulfur, Gravimetric	980.02b	144.02	1	1.16	0.01	0.01	1	1.16	0.01	0.01
Sulfur, Other		144.99	17	1.18	0.11	0.04	16	1.18	0.11	0.03
Method Group 144.XX PCT			25	1.19	0.10	0.04	24	1.19	0.10	0.03
Arsenic, Atomic Absorption		151.00	1	19.05	0.49	0.70	1	19.05	0.49	0.70
Arsenic, ICP		151.30	7	19.12	2.18	0.60	6	19.31	2.27	0.37
Arsenic, Other		151.99	1	16.00	0.14	0.20	1	16.00	0.14	0.20
Method Group 151.XX PPM			9	18.77	2.16	0.57	8	18.87	2.25	0.39
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.021	0.000	0.000	1	0.021	0.000	0.000
Acid Soluble Boron, Other		165.99	3	0.025	0.017	0.007	3	0.025	0.017	0.007
Method Group 165.XX PCT			4	0.024	0.015	0.005	4	0.024	0.015	0.005
Cadmium, Atomic Absorption		181.00	1	3.45	0.07	0.10	1	3.45	0.07	0.10
Cadmium, ICP		181.30	10	3.38	0.33	0.16	9	3.37	0.30	0.07
Cadmium, Other		181.99	1	3.08	0.02	0.03	1	3.08	0.02	0.03
Method Group 181.XX PPM			12	3.36	0.31	0.14	11	3.35	0.28	0.07
Chromium, Atomic Absorption		191.00	1	133.92	15.34	21.70	1	133.92	15.34	21.70
Chromium, ICP		191.30	10	126.40	12.61	2.98	10	126.40	12.61	2.98
Chromium, Other		191.99	1	99.10	4.01	5.67	1	99.10	4.01	5.67
Method Group 191.XX PPM			12	124.75	14.46	4.77	11	123.91	14.46	3.23
Acid Soluble Cobalt, ICP	965.11	202.30	6	4.08	0.38	0.07	6	4.08	0.38	0.07
Acid Soluble Cobalt, Other		202.99	1	3.79	0.06	0.08	1	3.79	0.06	0.08
Method Group 202.XX PPM			7	4.04	0.37	0.07	7	4.04	0.37	0.07
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	0.0004	0.0001	0.0001	1	0.0004	0.0001	0.0001
Acid Soluble Copper, ICP		221.30	5	0.0003	0.0002	0.0001	4	0.0003	0.0002	0.0000
Method Group 221.XX PCT			6	0.0003	0.0002	0.0001	5	0.0003	0.0002	0.0000
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	2	1.97	0.04	0.05	2	1.97	0.04	0.05
Acid Soluble Iron, ICP		241.30	11	2.03	0.14	0.05	11	2.03	0.14	0.05

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Acid Soluble Iron, Other		241.99	1	2.03	0.01	0.02	1	2.03	0.01	0.02
Method Group 241.XX PCT			14	2.02	0.13	0.05	14	2.02	0.13	0.05
Lead, Atomic Absorption		251.00	1	1.50	0.71	1.00	1	1.50	0.71	1.00
Lead, ICP		251.30	7	4.59	2.32	0.32	7	4.59	2.32	0.32
Lead, Other		251.99	1	2.23	0.40	0.56	1	2.23	0.40	0.56
Method Group 251.XX PPM			9	3.98	2.35	0.42	9	3.98	2.35	0.42
Acid Soluble Manganese, AA	972.02a	261.00	1	0.027	0.000	0.001	1	0.027	0.000	0.001
Acid Soluble Manganese, AA	972.02b	261.11	1	0.027	0.000	0.000	1	0.027	0.000	0.000
Acid Soluble Manganese, ICP	972.02a	261.30	7	0.028	0.001	0.000	6	0.028	0.001	0.000
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.030	0.000	0.000	1	0.030	0.000	0.000
Acid Soluble Manganese, Other		261.99	1	0.028	0.000	0.000	1	0.028	0.000	0.000
Method Group 261.XX PCT			11	0.028	0.001	0.000	10	0.028	0.001	0.000
Mercury, ICP		281.30	2	1.86	2.12	0.11	2	1.86	2.12	0.11
Molybdenum, ICP		289.30	10	14.31	0.84	0.33	10	14.31	0.84	0.33
Molybdenum, Other		289.99	1	14.92	0.14	0.20	1	14.92	0.14	0.20
Method Group 289.XX PPM			11	14.37	0.82	0.31	11	14.37	0.82	0.31
Nickel, ICP		291.30	9	15.83	1.72	0.46	8	15.68	1.74	0.27
Nickel, Other		291.99	1	8.98	0.42	0.59	1	8.98	0.42	0.59
Method Group 291.XX PPM			10	15.14	2.66	0.47	9	14.94	2.71	0.30
Selenium, ICP		301.30	2	0.96	0.94	0.09	2	0.96	0.94	0.09
Selenium, Other		301.99	2	3.41	3.08	0.22	2	3.41	3.08	0.22
Method Group 301.XX PPM			4	2.18	2.48	0.15	4	2.18	2.48	0.15
Sodium, Other		311.99	3	0.19	0.03	0.01	3	0.19	0.03	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	6	0.005	0.001	0.000	6	0.005	0.001	0.000
