

- 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	2	14.37	0.09	0.02	2	14.37	0.09	0.02
Ammoniacal Nitrogen, Other		001.99	7	14.40	0.10	0.06	6	14.39	0.09	0.03
Method Group 001.XX PCT			9	14.39	0.10	0.05	8	14.38	0.09	0.03
Nitrate Nitrogen, Other		002.99	3	0.71	0.06	0.01	3	0.71	0.06	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	3	15.05	0.19	0.07	3	15.05	0.19	0.07
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	14.89	0.21	0.04	6	14.83	0.16	0.02
Total Nitrogen, Salicylic	955.04D	010.12	5	15.16	0.28	0.19	4	15.21	0.23	0.05
Total Nitrogen, Combustion		010.60	44	15.12	0.13	0.08	42	15.11	0.12	0.07
Total Nitrogen, Other		010.99	5	15.13	0.17	0.05	5	15.13	0.17	0.05
Method Group 010.XX PCT			64	15.10	0.19	0.09	61	15.09	0.18	0.07
Total Phosphate, Grav Quimociac	962.02	020.10	4	4.93	0.03	0.02	4	4.93	0.03	0.02
Total Phosphate, Spectrometric	958.01	020.20	15	4.95	0.13	0.08	14	4.97	0.11	0.05
Total Phosphate, Automated	978.01	020.40	6	4.99	0.08	0.02	5	4.96	0.04	0.01
Total Phosphate, ICP		020.50	7	4.89	0.22	0.10	8	4.82	0.29	0.08
Total Phosphate, Other		020.99	4	5.00	0.22	0.06	4	5.00	0.22	0.06
Method Group 020.XX PCT			38	4.97	0.18	0.06	36	4.98	0.17	0.05
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.07	0.00	0.00	1	0.07	0.00	0.00
Insoluble Phosphate, ICP		030.50	2	0.02	0.03	0.02	2	0.02	0.03	0.02
Insoluble Phosphate, Other		030.99	1	0.02	0.01	0.01	1	0.02	0.01	0.01
Method Group 030.XX PCT			6	0.03	0.03	0.01	5	0.02	0.03	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	2	4.93	0.01	0.01	2	4.93	0.01	0.01
InDir Available Phosphate, Automated	960.02	040.40	1	4.92	0.01	0.01	1	4.92	0.01	0.01
InDir Available Phosphate, ICP		040.50	1	4.92	0.01	0.02	1	4.92	0.01	0.02
InDir Available Phosphate, Other		040.99	2	4.82	0.13	0.03	2	4.82	0.13	0.03
Method Group 040.XX PCT			6	4.89	0.08	0.02	6	4.89	0.08	0.02
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	12	4.92	0.08	0.08	12	4.92	0.08	0.08
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	5.11	0.04	0.06	1	5.11	0.04	0.06
Dir Available Phosphate, Automated	978.01	041.40	4	4.96	0.10	0.11	4	4.96	0.10	0.11
Dir Available Phosphate, ICP		041.50	10	4.87	0.12	0.10	10	4.87	0.12	0.10
Dir Available Phosphate, EDTA Extract	993.01	041.60	8	5.01	0.14	0.10	8	5.01	0.14	0.10
Dir Available Phosphate, Other		041.99	1	5.03	0.08	0.12	1	5.03	0.08	0.12
Method Group 041.XX PCT			37	4.94	0.13	0.10	37	4.94	0.13	0.10
Water Soluble Phosphate, Spectrometric	970.01	048.20	4	4.04	1.00	0.05	4	4.04	1.00	0.05
Water Soluble Phosphate, ICP		048.50	1	4.38	0.04	0.05	1	4.38	0.04	0.05
Method Group 048.XX PCT			5	4.11	0.89	0.05	5	4.11	0.89	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	11	10.15	0.13	0.05	10	10.12	0.10	0.03
Soluble Potash, AA (Oxalate)		050.30	5	10.21	0.21	0.12	5	10.21	0.21	0.12

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Soluble Potash, AA (Citrate) .....		050.31	2	10.03	0.09	0.07	2	10.03	0.09	0.07
Soluble Potash, ICP (Oxalate) .....		050.50	8	10.19	0.27	0.07	8	10.19	0.27	0.07
Soluble Potash, ICP (Citrate) .....		050.51	7	10.30	0.21	0.09	7	10.30	0.21	0.09
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	4	10.22	0.10	0.06	4	10.22	0.10	0.06
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	9	10.20	0.13	0.07	9	10.20	0.13	0.07
Soluble Potash, Other .....		050.99	17	10.09	0.31	0.09	17	10.09	0.31	0.09
Method Group 050.XX PCT			64	10.16	0.23	0.08	61	10.19	0.20	0.08
Free Water, Vacuum Oven .....	965.08B	060.00	7	0.64	0.38	0.05	6	0.65	0.41	0.02
Acid Soluble Calcium, ICP .....		101.30	16	0.87	0.06	0.04	15	0.86	0.05	0.02
Method Group 101.XX PCT			16	0.87	0.06	0.04	15	0.86	0.05	0.02
Acid Soluble Magnesium, AA .....	984.01	121.00	9	1.13	0.06	0.02	8	1.13	0.06	0.02
Acid Soluble Magnesium, ICP .....		121.30	32	1.10	0.05	0.03	31	1.10	0.05	0.02
Acid Soluble Magnesium, Other .....		121.99	2	1.15	0.06	0.00	2	1.15	0.06	0.00
Method Group 121.XX PCT			43	1.11	0.05	0.02	41	1.11	0.05	0.02
Water Soluble Magnesium, AA .....		131.00	1	0.85	0.01	0.02	1	0.85	0.01	0.02
Water Soluble Magnesium, ICP .....		131.30	2	1.05	0.02	0.03	2	1.05	0.02	0.03
Water Soluble Magnesium, Other .....		131.99	1	2.44	0.05	0.07	1	2.44	0.05	0.07
Method Group 131.XX PCT			4	1.34	0.68	0.04	4	1.34	0.68	0.04
Sulfur, Gravimetric .....	980.02a	144.01	12	17.32	0.54	0.31	12	17.32	0.54	0.31
Sulfur, Gravimetric .....	980.02b	144.02	1	17.66	0.08	0.11	1	17.66	0.08	0.11
Sulfur, Spectrometric .....		144.70	1	16.53	0.04	0.06	1	16.53	0.04	0.06
Sulfur, Other .....		144.99	26	16.90	0.90	0.26	25	16.78	1.04	0.19
Method Group 144.XX PCT			40	17.03	0.81	0.26	36	17.05	0.83	0.18
Arsenic, Atomic Absorption .....		151.00	1	4.50	0.28	0.40	1	4.50	0.28	0.40
