

- Pass 1 Results for 69 Labs - - Pass 2 Results for 68 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, Other		001.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Nitrate Nitrogen, Other		002.99	1	6.73	0.01	0.01	1	6.73	0.01	0.01
Total Nitrogen, Combustion		010.60	7	1.75	0.06	0.03	7	1.75	0.06	0.03
Total Phosphate, Automated	978.01	020.40	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Total Phosphate, ICP		020.50	3	0.23	0.20	0.02	3	0.23	0.20	0.02
Method Group 020.XX PCT			4	0.17	0.20	0.02	4	0.17	0.20	0.02
Dir Available Phosphate, ICP		041.50	2	0.02	0.02	0.01	2	0.02	0.02	0.01
Soluble Potash, STPB Oxalate	958.02	050.00	1	1.62	0.02	0.03	1	1.62	0.02	0.03
Soluble Potash, ICP (Oxalate)		050.50	1	1.46	0.04	0.06	1	1.46	0.04	0.06
Soluble Potash, ICP (Citrate)		050.51	4	1.51	0.05	0.02	4	1.51	0.05	0.02
Soluble Potash, Other		050.99	4	1.45	0.10	0.01	4	1.45	0.10	0.01
Method Group 050.XX PCT			10	1.49	0.09	0.02	9	1.50	0.09	0.01
Free Water, Vacuum Oven	965.08B	060.00	1	1.19	0.00	0.01	1	1.19	0.00	0.01
Acid Soluble Calcium, ICP		101.30	12	1.12	0.07	0.02	12	1.12	0.07	0.02
Acid Soluble Magnesium, ICP		121.30	11	0.69	0.04	0.02	11	0.69	0.04	0.02
Sulfur, Gravimetric	980.02a	144.01	20	11.60	0.31	0.11	19	11.62	0.30	0.10
Sulfur, Gravimetric	980.02b	144.02	2	11.39	0.40	0.07	2	11.39	0.40	0.07
Sulfur, Other		144.99	24	11.64	0.52	0.16	24	11.64	0.52	0.16
Method Group 144.XX PCT			46	11.61	0.43	0.14	44	11.63	0.42	0.12
Arsenic, Atomic Absorption		151.00	1	3.45	0.07	0.10	1	3.45	0.07	0.10
Arsenic, ICP		151.30	5	5.27	5.03	0.95	5	5.27	5.03	0.95
Arsenic, Other		151.99	1	3.18	0.21	0.30	1	3.18	0.21	0.30
Method Group 151.XX PPM			7	4.71	4.28	0.74	6	4.59	4.61	0.42
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.013	0.000	0.000	1	0.013	0.000	0.000
Acid Soluble Boron, Other		165.99	8	0.022	0.026	0.012	7	0.017	0.017	0.002
Method Group 165.XX PCT			9	0.021	0.024	0.011	8	0.017	0.016	0.001
Cadmium, Atomic Absorption		181.00	1	0.50	0.14	0.20	1	0.50	0.14	0.20
Cadmium, ICP		181.30	8	2.06	2.12	0.15	8	2.06	2.12	0.15
Cadmium, Other		181.99	1	1.65	0.17	0.24	1	1.65	0.17	0.24
Method Group 181.XX PPM			10	1.86	1.95	0.17	10	1.86	1.95	0.17
Water Soluble Chlorine, Titrimetric	928.02	190.00	2	0.94	0.74	0.02	2	0.94	0.74	0.02
Water Soluble Chlorine, Other		190.99	1	1.50	0.01	0.01	1	1.50	0.01	0.01
Method Group 190.XX PCT			3	1.12	0.64	0.01	3	1.12	0.64	0.01
Chromium, ICP		191.30	14	219.80	67.75	12.88	13	211.21	60.58	5.94
Chromium, Other		191.99	1	146.84	11.77	16.65	1	146.84	11.77	16.65
Method Group 191.XX PPM			15	214.94	67.98	13.13	14	206.61	60.73	6.71
Acid Soluble Cobalt, AA		202.00	1	84.00	1.41	2.00	1	84.00	1.41	2.00
Acid Soluble Cobalt, ICP	965.11	202.30	11	50.01	25.26	2.26	10	47.85	25.48	1.68
Acid Soluble Cobalt, Other		202.99	1	27.58	2.49	3.52	1	27.58	2.49	3.52

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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 202.XX PPM			13	50.90	25.85	2.34	12	49.17	26.16	1.86
