

- Pass 1 Results for 79 Labs - - Pass 2 Results for 78 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	8	17.15	0.54	0.20	7	17.27	0.44	0.10
Ammoniacal Nitrogen, Other		001.99	8	17.11	0.46	0.08	7	17.24	0.29	0.05
Method Group 001.XX PCT			16	17.13	0.49	0.14	15	17.18	0.45	0.09
Ammon & Nitrate N, Devarda	892.01	009.10	4	16.99	0.57	0.17	3	17.13	0.58	0.03
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	17.57	0.26	0.07	8	17.57	0.26	0.07
Total Nitrogen, Salicylic	955.04D	010.12	2	17.77	0.32	0.06	2	17.77	0.32	0.06
Total Nitrogen, Combustion		010.60	53	17.81	0.23	0.13	50	17.81	0.22	0.10
Total Nitrogen, Other		010.99	4	17.77	0.27	0.06	4	17.77	0.27	0.06
Method Group 010.XX PCT			68	17.76	0.26	0.12	62	17.77	0.24	0.08
Total Phosphate, Grav Quimociac	962.02	020.10	6	46.46	0.15	0.06	6	46.46	0.15	0.06
Total Phosphate, Spectrometric	958.01	020.20	13	46.28	0.54	0.11	13	46.28	0.54	0.11
Total Phosphate, Automated	978.01	020.40	5	46.48	0.19	0.15	4	46.49	0.16	0.05
Total Phosphate, ICP		020.50	9	46.22	0.61	0.30	9	46.22	0.61	0.30
Total Phosphate, Other		020.99	4	46.03	0.39	0.21	4	46.03	0.39	0.21
Method Group 020.XX PCT			39	46.30	0.51	0.17	38	46.33	0.48	0.15
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Insoluble Phosphate, Automated	978.01	030.40	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Insoluble Phosphate, ICP		030.50	2	0.05	0.02	0.02	2	0.05	0.02	0.02
Method Group 030.XX PCT			4	0.05	0.02	0.01	4	0.05	0.02	0.01
InDir Available Phosphate, Spectrometri	960.02	040.20	1	46.21	0.04	0.06	1	46.21	0.04	0.06
InDir Available Phosphate, Automated	960.02	040.40	3	46.45	0.18	0.06	3	46.45	0.18	0.06
InDir Available Phosphate, ICP		040.50	1	46.54	0.06	0.08	1	46.54	0.06	0.08
Method Group 040.XX PCT			5	46.42	0.18	0.06	5	46.42	0.18	0.06
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	9	46.35	0.19	0.07	8	46.32	0.16	0.04
Dir Available Phosphate, Automated	978.01	041.40	1	46.33	0.11	0.15	1	46.33	0.11	0.15
Dir Available Phosphate, ICP		041.50	11	45.99	0.66	0.37	11	45.99	0.66	0.37
Dir Available Phosphate, EDTA Extract	993.01	041.60	9	46.29	0.44	0.35	8	46.34	0.33	0.20
Dir Available Phosphate, Other		041.99	1	46.33	0.05	0.07	1	46.33	0.05	0.07
Method Group 041.XX PCT			31	46.20	0.49	0.26	29	46.21	0.47	0.18
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	41.20	0.23	0.32	1	41.20	0.23	0.32
Water Soluble Phosphate, Spectrometric	970.01	048.20	4	42.18	0.45	0.05	4	42.18	0.45	0.05
Water Soluble Phosphate, Other		048.99	1	42.78	0.02	0.03	1	42.78	0.02	0.03
Method Group 048.XX PCT			6	42.12	0.61	0.09	5	42.30	0.47	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	11	62.38	0.26	0.15	10	62.40	0.24	0.09
Soluble Potash, STPB Citrate	969.04	050.10	2	62.02	0.23	0.34	2	62.02	0.23	0.34
Soluble Potash, AA (Oxalate)		050.30	6	62.21	1.54	0.87	6	62.21	1.54	0.87
Soluble Potash, ICP (Oxalate)		050.50	9	62.07	1.00	0.27	8	62.11	1.03	0.14
Soluble Potash, ICP (Citrate)		050.51	8	63.32	1.59	0.49	8	63.32	1.59	0.49
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	62.25	0.37	0.12	5	62.25	0.37	0.12

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Soluble Potash, Flame (Citrate)	983.02(b)	050.61	4	63.21	1.25	0.53	4	63.21	1.25	0.53
Soluble Potash, Other		050.99	14	61.51	1.56	0.60	13	61.57	1.58	0.49
Method Group 050.XX PCT			61	62.24	1.32	0.47	57	62.19	1.21	0.35
Free Water, Vacuum Oven	965.08B	060.00	4	2.75	0.09	0.08	4	2.75	0.09	0.08
Free Water, Karl Fischer	972.01	060.20	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Free Water, Other		060.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Method Group 060.XX PCT			7	1.58	1.41	0.05	6	1.38	1.43	0.02
Acid Soluble Calcium, AA	945.04	101.00	1	0.20	0.06	0.08	1	0.20	0.06	0.08
Acid Soluble Calcium, ICP		101.30	14	0.23	0.03	0.02	13	0.23	0.02	0.01
Acid Soluble Calcium, Other		101.99	1	0.25	0.00	0.00	1	0.25	0.00	0.00
Method Group 101.XX PCT			16	0.23	0.03	0.02	14	0.24	0.02	0.01
Acid Soluble Magnesium, AA	984.01	121.00	1	1.12	0.00	0.00	1	1.12	0.00	0.00
Acid Soluble Magnesium, ICP		121.30	16	1.07	0.09	0.02	16	1.07	0.09	0.02
Acid Soluble Magnesium, Other		121.99	1	0.96	0.09	0.13	1	0.96	0.09	0.13
Method Group 121.XX PCT			18	1.06	0.09	0.02	17	1.07	0.09	0.02
Water Soluble Magnesium, ICP		131.30	1	0.52	0.05	0.07	1	0.52	0.05	0.07
Sulfur, Gravimetric	980.02b	144.02	1	1.00	0.01	0.01	1	1.00	0.01	0.01