Arsenic, ICP .....		151.30	7	4.01	1.05	0.47	7	4.01	1.05	0.47
Arsenic, Other .....		151.99	2	4.20	0.44	0.27	2	4.20	0.44	0.27
Method Group 151.XX PPM			10	4.10	0.90	0.42	10	4.10	0.90	0.42
Acid Soluble Boron, Spectrometric .....	982.01	165.00	5	0.145	0.005	0.003	5	0.145	0.005	0.003
Acid Soluble Boron, Other .....		165.99	18	0.150	0.028	0.005	16	0.145	0.019	0.004
Method Group 165.XX PCT			23	0.149	0.025	0.005	21	0.145	0.017	0.004
Water Soluble Boron, AA .....	52.950	171.00	1	0.139	0.001	0.001	1	0.139	0.001	0.001
Water Soluble Boron, Other .....		171.99	2	2.245	2.431	0.050	2	2.245	2.431	0.050
Method Group 171.XX PCT			3	1.543	2.175	0.034	3	1.543	2.175	0.034
Cadmium, Atomic Absorption .....		181.00	2	4.19	0.17	0.11	2	4.19	0.17	0.11
Cadmium, ICP .....		181.30	10	4.13	0.35	0.26	10	4.13	0.35	0.26
Cadmium, Other .....		181.99	2	3.90	0.59	0.23	2	3.90	0.59	0.23
Method Group 181.XX PPM			14	4.11	0.37	0.23	14	4.11	0.37	0.23
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	2	6.40	0.28	0.12	2	6.40	0.28	0.12
Chromium, ICP .....		191.30	13	43.94	3.32	1.48	12	43.81	3.35	1.20

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Method Group 191.XX PPM			13	43.94	3.32	1.48	12	43.81	3.35	1.20
Acid Soluble Cobalt, AA .....		202.00	1	5.00	0.00	0.00	1	5.00	0.00	0.00
Acid Soluble Cobalt, ICP .....	965.11	202.30	11	3.53	1.57	0.38	11	3.53	1.57	0.38
Acid Soluble Cobalt, Other .....		202.99	1	0.78	0.32	0.45	1	0.78	0.32	0.45
Method Group 202.XX PPM			13	3.43	1.69	0.36	13	3.43	1.69	0.36
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0024	0.0004	0.0006	2	0.0024	0.0004	0.0006
Acid Soluble Copper, ICP .....		221.30	18	0.0025	0.0003	0.0003	16	0.0025	0.0002	0.0002
Acid Soluble Copper, Other .....		221.99	2	0.0024	0.0006	0.0007	2	0.0024	0.0006	0.0007
Method Group 221.XX PCT			23	0.0025	0.0004	0.0003	21	0.0025	0.0003	0.0003
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	6	0.72	0.03	0.04	6	0.72	0.03	0.04
Acid Soluble Iron, ICP .....		241.30	34	0.71	0.06	0.03	32	0.72	0.05	0.03
Acid Soluble Iron, Other .....		241.99	2	0.59	0.09	0.02	2	0.59	0.09	0.02
Method Group 241.XX PCT			44	0.70	0.08	0.03	42	0.70	0.07	0.03
Lead, Atomic Absorption.....		251.00	2	5.32	3.69	0.50	2	5.32	3.69	0.50
Lead, ICP .....		251.30	7	2.49	1.36	0.17	7	2.49	1.36	0.17
Lead, Other .....		251.99	1	2.08	0.15	0.21	1	2.08	0.15	0.21
Method Group 251.XX PPM			10	3.01	2.20	0.24	9	2.40	1.20	0.15
Acid Soluble Manganese, AA .....	972.02a	261.00	1	0.011	0.001	0.001	1	0.011	0.001	0.001
Acid Soluble Manganese, ICP .....	972.02a	261.30	11	0.010	0.001	0.000	11	0.010	0.001	0.000
Acid Soluble Manganese, Other .....		261.99	3	0.009	0.001	0.001	3	0.009	0.001	0.001
Method Group 261.XX PCT			15	0.010	0.001	0.001	15	0.010	0.001	0.001
Mercury, Atomic Absorption .....		281.00	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Mercury, ICP .....		281.30	1	1.42	0.15	0.21	1	1.42	0.15	0.21
Method Group 281.XX PPM			2	0.71	0.82	0.11	2	0.71	0.82	0.11
Molybdenum, ICP .....		289.30	12	3.47	0.99	0.50	11	3.42	0.98	0.37
Molybdenum, Other .....		289.99	1	2.00	0.72	1.02	1	2.00	0.72	1.02
Method Group 289.XX PPM			13	3.36	1.04	0.54	12	3.30	1.03	0.42
Nickel, ICP .....		291.30	15	14.68	1.59	0.69	15	14.68	1.59	0.69
Method Group 291.XX PPM			15	14.68	1.59	0.69	15	14.68	1.59	0.69
Selenium, ICP .....		301.30	2	0.11	0.12	0.01	2	0.11	0.12	0.01
Selenium, Other .....		301.99	1	0.06	0.01	0.02	1	0.06	0.01	0.02
Method Group 301.XX PPM			3	0.09	0.10	0.01	3	0.09	0.10	0.01
Sodium, Flame Photometric .....	974.01	311.30	1	0.30	0.01	0.02	1	0.30	0.01	0.02
Sodium, Other .....		311.99	5	0.30	0.04	0.02	5	0.30	0.04	0.02
Method Group 311.XX PCT			6	0.30	0.03	0.02	6	0.30	0.03	0.02
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	10	0.125	0.011	0.005	10	0.125	0.011	0.005
Acid Soluble Zinc, ICP .....		321.30	35	0.130	0.015	0.008	34	0.129	0.013	0.007
Acid Soluble Zinc, Other .....		321.99	3	0.138	0.024	0.011	3	0.138	0.024	0.011
Method Group 321.XX PCT			48	0.129	0.015	0.007	46	0.128	0.013	0.007

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Water Soluble Zinc, ICP .....		325.30	2	0.123	0.129	0.013	2	0.123	0.129	0.013
Water Soluble Zinc, Other .....		325.99	1	0.135	0.007	0.010	1	0.135	0.007	0.010
Method Group 325.XX PCT			3	0.127	0.100	0.012	3	0.127	0.100	0.012



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: 020.50 PCT			Meth: 020.XX PCT			Meth: 030.20 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>		
<u>Spectrometric</u>			<u>Spectrometric</u>			<u>ICP</u>			<u>Spectrometric</u>			<u>Spectrometric</u>		
390	15.03	-.40	324	5.50 s	4.84	426	5.12	1.08	096	4.99	.03	474	0.04	-.71