Acid Soluble Copper, Atomic Absorption	975.01	221.00	15	12.393	0.6093	0.1835	14	12.413	0.6165	0.1389
Acid Soluble Copper, ICP .....		221.30	45	12.634	0.8033	0.1986	41	12.571	0.7650	0.1416
Acid Soluble Copper, Other .....		221.99	3	12.751	0.8396	1.0300	3	12.751	0.8396	1.0300
Method Group 221.XX PCT			63	12.582	0.7653	0.2346	59	12.560	0.7590	0.1734
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	13.59	0.10	0.14	1	13.59	0.10	0.14
Acid Soluble Iron, ICP .....		241.30	14	12.72	1.36	0.22	14	12.72	1.36	0.22
Method Group 241.XX PCT			15	12.77	1.33	0.22	15	12.77	1.33	0.22
Lead, Atomic Absorption .....		251.00	1	134.50	3.54	5.00	1	134.50	3.54	5.00
Lead, ICP .....		251.30	10	98.17	47.68	6.88	10	98.17	47.68	6.88
Lead, Other .....		251.99	1	105.29	2.93	4.14	1	105.29	2.93	4.14
Method Group 251.XX PPM			12	101.79	44.55	6.50	12	101.79	44.55	6.50
Acid Soluble Manganese, AA .....	972.02a	261.00	1	0.865	0.002	0.003	1	0.865	0.002	0.003
Acid Soluble Manganese, ICP .....	972.02a	261.30	14	0.825	0.084	0.013	13	0.823	0.087	0.010
Method Group 261.XX PCT			15	0.828	0.082	0.012	14	0.826	0.084	0.009
Mercury, Atomic Absorption .....		281.00	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Mercury, ICP .....		281.30	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Mercury, Other .....		281.99	2	0.07	0.03	0.00	2	0.07	0.03	0.00
Method Group 281.XX PPM			4	0.05	0.04	0.00	3	0.05	0.04	0.00
Molybdenum, ICP .....		289.30	13	28.89	6.36	1.66	12	28.20	5.95	0.98
Molybdenum, Other .....		289.99	1	21.71	0.64	0.91	1	21.71	0.64	0.91
Method Group 289.XX PPM			14	28.38	6.40	1.61	13	27.70	5.97	0.98
Nickel, Atomic Absorption .....		291.00	1	168.50	2.12	3.00	1	168.50	2.12	3.00
Nickel, ICP .....		291.30	12	151.24	27.68	16.67	11	147.58	24.01	12.45
Nickel, Other .....		291.99	1	108.82	1.11	1.57	1	108.82	1.11	1.57
Method Group 291.XX PPM			14	149.45	28.37	14.61	12	146.02	25.13	7.38
Selenium, ICP .....		301.30	5	6.30	7.64	0.55	5	6.30	7.64	0.55
Selenium, Other .....		301.99	1	8.71	1.71	2.42	1	8.71	1.71	2.42
Method Group 301.XX PPM			6	6.70	6.99	0.86	6	6.70	6.99	0.86
Sodium, Other .....		311.99	5	0.34	0.07	0.01	5	0.34	0.07	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	14	6.746	0.443	0.095	13	6.732	0.455	0.073
Acid Soluble Zinc, ICP .....		321.30	42	7.057	0.582	0.141	39	7.018	0.526	0.100
Acid Soluble Zinc, Other .....		321.99	2	7.295	0.717	0.200	2	7.295	0.717	0.200
Method Group 321.XX PCT			58	6.990	0.570	0.131	55	6.959	0.526	0.102
Water Soluble Zinc, Atomic Absorption .		325.00	1	5.983	0.067	0.095	1	5.983	0.067	0.095
Water Soluble Zinc, ICP .....		325.30	1	5.705	0.488	0.690	1	5.705	0.488	0.690
Method Group 325.XX PCT			2	5.844	0.326	0.392	2	5.844	0.326	0.392

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.99 PCT Ammoniacal Nitrogen			Meth: 020.XX PCT Total Phosphate			Meth: 050.XX PCT Soluble Potash			Meth: 121.30 PCT Acid Soluble Magnesi			Meth: 144.01 PCT Sulfur		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>		