Sulfur, Other		144.99	13	1.04	0.08	0.03	12	1.02	0.06	0.02
Method Group 144.XX PCT			14	1.04	0.08	0.03	13	1.02	0.06	0.02
Arsenic, Atomic Absorption		151.00	2	20.20	1.26	1.60	2	20.20	1.26	1.60
Arsenic, ICP		151.30	9	19.24	2.38	0.76	9	19.24	2.38	0.76
Arsenic, Other		151.99	1	23.35	0.07	0.10	1	23.35	0.07	0.10
Method Group 151.XX PPM			12	19.74	2.40	0.85	12	19.74	2.40	0.85
Acid Soluble Boron, Other		165.99	4	0.017	0.013	0.002	4	0.017	0.013	0.002
Cadmium, Atomic Absorption		181.00	2	3.90	1.27	0.00	2	3.90	1.27	0.00
Cadmium, ICP		181.30	12	2.92	0.78	0.18	11	2.95	0.79	0.11
Cadmium, Other		181.99	2	3.05	0.19	0.10	2	3.05	0.19	0.10
Method Group 181.XX PPM			16	3.05	0.85	0.15	15	3.09	0.86	0.09
Chromium, Atomic Absorption		191.00	1	38.00	1.41	2.00	1	38.00	1.41	2.00
Chromium, ICP		191.30	10	94.69	19.93	5.15	9	93.66	20.06	2.17
Chromium, Other		191.99	1	105.50	0.71	1.00	1	105.50	0.71	1.00
Method Group 191.XX PPM			12	90.87	24.55	4.54	11	89.67	24.85	2.05
Acid Soluble Cobalt, AA		202.00	1	6.00	0.00	0.00	1	6.00	0.00	0.00
Acid Soluble Cobalt, ICP	965.11	202.30	11	3.54	0.65	0.28	10	3.55	0.66	0.21
Acid Soluble Cobalt, Other		202.99	1	3.65	0.04	0.05	1	3.65	0.04	0.05
Method Group 202.XX PPM			13	3.74	0.89	0.24	12	3.76	0.92	0.18
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	0.0004	0.0001	0.0002	1	0.0004	0.0001	0.0002
Acid Soluble Copper, ICP		221.30	7	0.0016	0.0025	0.0002	6	0.0008	0.0017	0.0001
Method Group 221.XX PCT			8	0.0014	0.0024	0.0002	7	0.0007	0.0015	0.0001

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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
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	1.09	0.02	0.02	1	1.09	0.02	0.02
Acid Soluble Iron, ICP		241.30	16	1.10	0.10	0.04	14	1.10	0.11	0.03
Acid Soluble Iron, Other		241.99	1	0.94	0.07	0.09	1	0.94	0.07	0.09
Method Group 241.XX PCT			18	1.09	0.11	0.04	17	1.09	0.11	0.04
Lead, Atomic Absorption		251.00	1	9.50	0.71	1.00	1	9.50	0.71	1.00
Lead, ICP		251.30	7	3.83	4.93	0.52	6	1.97	1.43	0.27
Lead, Other		251.99	1	1.03	0.01	0.02	1	1.03	0.01	0.02
Method Group 251.XX PPM			9	4.15	4.82	0.52	8	2.79	2.91	0.33
Acid Soluble Manganese, AA	972.02b	261.11	1	0.026	0.000	0.000	1	0.026	0.000	0.000
Acid Soluble Manganese, ICP	972.02a	261.30	11	0.027	0.002	0.001	11	0.027	0.002	0.001
Acid Soluble Manganese, Other		261.99	3	0.027	0.001	0.001	3	0.027	0.001	0.001
Method Group 261.XX PCT			15	0.027	0.002	0.001	15	0.027	0.002	0.001
Mercury, Atomic Absorption		281.00	1	0.02	0.01	0.01	1	0.02	0.01	0.01
Mercury, ICP		281.30	1	0.01	0.00	0.01	1	0.01	0.00	0.01
Method Group 281.XX PPM			2	0.01	0.01	0.01	2	0.01	0.01	0.01
Molybdenum, ICP		289.30	12	13.36	1.49	0.65	11	13.32	1.51	0.51
Molybdenum, Other		289.99	1	15.30	0.00	0.00	1	15.30	0.00	0.00
Method Group 289.XX PPM			13	13.51	1.52	0.60	11	13.43	1.58	0.33
Nickel, Atomic Absorption		291.00	1	20.00	0.00	0.00	1	20.00	0.00	0.00
Nickel, ICP		291.30	11	15.45	2.68	0.95	10	14.93	2.01	0.50
Nickel, Other		291.99	1	17.55	0.07	0.10	1	17.55	0.07	0.10
Method Group 291.XX PPM			13	15.96	2.79	0.82	12	15.57	2.40	0.43
Selenium, ICP		301.30	3	1.21	0.80	0.40	3	1.21	0.80	0.40
Selenium, Other		301.99	1	0.08	0.00	0.00	1	0.08	0.00	0.00
Method Group 301.XX PPM			4	0.93	0.86	0.30	4	0.93	0.86	0.30
Sodium, Other		311.99	8	0.17	0.02	0.01	8	0.17	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	4	0.004	0.001	0.000	4	0.004	0.001	0.000
Acid Soluble Zinc, ICP		321.30	14	0.005	0.001	0.000	13	0.005	0.001	0.000
Acid Soluble Zinc, Other		321.99	3	0.005	0.001	0.000	3	0.005	0.001	0.000
Method Group 321.XX PCT			21	0.005	0.001	0.000	20	0.005	0.001	0.000
Water Soluble Zinc, Other		325.99	1	0.004	0.000	0.000	1	0.004	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: 001.XX PCT			Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
498	17.95	1.54	200	17.08	-.27	023	18.35	2.47	230	17.70	-.49	406	18.08	1.25
486	17.60	.78	420	16.62	-1.26	307	18.08 R	1.66	389	17.75	-.52	291	18.07	1.21
405	17.37	.23	444	16.50	-1.54	423	18.13	1.48	231	17.67	-.63	131	18.06	1.20
105	17.29	.05	230	16.35 R	-2.10	406	18.08	1.23	402	17.70	-.67	498	18.05	1.17
Avg	17.27		368	16.17	-2.28	291	18.07	1.18	486	17.67	-.71	275	18.05	1.14
090	17.09	-.40	Meth: 009.10 PCT			131	18.06	1.16	292	17.64	-.76	157	17.85 R	1.08