Acid Soluble Zinc, ICP		321.30	14	0.006	0.002	0.000	12	0.006	0.002	0.000
Acid Soluble Zinc, Other		321.99	2	0.004	0.001	0.000	2	0.004	0.001	0.000
Method Group 321.XX PCT			22	0.005	0.002	0.000	20	0.005	0.002	0.000
Water Soluble Zinc, ICP		325.30	1	0.005	0.000	0.000	1	0.005	0.000	0.000
Water Soluble Zinc, Other		325.99	1	0.005	0.001	0.001	1	0.005	0.001	0.001
Method Group 325.XX PCT			2	0.005	0.000	0.000	2	0.005	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: 009.10 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
Ammoniacal Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Devarda</u>			<u>Combustion</u>			<u>Combustion</u>			<u>029</u>		
444	10.31	.87	090	10.63	-1.06	488	11.00	.90	034	10.33	-1.72	493	10.95	.58
Avg	9.91					409	11.00	.90	450	10.25 X	-2.01	371	10.94	.44
456	9.50	-.86	Meth: 010.11 PCT			102	10.99	.88	483	10.57 R	-2.22	177	10.93	.44
Meth: 001.99 PCT			Total Nitrogen			136	10.98	.83	486	10.08	-2.57	231	10.93	.41
Ammoniacal Nitrogen			<u>Modified Comprehensi</u>			444	10.97	.80	027	10.24 s	-3.14	105	10.91	.36
<u>Other</u>			456	11.51	1.47	029	10.97	.79	Meth: 010.99 PCT			035	10.90	.32
096	10.88	.55	470	11.40	1.11	177	10.93	.64	Total Nitrogen			105	10.90	.31
169	10.88	.54	Avg	11.04		231	10.93	.62	<u>Other</u>			185	10.88	.24
409	10.87	.54	493	10.95	-.32	035	10.90	.52	487	11.31	1.38	325	10.85	.22
393	10.70	.28	105	10.91	-.41	105	10.90	.52	200	11.14	.68	041	10.86	.20
Avg	10.53		309	10.78 R	-.89	041	10.86	.39	Avg	10.98		390	10.82	.16
027	9.34	-1.88	211	10.74	-.93	325	10.85	.38	371	10.94	-.17	233	10.83	.16
Meth: 001.XX PCT			114	10.73	-.98	043	10.84	.32	255	10.84	-.55	360	10.84	.15
Ammoniacal Nitrogen			476	9.89 S	-3.60	360	10.84	.31	460	10.65	-1.35	043	10.84	.15
096	10.88	.82	Meth: 010.12 PCT			233	10.83	.30	Meth: 010.XX PCT			255	10.84	.12
169	10.88	.81	Total Nitrogen			307	10.77	.28	<u>Total Nitrogen</u>			Avg	10.81	
409	10.87	.80	<u>Salicylic</u>			390	10.82	.26	456	11.51	2.52	351	10.81	-.17
393	10.70	.54	254	11.07	1.47	Avg	10.76		470	11.40	2.10	377	10.76	-.19
Avg	10.35		185	10.88	.10	377	10.76	-.04	487	11.31	1.80	481	10.76	-.19
444	10.31	-.11	Avg	10.87		028	10.75	-.22	354	11.15	1.32	416	10.78	-.24
456	9.50	-1.31	416	10.78	-.81	494	10.72	-.22	055	11.15	1.20	211	10.74	-.26
027	9.34	-1.58	481	10.76	-.82	406	10.63	-.53	200	11.14	1.18	307	10.77	-.30
Meth: 002.99 PCT			484	9.09 S	-13.00	292	10.62	-.54	230	11.10	1.10	028	10.75	-.32
Nitrate Nitrogen			Meth: 010.60 PCT			131	10.61	-.57	255	10.82 R	.94	114	10.73	-.32
<u>Other</u>			Total Nitrogen			324	10.60	-.61	254	11.07	.94	494	10.72	-.37
393	0.00	.00	<u>Combustion</u>			451	10.64	-.62	475	11.06	.90	309	10.78	-.45
Meth: 009.10 PCT			354	11.15	1.56	095	10.63	-.70	023	10.88 R	.83	460	10.65	-.62
Ammon & Nitrate N			389	10.52	-.92	389	10.52	-.92	040	11.00	.77	406	10.63	-.69
<u>Devarda</u>			421	10.51	-.96	421	10.51	-.96	096	11.02	.76	292	10.62	-.70
258	11.01	1.23	157	10.50	-.99	157	10.50	-.99	049	11.02	.75	131	10.61	-.73
489	10.89	.56	007	10.65 R	-1.03	007	10.65 R	-1.03	049	11.02	.75	451	10.64	-.75
Avg	10.80		443	10.65 R	-1.03	443	10.65 R	-1.03	409	11.00	.68	324	10.60	-.77
393	10.70	-.74	042	10.50	-1.06	042	10.50	-1.06	488	11.00	.68	095	10.63	-.82
			393	10.41	-1.35	393	10.41	-1.35	102	10.99	.66	389	10.52	-1.06
			402	10.37	-1.54	402	10.37	-1.54	136	10.98	.61	007	10.65 R	-1.08
			275	10.35	-1.68	275	10.35	-1.68	444	10.97	.59	443	10.65 R	-1.08