211	15.00	-.50	231	5.15	1.71	402	5.07	.91	035	4.99	.03	Meth: 030.40 PCT		
042	15.00	-.50	406	5.14	1.52	393	5.01	.68	Avg	4.98		<u>Insoluble Phosphate</u>		
037	15.03	-.55	292	5.09	1.10	255	4.92	.38	322	4.98	-.02	<u>Automated</u>		
231	14.99	-.56	234	5.04	.72	390	4.83	.13	456	4.98	-.06	096 0.07 .00		
405	15.00	-.60	481	5.02	.47	Avg	4.89		470	4.97	-.11	Meth: 030.50 PCT		
105	14.98	-.61	371	4.99	.33	451	4.79	-.52	200	4.96 X	-.15	<u>Insoluble Phosphate</u>		
090	14.98	-.64	Avg	4.97		432	4.49	-1.15	105	4.95	-.19	<u>ICP</u>		
035	15.01	-.70	200	4.96 X	-.13	389	4.30 S	-1.81	247	4.95	-.23	479 0.05 .95		
041	14.96	-.72	416	4.94	-.29	Meth: 020.99 PCT			416	4.94	-.26	Avg 0.02		
022	14.90	-1.04	177	4.93	-.41	<u>Total Phosphate</u>			090	4.93	-.32	255 0.00 -.78		
481	14.89	-1.10	405	4.92	-.49	<u>Other</u>			177	4.93	-.35	Meth: 030.99 PCT		
368	14.92	-1.19	232	4.89	-.73	455	5.30	1.42	255	4.92	-.36	<u>Insoluble Phosphate</u>		
030	14.88	-1.21	450	4.88	-1.16	Avg	5.00		405	4.92	-.39	<u>Other</u>		
102	14.98 R	-2.05	479	4.83	-1.35	137	4.99	-.05	232	4.89	-.55	247 0.02 .71		
470	14.71	-2.11	169	4.82	-1.41	322	4.98	-.10	041	4.89	-.55	Meth: 030.XX PCT		
309	14.70	-2.16	309	4.74 R	-2.90	443	4.73	-1.21	105	4.89	-.56	<u>Insoluble Phosphate</u>		
114	14.63	-2.52	474	3.04 s	-17.66	Meth: 020.XX PCT			450	4.88	-.81	<u>Other</u>		
095	14.62	-2.62	Meth: 020.40 PCT			<u>Total Phosphate</u>			479	4.83	-.95	247 0.02 .71		
324	14.65 s	-3.07	<u>Automated</u>			<u>Total Phosphate</u>			390	4.83	-.96	Meth: 030.XX PCT		
371	14.24 s	-4.64	027	5.14 R	4.72	483	5.79 s	4.72	169	4.82	-.99	<u>Insoluble Phosphate</u>		
255	14.21 s	-4.83	035	4.99	.72	422	5.68 s	4.16	451	4.79 R	-1.45	096 0.07 1.66		
416	14.03 s	-5.78	096	4.99	.72	324	5.50	3.04	443	4.73	-1.47	479 0.05 R .93		
049	11.70 s	-18.48	456	4.98	.64	455	5.30	1.95	309	4.74 R	-1.93	474 0.04 .39		
484	10.37 s	-26.38	247	4.95	-.32	114	5.23	1.46	432	4.49	-2.92	Avg 0.02		
Meth: 020.10 PCT			105	4.89	-1.71	231	5.15	1.02	389	4.30 s	-4.02	247 0.02 -.39		
<u>Total Phosphate</u>			042	4.65 S	-10.85	027	5.14	.94	484	4.16 s	-4.94	255 0.00 -.81		
<u>Grav Quimociac</u>			484	4.16 s	-20.55	406	5.14	.90	474	3.04 s	-11.49	090 0.00 -.89		
114	5.23 s	9.32	Meth: 020.50 PCT			426	5.12	.89	Meth: 030.10 PCT			Meth: 040.10 PCT		
470	4.97	.98	<u>Total Phosphate</u>			292	5.09	.63	<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>		
105	4.95	.61	<u>ICP</u>			402	5.07	.55	<u>Grav Quimociac</u>			<u>Grav Quim</u>		
Avg	4.93		483	5.79 S	3.40	234	5.04	.40	090	0.00	.00	090 4.93 1.22		
090	4.93	-.34	422	5.68 S	3.06	481	5.02	.24	Meth: 030.10 PCT			300 4.93 .00		
041	4.89	-1.43	Meth: 020.50 PCT			371	4.99	.18	<u>Insoluble Phosphate</u>			Avg 4.93		
<u>Total Phosphate</u>			<u>Total Phosphate</u>			393	5.01	.17	<u>Grav Quimociac</u>					
<u>ICP</u>			<u>ICP</u>			137	4.99	.04						

\* 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: 040.20 PCT			Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 048.50 PCT		
<u>InDir Available Phos Spectrometri</u>			<u>Dir Available Phosph Grav Quimociac</u>			<u>Dir Available Phosph ICP</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph ICP</u>		
474	2.96 S	.00	254	4.98	1.58	360	4.79	-.64	034	4.98	.78	023	5.00	.58
			009	4.97	.87	377	4.80	-.64	095	4.98	.54			
			028	4.96	.75	007	4.76	-.92	105	5.01	.54	Meth: 048.XX PCT		
Meth: 040.40 PCT			055 4.96 .45			325 4.71 -1.53			354 5.01 .50			<u>Water Soluble Phosph</u>		
<u>InDir Available Phos Automated</u>			211 4.95 .33			Meth: 041.60 PCT			009 4.97 .46			096 4.68 .64		
096	4.92	.71	Avg	4.92		Dir Available Phosph			028 4.96 .40			479 4.56 .50		
			105	4.91	-.26	<u>EDTA Extract</u>			027 4.99 .38			309 4.51 .45		
Meth: 040.50 PCT			102 4.90 -.28			231 5.30 2.06			055 4.96 .12			393 4.38 .30		
<u>InDir Available Phos ICP</u>			040 4.90 -.28			029 5.04 .74			211 4.95 .04			Avg 4.11		
255	4.92	.71	131	4.88	-.58	105 5.01 .02			Avg 4.94			474 2.44 -1.88		
			049	4.83	-1.31	Avg 5.01			393 4.93 -.19					
			185	4.82	-1.51	136 4.94 -.55			233 4.93 -.21			Meth: 050.00 PCT		
Meth: 040.99 PCT			Meth: 041.20 PCT			Meth: 041.99 PCT			136 4.94 -.24			Soluble Potash		
<u>InDir Available Phos Other</u>			<u>Dir Available Phosph Spectrometric</u>			<u>Dir Available Phosph Other</u>			105 4.91 -.32			<u>STPB Oxalate</u>		
460	5.10 S	3.27	030	5.11	.71	230 6.05 S 12.07			102 4.90 -.35			114 10.40 R 3.07		
247	4.93	.86				Avg 5.03			040 4.90 -.35			090 10.23 1.09		
Avg	4.82					106 4.99 -.94			351 4.90 -.38			055 10.22 1.09		
479	4.72	-.87	Meth: 041.40 PCT			Meth: 041.99 PCT			131 4.88 -.52			022 10.20 .81		
			Dir Available Phosph Automated			Dir Available Phosph Other			009 4.94 -.59			009 10.19 .71		