200	17.08	-.45	Ammon & Nitrate N			157	17.85 R	1.16	351	17.62	-.83	354	18.01	1.08
444	16.50	-1.76	<u>Devarda</u>			275	18.05	1.10	324	17.60	-.94	025	18.02	1.03
230	16.35 R	-2.31	258	17.86	1.26	354	18.01	1.05	483	17.61	-.95	452	18.02	1.00
Meth: 001.99 PCT			Avg	17.13		443	17.90	1.01	234	17.60	-.97	443	17.90 R	.98
Ammoniacal Nitrogen			117	16.90	-.40	025	18.02	.98	007	17.70	-1.03	055	18.00	.92
<u>Other</u>			309	16.63	-.87	452	18.02	.95	472	17.55	-1.19	136	17.96	.79
493	17.50	.92	444	16.58 R	-1.08	055	18.00	.86	450	17.45	-1.76	489	17.95	.76
169	17.49	.87	Meth: 010.11 PCT			136	17.96	.72	451	17.39	-2.00	360	17.95	.73
500	17.31	.24	Total Nitrogen			040	17.85	.71	095	17.34	-2.16	390	17.95	.72
096	17.29	.19	<u>Modified Comprehensi</u>			489	17.95	.69	482	17.45 R	-2.28	409	17.95	.72
409	17.26	.07	105	17.86	1.13	360	17.95	.65	102	17.27	-2.51	040	17.85	.70
Avg	17.24		090	17.82	.96	390	17.95	.64	034	17.08 s	-3.38	420	17.91	.62
371	17.24	-.07	470	17.78	.80	409	17.95	.64	422	16.60 s	-5.57	029	17.91	.60
420	16.62	-2.19	309	17.65	.38	029	17.91	.52	042	16.51 s	-6.05	494	17.90	.57
368	16.17 R	-3.79	Avg	17.57		494	17.90	.50	Meth: 010.99 PCT			377	17.88	.46
Meth: 001.XX PCT			114	17.56	-.06	377	17.88	.36	Total Nitrogen			105	17.86	.44
<u>Ammoniacal Nitrogen</u>			371	17.51	-.31	325	17.85	.30	Other			049	17.87	.29
498	17.95	1.71	200	17.33	-.96	105	17.85	.27	500	18.11	1.26	325	17.85	.38
486	17.60	.95	211	17.08	-1.88	177	17.82	.24	420	17.91	.56	105	17.85	.35
493	17.50	.71	474	11.42 s	-23.50	405	17.85	.19	Avg	17.77		405	17.85	.30
169	17.49	.69	Meth: 010.12 PCT			485	17.82	.05	460	17.54	-.88	368	17.81	.29
405	17.37	.42	Total Nitrogen			Avg	17.81		300	17.53	-.91	177	17.82	.28
500	17.31	.28	<u>Salicylic</u>			086	17.80	-.18	487	17.33 S	-2.58	090	17.82	.26
096	17.29	.24	498	18.05	.87	043	17.77	-.19	Meth: 010.XX PCT			086	17.80	.20
105	17.29	.24	Avg	17.77		247	17.77	-.20	Total Nitrogen			485	17.82	.18
409	17.26	.16	185	17.50	-.86	368	17.81	-.28	023	18.35	2.38	470	17.78	.05
371	17.24	.14	Meth: 010.12 PCT			035	17.75	-.41	307	18.08 R	1.61	Avg	17.77	
Avg	17.18		Total Nitrogen			096	17.76	-.41	423	18.13	1.48	043	17.77	-.04
090	17.09	-.21	<u>Salicylic</u>			073	17.72	-.42	500	18.11	1.40	247	17.77	-.07
						041	17.74 X	-.47				073	17.72	-.25
												035	17.75	-.29
												230	17.70	-.30

* 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: 020.10 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>		
096	17.76	-.32	<u>Grav Quimociac</u>			<u>ICP</u>			292 46.60 .58			<u>Spectrometric</u>		
041	17.74 X	-.36	470	46.52	.44	390	50.87 s	7.61	035	46.42	.58	405 0.08 -.71		
389	17.75	-.43	Avg	46.46		291	48.42 S	3.59	258	46.60	.58	Meth: 030.40 PCT		
231	17.67	-.43	090	46.45	-.27	368	47.22	1.65	247	46.60	.57	<u>Insoluble Phosphate</u>		
402	17.70	-.51	493	46.33	-.91	451	46.58	.64	444	46.53	.45	<u>Automated</u>		
486	17.67	-.52	322	46.25	-1.42	247	46.60	.63	470	46.52	.40	096 0.04 .00		
292	17.64	-.56	157	45.50 s	-6.52	402	46.51	.49	402	46.51	.40	Meth: 030.50 PCT		
309	17.65	-.59	Meth: 020.20 PCT			389	46.30	.21	409	46.50	.36	<u>Insoluble Phosphate</u>		
351	17.62	-.62	<u>Total Phosphate</u>			Avg	46.22		498	46.35	.32	<u>ICP</u>		
324	17.60	-.72	<u>Spectrometric</u>			483	45.95	-.48	470	46.47	.31	247 0.06 1.12		
483	17.61	-.73	450	47.75 s	2.85	025	45.95	-.50	090	46.45	.27	Avg 0.05		
234	17.60	-.74	406	47.79	2.80	422	45.65	-1.01	Avg	46.33		409 0.04 -.50		
007	17.70 R	-.88	292	46.60	.61	482	45.20	-1.78	493	46.33	-.05	Meth: 030.XX PCT		
114	17.56	-.90	258	46.60	.60	472	44.45 S	-2.91	231	46.33	-.07	<u>Insoluble Phosphate</u>		
472	17.55	-.95	498	46.35	.31	307	42.89 S	-5.78	405	46.29	-.10	405 0.08 1.14		
460	17.54	-.98	231	46.33	.11	474	13.20 s	-53.95	096	46.29	-.15	247 0.06 1.09		
300	17.53	-1.01	405	46.29	.05	Meth: 020.99 PCT			389	46.30	-.22	Avg 0.05		
371	17.51	-1.13	Avg	46.28		<u>Total Phosphate</u>			234	46.24	-.25	409 0.04 -.72		
185	17.50	-1.15	234	46.24	-.16	<u>Other</u>			371	46.10	-.47	096 0.04 -.72		
450	17.45	-1.48	371	46.10	-.33	487	46.60	1.53	489	46.10	-.52	Meth: 040.20 PCT		
451	17.39	-1.69	169	46.08	-.38	Avg	46.03		169	46.08	-.52	<u>InDir Available Phos</u>		
095	17.34	-1.82	489	46.10	-.38	460	45.84	-.48	483	45.95	-.83	<u>Spectrometri</u>		
200	17.33	-1.87	309	45.84	-.82	486	45.96	-.52	025	45.95	-.84	405 46.21 .71		