												421	10.51	-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	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.99 PCT			Meth: 020.XX PCT			Meth: 030.XX PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>		
157	10.50	-1.13	<u>Spectrometric</u>			<u>Other</u>			322	51.37	-.33	096	0.41	-.51
042	10.50	-1.19	Avg	51.53		460	51.94	.87	409	51.32	-.44	409	0.24	-.85
393	10.41	-1.48	169	51.53	-.04	Avg	51.72		157	51.10	-.71	Meth: 040.10 PCT		
402	10.37	-1.65	220	51.44	-.14	487	51.50	-.87	042	50.95	-.94	InDir Available Phos		
275	10.35	-1.78	371	51.40	-.22	Meth: 020.XX PCT			450	50.92 X	-.99	<u>Grav Quim</u>		
034	10.33	-1.83	450	50.92 X	-.91	<u>Total Phosphate</u>			200	50.61	-1.40	090	51.84	-.71
450	10.25 X	-2.11	200	50.61	-1.35	483	57.17 s	8.34	451	50.39	-1.77	Meth: 040.20 PCT		
483	10.57 R	-2.20	027	49.92	-2.34	393	54.43 s	3.94	027	49.92	-2.36	InDir Available Phos		
486	10.08	-2.65	309	37.52 s	-20.37	390	51.70 R	2.10	389	49.65	-2.74	<u>Spectrometri</u>		
027	10.24 s	-3.13	Meth: 020.40 PCT			035	52.90	1.85	307	48.67 s	-4.14	476	51.83	1.15
476	9.89 s	-3.35	<u>Total Phosphate</u>			406	52.64	1.44	484	46.45 s	-7.63	Avg	50.92	
484	9.09 s	-6.21	<u>Automated</u>			211	52.54	1.35	309	37.52 s	-19.68	220	50.86	-.06
Meth: 020.10 PCT			035	52.90	1.66	255	52.34	1.03	Meth: 030.10 PCT			489	50.05	-1.09
<u>Total Phosphate</u>			456	52.31	.75	090	52.34	1.03	<u>Insoluble Phosphate</u>			Meth: 040.40 PCT		
<u>Grav Quimociac</u>			Avg	51.78		481	52.31	.97	<u>Grav Quimociac</u>			InDir Available Phos		
211	52.54 R	2.12	096	51.77	-.10	456	52.31	.97	090	0.50	.71	<u>Automated</u>		
090	52.34	1.54	470	51.46	-.47	324	52.20	.87	Meth: 030.20 PCT			096	51.36	.89
114	52.14	1.08	409	51.32	-.69	402	52.23	.87	<u>Insoluble Phosphate</u>			Avg	51.22	
493	52.02	.76	042	50.95	-1.21	114	52.14	.75	<u>Spectrometric</u>			409	51.08	-.84
Avg	51.70		484	46.45 s	-8.08	493	52.02	.58	489	1.55	.87	Meth: 040.50 PCT		
041	51.68	-.20	Meth: 020.50 PCT			460	51.94	.50	Avg	1.06		InDir Available Phos		
444	51.50	-.52	<u>Total Phosphate</u>			258	51.77	.27	220	0.57	-.87	<u>ICP</u>		
470	51.49	-.53	<u>ICP</u>			096	51.77	.25	Meth: 030.40 PCT			025	50.30	.88
322	51.37	-.81	483	57.17 S	3.35	416	51.74	.22	<u>Insoluble Phosphate</u>			Avg	49.41	
157	51.10	-1.46	393	54.43 S	1.67	041	51.68	.15	<u>Automated</u>			488	48.52	-.85
Meth: 020.20 PCT			390	51.70 R	.83	231	51.70	.13	096	0.41	.88	Meth: 040.99 PCT		
<u>Total Phosphate</u>			255	52.34	.55	292	51.69	.11	Avg	0.33		InDir Available Phos		
<u>Spectrometric</u>			402	52.23	.49	Avg	51.61		409	0.24	-.85	<u>Other</u>		
406	52.64	1.61	421	51.55	.15	489	51.57	-.11	Meth: 030.XX PCT			476	51.90 X	.71
481	52.31	1.13	Avg	51.23		169	51.53	-.12	<u>Insoluble Phosphate</u>			Avg	51.90	
324	52.20	1.02	451	50.39	-.53	470	51.49	-.17	489	1.55	1.84	275	44.69 S	-204.16
258	51.77	.38	389	49.65	-.90	444	51.50	-.18	Avg	0.65		Meth: 040.99 PCT		
416	51.74	.33	307	48.67 S	-1.44	470	51.46	-.21	220	0.57	-.17	InDir Available Phos		
231	51.70	.25	Meth: 020.99 PCT			421	51.55	-.22	090	0.50	-.32	<u>Other</u>		
292	51.69	.23	<u>Total Phosphate</u>			220	51.44	-.24	Meth: 030.20 PCT			Meth: 040.99 PCT		
489	51.57	.12	<u>ICP</u>			487	51.50	-.25	<u>Insoluble Phosphate</u>			InDir Available Phos		
Meth: 020.20 PCT			<u>ICP</u>			371	51.40	-.31	<u>Automated</u>			Meth: 040.99 PCT		