393	0.00 X	.00	453	0.04	-.66	009	1.62	1.32	422	0.95 s	5.93	444	11.07	-1.92
			393	0.00 X	-.86	307	1.53	.38	453	0.74	1.20	254	9.80 s	-6.16
Meth: 002.99 PCT Nitrate Nitrogen			Meth: 041.50 PCT Dir Available Phosph			009 1.52 .27			393 0.74 1.07			Meth: 144.02 PCT Sulfur		
<u>Other</u>			<u>ICP</u>			325 1.50 .05			102 0.72 .83			<u>Gravimetric</u>		
393	6.73 X	.71	325	0.04	.88	Avg 1.50			035 0.72 .72			073 11.73 .86		
			Avg 0.02			393 1.50 X -.06			131 0.70 .42			Avg 11.39		
Meth: 010.60 PCT Total Nitrogen			377 0.00 -.85			131 1.48 -.22			009 0.70 .42			292 11.05 -.87		
<u>Combustion</u>			Meth: 050.00 PCT Soluble Potash			377 1.45 -.50			Avg 0.69			Avg 11.39		
043	1.85	1.76	<u>STPB Oxalate</u>			422 1.46 R -.51			027 0.68 -.13			292 11.05 -.87		
377	1.78	.73	009 1.62 .71			232 1.29 -2.27			307 0.69 -.49			Meth: 144.99 PCT Sulfur		
422	1.78	.45	Meth: 050.50 PCT Soluble Potash			Meth: 060.00 PCT Free Water			433 0.63 -1.21			<u>Other</u>		
Avg	1.75		<u>ICP (Oxalate)</u>			<u>Vacuum Oven</u>			232 0.63 -1.30			393 13.55 s 3.67		
325	1.75	-.11	422 1.46 .71			416 1.19 -.71			065 0.61 -1.72			300 12.65 1.95		
453	1.71	-.85	Meth: 101.30 PCT Acid Soluble Calcium			Meth: 144.01 PCT Sulfur			Meth: 144.01 PCT Sulfur			291 12.64 1.93		
307	1.70	-.93	<u>ICP</u>			028 12.18 1.89			028 12.18 1.89			450 12.64 1.92		
009	1.69	-1.03	422 1.65 s 7.03			043 12.08 1.53			043 12.08 1.53			255 12.03 .80		
Meth: 020.40 PCT Total Phosphate			Meth: 050.51 PCT Soluble Potash			405 11.99 1.25			405 11.99 1.25			157 11.97 .64		
<u>Automated</u>			<u>ICP (Citrate)</u>			262 11.96 1.23			262 11.96 1.23			389 11.95 .61		
393	0.00 X	.00	453 1.59 1.42			324 11.80 .61			324 11.80 .61			009 11.80 .50		
			009 1.52 .28			029 11.74 .41			029 11.74 .41			361 11.83 .37		
Meth: 020.50 PCT Total Phosphate			Avg 1.51			102 11.68 .20			102 11.68 .20			137 11.81 .33		
<u>ICP</u>			393 1.50 X -.33			233 11.64 .06			233 11.64 .06			351 11.72 .16		
422	0.47	1.24	377 1.45 -1.14			Avg 11.62			Avg 11.62			136 11.70 .13		
Avg	0.23		Meth: 050.99 PCT Soluble Potash			372 11.61 -.07			372 11.61 -.07			177 11.67 .06		
307	0.17	-.30	307 1.53 .81			040 11.59 -.10			040 11.59 -.10			Avg 11.64		
453	0.04	-.94	325 1.50 .51			105 11.57 -.24			105 11.57 -.24			330 11.60 -.07		
Meth: 020.XX PCT Total Phosphate			131 1.48 .27			057 11.51 -.37			057 11.51 -.37			368 11.52 -.27		
422	0.47	1.53	Avg 1.45			055 11.54 -.38			055 11.54 -.38			027 11.49 -.28		
Avg	0.17		232 1.29 -1.59			397 11.53 -.38			397 11.53 -.38			049 11.47 -.58		
307	0.17	-.04	Meth: 050.99 PCT Other			416 11.40 -.76			416 11.40 -.76			453 11.40 -.60		
			307 1.53 .81			231 11.40 -.81			231 11.40 -.81			422 11.23 -.79		
			325 1.50 .51			114 11.35 -1.06			114 11.35 -1.06			037 11.22 -.81		
			131 1.48 .27			200 11.16 -1.55			200 11.16 -1.55			354 11.10 -1.03		