Meth: 040.XX PCT			472 4.99 1.47			230 6.05 S 12.07			131 4.87 -.62			470 10.17 .46		
<u>InDir Available Phos</u>			095 4.98 .63			Avg 5.03			055 4.82 -.93			416 10.14 .20		
460	5.10 s	4.43	027	4.99	.36	105 5.03 -.71			049 4.83 -.99			Avg 10.12		
247	4.93	.50	Avg	4.96		Meth: 041.XX PCT			185 4.82 -1.11			231 10.11 -.30		
090	4.93	.50	131	4.87	-.91	<u>Dir Available Phosph</u>			377 4.80 -1.16			211 10.00 -1.22		
300	4.93	.48				230 6.05 s 8.56			368 4.92 -1.18			049 9.99 -1.34		
255	4.92	.39	Meth: 041.50 PCT			231 5.30 2.75			360 4.79 -1.20			102 9.97 -1.53		
096	4.92	.31	Dir Available Phosph ICP			022 5.15 1.97			007 4.76 -1.47			230 8.91 s -12.49		
Avg	4.89		368 4.92 1.30			030 5.11 1.30			325 4.71 -1.97			Meth: 050.30 PCT		
479	4.72	-2.13	023 5.00 1.17			472 4.99 1.19			Meth: 048.20 PCT			Soluble Potash		
474	2.96 s	-23.40	354 5.01 1.15			029 5.04 1.07			<u>Water Soluble Phosph Spectrometric</u>			<u>AA (Oxalate)</u>		
Meth: 041.10 PCT			009 4.94 .83			106 4.99 1.06			096 4.68 .64			309 12.40 S 10.64		
<u>Dir Available Phosph Grav Quimociac</u>			393 4.93 .54			260 5.02 .97			479 4.56 .51			040 10.55 1.68		
022	5.15 s	3.29	Avg 4.87			254 4.98 .94			309 4.51 .46			185 10.25 .32		
260	5.02	1.68	055 4.82 -.36			105 5.03 .79			Avg 4.04			Avg 10.21		
									474 2.44 -1.62			136 10.11 -.53		
												234 10.05 -.80		

\* 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: 050.30 PCT			Meth: 050.60 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>AA (Oxalate)</u>			<u>Flame (Oxalate)</u>			<u>Other</u>								
157	10.09	-.82	406	10.34	1.11	131	9.96	-.44	055	10.20	.31	325	9.82	-1.81
			169	10.27	.49	255	9.99	-.52	007	10.24	.29	450	9.66	-2.61
Meth: 050.31 PCT			Avg 10.22			325 9.82 -.84			090 10.23 .23			042 9.68 s -3.00		
Soluble Potash			105 10.19 -.74			450 9.66 -1.35			131 10.20 .21			484 9.54 A -3.27		
<u>AA (Citrate)</u>			200 10.10 X -1.22			042 9.68 S -1.66			360 10.22 .16			368 9.51 A -3.40		
030	10.10	.96	443	10.08 s	-2.92	484	9.54	-1.78	105	10.22	.14	254	9.44 s	-3.80
Avg 10.03			Meth: 050.61 PCT			368 9.51 -1.86			022 10.20 .07			481 9.15 s -5.21		
472	9.96	-.76	Soluble Potash			481 9.15 S -3.02			009 10.19 .06			390 9.12 s -5.35		
254	9.44 S	-6.69	<u>Flame (Citrate)</u>			474 8.20 s -6.07			Avg 10.19			230 8.91 s -6.48		
Meth: 050.50 PCT			028 10.44 1.88			Meth: 050.XX PCT			470 10.17 -.11			474 8.20 s -9.95		
Soluble Potash			029 10.34 1.02			<u>Soluble Potash</u>			137 10.16 -.13			Meth: 060.00 PCT		
<u>ICP (Oxalate)</u>			041 10.24 .42			309 12.40 s 11.09			456 10.18 -.14			Free Water		
422	10.61	1.58	105 10.22 .10	322 11.02 s 4.19	483 10.82 s 3.23	354 10.16 -.24	106 10.15 -.24			<u>Vacuum Oven</u>				
426	10.36	.77	456 10.18 -.29	389 10.65 2.33	027 10.59 2.14	177 10.12 -.34	105 10.14 -.34			474 1.52 2.11				
292	10.28	.34	131 10.20 -.31	028 10.44 1.30	040 10.55 1.84	105 10.11 -.40	095 10.11 -.40			Avg 0.65				
055	10.20	.23	095 10.11 -.74	023 10.43 1.24	028 10.44 1.30	231 10.11 -.43	405 0.60 -.13			096 0.60 -.13				
Avg 10.19			034 10.10 -.89	114 10.40 1.22	028 10.44 1.30	324 10.10 -.43	105 0.51 -.34			405 0.51 -.34				
354	10.16	-.18	035 10.02 -1.49	247 10.39 1.18	028 10.44 1.30	136 10.11 -.46	105 0.55 R -.35			456 0.48 -.41				
106	10.15	-.18	Meth: 050.99 PCT			023 10.43 1.24	456 0.48 -.41			007 0.43 -.55				
324	10.10	-.32	Soluble Potash			114 10.40 1.22	416 0.37 -.68			Meth: 101.00 PCT				
351	9.65	-2.02	<u>Other</u>			247 10.39 1.18	034 10.10 -.50			Acid Soluble Calcium				
390	9.12 S	-4.01	322 11.02 S 3.02	009 10.33 .85	426 10.36 1.03	200 10.10 X -.46	030 10.10 -.53			<u>AA</u>				
Meth: 050.51 PCT			027 10.59 1.69	402 10.35 .84	009 10.33 .85	034 10.10 -.50	377 10.10 -.66			105 0.20 S .00				
Soluble Potash			247 10.39 1.05	455 10.35 .80	402 10.35 .84	034 10.10 -.50	234 10.05 -.72							
<u>ICP (Citrate)</u>			402 10.35 .86	406 10.34 .75	455 10.35 .80	034 10.10 -.50	393 10.04 -.74							
483	10.82 S	2.61	455 10.35 .84	029 10.34 .74	406 10.34 .75	034 10.10 -.50	157 10.09 -.77							
389	10.65	1.73	460 10.32 .78	460 10.32 .73	029 10.34 .74	034 10.10 -.50	232 10.02 -.83			Meth: 101.30 PCT				
023	10.43	.69	451 10.31 .72	451 10.31 .62	460 10.32 .73	034 10.10 -.50	035 10.02 -.89			Acid Soluble Calcium				
009	10.33	.46	360 10.22 .42	432 10.30 .54	451 10.31 .62	034 10.10 -.50	211 10.00 -.93			<u>ICP</u>				
Avg 10.30			137 10.16 .24	292 10.28 .45	432 10.30 .54	034 10.10 -.50	049 9.99 -.99			422 1.65 s 14.72				
432	10.30	-.03	105 10.14 .24	169 10.27 .41	292 10.28 .45	034 10.10 -.50	102 9.97 -1.08			041 0.98 R 2.90				
007	10.24	-.30	177 10.12 .11	185 10.25 .40	169 10.27 .41	034 10.10 -.50	472 9.96 -1.14			096 0.97 2.03				