<u>Total Phosphate</u>			483	57.17 S	3.35	Meth: 020.99 PCT			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			393	54.43 S	1.67	<u>Total Phosphate</u>			<u>Other</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			390	51.70 R	.83	<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			255	52.34	.55	<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			402	52.23	.49	<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			421	51.55	.15	<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			Avg	51.23		<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			451	50.39	-.53	<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			389	49.65	-.90	<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			451	50.39	-.53	<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			389	49.65	-.90	<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			307	48.67 S	-1.44	<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			Meth: 020.99 PCT			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>Total Phosphate</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Insoluble Phosphate</u>			Meth: 040.99 PCT		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 040.XX PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 048.10 PCT			Meth: 050.60 PCT		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>		
476	51.90 X	.96	ICP			102	57.10 s	6.19	<u>Grav Quimociac</u>			<u>Flame (Oxalate)</u>		
090	51.84	.91	040	51.60	1.06	393	52.39	1.53	444	44.24	.71	105	0.26	.71
476	51.83	.90	486	51.39	.88	028	52.29	1.46	Meth: 048.20 PCT			Meth: 050.61 PCT		
096	51.36	.47	360	50.91	.58	254	51.91	1.06	<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>		
409	51.08	.22	043	50.88	.45	131	51.73	.88	<u>Spectrometric</u>			<u>Flame (Citrate)</u>		
220	50.86	.01	Avg	50.34		494	51.63	.80	096	44.07	.71	105	0.30	.71
Avg	50.86		377	49.90	-.39	040	51.60	.78	Meth: 048.50 PCT			Meth: 050.99 PCT		
025	50.30	-.59	023	50.16	-.50	351	51.62	.77	<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>		
489	50.05	-.75	055	49.42	-.78	049	51.57	.72	<u>ICP</u>			<u>Other</u>		
488	48.52	-2.18	475	49.31	-.87	177	51.56	.71	393	44.46	.71	325	0.35	1.39
275	44.69 s	-5.74	354	49.39	-.90	494	51.33	.69	Meth: 048.XX PCT			Meth: 050.XX PCT		
Meth: 041.10 PCT			007	48.45	-1.60	043	51.49	.64	<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>		
<u>Dir Available Phosph</u>			325	46.85 S	-3.07	034	51.46	.62	<u>ICP</u>			<u>Other</u>		
<u>Grav Quimociac</u>			Meth: 041.60 PCT			117	51.40	.56	Meth: 048.50 PCT			Meth: 050.99 PCT		
102	57.10 s	6.96	<u>Dir Available Phosph</u>			486	51.39	.56	<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>		
254	51.91	1.03	<u>EDTA Extract</u>			231	51.40	.55	Avg			Avg		
131	51.73	.82	028	52.29 R	2.82	136	51.37	.53	444	44.24	-.54	483	0.42	2.19
494	51.33 R	.68	351	51.62	.96	360	50.91	.41	096	44.07	-1.06	325	0.35	1.26
049	51.57	.64	177	51.56	.78	131	51.24	.39	Meth: 050.50 PCT			096		
177	51.03	.16	043	51.49	.61	105	51.20	.35	<u>Soluble Potash</u>			292		
Avg	51.01		034	51.46	.55	105	51.13	.30	<u>ICP (Oxalate)</u>			105		
185	50.17	-.99	117	51.40	.45	177	51.03	.23	292	0.33	.94	105	0.30	.18
055	49.67	-1.53	231	51.40	.36	043	50.88	.08	354	0.29	.65	105	0.31	.16
Meth: 041.40 PCT			136	51.37	.34	Avg	50.84		Avg	0.28		Avg	0.30	
<u>Dir Available Phosph</u>			Avg	51.26		220	50.66	-.18	488	0.23	-1.10	421	0.29	-.34
<u>Automated</u>			105	51.20	-.19	029	50.50	-.35	Meth: 050.51 PCT			354		
494	51.63	1.01	220	50.66	-1.61	185	50.17	-.69	<u>Soluble Potash</u>			105		
131	51.24	.67	029	50.50	-2.06	095	50.08	-.76	<u>ICP (Citrate)</u>			105		