			Avg 1.45			095 11.19 R -1.63			095 11.19 R -1.63			230 11.10 -1.05		
			232 1.29 -1.59									023 10.96 -1.31		

\* 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: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.99 PPM			Meth: 165.XX PCT			Meth: 181.XX PPM		
<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Cadmium</u>		
Other			368	11.52	-.32	Other			453	0.045	1.77	247	2.80	.48
131	10.97	-1.33	027	11.49	-.33	231	3.18	.71	300	0.040	1.44	Avg	1.86	
377	10.85	-1.59	416	11.40	-.55	Meth: 151.XX PPM			Avg	0.017		255	1.70	-.09
232	9.82 s	-3.49	231	11.40	-.59	<u>Arsenic</u>			393	0.013	-.23	231	1.65	-.13
360	6.77 s	-13.43	049	11.47 R	-.70	368	31.95 s	5.94	422	0.013	-.26	102	1.40	-.24
Meth: 144.XX PCT			453	11.40	-.72	372	13.99	2.04	433	0.011	-.33	393	1.25	-.32
<u>Sulfur</u>			114	11.35	-.76	065	5.46 R	.35	232	0.009	-.45	009	1.10	-.40
393	13.55 s	4.52	422	11.23	-.95	Avg	4.59		009	0.002	-.89	232	1.10	-.41
300	12.65	2.41	037	11.22	-.98	136	3.45	-.25	114	0.000	-1.02	136	0.50	-.70
291	12.64	2.38	200	11.16	-1.11	450	4.00	-.25	Meth: 181.00 PPM			372	0.00	-.96
450	12.64	2.37	095	11.19	-1.16	231	3.18	-.31	<u>Cadmium</u>			Meth: 190.00 PCT		
028	12.18	1.30	354	11.10	-1.25	247	2.90	-.37	<u>Atomic Absorption</u>			<u>Water Soluble Chlori</u>		
043	12.08	1.05	230	11.10	-1.27	393	0.00 X	-.99	136	0.50	.71	<u>Titrimetric</u>		
255	12.03	.99	444	11.07	-1.37	Meth: 165.00 PCT			Meth: 181.30 PPM			102	1.58	.87
405	11.99	.85	292	11.05	-1.38	<u>Acid Soluble Boron</u>			<u>Cadmium</u>			Avg	0.94	
262	11.96	.84	023	10.96	-1.59	<u>Spectrometric</u>			<u>ICP</u>			422	0.30	-.87
157	11.97	.81	131	10.97	-1.61	393	0.013	.71	065	11.93 S	4.65	Meth: 190.99 PCT		
389	11.95	.76	377	10.85 R	-1.93	Meth: 165.99 PCT			368	7.15	2.40	<u>Water Soluble Chlori</u>		
009	11.80	.62	232	9.82 s	-4.26	<u>Acid Soluble Boron</u>			247	2.80	.35	<u>Other</u>		
361	11.83	.47	254	9.80 s	-4.34	<u>Other</u>			Avg	2.06		009	1.50	-.71
137	11.81	.43	360	6.77 s	-16.44	444	0.235 s	12.54	255	1.70	-.17	Meth: 190.XX PCT		
324	11.80	.40	Meth: 151.00 PPM			307	0.054 R	3.26	102	1.40	-.31	<u>Water Soluble Chlori</u>		
029	11.74	.26	<u>Arsenic</u>			453	0.045	1.63	393	1.25	-.38	102	1.58	.71
073	11.73	.23	<u>Atomic Absorption</u>			300	0.040	1.31	009	1.10	-.46	009	1.50	.58
351	11.72	.21	136	3.45	-.71	Avg	0.017		232	1.10	-.46	Avg	1.12	
136	11.70	.17	Meth: 151.30 PPM			422	0.013	-.27	372	0.00	-.97	422	0.30	-1.29
102	11.68	.12	<u>Arsenic</u>			433	0.011	-.34	Meth: 181.99 PPM			Meth: 191.30 PPM		
177	11.67	.09	<u>ICP</u>			232	0.009	-.45	<u>Cadmium</u>			<u>Chromium</u>		
233	11.64	.02	368	31.95 S	5.31	009	0.002	-.87	<u>Other</u>			<u>ICP</u>		
Avg	11.63		372	13.99	1.73	114	0.000	-.99	231	1.65	.71	368	331.50 R	2.16
372	11.61	-.07	065	5.46 X	.27	Meth: 165.XX PCT			Meth: 181.XX PPM			035	332.50	2.00
330	11.60	-.07	Avg	5.27		<u>Acid Soluble Boron</u>			<u>Cadmium</u>			009	267.00	.92
040	11.59	-.09	450	4.00	-.32	444	0.235 s	13.45	065	11.93 s	5.17	102	246.05	.58