377	10.10	-1.08	Avg 10.09			185 10.25 .40	255 9.99 -1.18			035 0.93 1.50				
393	10.04	-1.25	232 10.02 -.21	041 10.24 .33	185 10.25 .40	131 9.96 -1.18			483 0.93 1.33					
						041 10.24 .33	443 10.08 R -1.44			393 0.90 .62				

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.30 PCT			Meth: 101.XX PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>		
ICP			022	0.80	-1.30	ICP			483	1.32 s	4.17	095	1.05	-1.18
131	0.87	.45	389	0.79	-1.36	102	1.12	.47	042	1.20	1.72	479	1.05	-1.28
354	0.87	.29	105	0.20 s	-12.38	035	1.11	.44	200	1.20 X	1.62	232	1.04	-1.42
Avg	0.86		474	0.18 s	-12.91	472	1.12	.42	231	1.19	1.46	368	1.03	-1.51
106	0.86	-.04	484	0.16 s	-13.29	233	1.11	.27	247	1.18	1.27	230	1.03	-1.54
102	0.86	-.05	Meth: 121.00 PCT			037	1.12	.26	028	1.18	1.24	086	1.02	-1.69
009	0.85	-.23	<u>Acid Soluble Magnesi</u>			422	1.12	.26	106	1.18	1.24	029	1.00	-2.05
232	0.85	-.33	<u>AA</u>			360	1.11	.11	169	1.17	1.20	432	0.63 s	-13.10
390	0.84	-.44	309	1.91 s	12.17	Avg	1.10		023	1.17	1.10	474	0.12 s	-19.00
027	0.83	-.77	200	1.20 X	1.09	022	1.10	-.18	157	1.15 R	1.09	Meth: 131.00 PCT		
086	0.80	-1.10	200	1.20 X	1.09	131	1.10	-.21	096	1.16	.86	Water Soluble Magnes		
022	0.80	-1.30	028	1.18	.78	393	1.09	-.41	177	1.15	.82	<u>AA</u>		
389	0.79	-1.36	157	1.15 R	.77	351	1.08	-.54	389	1.15	.76	484 0.85 .71		
474	0.18 s	-12.91	169	1.17	.76	354	1.08	-.68	255	1.11	.74	Meth: 131.30 PCT		
Meth: 101.99 PCT			177	1.15	.44	009	1.08	-.74	450	1.14	.67	Water Soluble Magnes		
<u>Acid Soluble Calcium</u>			105	1.13	.19	324	1.06	-1.03	390	1.14	.60	ICP		
<u>Other</u>			Avg	1.13		095	1.05	-1.16	055	1.13	.56	027 1.05 1.05		
484	0.16 S	.00	040	1.12	-.18	426	1.09 R	-1.26	105	1.13	.45	Avg 1.05		
Meth: 101.XX PCT			481	1.06	-1.10	479	1.05	-1.27	027	1.12	.38	368 1.04 -.63		
<u>Acid Soluble Calcium</u>			029	1.00	-1.91	232	1.04	-1.43	102	1.12	.33	Meth: 131.99 PCT		
422	1.65 s	14.72	Meth: 121.30 PCT			368	1.03	-1.53	472	1.12	.30	Water Soluble Magnes		
041	0.98 R	2.90	<u>Acid Soluble Magnesi</u>			230	1.03	-1.56	040	1.12	.27	Other		
096	0.97	2.03	<u>ICP</u>			086	1.02	-1.72	233	1.11	.18	474 2.44 .71		
035	0.93	1.50	433	4.12 s	63.53	432	0.63 s	-14.34	037	1.12	.13	Meth: 131.XX PCT		
483	0.93	1.33	041	1.40 s	6.13	474	0.12 s	-20.80	422	1.12	.13	Water Soluble Magnes		
393	0.90	.62	483	1.32 s	4.72	Meth: 121.99 PCT			Avg	1.11		474 2.44 .71		
131	0.87	.45	231	1.19	1.74	<u>Acid Soluble Magnesi</u>			360	1.11	-.14	Meth: 131.XX PCT		
354	0.87	.29	247	1.18	1.53	<u>Other</u>			137	1.10	-.19	Water Soluble Magnes		
Avg	0.86		106	1.18	1.50	042	1.20	.87	022	1.10	-.28	474 2.44 1.61		
106	0.86	-.04	023	1.17	1.35	Avg	1.15		131	1.10	-.30	Avg 1.34		
102	0.86	-.05	096	1.16	1.08	137	1.10	-.87	035	1.11	-.38	027 1.05 -.43		
009	0.85	-.23	389	1.15	.97	Meth: 121.XX PCT			393	1.09	-.49	368 1.04 -.45		
232	0.85	-.33	450	1.14	.84	<u>Acid Soluble Magnesi</u>			351	1.08	-.61	484 0.85 -.73		
390	0.84	-.44	255	1.11	.84	433 4.12 s 57.55			354	1.08	-.73			
027	0.83	-.77	390	1.14	.79	309 1.91 s 15.18			009	1.08	-.76			
086	0.80	-1.10	055	1.13	.69	041 1.40 s 5.44			324	1.06	-1.06			
			027	1.12	.48				481	1.06	-1.06			
									426	1.09 R	-1.18			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.01 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.00 PCT		
Sulfur			Sulfur			Sulfur			Arsenic			Acid Soluble Boron		
<u>Gravimetric</u>			<u>Other</u>						<u>ICP</u>			<u>Spectrometric</u>		
055	18.30	1.82	049	17.34	.60	137	17.45	.48	368	11.25 s	6.90	Avg	0.145	
095	17.88	1.05	009	17.25	.46	102	17.41	.44	450	5.50	1.50	029	0.144	-.32
029	17.59	.52	177	17.21	.41	233	17.40	.42	106	4.50	.67	105	0.143	-.59
324	17.55	.45	232	17.19	.39	040	17.30	.32	102	4.31	.30	055	0.139	-1.28
102	17.41	.23	027	17.15	.37	009	17.25	.28	230	4.25	.27			
233	17.40	.18	450	17.03	.24	177	17.21	.19	393	4.21	.20	Meth: 165.99 PCT		
Avg	17.32		351	16.83	.14	232	17.19	.17	Avg	4.01		Acid Soluble Boron		
040	17.30	-.19	389	16.90	.11	027	17.15	.17	474	3.05	-.93	<u>Other</u>		
231	16.95	-.68	Avg	16.89		Avg	17.05		481	2.28	-1.66	433	0.585 s	22.79
105	17.21	-.79	037	16.74	-.10	450	17.03	-.05				432	0.300 s	9.55
481	16.75	-1.05	393	16.56	-.23	231	16.95	-.13	Meth: 151.99 PPM			255	0.238 A	4.81
106	16.95	-1.08	023	16.43	-.34	389	16.90	-.18	Arsenic			200	0.195 X	2.60
230	16.50	-1.77	086	16.50	-.35	351	16.83	-.32	<u>Other</u>			483	0.176	1.63
			368	16.75 R	-.57	481	16.75	-.36	086	4.55	.88	368	0.160	.83
			472	16.06	-.69	037	16.74	-.39	Avg	4.20		426	0.153	.38
Meth: 144.02 PCT			422	15.70	-1.04	106	16.95 R	-.55	231	3.84	-.85	360	0.152	.34
Sulfur			426	15.29	-1.44	393	16.56	-.60				231	0.150	.25