Avg	50.45		Meth: 041.99 PCT			023	50.16 R	-.88	483	0.42	1.57	389	0.25	-.82
095	50.08	-.32	<u>Dir Available Phosph</u>			377	49.90	-.94	096	0.35	.65	377	0.25	-.82
027	48.85	-1.39	<u>Other</u>			055	49.67	-1.16	Avg			393		
Meth: 041.50 PCT			105	51.13	.81	230	49.70	-1.20	377	0.25	-.73	Meth: 060.00 PCT		
<u>Dir Available Phosph</u>			Avg	50.42		055	49.42	-1.41	389	0.25	-.73	<u>Free Water</u>		
<u>ICP</u>			230	49.70	-.92	354	49.39	-1.52	393	0.26	-.74	<u>Vacuum Oven</u>		
393	52.39	1.71	Meth: 041.99 PCT			475	49.31	-1.52	Meth: 050.51 PCT			409		
Meth: 041.50 PCT			<u>Dir Available Phosph</u>			027	48.85	-2.01	<u>Soluble Potash</u>			007		
<u>ICP</u>			<u>Other</u>			007	48.45	-2.38	<u>ICP (Citrate)</u>			1.68		
393			105			325	46.85 s	-4.11	483			.85		

* 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: 060.00 PCT			Meth: 101.30 PCT			Meth: 121.30 PCT			Meth: 144.01 PCT			Meth: 144.XX PCT		
Free Water			Acid Soluble Calcium			Acid Soluble Magnesi			Sulfur			Sulfur		
<u>Vacuum Oven</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>					
489	1.49	.28	102	0.43	-.54	Avg	1.31		324	1.23	-.07	393	1.39	1.93
456	1.41	.03	354	0.44	-.77	390	1.30	-.31	481	1.21	-.27	043	1.34	1.42
Avg	1.40		494	0.44	-.82	102	1.28	-.33	105	1.21	-.49	049	1.30	1.12
416	1.35	-.16	041	0.43	-.95	041	1.28	-.34	444	1.11	-1.81	390	1.25 R	.91
493	0.74	-1.94	389	0.42	-.96	096	1.27	-.44				483	1.28	.83
						027	1.26	-.58	Meth: 144.02 PCT			095	1.26	.71
						307	1.24	-.80	Sulfur			421	1.26	.63
Meth: 060.99 PCT			Meth: 101.XX PCT			393 1.17 -1.43			<u>Gravimetric</u>			035	1.25	.59
Free Water			<u>Acid Soluble Calcium</u>			354 1.06 S -2.52			292 1.16 .71			102	1.24	.51
<u>Other</u>			393 0.78 s 12.18			Meth: 121.XX PCT			Meth: 144.99 PCT			450	1.24 X	.43
481	2.02	.71	483	0.63 s	7.06	<u>Acid Soluble Magnesi</u>			Sulfur			105	1.21	.35
			096	0.50	1.95	421 2.31 s 10.75			<u>Other</u>			324	1.23	.34
Meth: 060.XX PCT			421 0.49 1.41			483 1.56 2.67			351 1.49 s 3.04			481	1.21	.21
Free Water			Avg 0.45			035 1.37 .62			393 1.39 1.85			409	1.20	.13
481	2.02	1.39	035	0.45	-.09	494 1.37 .59			049 1.30 1.11			Avg	1.19	
409	1.72	.60	307	0.44	-.33	389 1.36 .45			390 1.25 R .89			389	1.19	-.16
007	1.68	.52	105	0.44	-.35	105 1.32 .44			483 1.28 .86			255	1.17	-.33
489	1.49	.03	102	0.43	-.52	043 1.32 .11			421 1.26 .68			292	1.16	-.37
Avg	1.49		354	0.44	-.79	Avg 1.31			035 1.25 .63			096	1.16	-.37
456	1.41	-.21	494	0.44	-.84	390 1.30 -.34			450 1.24 X .50			027	1.19	-.45
416	1.35	-.36	041	0.43	-.96	102 1.28 -.36			027 1.19 .40			444	1.14	-.52
493	0.74	-1.94	389	0.42	-.97	041 1.28 -.38			409 1.20 .21			102	1.14	-.56
						096 1.27 -.48			389 1.19 .14			444	1.11	-.93
Meth: 101.00 PCT			Meth: 121.00 PCT			027 1.26 -.63			Avg 1.18			360	1.05	-1.40
Acid Soluble Calcium			Acid Soluble Magnesi			307 1.24 -.87			096 1.16 -.22			486	1.01	-1.80
<u>AA</u>			<u>AA</u>			393 1.17 -1.56			255 1.17 -.24			Meth: 151.00 PPM		
105	0.44	.00	105	1.32	1.19	354 1.06 s -2.73			444 1.14 -.36			Arsenic		
			Avg	1.32		Meth: 144.01 PCT			102 1.14 -.39			<u>Atomic Absorption</u>		
Meth: 101.30 PCT			Meth: 121.30 PCT			Sulfur			360 1.05 -1.15			136 19.05 .71		
Acid Soluble Calcium			Acid Soluble Magnesi			<u>Gravimetric</u>			486 1.01 -1.51			Meth: 151.30 PPM		
<u>ICP</u>			<u>ICP</u>			041 1.62 s 5.75			354 0.93 -2.19			Arsenic		
393	0.78 s	11.57	421	2.31 s	9.94	043 1.34 1.57			Meth: 144.XX PCT			<u>ICP</u>		
483	0.63 s	6.69	483	1.56	2.48	095 1.26 .57			<u>Sulfur</u>			096 22.65 1.47		