482	17.45 R	-1.97	420	45.75	-.99	500	45.71	-.81	486	45.96	-.86	Meth: 040.40 PCT		
102	17.27	-2.14	200	45.57	-1.31	Meth: 020.XX PCT			460	45.84	-1.02	<u>InDir Available Phos</u>		
487	17.33 s	-2.86	324	20.10 s	-48.52	<u>Total Phosphate</u>			460	45.84	-1.02	<u>Spectrometri</u>		
211	17.08	-2.87	Meth: 020.40 PCT			390	50.87 s	9.47	309	45.84	-1.02	405 46.21 .71		
034	17.08 A	-2.93	<u>Total Phosphate</u>			420	45.75	-1.22	420	45.75	-1.22	Meth: 040.20 PCT		
422	16.60 s	-4.93	<u>Automated</u>			500	45.71	-1.28	500	45.71	-1.28	<u>InDir Available Phos</u>		
042	16.51 s	-5.37	247	46.70	1.32	422	45.65	-1.50	422	45.65	-1.50	<u>Automated</u>		
474	11.42 s	-26.34	409	46.50	.14	450	47.75 s	3.11	200	45.57	-1.58	247 46.64 1.06		
Meth: 020.10 PCT			470	46.47	-.11	406	47.79	3.05	157	45.50	-1.73	409 46.46 .12		
<u>Total Phosphate</u>			Avg	46.49		114	47.33	2.12	482	45.20 R	-2.49	Avg 46.45		
<u>Grav Quimociac</u>			096	46.29	-1.32	368	47.22	1.87	042	44.71 s	-3.54	096 46.26 -1.17		
114	47.33 s	6.04	035	46.42 R	-1.73	247	46.70	.78	472	44.45 s	-3.94			
211	46.66	1.38	042	44.71 s	-11.67	211	46.66	.69	307	42.89 s	-7.59			
444	46.53	.69				487	46.60	.68	324	20.10 s	-54.59			
						451	46.58	.62	474	13.20 s	-68.97			

* 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: 040.50 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 048.10 PCT			Meth: 050.00 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>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Grav Quimociac</u>			<u>STPB Oxalate</u>		
247	46.54	.71	423	46.40	.65	023	47.22	2.21	444	41.20	-.71	494	62.21	-.88
			354	46.31	.59	029	46.93	1.55				231	62.11	-1.31
			Avg	45.99		360	46.26 R	1.25				258	62.09	-1.33
Meth: 040.XX PCT			Meth: 041.10 PCT			Meth: 041.60 PCT			Meth: 048.20 PCT			Meth: 050.10 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>		
<u>ICP</u>			<u>EDTA Extract</u>			<u>EDTA Extract</u>			<u>Spectrometric</u>			<u>STPB Citrate</u>		
247	46.64	1.23	043	45.89	-.21	041	46.63 X	.95				230	62.15 R	-1.80
247	46.54	.70	055	45.71	-.43	377	46.60	.93	420	42.73	1.20	485	61.38 s	-4.59
409	46.46	.24	452	45.59	-.61	231	46.55	.72	096	42.47	.62	049	61.47 s	-7.04
Avg	46.42		325	45.60	-.66	354	46.31	.52	Avg	42.18				
096	46.26	-.99	368	45.25	-1.15	034	46.45	.50	405	41.79	-.88			
405	46.21	-1.21	486	45.08	-1.38	423	46.40	.47	409	41.76	-.94			
			007	43.30 s	-4.27	177	46.40	.41						
						136	46.26	.32				444	62.09	.49
						043	46.36	.30				Avg	62.02	
Meth: 041.10 PCT			Meth: 041.60 PCT			Meth: 048.99 PCT			Meth: 050.30 PCT			Meth: 050.31 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>Grav Quimociac</u>			<u>EDTA Extract</u>			<u>Other</u>			<u>Other</u>			<u>AA (Oxalate)</u>		
102	50.70 s	26.69	029	46.93	1.84	105	46.33	.27	247	42.78	.71	073	63.53	1.16
485	46.70	2.28	231	46.55	.64	040	46.30	.18				185	63.80	1.04
041	46.63 R	2.12	034	46.45	.36	055	46.30	.18				040	63.05	.62
177	46.40	.51	043	46.36	.05	105	46.27	.16				Avg	62.21	
Avg	46.32		Avg	46.34		493	46.25	.07				136	61.55	-.43
040	46.30	-.12	136	46.26	-.51	Avg	46.21					157	61.30	-.67
055	46.30	-.18	177	46.17	-.54	185	46.20	-.05				498	60.00	-1.43
493	46.25	-.46	494	46.01	-1.06	049	46.17	-.13						
105	46.27	-.48	105	46.01	-1.38	177	46.17	-.13						
185	46.20	-.77	073	45.88 R	-2.83	494	46.01	-.49						
049	46.17	-.97	472	42.45 s	-11.93	043	45.89	-.73						
						105	46.01	-.79						
						055	45.71	-1.08						
						452	45.59	-1.34						
Meth: 041.40 PCT			Meth: 041.99 PCT			Meth: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.50 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>Automated</u>			<u>Other</u>			<u>STPB Oxalate</u>			<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>		
095	46.33	-.71	073	45.88 R	-1.86	405	62.73	1.37	472	51.50 S	.00	157	63.30	1.16
			368	45.25	-2.09	470	62.65	1.01				420	63.16	1.04
			486	45.08	-2.42	090	62.61	.90				291	62.71	.58
			Avg	46.33		102	62.60	.82				324	62.45	.37
Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 041.50 PCT			Meth: 041.50 PCT			Meth: 041.50 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>ICP</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
023	47.22	1.90	102	50.70 s	9.54	114	62.50	.47	211	62.30	-.43			
377	46.60	.97	230	47.90 s	3.81	Avg	62.40		489	62.25	-.67			