<u>Gravimetric</u>			255	15.20	-1.52	200	16.53 X	-.62	Meth: 151.XX PPM			106	0.150	.25
292	17.66	.71	354	15.05	-1.67	086	16.50	-.72	Arsenic			Avg	0.145	
			169	14.26 S	-2.42	023	16.43	-.74	368	11.25 s	7.94	232	0.143	-.24
Meth: 144.70 PCT						368	16.75 R	-.80	450	5.50	1.65	324	0.140 R	-.58
Sulfur			Meth: 144.XX PCT			230	16.50 R	-.89	106	4.50	.71	422	0.135	-.58
<u>Spectrometric</u>			<u>Sulfur</u>			472	16.06	-1.19	086	4.55	.53	009	0.133	-.61
Avg	16.53		483	18.35	1.56	422	15.70	-1.62	136	4.50	.50	086	0.132	-.70
200	16.53 X	-.71	360	18.34	1.54	426	15.29	-2.12	102	4.31	.26	042	0.130	-.78
474	6.61 S-233.96		055	18.30	1.49	255	15.20	-2.22	230	4.25	.24	354	0.130	-.78
			102	18.27	1.47	354	15.05	-2.40	393	4.21	.14	389	0.130	-.78
Meth: 144.99 PCT			095	17.88	.99	169	14.26 s	-3.35	Avg	4.10		472	0.130 X	-.82
Sulfur			157	17.55	.73	474	6.61 s	-12.52	231	3.84	-.32	230	0.124	-1.12
<u>Other</u>			292	17.66	.73	Meth: 151.00 PPM			474	3.05	-1.18	Meth: 165.XX PCT		
483	18.35	1.50	029	17.59	.65	Arsenic			481	2.28	-2.03	Acid Soluble Boron		
360	18.34	1.49	390	17.35 R	.65	<u>Atomic Absorption</u>			Meth: 165.00 PCT			433	0.585 s	25.96
102	18.27	1.43	324	17.55	.60	136	4.50	.71	Acid Soluble Boron			432	0.300 s	10.88
157	17.55	.81	114	17.52	.56				<u>Spectrometric</u>			255	0.238 A	5.48
114	17.52	.70	105	17.21	.53				028	0.150	1.18	200	0.195 X	2.96
390	17.35 R	.69	479	17.43	.52				481	0.150	1.01	483	0.176	1.86
479	17.43	.65	049	17.34	.49									
137	17.45	.64												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 165.XX PCT			Meth: 171.XX PCT			Meth: 181.XX PPM			Meth: 191.30 PPM			Meth: 202.00 PPM		
<u>Acid Soluble Boron</u>			<u>Water Soluble Boron</u>			<u>Cadmium</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>		
368	0.160	.95	137	0.140	-.65	368	4.25	1.01	ICP			AA		
426	0.153	.44	027	0.139	-.65	232	4.39	.84	Avg	43.81		136	9.50 S	.00
360	0.152	.39				231	4.40	.83	247	43.80	-.24	474	5.00	.00
028	0.150	.34	Meth: 181.00 PPM			102	4.39	.76	106	43.00	-.38	Avg	5.00	
231	0.150	.29	<u>Cadmium</u>			481	4.33	.60	230	41.85	-.63			
481	0.150	.29	<u>Atomic Absorption</u>			Avg	4.11		393	41.42	-.73	Meth: 202.30 PPM		
106	0.150	.29	481	4.33	.87	136	4.05	-.21	027	40.09	-1.11	<u>Acid Soluble Cobalt</u>		
Avg	0.145		Avg	4.19		230	3.99	-.34	037	37.82	-1.79	<u>ICP</u>		
029	0.144	-.10	136	4.05	-.86	450	4.05	-.43	474	16.00 s	-8.29	009	6.02	1.59
105	0.143	-.18				035	3.86	-.70				086	4.84	.85
232	0.143	-.27	Meth: 181.30 PPM			393	3.68	-1.15	Meth: 191.99 PPM			368	4.55	.65
055	0.139	-.38	<u>Cadmium</u>			086	3.75	-1.38	<u>Chromium</u>			035	4.41	.60
324	0.140 R	-.66	<u>ICP</u>			484	3.40	-1.93	<u>Other</u>			422	4.00	.30
422	0.135	-.66	009	4.53	1.12	474	1.75 s	-6.34	231	27.54 S	.00	393	3.94	.26
009	0.133	-.69	368	4.25	1.04	106	1.50 s	-7.14				Avg	3.53	
086	0.132	-.79	037	4.47	1.00				Meth: 191.XX PPM			230	3.39	-.15
354	0.130	-.89	232	4.39	.82	Meth: 190.00 PCT			<u>Chromium</u>			102	2.73	-.52
389	0.130	-.89	102	4.39	.73	<u>Water Soluble Chlori</u>			481	64.00 s	6.05	232	2.70	-.59
042	0.130	-.89	Avg	4.13		<u>Titrimetric</u>			096	50.50	2.00	247	2.30	-.79
472	0.130 X	-.93	230	3.99	-.42	105	6.64	.88	450	47.50	1.11	450	0.00	-2.24
230	0.124	-1.28	450	4.05	-.49	Avg	6.40		009	45.55 R	.90			
			035	3.86	-.80	422	6.16	-.85	368	45.50	.57	Meth: 202.99 PPM		
			393	3.68	-1.28	Meth: 191.00 PPM			035	45.20	.48	<u>Acid Soluble Cobalt</u>		
			086	3.75	-1.51	<u>Chromium</u>			102	44.77	.30	<u>Other</u>		
			474	1.75 S	-6.73	<u>Atomic Absorption</u>			232	44.25	.23	231	0.78	.71
			106	1.50 S	-7.56	481	64.00 S	.00	Avg	43.81				
									247	43.80	-.24	Meth: 202.XX PPM		
									106	43.00	-.38	<u>Acid Soluble Cobalt</u>		
									230	41.85	-.63	136	9.50 s	3.60
									393	41.42	-.73	009	6.02	1.54
									027	40.09	-1.11	474	5.00	.93
									037	37.82	-1.79	086	4.84	.85
									231	27.54 s	-4.89	368	4.55	.67
									474	16.00 s	-8.29	035	4.41	.62
												422	4.00	.34
												393	3.94	.30
												Avg	3.43	
												230	3.39	-.12

\* 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: 202.XX PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.XX PCT		
<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>		
102	2.73	-.43	ICP			095	0.0022	-1.13	ICP			096	0.78	1.08
232	2.70	-.50	483	0.0022 R	-2.76	483	0.0022	-1.94	027	0.72	.33	106	0.78	1.02
247	2.30	-.68	472	0.0015 s	-5.38	472	0.0015 s	-3.82	479	0.73	.15	432	0.77	.99
231	0.78	-1.58	Meth: 221.99 PCT			Meth: 241.00 PCT			Avg	0.72		055	0.77	.96
450	0.00	-2.03	<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			351	0.71	-.19	157	0.76	.95
Meth: 221.00 PCT			Other			Atomic Absorption			095	0.71	-.24	360	0.77	.94