096	0.50	1.82	035	1.37	.58	102 1.24 .38			041 1.62 s 4.30			393 21.85 1.12		
421	0.49	1.31	494	1.37	.55	Avg 1.23			351 1.49 s 3.26			Avg 19.31		
Avg	0.45		389	1.36	.43									
035	0.45	-.12												
307	0.44	-.33												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 151.30 PPM</u>			<u>Meth: 165.XX PCT</u>			<u>Meth: 181.XX PPM</u>			<u>Meth: 191.XX PPM</u>			<u>Meth: 202.XX PPM</u>		
<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Cadmium</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>		
ICP			354	0.042	1.30	136	3.45	.40	481	133.92 R	1.02	393	3.73	-.86
450	18.55 X	-.35	389	0.027	.23	450	3.45 X	.40	220	137.00	.91	220	3.65	-1.05
041	18.50	-.42	Avg	0.024		Avg	3.35		096	133.55	.68			
220	18.00 R	-.73	393	0.021	-.21	220	3.25	-.39	450	125.00 X	.08	<u>Meth: 221.00 PCT</u>		
486	17.28	-.90	421	0.005	-1.31	042	3.08	-.96	Avg	123.91		<u>Acid Soluble Copper</u>		
230	17.05	-1.00	<u>Meth: 181.00 PPM</u>			444	3.04	-1.10	230	120.50	-.26	<u>Atomic Absorption</u>		
			<u>Cadmium</u>			486	3.01	-1.19	035	123.00	-.28	043	0.0004	.71
			<u>Atomic Absorption</u>			230	2.98	-1.31	444	114.00	-.70	<u>Meth: 221.30 PCT</u>		
<u>Meth: 151.99 PPM</u>			136	3.45	-.71	<u>Meth: 191.00 PPM</u>			041	112.50	-.85	<u>Acid Soluble Copper</u>		
<u>Arsenic</u>						<u>Chromium</u>			486	110.55	-.92	<u>ICP</u>		
<u>Other</u>						<u>Atomic Absorption</u>			042	99.10	-1.73	393	0.0006	1.43
220	16.00	.71	<u>Meth: 181.30 PPM</u>			481	133.92	-.71	<u>Meth: 202.30 PPM</u>			450	0.0004 R	1.12
			<u>Cadmium</u>						<u>Acid Soluble Cobalt</u>			220	0.0003	.20
			<u>ICP</u>						<u>ICP</u>			Avg	0.0003	
			041	3.50 R	1.73	<u>Meth: 191.30 PPM</u>			102	5.39 S	3.53	096	0.0001	-.57
			035	3.72	1.24	<u>Chromium</u>			494	4.59	1.33	354	0.0000	-1.05
			393	3.68	1.04	<u>ICP</u>			035	4.54	1.22	<u>Meth: 221.99 PCT</u>		
			096	3.60	.78				Avg	4.08		<u>Acid Soluble Copper</u>		
			102	3.60	.76				041	4.00	-.20	<u>Other</u>		
			450	3.45 X	.32				096	3.96	-.30	042	0.2350 S	.00
			Avg	3.37					393	3.73	-.93	<u>Meth: 221.XX PCT</u>		
			220	3.25	-.43				220	3.65	-1.12	<u>Acid Soluble Copper</u>		
			444	3.04	-1.11				<u>Meth: 202.99 PPM</u>			042	0.2350 s	1082.63
			486	3.01	-1.20				<u>Acid Soluble Cobalt</u>			393	0.0006	1.49
			230	2.98	-1.32				<u>Other</u>			450	0.0004 R	1.21
			<u>Meth: 181.99 PPM</u>									043	0.0004	.43
			<u>Cadmium</u>									220	0.0003	.13
			<u>Other</u>									Avg	0.0003	
			042	3.08	-.71	<u>Meth: 191.99 PPM</u>			<u>Meth: 202.XX PPM</u>			096	0.0001	-.72
						<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			354	0.0000	-1.25
						<u>Other</u>						<u>Meth: 241.00 PCT</u>		
			041	3.50 R	1.84							<u>Acid Soluble Iron</u>		
			035	3.72	1.37	<u>Meth: 191.XX PPM</u>						<u>Atomic Absorption</u>		
			393	3.68	1.16	<u>Chromium</u>						043	1.98	1.21
			096	3.60	.88									
			102	3.60	.87									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.00 PCT Acid Soluble Iron <u>Atomic Absorption</u>			Meth: 241.XX PCT Acid Soluble Iron			Meth: 251.XX PPM Lead			Meth: 261.XX PCT Acid Soluble Manganese			Meth: 289.99 PPM Molybdenum <u>Other</u>		
Avg	1.97		035	2.01	-.61	450	2.30 X	-.72	421	0.030	1.87	255	29.25 S	101.36
105	1.97	-.21	393	1.93	-.72	042	2.23	-.75	041	0.029	1.00	042	14.92	.71
			027	1.89	-1.03	136	1.50	-1.08	102	0.029	.72	Avg	14.92	
			096	1.89	-1.07				307	0.029	.66			