360	46.26	.97												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.99 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Free Water		
<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>									<u>Other</u>		
Avg	62.11		034	62.15	-.85	157	63.30	.91	377	61.75	-.42	368	0.03	.00
354	62.06	-.04	095	62.06	-.93	420	63.16	.81	200	61.66	-.45	443	13.88 S	.00
055	61.97	-.15				040	63.05	.80	136	61.55	-.53	Avg	0.03	
422	61.75 R	-.72	Meth: 050.99 PCT			043	62.26	.53	422	61.75	-.65			
406	60.98	-1.11	Soluble Potash			177	62.76	.50	485	61.38	-.75	Meth: 060.XX PCT		
292	60.23	-1.83	<u>Other</u>			405	62.73	.44	157	61.30	-.85	<u>Free Water</u>		
390	57.80 S	-4.20	307	66.45 s	3.73	291	62.71	.42	406	60.98	-1.01	443	13.88 s	8.77
			487	65.97 S	2.83	470	62.71	.42	360	60.98	-1.12	409	2.84	1.02
			025	64.25	1.70	470	62.65	.37	049	61.47 R	-1.31	096	2.77 R	.98
Meth: 050.51 PCT			234	63.36	1.14	090	62.61	.35	450	60.68 R	-1.49	105	2.74	.95
Soluble Potash			177	62.76	.77	102	62.60	.34	460	60.25	-1.62	007	2.66	.89
<u>ICP (Citrate)</u>			043	62.26	.59	043	62.54	.29	292	60.23	-1.63	Avg	1.38	
007	65.80	1.61	368	62.39	.55	368	62.39	.27	325	60.20	-1.72	368	0.03	-.95
483	65.23	1.25	451	62.07	.32	114	62.50	.25	498	60.00	-1.82	405	0.02	-.96
023	64.59	.80	027	61.92	.22	324	62.45	.24	402	59.28	-2.43	234	0.01	-.96
Avg	63.32		389	61.78	.15	105	62.43	.21	322	58.92	-2.71			
043	62.54	-.49	Avg	61.57		452	62.36	.15	390	57.80 s	-3.64			
452	62.36	-.60	360	60.98	-.53	309	62.25	.10	472	51.50 s	-9.60	Meth: 101.00 PCT		
486	62.18	-.73	450	60.68 R	-.84	211	62.30	.09	474	14.36 s	-39.58	Acid Soluble Calcium		
423	62.10	-.77	460	60.25	-.85	169	62.20	.07				<u>AA</u>		
377	61.75	-1.00	325	60.20	-.95	494	62.21	.06	Meth: 060.00 PCT			105	0.20	-.71
			402	59.28	-1.47	489	62.25	.06	Free Water			Meth: 101.30 PCT		
Meth: 050.60 PCT			322	58.92	-1.68	Avg	62.19		<u>Vacuum Oven</u>			Acid Soluble Calcium		
Soluble Potash			474	14.36 s	-29.97	423	62.10	-.09	096	2.77	1.11	<u>ICP</u>		
<u>Flame (Oxalate)</u>						258	62.09	-.10	409	2.84	1.07	474	0.70 s	21.57
470	62.71	1.23	Meth: 050.XX PCT			451	62.07	-.10	Avg	2.75		390	0.34 s	4.93
105	62.43	.54	<u>Soluble Potash</u>			354	62.06	-.11	105	2.74	-.23	041	0.30 s	4.51
Avg	62.25		307	66.45 s	4.45	444	62.09	-.11	007	2.66	-1.03	354	0.27	1.79
169	62.20	-.27	487	65.97 s	3.18	231	62.11	-.11	405	0.02 s	-29.74	409	0.26	1.18
309	62.25	-.28	007	65.80 A	3.02	034	62.15	-.13	Meth: 060.20 PCT			472	0.24	1.17
200	61.66	-1.59	483	65.23	2.55	486	62.18	-.14	Free Water			307	0.24	1.09
			029	64.61	2.06	055	61.97	-.19	<u>Karl Fischer</u>			096	0.26	.98
Meth: 050.61 PCT			023	64.59	1.98	095	62.06	-.20	234	0.01	.71	423	0.24	.52
Soluble Potash			025	64.25	1.70	027	61.92	-.23				035	0.24	.06
<u>Flame (Citrate)</u>			035	64.00	1.50	041	61.95 X	-.29				Avg	0.23	
029	64.61	1.22	073	63.53 R	1.49	230	62.15	-.29				389	0.23	-.22
035	64.00	.64	185	63.80	1.34	389	61.78	-.36				102	0.22	-.51
Avg	63.21													

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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 Acid Soluble Calcium			Meth: 121.00 PCT Acid Soluble Magnesi			Meth: 121.XX PCT Acid Soluble Magnesi			Meth: 144.99 PCT Sulfur			Meth: 151.30 PPM Arsenic		
<u>ICP</u>			<u>AA</u>			<u>ICP</u>			<u>Other</u>			<u>ICP</u>		
494	0.22	-.70	105	1.12	-.71	409	1.10	.36	409	1.04	.26	095	23.00	1.58
482	0.22	-.96				494	1.07	.11	247	1.04	.20	247	21.00	.74
420	0.21	-1.02	Meth: 121.30 PCT			247	1.07	-.07	Avg	1.02		102	20.75	.66
247	0.21	-1.16	Acid Soluble Magnesi			307	1.05	-.23	472	1.01	-.23	450	20.30	.48
027	0.16 R	-3.82	<u>ICP</u>			482	1.06	-.23	482	1.01	-.40	368	19.64	.35
			474	2.01 s	10.57	102	1.05	-.26	307	0.98	-.72	Avg	19.24	
Meth: 101.99 PCT			472	1.28	2.34	389	1.04	-.33	096	0.98	-.80	041	18.80 X	-.46
Acid Soluble Calcium			390	1.17	1.19	096	1.03	-.46	102	0.94	-1.30	486	17.80	-.62
<u>Other</u>			041	1.16 X	1.01	423	1.01	-.67	354	0.94	-1.34	230	16.55	-1.15
105	0.25	.71	035	1.12	.58	420	1.01	-.68				096	15.30	-1.65
Meth: 101.XX PCT			409	1.10	.38	027	1.00	-.84	Meth: 144.XX PCT			474	2.50 s	-7.04
Acid Soluble Calcium			494	1.07	.12	105	0.96 R	-1.41	<u>Sulfur</u>					
474	0.70 s	22.13	Avg	1.07		354	0.86	-2.38	474	13.07 s	202.85	Meth: 151.99 PPM		
390	0.34 s	5.03	247	1.07	-.06	Meth: 131.30 PCT			422	1.22 R	3.43	Arsenic		
041	0.30 s	4.61	307	1.05	-.19	Water Soluble Magnes			390	1.16	2.24	<u>Other</u>		