105	11.57	-.19	247	2.90	-.47	307	0.054 R	3.51	368	7.15	2.71	247	245.00	.56
057	11.51	-.28	393	0.00 X	-1.05	Meth: 165.99 PCT			Meth: 181.99 PPM			Meth: 191.30 PPM		
055	11.54	-.28	<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Cadmium</u>			<u>Chromium</u>		
397	11.53	-.29	<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>Chromium</u>		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 191.30 PPM Chromium			Meth: 202.00 PPM Acid Soluble Cobalt			Meth: 202.XX PPM Acid Soluble Cobalt			Meth: 221.30 PCT Acid Soluble Copper			Meth: 221.99 PCT Acid Soluble Copper		
<u>ICP</u>			<u>AA</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>		
450	243.00	.53	136	84.00	.71	372	17.18	-1.22	231	12.600	.39	137	12.940	1.14
393	233.00	.36				232	0.00	-1.88	442	12.850	.37	114	13.215	.73
037	230.06	.32	Meth: 202.30 PPM Acid Soluble Cobalt			Meth: 221.00 PCT Acid Soluble Copper			389	12.850	.37	Avg	12.751	
Avg	211.21		<u>ICP</u>			<u>Atomic Absorption</u>			157	12.830	.36	042	12.100	-.81
065	209.90	-.06	368	73.00	.99	022	13.595	1.93	420	12.805	.30			
232	192.50	-.32	450	72.10	.95	177	13.454	1.72	023	12.794	.30	Meth: 221.XX PCT Acid Soluble Copper		
255	155.36	-.92	057	71.58 R	.94	055	12.870	.77	368	12.776	.27	102	14.414	2.48
230	149.00	-1.03	035	71.25	.92	371	12.840	.71	037	12.750	.24	117	14.290	2.32
372	129.55	-1.35	009	68.50	.81	028	12.615	.34	095	12.738	.22	090	14.135	2.08
027	112.78	-1.62	037	66.14	.73	136	12.530	.19	360	12.655	.16	035	14.050	1.96
Meth: 191.99 PPM Chromium			Avg	47.85		029	12.490	.17	324	12.600	.04	009	13.995	1.90
<u>Other</u>			247	40.50	-.29	Avg	12.413		291	12.530	-.06	361	13.815	1.65
231	146.84	.71	393	36.78	-.43	043	12.320	-.15	450	12.465	-.14	022	13.595	1.38
Meth: 191.XX PPM Chromium			065	33.05	-.58	351	12.009	-.66	247	12.470	-.15	137	12.940 R	1.34
368	331.50 R	2.22	372	17.18	-1.20	254	11.990	-.69	057	12.465	-.19	300	13.375 R	1.28
035	332.50	2.07	232	0.00	-1.88	397	11.920	-.80	453	12.550	-.20	177	13.454	1.21
009	267.00	.99	Meth: 202.99 PPM Acid Soluble Cobalt			428	12.102 R	-.83	027	12.298	-.36	114	13.215 R	1.01
102	246.05	.65	<u>Other</u>			262	11.870	-.89	402	12.295	-.38	330	13.150	.90
247	245.00	.64	231	27.58	.71	234	11.710	-1.15	432	12.290	-.38	377	13.200	.85
450	243.00	.61	Meth: 202.XX PPM Acid Soluble Cobalt			200	11.580	-1.35	073	12.260	-.42	433	13.060	.66
393	233.00	.43	136	84.00	1.33	Meth: 221.30 PCT Acid Soluble Copper			422	12.260	-.43	131	13.010	.62
037	230.06	.39	368	73.00	.91	<u>ICP</u>			426	12.250	-.50	307	12.995	.57
065	209.90	.08	450	72.10	.88	102	14.414 R	2.45	354	12.182	-.52	055	12.870	.45
Avg	206.61		057	71.58 R	.87	117	14.290	2.28	230	12.150 R	-.72	231	12.600	.40
232	192.50	-.24	035	71.25	.84	090	14.135	2.05	405	12.000	-.75	442	12.850	.39
255	155.36	-.84	009	68.50	.74	035	14.050	1.93	444	11.905	-.87	389	12.850	.39
230	149.00	-.95	037	66.14	.66	009	13.995	1.87	233	11.890	-.89	371	12.840	.39