Meth: 241.30 PCT Acid Soluble Iron <u>ICP</u>			Meth: 251.00 PPM Lead			Meth: 261.00 PCT Acid Soluble Manganese <u>AA</u>			Meth: 289.XX PPM Molybdenum					
483	2.29	1.89	354	1.56 s	-3.67	043	0.027	.71	Avg	0.028		035	0.028 R	-.60
041	2.22	1.34	Meth: 251.30 PPM Lead			Meth: 261.11 PCT Acid Soluble Manganese <u>AA</u>			035	0.028	-.60	389	0.027	-.73
102	2.14	.83	220	9.15	1.97	105	0.027	.71	096	0.027	-.73	096	0.027	-.73
389	2.08	.39	<u>ICP</u>			Meth: 261.30 PCT Acid Soluble Manganese <u>ICP</u>			105	0.027	-.84	450	0.027	-1.05
390	2.04	.30	035	5.42	.42	041	0.029	1.21	494	0.027	-1.05	042	14.92	.68
Avg	2.03		486	5.34	.32	102	0.029	.87	043	0.027	-1.06	041	14.50	.63
035	2.01	-.56	Avg	4.59		307	0.029	.82	354	0.022 s	-5.13	102	14.87	.62
494	1.95	-.58	393	4.48	-.05	Avg	0.028					220	14.45	.56
393	1.93	-.70	041	3.00	-.68	035	0.028 R	-.67	Meth: 281.30 PPM Mercury <u>ICP</u>			433	14.59	.33
027	1.89	-.98	102	2.41	-.94	389	0.027	-.79	393	3.70	.87	Avg	14.37	
096	1.89	-1.01	450	2.30 X	-.99	096	0.027	-.79	Avg	1.86		035	14.20	-.42
307	1.88	-1.03	Meth: 251.99 PPM Lead			Meth: 261.31 PCT Acid Soluble Manganese <u>ICP</u>			450	0.03 X	-.87	494	13.75	-.76
354	1.56 S	-3.35	042	2.23	-.71	494	0.027	-1.16	Meth: 289.30 PPM Molybdenum <u>ICP</u>			230	13.50	-1.06
Meth: 241.99 PCT Acid Soluble Iron <u>Other</u>			Meth: 251.XX PPM Lead			Meth: 261.99 PCT Acid Soluble Manganese <u>Other</u>			096	15.45	1.35	486	12.67	-2.08
421	2.03	-.71	204	2.23	-.71	421	0.030	.00	450	15.15 X	1.00	Meth: 291.30 PPM Nickel <u>ICP</u>		
Meth: 241.XX PCT <u>Acid Soluble Iron</u>			Meth: 251.30 PPM Lead			Meth: 261.31 PCT Acid Soluble Manganese <u>ICP</u>			102	14.87	.67	444	27.34 s	6.73
483	2.29	2.17	220	9.15	2.20	041	0.030	.00	450	15.15 X	1.00	102	19.21	2.05
041	2.22	1.55	035	5.42	.65	041	0.030	.00	102	14.87	.67	041	17.00 R	.95
102	2.14	.99	486	5.34	.58	041	0.030	.00	041	14.50	.64	393	16.57	.51
389	2.08	.48	393	4.48	.22	041	0.030	.00	220	14.45	.56	035	16.00	.22
390	2.04	.36	Avg	3.98		041	0.030	.00	433	14.59	.37	450	16.00 X	.18
421	2.03	.12	041	3.00	-.42	041	0.030	.00	Avg	14.31		Avg	15.68	
Avg	2.02		102	2.41	-.67	041	0.030	.00	035	14.20	-.38	096	15.15	-.31
105	1.97	-.43				041	0.030	.00	494	13.75	-.67	230	14.95	-.43
043	1.98	-.50				041	0.030	.00	230	13.50	-.97	220	14.45	-.71
494	1.95	-.58				041	0.030	.00	486	12.67	-1.96	486	13.12	-1.47

* 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: 291.99 PPM Nickel			Meth: 301.XX PPM Selenium			Meth: 321.30 PCT Acid Soluble Zinc			Meth: 321.XX PCT Acid Soluble Zinc					
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>					
042	8.98	.71	041	0.15	-.82	230	0.004	-.66	042	0.003	-1.32			
Meth: 291.XX PPM Nickel			Meth: 311.99 PCT Sodium			444 0.004 -.84			Meth: 325.30 PCT Water Soluble Zinc					
<u>Other</u>			<u>Other</u>			433 0.003 -1.22			<u>ICP</u>					
444	27.34 s	4.59	354	0.22	1.07	Meth: 321.99 PCT Acid Soluble Zinc			393	0.005	.71			
102	19.21	1.59	035	0.20	.20	<u>Other</u>			Meth: 325.99 PCT Water Soluble Zinc					
041	17.00 R	.84	Avg	0.19		484 0.005 .87			<u>Other</u>					
393	16.57	.60	102	0.16	-1.15	Avg 0.004			450 0.005 .71					
035	16.00	.40	Meth: 321.00 PCT Acid Soluble Zinc			042 0.003 -.87								
450	16.00 X	.39	<u>Atomic Absorption</u>			Meth: 321.XX PCT Acid Soluble Zinc			Meth: 325.XX PCT Water Soluble Zinc					
096	15.15	.08	169	0.950 s	1847.43	169 0.950 s 513.55			393 0.005 .65					
230	14.95	.06	460	0.006	1.72	292 0.010 2.63			Avg 0.005					