354	0.27	1.81	482	1.06	-.21	<u>ICP</u>			035	1.09	1.09	409	23.35	-.71
409	0.26	1.17	102	1.05	-.22	027	0.52	.71	389	1.06	.81	Meth: 151.XX PPM		
307	0.24	1.11	389	1.04	-.29	Meth: 144.02 PCT			423	1.06	.66	<u>Arsenic</u>		
096	0.26	.96	096	1.03	-.41	Sulfur			409	1.04	.31	409	23.35	1.50
105	0.25	.52	423	1.01	-.62	<u>Gravimetric</u>			247	1.04	.24	095	23.00	1.36
423	0.24	.50	420	1.01	-.64	292	1.00	.71	Avg	1.02		247	21.00	.53
035	0.24	.02	027	1.00	-.79	Meth: 144.70 PCT			472	1.01	-.20	136	20.85	.50
Avg	0.24		354	0.86	-2.30	Sulfur			482	1.01	-.38	102	20.75	.46
389	0.23	-.27	Meth: 121.99 PCT			Meth: 144.70 PCT			292	1.00	-.46	450	20.30	.29
102	0.22	-.57	Acid Soluble Magnesi			Sulfur			307	0.98	-.70	Avg	19.74	
494	0.22	-.76	<u>Other</u>			<u>Spectrometric</u>			096	0.98	-.79	368	19.64	-.31
482	0.22	-1.02	105	0.96	.71	474	13.07 S	.00	102	0.94	-1.30	498	19.55	-.49
420	0.21	-1.09	Meth: 121.XX PCT			Meth: 144.99 PCT			354	0.94	-1.35	041	18.80 X	-.57
472	0.24	-1.20	Acid Soluble Magnesi			Sulfur			Meth: 151.00 PPM			486	17.80	-.82
247	0.21	-1.23	474	2.01 s	10.76	<u>Other</u>			Arsenic			230	16.55	-1.35
105	0.20 R	-2.62	472	1.28	2.36	422	1.22 R	3.29	<u>Atomic Absorption</u>			096	15.30	-1.85
027	0.16 A	-3.97	390	1.17	1.18	390	1.16	2.14	136	20.85	.63	474	2.50 s	-7.19
			041	1.16 X	1.00	035	1.09	1.02	Avg	20.20				
			105	1.12	.57	389	1.06	.76	498	19.55	-1.05			
			035	1.12	.55	423	1.06	.61						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 165.99 PCT			Meth: 181.XX PPM			Meth: 191.99 PPM			Meth: 202.30 PPM			Meth: 221.30 PCT					
<u>Acid Soluble Boron</u>			<u>Cadmium</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>					
<u>Other</u>			<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>ICP</u>					
354	0.030	1.08	200	5.00 X	2.23	409	105.50	.71	096	2.60	-1.42	095	0.0001	-.40			
389	0.026	.79	035	4.60	1.77	Meth: 191.XX PPM			Meth: 202.99 PPM			354	0.0000	-.46			
Avg	0.017		247	4.00	1.06	<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			041	0.0000 X	-.46			
423	0.005	-.91	482	3.65	.66	035 116.50 1.08			409 3.65 .71			Meth: 221.99 PCT					
409	0.005	-.94	409	3.19	.12	041 104.00 R .86			Meth: 202.XX PPM			<u>Acid Soluble Copper</u>					
Meth: 181.00 PPM			102 2.99 -.11			041 108.63 .76			Meth: 202.XX PPM			<u>Other</u>					
Cadmium			487 2.90 -.25			409 105.50 .64			<u>Acid Soluble Cobalt</u>			409 0.6600 S .00					
<u>Atomic Absorption</u>			041 2.88 X -.34			096 105.20 .63			200 6.00 X 2.44			Meth: 221.XX PCT					
200	5.00 X	.87	450 2.80 -.34	482 101.25 .47			474 5.00 1.35			<u>Acid Soluble Copper</u>			409 0.6600 s 431.31				
Avg	3.90		136 2.80 -.34	368 100.59 .44			102 4.10 .39			474 0.0063 R 3.62			368 0.0043 2.35				
136	2.80	-.87	230 2.53 -.66	450 97.50 .32			494 3.78 .18			200 0.0004 X -.22			450 0.0001 -.40				
Meth: 181.30 PPM			486 2.45 -.75			Avg 89.67			Avg 3.76			095 0.0001 -.40			041 0.0000 X -.47		
Cadmium			368 2.34 -.88			230 85.00 -.19			409 3.65 -.13			374 0.0007			354 0.0000 -.47		
<u>ICP</u>			095 2.50 R -.91			486 81.25 -.34			368 3.59 -.19			200 0.0004 X -.22			Meth: 241.00 PCT		
035	4.60	2.08	474 2.00 -1.28	474 47.00 -1.72			482 3.50 -.36			482 3.50 -.36			<u>Acid Soluble Iron</u>				
247	4.00	1.32	Meth: 191.00 PPM			200 38.00 X -2.08			041 3.52 X -.43			105 1.09 -.71			Meth: 241.30 PCT		
482	3.65	.88	Chromium			Meth: 202.00 PPM			035 3.28 -.54			774 1.25 1.41			Acid Soluble Iron		
102	2.99	.05	<u>Atomic Absorption</u>			Acid Soluble Cobalt			095 3.50 R -.61			035 1.19 R 1.08			<u>Atomic Absorption</u>		
Avg	2.95		200 38.00 X .71			<u>AA</u>			450 3.20 -.62			390 1.21 1.07			482 1.14 .40		
450	2.80	-.19	Meth: 191.30 PPM			200 6.00 X .00			230 2.90 -.94			307 1.10 .26			472 1.11 .15		
041	2.88 X	-.27	Chromium			Meth: 202.30 PPM			096 2.60 -1.26			Meth: 221.00 PCT			Acid Soluble Iron		
230	2.53	-.54	<u>ICP</u>			Acid Soluble Cobalt			Meth: 221.00 PCT			<u>Atomic Absorption</u>			105 1.09 -.71		
486	2.45	-.64	035 116.50 1.15			<u>ICP</u>			Acid Soluble Copper			200 0.0004 X .71			Meth: 241.30 PCT		
368	2.34	-.77	041 104.00 R .95			474 5.00 2.19			<u>Atomic Absorption</u>			Meth: 221.30 PCT			Acid Soluble Iron		
095	2.50 R	-.85	102 108.63 .75			102 4.10 .84			200 0.0004 X .71			Acid Soluble Copper			ICP		