231	146.84	-.99	Avg	49.17		361	13.815	1.63	041	11.805	-1.00	157	12.830	.38
372	129.55	-1.27	247	40.50	-.33	300	13.375 R	1.25	292	11.715	-1.12	420	12.805	.32
027	112.78	-1.55	393	36.78	-.47	330	13.150 R	.88	255	11.655	-1.20	023	12.794	.32
			065	33.05	-.62	377	13.200	.83	232	11.375	-1.56	368	12.776	.28
			231	27.58	-.83	433	13.060	.64	393	11.291	-1.67	037	12.750	.25
						131	13.010	.61	372	10.700	-2.45	095	12.738	.24
						307	12.995	.55	065	6.9715 s	-7.32	360	12.655	.18
												028	12.615	.10
												324	12.600	.05

\* 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: 221.XX PCT			Meth: 241.00 PCT			Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.XX PCT		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>		
Avg	12.560		Atomic Absorption			453	11.00	-1.34	368	109.00	.18	131	0.909	1.00
136	12.530	-.04	022	13.59	.71	393	9.45	-2.51	230	108.00	.15	009	0.906	.96
291	12.530	-.05	Meth: 241.30 PCT			Meth: 251.00 PPM			Avg			389	0.900	.88
450	12.465	-.13	<u>Acid Soluble Iron</u>			<u>Lead</u>			232			027	0.894	.81
029	12.490	-.13	ICP			Atomic Absorption			233			102	0.880	.64
247	12.470	-.14	009	14.01	.95	136	134.50	.71	037			453	0.860 R	.54
057	12.465	-.18	131	13.99	.95	Meth: 251.30 PPM			065			022	0.865	.46
453	12.550	-.20	057	13.98	.94	<u>Lead</u>			393			247	0.853	.32
043	12.320	-.32	102	13.75	.78	ICP			Meth: 261.00 PCT			057	0.844	.23
027	12.298	-.35	027	13.70	.73	372	301.75 S	4.27	Avg			433	0.831	.06
402	12.295	-.36	307	13.52	.60	255	297.96 S	4.21	Acid Soluble Manganese			Avg	0.826	
432	12.290	-.36	433	13.36	.48	102	175.42	1.62	AA			422	0.793	-.39
073	12.260	-.41	389	13.00	.21	009	162.50	1.35	022			232	0.785	-.48
422	12.260	-.42	422	12.91	.14	450	122.50	.54	Meth: 261.30 PCT			444	0.775	-.63
426	12.250	-.49	Avg	12.72		368	109.00	.24	Acid Soluble Manganese			393	0.727 X	-1.17
354	12.182	-.51	232	12.10	-.46	230	108.00	.22	ICP			065	0.600	-2.69
042	12.100	-.66	444	11.83	-.66	Avg			131			035	0.097 s	-8.66
230	12.150	-.71	065	11.45	-.97	232	85.15	-.27	009			Meth: 281.00 PPM		
351	12.009	-.73	453	11.00	-1.27	233	81.28	-.37	389			Mercury		
405	12.000	-.74	393	9.45	-2.41	037	78.65	-.41	027			<u>Atomic Absorption</u>		
254	11.990	-.75	Meth: 241.XX PCT			065	40.70 X	-1.22	102			230	0.04	.71
428	12.102 R	-.80	<u>Acid Soluble Iron</u>			393	18.47	-1.67	453			Meth: 281.30 PPM		
397	11.920	-.84	009	14.01	.93	Meth: 251.99 PPM			247			Mercury		
444	11.905	-.86	131	13.99	.93	<u>Lead</u>			057			ICP		
233	11.890	-.88	057	13.98	.92	Other			433			372	0.00	.00
262	11.870	-.91	102	13.75	.76	Avg			Avg			393	1.80 S	.00
041	11.805	-1.00	027	13.70	.70	231			422			Avg		
292	11.715	-1.11	022	13.59	.62	Meth: 251.XX PPM			232			0.00		
234	11.710	-1.13	307	13.52	.56	<u>Lead</u>			444			Meth: 281.99 PPM		
255	11.655	-1.19	433	13.36	.44	372			393			Mercury		
200	11.580	-1.29	389	13.00	.17	255			065			Other		
232	11.375	-1.56	422	12.91	.10	102			035			Avg		
393	11.291	-1.67	Avg	12.77		009			065			009		