Avg	14.94		043	0.005	.68	421 0.010 2.63			450 0.005 -1.04					
220	14.45	-.18	481	0.005	.04	354 0.008 s 2.24								
486	13.12	-.67	Avg	0.005		041 0.007 R 1.13								
042	8.98	-2.19	371	0.005	-.57	255 0.007 .77								
Meth: 301.30 PPM Selenium			200	0.005	-.66	494 0.005 R .41								
<u>ICP</u>			105	0.004	-1.15	460 0.006 .30								
393	1.77	.87	Meth: 321.30 PCT Acid Soluble Zinc			035 0.005 .13								
Avg	0.96		<u>ICP</u>			Avg 0.005								
041	0.15	-.87	292	0.010	2.01	043 0.005 -.08								
Meth: 301.99 PPM Selenium			421	0.010	2.01	389 0.005 -.09								
<u>Other</u>			354	0.008 S	1.75	402 0.005 -.09								
255	6.07	.87	041	0.007 R	.79	102 0.005 -.09								
Avg	3.41		255	0.007	.48	481 0.005 -.17								
220	0.75	-.86	Avg	0.006		220 0.005 -.26								
Meth: 301.XX PPM Selenium			035	0.005	-.16	484 0.005 -.26								
255	6.07	1.57	402	0.005	-.26	450 0.005 X -.34								
Avg	2.18		102	0.005	-.26	371 0.005 -.34								
393	1.77	-.17	389	0.005	-.26	200 0.005 -.37								
220	0.75	-.58	494	0.005 R	-.37	105 0.004 -.50								
			220	0.005	-.40	230 0.004 -.57								
			450	0.005 X	-.44	444 0.004 -.78								
						433 0.003 -1.23								

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Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	2	0.00	1.22	0.09	121.00	2	0.00	0.10	0.86
001.99	5	0.00	1.06	0.06	121.30	13	0.57	3.04	0.15
001.XX	7	0.00	1.04	0.06	121.XX	15	0.54	3.05	0.19
009.10	4	0.00	1.03	0.28	144.01	8	0.70	2.17	0.56
009.XX	4	0.00	1.03	0.28	144.99	18	0.19	1.15	0.36
010.11	8	- 0.55	1.54	0.15	144.XX	25	0.34	1.38	0.41
010.12	5	- 2.60	5.88	0.21	151.30	7	- 0.08	0.98	0.19
010.60	50	- 0.07	0.97	0.58	151.XX	8	0.06	0.96	0.22
010.99	5	0.00	1.05	0.12	165.99	3	0.000	1.080	0.237
010.XX	66	- 0.21	1.30	0.48	165.XX	4	0.000	1.044	0.241
020.10	9	0.22	1.17	0.24	181.30	10	0.04	0.97	0.56
020.20	15	- 1.36	5.35	0.18	181.XX	12	0.04	0.97	0.53
020.40	7	- 1.09	3.04	1.00	191.30	10	0.00	1.01	0.17
020.50	9	0.37	1.37	0.49	191.XX	12	0.06	0.99	0.26
020.99	2	0.00	1.03	0.46	202.30	7	0.49	1.61	0.34
020.XX	41	- 0.46	3.73	0.73	202.XX	8	0.46	1.61	0.34
030.20	2	0.00	1.22	0.02	221.30	5	0.0810	0.9523	0.4659
030.40	2	0.00	1.13	0.33	221.XX	7	154.39	408.34	26.099
030.XX	5	0.00	1.06	0.05	241.00	2	0.00	0.25	0.85
040.20	3	0.00	1.12	0.04	241.30	12	- 0.28	1.35	0.24
040.40	2	0.00	0.99	0.51	241.XX	15	- 0.24	1.34	0.26
040.50	2	0.00	1.18	0.24	251.30	7	0.00	1.04	0.10
040.99	2	- 101.9	144.20	6.92	251.XX	9	0.00	1.02	0.12
040.XX	9	- 0.74	2.10	0.16	261.30	8	- 0.761	2.214	0.451
041.10	8	0.92	2.60	0.23	261.XX	12	- 0.447	1.720	0.328
041.40	4	0.00	1.06	0.18	281.30	2	0.00	1.22	0.03
041.50	12	- 0.24	1.27	0.36	281.XX	2	0.00	1.22	0.03
041.60	11	0.25	1.27	0.27	289.30	10	0.00	0.98	0.29
041.99	2	0.00	1.13	0.33	289.99	2	50.68	71.67	0.83
041.XX	31	0.02	1.66	0.31	289.XX	12	1.51	5.32	0.27
048.XX	3	0.00	0.98	0.44	291.30	10	0.75	2.29	0.29
050.50	3	0.00	1.00	0.41	291.XX	11	0.48	1.65	0.18
050.51	5	0.00	1.02	0.26	301.30	2	0.00	1.22	0.05
050.99	3	0.00	0.75	0.68	301.99	2	0.00	1.22	0.04
050.XX	11	0.03	1.00	0.43	301.XX	4	0.00	1.08	0.04
060.00	6	0.00	1.05	0.08	311.99	3	0.00	1.06	0.28
060.XX	7	0.00	1.04	0.08	311.XX	3	0.00	1.06	0.28
101.30	11	1.64	3.91	0.64	321.00	7	263.91	698.26	0.396
101.XX	12	1.58	3.96	0.65	321.30	15	0.106	0.959	0.390

Method Evaluation - Z Values Based on 1 Reports

<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>	<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>
321.99	2	0.000	1.224	0.032					
321.XX	24	21.505	104.80	0.374					