096	2.25	-.89	096 105.20 .58			494 3.78 .43			Meth: 221.30 PCT			041 1.28 X 1.67			420 1.25 1.41		
474	2.00	-1.20	482 101.25 .39			368 3.59 .06			Acid Soluble Copper			035 1.19 R 1.08			390 1.21 1.07		
Meth: 181.99 PPM			368 100.59 .35			Avg 3.55			Meth: 221.30 PCT			482 1.14 .40			307 1.10 .26		
Cadmium			450 97.50 .19			482 3.50 -.31			Acid Soluble Copper			041 1.28 X 1.67			472 1.11 .15		
<u>Other</u>			Avg 93.66			035 3.28 -.44			<u>ICP</u>			420 1.25 1.41			035 1.19 R 1.08		
409	3.19	.78	230 85.00 -.44			041 3.52 X -.48			474 0.0063 R 3.31			035 1.19 R 1.08			390 1.21 1.07		
Avg	3.05		486 81.25 -.62			450 3.20 -.54			368 0.0043 2.14			482 1.14 .40			307 1.10 .26		
487	2.90	-.95	474 47.00 -2.33			095 3.50 R -.76			Avg 0.0008			450 0.0001 -.40			472 1.11 .15		
						230 2.90 -.98			450 0.0001 -.40								

* 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: 241.30 PCT</u>			<u>Meth: 241.XX PCT</u>			<u>Meth: 261.11 PCT</u>			<u>Meth: 261.XX PCT</u>			<u>Meth: 289.30 PPM</u>		
<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>		
<u>ICP</u>			<u>ICP</u>			<u>AA</u>			<u>ICP</u>			<u>ICP</u>		
389	1.11	.07	354	0.84	-2.31	105	0.026	.71	423	0.027	.27	Avg	13.32	
409	1.10	.01	474	0.36 s	-6.92				102	0.027	.18	102	13.26	-.07
Avg	1.10		<u>Meth: 251.00 PPM</u>			<u>Meth: 261.30 PCT</u>			Avg	0.027		389	0.026	-.35
494	1.10	-.16	<u>Lead</u>			<u>Acid Soluble Manganese</u>			105	0.026	-.36	105	0.026	-.39
423	1.06	-.40	<u>Atomic Absorption</u>			<u>ICP</u>			105	0.026	-.39	096	0.026	-.41
247	1.05	-.47	200	9.50 X	.71	474	0.367 s	137.71	096	0.026	-.41	494	0.026	-.52
096	1.03	-.66	<u>Meth: 251.30 PPM</u>			482	0.030	1.32	494	0.026	-.52	420	0.025	-.78
102	1.07 R	-.71	<u>Lead</u>			390	0.030	1.26	354	0.021	-2.68	027	0.015 s	-5.50
027	1.03	-.81	<u>ICP</u>			041	0.029 X	.74	027	0.015 s	-5.50	<u>Meth: 289.99 PPM</u>		
354	0.84	-2.42	474	15.00 R	9.15	307	0.028	.37	<u>Meth: 281.00 PPM</u>			<u>Molybdenum</u>		
474	0.36 s	-7.00	095	4.50	1.81	035	0.028	.36	<u>Mercury</u>			<u>Other</u>		
<u>Meth: 241.99 PCT</u>			041	2.96 X	.70	102	0.027	.14	<u>Atomic Absorption</u>			409	15.30	.00
<u>Acid Soluble Iron</u>			Avg	1.97		389	0.026	-.31	<u>Meth: 289.XX PPM</u>			<u>Molybdenum</u>		
<u>Other</u>			450	1.45	-.36	096	0.026	-.37	230	0.02	.71	035	15.60	1.42
105	0.94	.71	096	1.35	-.43	494	0.026	-.46	<u>Meth: 281.30 PPM</u>			409	15.30	1.18
<u>Meth: 241.XX PCT</u>			102	0.88	-.76	420	0.025	-.69	<u>Mercury</u>			368	14.99	.99
<u>Acid Soluble Iron</u>			486	0.65	-.92	354	0.021	-2.33	<u>ICP</u>			041	13.90 R	.76
041	1.28 X	1.79	<u>Meth: 251.99 PPM</u>			027	0.015 s	-4.78	450	0.01	.71	095	14.00 R	.73
420	1.25	1.53	<u>Lead</u>			<u>Meth: 261.99 PCT</u>			<u>Meth: 281.XX PPM</u>			247	14.00	.36
390	1.21	1.19	<u>Other</u>			<u>Acid Soluble Manganese</u>			<u>Mercury</u>			450	13.85	.28
035	1.19 R	1.17	409	1.03	.71	<u>Other</u>			230	0.02	.89	494	13.52	.07
482	1.14	.51	<u>Meth: 251.XX PPM</u>			409	0.027	.84	Avg	0.01		Avg	13.43	
307	1.10	.31	<u>Lead</u>			423	0.027	.55	450	0.01	-.84	102	13.26	-.12
472	1.11	.22	474	15.00 R	4.20	Avg	0.027		<u>Meth: 289.30 PPM</u>			433	12.95	-.32
494	1.10	.18	200	9.50 X	2.31	105	0.026	-1.22	<u>Molybdenum</u>			486	12.15	-.82
389	1.11	.18	095	4.50	.61	<u>Meth: 261.XX PCT</u>			230	11.95	-.95	230	11.95	-.95
409	1.10	.12	041	2.96 X	.06	<u>Acid Soluble Manganese</u>			096	10.20	-2.05	096	10.20	-2.05
Avg	1.09		Avg	2.79		474	0.367 s	158.97	474	3.00 s	-6.60	<u>Meth: 291.00 PPM</u>		
105	1.09	-.11	450	1.45	-.46	482	0.030	1.53	035	15.60	1.56	<u>Nickel</u>		
423	1.06	-.28	096	1.35	-.49	390	0.030	1.47	368	14.99	1.12	<u>Atomic Absorption</u>		
247	1.05	-.35	409	1.03	-.60	041	0.029 X	.87	041	13.90 R	.83	<u>200 20.00 X .00</u>		
096	1.03	-.55	102	0.88	-.66	307	0.028	.43	095	14.00	.80			
102	1.07	-.67	486	0.65	-.73	035	0.028	.42	247	14.00	.45			
027	1.03	-.72				409	0.027	.38	450	13.85	.37			
105	0.94	-1.49							494	13.52	.14			

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 291.30 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 321.00 PCT Acid Soluble Zinc			Meth: 321.XX PCT Acid Soluble Zinc					
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>								
041	22.95 s	4.89	486	26.20 S	31.12	105	0.005	.91	474	0.210 s	175.13	292	0.005 s	4.27
035	20.65 R	3.16	368	2.13	1.27	043	0.004	.79	096	0.009 s	3.66	354	0.008	2.79