372	10.700	-2.45	232	12.10	-.51	136			035			Avg		
065	6.9715 s	-7.36	444	11.83	-.72	450			035			009		
			065	11.45	-1.03	122.50			035			009		
						.50			035			009		

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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: 281.XX PPM</u>			<u>Meth: 289.XX PPM</u>			<u>Meth: 291.XX PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.30 PCT</u>		
<u>Mercury</u>			<u>Molybdenum</u>			<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>		
393	1.80 s	39.30	035	31.85	.72	368	191.50 R	2.20	372	0.00	-.96	ICP		
405	0.10	1.19	433	31.37	.61	450	174.50	1.16	393	0.00 X	-.96	035	8.080	2.02
Avg	0.05		102	28.73	.20	232	148.50 R	1.06				090	7.955	1.82
230	0.04 R	-.06	009	28.35	.18	136	168.50	.90	<u>Meth: 311.99 PCT</u>			255	7.785	1.46
009	0.04	-.16	Avg	27.70		247	167.50	.86	<u>Sodium</u>			131	7.740	1.37
372	0.00	-1.03	232	26.55	-.20	102	162.50	.66	<u>Other</u>			377	7.700	1.30
			307	26.58	-.21	035	160.00	.58	422	0.47	1.79	354	7.672	1.25
			393	25.29	-.40	009	160.00	.56	102	0.35	.15	420	7.395	.75
			037	22.61	-.86	037	149.39	.16	Avg	0.34		292	7.410	.75
			231	21.71	-1.01	Avg	146.02		232	0.30	-.51	009	7.370	.73
			372	13.61	-2.36	065	135.50	-.43	009	0.29	-.67	037	7.385	.70
						393	127.90	-.72	035	0.28	-.76	247	7.315	.57
						230	141.00	-.86	<u>Meth: 321.00 PCT</u>			368	7.255	.45
						231	108.82	-1.48	<u>Acid Soluble Zinc</u>			300	7.185	.33
						372	96.64	-1.96	<u>Atomic Absorption</u>			442	7.180	.31
									022	7.585	1.88	360	7.140	.30
									371	7.540	1.78	233	7.104	.17
									055	7.000	.59	027	7.100	.16
									028	6.925 R	.59	057	7.034	.12
									351	6.853	.29	102	7.030	.10
									177	6.808	.17	157	7.040	.09
									029	6.790	.15	Avg	7.018	
									136	6.770	.09	324	6.955	-.13
									Avg	6.732		291	6.950	-.14
									200	6.620	-.33	095	6.918	-.21
									397	6.560	-.38	307	6.985	-.28
									262	6.435	-.66	230	6.910	-.29
									234	6.300	-.98	426	6.880	-.29
									043	6.260	-1.04	450	6.855	-.32
									254	6.000	-1.61	402	6.850	-.32
												432	6.810	-.50
												023	6.688	-.63
												361	6.670	-.66
												405	6.665	-.67
												444	6.595	-.82
												232	6.557	-.88
												422	6.475	-1.03
												389	6.450	-1.08

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 321.30 PCT			Meth: 321.XX PCT			Meth: 321.XX PCT								
<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>								
ICP			360	7.140	.39	254	6.000	-1.82						
231	6.350 R	-1.35	307	6.985	.28	372	5.500	-2.77						
393	6.068	-1.81	233	7.104	.28	433	4.895 s	-3.92						
453	6.040	-1.86	027	7.100	.27	041	4.715 s	-4.27						
372	5.500	-2.88	057	7.034	.19	065	1.722 s	-9.96						
433	4.895 S	-4.03	157	7.040	.17	Meth: 325.00 PCT								
041	4.715 s	-4.38	102	7.030	.16	Water Soluble Zinc								
065	1.722 s	-10.06	055	7.000	.08	<u>Atomic Absorption</u>								
			Avg	6.959		428	5.983	.71						