<u>Acid Soluble Copper</u>			231	0.0026	1.15	169	3.04 s	71.53	426	0.71	-.24	233	0.76	.89
<u>Atomic Absorption</u>			Avg	0.0024		105	0.75	1.05	368	0.71	-.38	324	0.76	.86
474	0.0518 S	114.86	484	0.0022	-.41	029	0.73	.70	354	0.70	-.50	037	0.76	.78
481	0.0025	1.18	Meth: 221.XX PCT			028	0.72	.53	041	0.69	-.58	105	0.75	.65
Avg	0.0024		<u>Acid Soluble Copper</u>			028	0.72	.53	086	0.68	-.85	247	0.74	.59
105	0.0023	-.33	474	0.0518 s	173.03	177	0.72	.14	102	0.67	-.96	131	0.74	.54
Meth: 221.30 PCT			433	0.0088 s	22.10	Avg	0.72		232	0.70 R	-1.03	390	0.73	.46
<u>Acid Soluble Copper</u>			354	0.0040 s	6.37	460	0.69	-.78	402	0.66	-1.13	029	0.73	.44
ICP			422	0.0040 A	5.33	481	0.69	-1.73	422	0.65	-1.27	009	0.72	.41
433	0.0088 s	29.71	231	0.0026 R	2.14	474	0.56 s	-4.69	255	0.64	-1.56	027	0.72	.37
354	0.0040 s	8.44	041	0.0025	1.75	Meth: 241.30 PCT			230	0.63	-1.63	022	0.72	.36
422	0.0040 s	6.99	481	0.0025	1.75	<u>Acid Soluble Iron</u>			231	0.63	-1.64	028	0.72	.35
389	0.0029	1.85	389	0.0029	1.53	ICP			393	0.61	-1.91	479	0.73	.32
106	0.0027	1.65	106	0.0027	1.31	433	2.73 s	36.84	472	0.52 A	-3.72	368	0.71	.30
402	0.0027	.65	483	1.05 s	6.48	483	1.05 s	6.48	389	0.47 s	-4.65	177	0.72	.20
035	0.0026	.60	450	0.82	1.89	450	0.82	1.89	023	0.37 s	-6.39	351	0.71	.18
102	0.0026	.60	035	0.0026	.56	035	0.79	1.39	Meth: 241.99 PCT			095	0.71	.10
368	0.0026	.49	368	0.0026	.46	096	0.78	1.13	<u>Acid Soluble Iron</u>			426	0.71	.04
247	0.0026	.37	247	0.0026	.44	106	0.78	1.03	Other			460	0.69	-.19
393	0.0026	.25	393	0.0026	.34	432	0.77	1.01	042	0.67	.86	041	0.69	-.24
Avg	0.0025		086	0.0025	.31	157	0.76	1.00	Avg	0.59		354	0.70	-.29
233	0.0025	-.10	233	0.0025	.15	055	0.77	.96	484	0.51	-.87	086	0.68	-.48
086	0.0025	-.40	Avg	0.0025		360	0.77	.93	137	0.10 S	-5.20	102	0.67	-.54
009	0.0024	-.58	009	0.0024	-.26	233	0.76	.88	Meth: 241.XX PCT			042	0.67	-.55
232	0.0025	-.64	230	0.0024	-.36	324	0.76	.84	<u>Acid Soluble Iron</u>			402	0.66	-.66
230	0.0024	-.69	232	0.0025	-.43	037	0.76	.72	169	3.04 s	33.30	481	0.69	-.74
450	0.0024	-1.11	105	0.0023	-.70	247	0.74	.53	433	2.73 s	28.89	232	0.70 R	-.76
255	0.0024	-1.44	450	0.0024	-.74	131	0.74	.46	483	1.05 s	5.25	422	0.65	-.77
095	0.0022	-1.76	255	0.0024	-.97	390	0.73	.39	483	1.05 s	5.25	255	0.64	-1.02
041	0.0025 R	-2.37	484	0.0022	-1.12	009	0.72	.38	450	0.82	1.69	230	0.63	-1.05
						022	0.72	.35	035	0.79	1.28	231	0.63	-1.06

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.XX PCT			Meth: 251.XX PPM			Meth: 261.99 PCT			Meth: 289.30 PPM			Meth: 291.30 PPM		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Nickel</u>		
393	0.61	-1.27	450	3.00	.50	484	0.009	-1.08	433	16.45 s	13.32	096	19.00	2.71
474	0.56	-2.00	102	2.44	.19	230	2.50	.12	474	5.55	2.18	009	14.98	.66
472	0.52 X	-2.68	Avg	2.40		Meth: 261.XX PCT			450	4.00 R	1.18	233	15.29	.55
484	0.51	-2.84	481	2.14	-.22	<u>Acid Soluble Manganese</u>			035	4.15	.93	035	15.50	.53
389	0.47 A	-3.40	231	2.08	-.28	474	0.027 s	18.03	393	3.95	.55	247	15.35	.45
023	0.37 s	-4.76	106	2.00	-.33	041	0.012	1.66	247	3.45	.16	368	15.35	.42
137	0.10 s	-8.60	368	1.80	-.53	105	0.011	1.04	Avg	3.42		102	14.78	.20
Meth: 251.00 PPM			393	0.52	-1.57	232	0.011	1.01	368	3.30	-.16	049	14.87	.14
<u>Lead</u>			Meth: 261.00 PCT			009	0.011	.85	230	3.26	-.18	Avg	14.68	
<u>Atomic Absorption</u>			<u>Acid Soluble Manganese</u>			035	0.010	.83	232	3.40	-.19	450	14.50	-.33
136	8.50	.87	<u>AA</u>			086	0.010	.82	102	3.22	-.21	230	14.15	-.37
Avg	5.32		105	0.011	-.71	027	0.010	.43	086	3.27	-.71	232	14.20	-.53
481	2.14	-.86	Meth: 261.30 PCT			Avg	0.010		009	2.11	-1.35	086	14.07	-.63
Meth: 251.30 PPM			<u>Acid Soluble Manganese</u>			354	0.010	.00	106	2.00	-1.45	393	13.15	-.96
<u>Lead</u>			<u>ICP</u>			422	0.010	.00	Meth: 289.99 PPM			106	13.00	-1.05
474	14.45 s	8.81	041	0.012	1.54	131	0.010	-.37	<u>Molybdenum</u>			037	12.06	-1.66
009	5.14	1.95	232	0.011	.90	247	0.010	-.38	<u>Other</u>			474	8.00 s	-4.19
450	3.00	.38	035	0.010	.77	102	0.009	-.69	231	2.00	-.71	Meth: 291.99 PPM		
230	2.50	.07	086	0.010	.75	393	0.009	-.80	<u>Molybdenum</u>			<u>Nickel</u>		
Avg	2.49		009	0.011	.74	484	0.009	-1.23	Meth: 289.XX PPM			<u>Other</u>		
102	2.44	-.17	Avg	0.010		389	0.008	-2.11	<u>Molybdenum</u>			231	7.73 S	.00
106	2.00	-.36	422	0.010	-.09	Meth: 281.00 PPM			433	16.45 s	12.79	Meth: 291.XX PPM		
368	1.80	-.53	354	0.010	-.09	<u>Mercury</u>			474	5.55	2.19	<u>Nickel</u>		
393	0.52	-1.45	247	0.010	-.43	<u>Atomic Absorption</u>			450	4.00 R	1.18	096	19.00	2.71
Meth: 251.99 PPM			131	0.010	-.46	230	0.01	.71	035	4.15	.98	009	14.98	.66
<u>Lead</u>			102	0.009	-.76	Meth: 281.30 PPM			393	3.95	.63	233	15.29	.55