247	17.00	1.03	Avg	1.21		Avg	0.004		035	0.006 R	1.25	041	0.006 X	1.08
102	16.93	1.00	095	1.00	-.26	498	0.003	-.32	460	0.006	.96	409	0.005	.66
368	16.74	.90	041	0.50 X	-.90	200	0.002 X	-1.40	433	0.005	.49	368	0.005	.37
095	16.00	.73	Meth: 301.99 PPM Selenium			Meth: 321.30 PCT Acid Soluble Zinc			102	0.005	.23	307	0.005	.23
450	16.00	.53	<u>Other</u>			<u>ICP</u>			420	0.005	.17	Avg	0.005	
474	15.50	.38	485	0.08	.71	474	0.210 s	189.51	390	0.005	-1.23	200	0.002 X	-2.28
Avg	14.93		Meth: 301.XX PPM Selenium			292	0.005 S	4.62	420	0.005	-.11	389	0.004	-.71
482	14.30	-.37	486	26.20 s	29.52	096	0.009 S	3.75	230	0.004	-.99	498	0.003	-1.23
230	13.00	-.96	368	2.13	1.50	354	0.008	2.80	247	0.005	-.21	105	0.005	-.26
486	12.20	-1.36	095	1.00	.09	035	0.006 R	1.14	043	0.004	-.24	450	0.004	-.29
096	11.60	-1.66	Avg	0.93		041	0.006 X	.95	105	0.004	-.29	095	0.004	-.29
Meth: 291.99 PPM Nickel			041	0.50 X	-.52	433	0.005	.31	450	0.004	-.29	105	0.004	-.33
<u>Other</u>			485	0.08	-.99	368	0.005	.22	095	0.004	-.29	105	0.004	-.33
409	17.55	.71	Meth: 311.99 PCT Sodium			102	0.005	.03	105	0.004	-.29	389	0.004	-.71
Meth: 291.XX PPM Nickel			485	0.08	-.99	Avg	0.005		230	0.004	-.99	230	0.004	-.99
041	22.95 s	3.88	<u>Other</u>			420	0.005	-.11	498	0.003	-1.23	498	0.003	-1.23
035	20.65 R	2.41	474	0.38 s	8.51	390	0.005	-.43	200	0.002 X	-2.28	200	0.002 X	-2.28
200	20.00 X	1.85	354	0.22	2.23	247	0.005	-.44	Meth: 325.99 PCT Water Soluble Zinc					
409	17.55	.83	409	0.19	.69	095	0.004	-.53	<u>Other</u>					
247	17.00	.60	Avg	0.17		450	0.004	-.53	450	0.004 X	.71			
102	16.93	.58	035	0.17	-.21	389	0.004	-.99						
368	16.74	.49	096	0.17	-.27	230	0.004	-1.29						
095	16.00	.45	102	0.16	-.36	Meth: 321.99 PCT Acid Soluble Zinc								
450	16.00	.18	423	0.15	-.61	<u>Other</u>								
Avg	15.57		494	0.15	-.62	460	0.006	.88						
474	15.50	-.21	482	0.15	-1.02	409	0.005	.54						
482	14.30	-.55				Avg	0.005							
230	13.00	-1.07				105	0.004	-1.20						
486	12.20	-1.41												
096	11.60	-1.66												

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

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	8	- 0.26	1.20	0.39	101.30	17	1.51	5.47	1.07
001.99	8	- 0.47	1.64	0.19	101.XX	18	1.39	5.48	1.15
001.XX	16	- 0.12	1.08	0.28	121.30	17	0.62	2.74	0.15
009.10	4	- 0.24	1.03	0.25	121.XX	18	0.55	2.72	0.29
009.XX	4	- 0.24	1.03	0.25	144.99	13	0.24	1.29	0.36
010.11	9	- 2.61	7.89	0.15	144.XX	15	13.74	52.33	0.39
010.12	2	0.00	1.21	0.11	151.00	2	0.00	0.73	0.69
010.60	56	- 0.27	1.48	0.48	151.30	10	- 0.70	2.42	0.21
010.99	5	- 0.33	1.19	0.89	151.XX	13	- 0.55	2.21	0.23
010.XX	71	- 0.58	3.37	0.47	165.99	4	0.000	1.073	0.107
020.10	8	- 0.07	3.43	0.48	165.XX	4	0.000	1.073	0.107
020.20	15	- 3.05	12.63	0.26	181.00	2	0.00	1.22	0.00
020.40	6	- 1.95	4.61	1.49	181.30	12	- 0.05	0.98	0.21
020.50	14	- 3.65	14.78	0.60	181.99	2	0.00	1.10	0.38
020.99	4	0.00	1.01	0.34	181.XX	16	- 0.04	0.99	0.17
020.XX	45	- 2.77	13.17	0.50	191.30	10	0.05	0.98	0.26
030.50	2	0.00	0.71	0.71	191.XX	12	0.05	0.99	0.19
030.XX	4	0.00	0.89	0.54	202.30	11	- 0.01	0.95	0.31
040.40	3	0.00	1.08	0.24	202.XX	13	- 0.02	0.97	0.20
040.XX	4	- 0.24	1.00	0.27	221.30	7	0.4716	1.5710	0.1126
041.10	10	2.86	8.44	0.34	221.XX	9	47.782	142.00	21.560
041.50	12	- 0.34	1.48	0.52	241.30	17	- 0.38	1.94	0.28
041.60	10	- 1.33	3.81	0.96	241.XX	18	- 0.29	1.90	0.33
041.99	2	15.81	22.36	8.59	251.30	7	1.30	3.57	0.30
041.XX	30	- 0.04	2.82	0.66	251.XX	9	0.47	1.70	0.14
048.20	4	0.00	1.08	0.08	261.30	13	10.226	38.336	0.237
048.XX	6	- 0.39	1.35	0.15	261.99	3	0.000	1.011	0.390
050.00	13	- 0.71	1.76	1.75	261.XX	16	9.615	39.863	0.253
050.10	2	0.00	0.43	0.81	281.XX	2	0.000	1.128	0.337
050.30	6	0.00	0.97	0.37	289.30	13	- 0.50	2.11	0.31
050.50	10	- 0.45	1.60	0.23	289.XX	14	- 0.42	1.99	0.28
050.51	8	0.00	1.01	0.20	291.30	12	0.57	1.63	0.92
050.60	5	0.00	1.04	0.19	291.XX	14	0.37	1.34	0.71
050.61	4	0.00	1.04	0.27	301.30	4	7.78	15.58	0.32
050.99	17	- 1.45	7.47	0.57	301.XX	5	5.90	13.23	0.27
050.XX	63	- 0.70	5.26	0.67	311.99	9	0.95	2.99	0.20
060.00	5	- 5.95	13.32	0.53	311.XX	9	0.95	2.99	0.20
060.99	2	0.00	0.00	0.00	321.00	4	0.000	1.066	0.149
060.XX	8	1.22	3.19	0.04	321.30	17	11.420	45.851	2.505

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	3	0.000	1.072	0.259					
321.XX	23	7.837	36.443	1.990					