Meth: 321.99 PCT			324	6.955	-.05	Meth: 325.30 PCT								
<u>Acid Soluble Zinc</u>			291	6.950	-.06	Water Soluble Zinc								
<u>Other</u>			095	6.918	-.12	<u>ICP</u>								
042	7.900	.89	426	6.880	-.20	432	5.705	.71						
Avg	7.295		402	6.850	-.21									
137	6.690	-.84	450	6.855	-.21	Meth: 325.XX PCT								
			351	6.853	-.22	<u>Water Soluble Zinc</u>								
Meth: 321.XX PCT			230	6.910	-.23	428	5.983	.45						
<u>Acid Soluble Zinc</u>			177	6.808	-.29	Avg	5.844							
117	9.150 s	4.17	029	6.790	-.33	432	5.705	-1.14						
114	8.200 R	2.48	028	6.925	-.36									
330	8.150 R	2.36	136	6.770	-.36									
035	8.080	2.13	432	6.810	-.42									
090	7.955	1.93	137	6.690	-.51									
042	7.900	1.83	023	6.688	-.52									
255	7.785	1.57	361	6.670	-.55									
131	7.740	1.49	405	6.665	-.56									
377	7.700	1.41	200	6.620	-.67									
354	7.672	1.36	444	6.595	-.71									
022	7.585	1.19	397	6.560	-.76									
371	7.540	1.11	232	6.557	-.76									
420	7.395	.86	422	6.475	-.92									
292	7.410	.86	389	6.450	-.97									
009	7.370	.84	262	6.435	-1.00									
037	7.385	.81	231	6.350 R	-1.25									
247	7.315	.68	234	6.300	-1.27									
368	7.255	.56	043	6.260	-1.33									
300	7.185	.44	393	6.068	-1.69									
442	7.180	.42	453	6.040	-1.75									

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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
010.60	7	0.00	0.98	0.31	281.30	2	0.00	0.00	0.00
010.XX	7	0.00	0.98	0.31	281.99	2	0.00	1.22	0.00
020.50	3	0.00	1.11	0.07	281.XX	5	7.85	17.60	0.10
020.XX	4	0.00	1.08	0.06	289.30	14	0.49	1.73	0.74
041.50	2	0.00	1.20	0.17	289.XX	15	0.47	1.71	0.71
041.XX	2	0.00	1.20	0.17	291.30	12	0.15	1.02	0.57
050.51	4	0.00	1.06	0.17	291.XX	14	0.14	1.03	0.50
050.99	4	0.00	1.08	0.04	301.30	5	0.00	1.06	0.06
050.XX	9	- 0.13	0.95	0.23	301.XX	6	0.00	1.04	0.09
101.30	13	0.54	2.17	0.16	311.99	5	0.00	1.06	0.05
101.XX	13	0.54	2.17	0.16	311.XX	5	0.00	1.06	0.05
121.30	12	0.49	1.96	0.22	321.00	14	0.030	0.982	0.148
121.XX	12	0.49	1.96	0.22	321.30	46	- 0.245	2.105	0.210
144.01	21	- 0.36	1.65	0.31	321.99	2	0.000	1.193	0.197
144.02	2	0.00	1.22	0.10	321.XX	62	- 0.170	1.872	0.197
144.99	27	- 0.34	2.26	1.86					
144.XX	50	- 0.35	2.15	1.68					
151.30	6	0.88	2.36	0.15					
151.XX	8	0.77	2.27	0.14					
165.99	9	1.626	4.245	0.843					
165.XX	10	1.572	4.328	0.855					
181.30	9	0.52	1.82	0.08					
181.XX	11	0.47	1.84	0.08					
190.00	2	0.00	1.22	0.02					
190.XX	3	0.00	1.12	0.02					
191.30	14	0.14	1.11	0.23					
191.XX	15	0.14	1.11	0.23					
202.30	11	0.08	1.01	0.07					
202.XX	13	0.07	1.01	0.06					
221.00	15	- 0.033	0.9790	0.2235					
221.30	46	- 0.079	1.4971	0.1983					
221.99	3	0.0000	0.6918	0.7171					
221.XX	64	- 0.086	1.3399	0.2568					
241.30	14	0.00	1.01	0.11					
241.XX	15	0.00	1.01	0.11					
251.30	12	0.70	1.89	0.15					
251.XX	14	0.64	1.87	0.15					
261.30	15	- 0.529	2.367	0.118					
261.XX	16	- 0.516	2.371	0.118					