<u>Other</u>			389	0.008	-2.15	<u>Mercury</u>			247	3.45	.20	035	15.50	.53
231	2.08	.71	Meth: 261.99 PCT			<u>ICP</u>			Avg	3.30		247	15.35	.45
Meth: 251.XX PPM			<u>Acid Soluble Manganese</u>			393	1.42	.71	230	3.26	-.07	368	15.35	.42
<u>Lead</u>			<u>Other</u>			Meth: 281.XX PPM			102	3.22	-.09	102	14.78	.20
474	14.45 s	10.05	474	0.027 S	25.61	<u>Mercury</u>			368	3.30	-.10	049	14.87	.14
136	8.50 R	5.10	027	0.010	1.11	Meth: 281.30 PPM			086	3.27	-.66	Avg	14.68	
009	5.14	2.28	Avg	0.009		393	1.42	.87	009	2.11	-1.17	450	14.50	-.33
Meth: 251.99 PPM			393	0.009	-.31	Avg	0.71		106	2.00	-1.27	230	14.15	-.37
<u>Lead</u>			Meth: 281.00 PPM			230	0.01	-.86	231	2.00	-1.36	232	14.20	-.53
<u>Other</u>			<u>Mercury</u>			Meth: 281.30 PPM			<u>Molybdenum</u>			<u>Nickel</u>		
231	2.08	.71	474	0.027 S	25.61	<u>Mercury</u>			Meth: 289.99 PPM			<u>Other</u>		
Meth: 251.99 PPM			027	0.010	1.11	Meth: 281.30 PPM			<u>Molybdenum</u>			231		
<u>Lead</u>			Avg	0.009		<u>Mercury</u>			Meth: 289.XX PPM			7.73 S		
474	14.45 s	10.05	393	0.009	-.31	Meth: 281.00 PPM			Meth: 289.99 PPM			.00		
136	8.50 R	5.10	Meth: 281.30 PPM			<u>Mercury</u>			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
474	14.45 s	10.05	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
136	8.50 R	5.10	<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
009	5.14	2.28	Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
Meth: 251.99 PPM			Meth: 281.30 PPM			Meth: 281.00 PPM			Meth: 289.99 PPM			Meth: 291.99 PPM		
<u>Lead</u>			<u>Mercury</u>			Meth: 281.00 PPM			Meth: 289.99 PPM					



Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 325.XX PCT											
<u>Water Soluble Zinc</u>											
393	0.235	1.08									
450	0.135	.09									
Avg	0.127										
479	0.012	-1.16									

\* 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	2	0.00	1.22	0.09	050.XX	68	- 0.32	2.55	0.41
001.99	7	0.10	0.97	0.57	060.00	7	- 0.04	0.96	0.10
001.XX	9	0.08	0.98	0.52	060.XX	7	- 0.04	0.96	0.10
002.99	3	0.00	1.11	0.11	101.30	18	0.22	4.85	0.56
002.XX	3	0.00	1.11	0.11	101.XX	20	- 1.09	6.10	0.54
009.10	3	0.00	1.10	0.18	121.00	10	1.25	3.94	0.27
009.XX	3	0.00	1.10	0.18	121.30	37	1.16	11.31	1.75
010.11	9	7.85	24.55	0.30	121.99	2	0.00	1.22	0.00
010.12	6	- 3.69	8.61	2.09	121.XX	49	1.11	9.14	1.39
010.60	50	- 0.47	4.35	0.75	131.30	2	0.00	0.40	0.82
010.99	8	- 0.73	3.34	0.21	131.XX	4	0.00	1.08	0.03
010.XX	72	0.16	8.57	0.86	144.01	12	0.00	0.92	0.43
020.10	5	1.83	4.19	0.81	144.70	2	- 116.9	165.42	2.30
020.20	17	- 0.88	4.60	0.61	144.99	27	0.02	0.97	0.18
020.40	8	- 2.91	7.78	3.06	144.XX	41	- 0.43	2.20	0.25
020.50	10	0.64	1.62	0.24	151.30	8	0.86	2.61	0.26
020.99	4	0.00	1.05	0.23	151.99	2	0.00	1.14	0.31
020.XX	43	- 0.37	2.42	0.45	151.XX	11	0.72	2.57	0.27
030.50	2	0.00	1.10	0.38	165.00	5	0.000	0.983	0.356
030.XX	6	0.12	0.99	0.24	165.99	20	1.768	5.426	1.173
040.10	2	0.00	0.00	0.87	165.XX	25	1.611	5.563	1.197
040.99	3	0.74	1.54	1.39	171.99	2	0.000	1.225	0.015
040.XX	8	- 2.60	8.48	1.37	171.XX	3	0.000	1.118	0.013
041.10	13	0.21	1.05	0.81	181.00	2	0.00	1.14	0.31
041.40	4	0.00	0.61	0.77	181.30	12	- 1.18	2.87	0.62
041.50	10	0.00	0.85	0.54	181.99	2	0.00	1.19	0.19
041.60	8	0.00	0.89	0.49	181.XX	16	- 0.83	2.44	0.52
041.99	2	6.02	8.52	0.71	190.00	2	0.00	1.19	0.21
041.XX	33	0.27	1.73	0.56	190.XX	2	0.00	1.19	0.21
048.20	4	0.00	1.08	0.03	191.30	14	- 0.56	2.41	0.26
048.XX	5	0.00	1.06	0.03	191.XX	16	- 0.41	3.02	0.32
050.00	12	- 0.80	3.84	0.68	202.00	2	0.00	0.00	0.00
050.30	6	1.77	4.43	0.35	202.30	11	0.00	1.01	0.15
050.31	3	- 2.17	3.83	0.96	202.XX	14	0.26	1.37	0.15
050.50	9	- 0.45	1.64	0.18	221.00	3	38.112	66.013	6.3175
050.51	8	0.31	1.28	0.36	221.30	22	1.6812	6.7392	1.4274
050.60	5	- 0.28	1.07	1.19	221.99	2	0.0000	0.5634	0.7689
050.61	9	0.00	0.98	0.30	221.XX	27	7.4826	33.237	3.3411
050.99	21	- 0.35	1.87	0.30	241.00	8	8.36	25.58	0.70



## 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
241.30	38	0.73	6.31	0.58					
241.99	3	- 1.73	3.12	0.10					
241.XX	49	1.03	6.55	0.42					
251.00	2	0.00	1.22	0.10					
251.30	8	1.10	3.26	0.14					
251.XX	11	1.37	3.38	0.19					
261.30	11	0.000	0.962	0.336					
261.99	4	6.394	12.806	0.836					
261.XX	16	1.125	4.589	0.455					
281.XX	2	0.000	1.218	0.091					
289.30	13	1.07	3.79	0.43					
289.XX	14	0.96	3.52	0.41					
291.30	16	- 0.26	1.41	0.28					
291.XX	17	- 0.50	1.69	0.41					
301.30	2	0.00	1.22	0.06					
301.XX	3	0.00	1.11	0.08					
311.99	7	0.07	3.80	0.97					
311.XX	8	0.06	3.84	1.00					
321.00	10	0.000	0.981	0.289					
321.30	38	1.487	5.403	0.423					
321.99	5	6.153	12.400	0.283					
321.XX	52	2.391	8.967	0.427					
325.30	2	0.000	1.222	0.054					
325.XX	2	0.576	0.704	0.050					