

- Pass 1 Results for 79 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	9	4.26	0.13	0.05	9	4.26	0.13	0.05
Ammoniacal Nitrogen, Other		001.99	11	4.54	1.13	0.03	9	4.17	0.14	0.02
Method Group 001.XX PCT			20	4.41	0.84	0.04	19	4.23	0.14	0.04
Nitrate Nitrogen, Jones Modified	930.02	002.20	2	4.49	0.27	0.09	2	4.49	0.27	0.09
Nitrate Nitrogen, Other		002.99	5	3.79	1.03	0.19	4	3.72	1.14	0.03
Method Group 002.XX PCT			7	3.99	0.93	0.16	6	3.98	0.99	0.05
Ammon & Nitrate N, Devarda	892.01	009.10	4	8.36	0.15	0.06	4	8.36	0.15	0.06
Ammon & Nitrate N, Other		009.99	1	8.25	0.06	0.08	1	8.25	0.06	0.08
Method Group 009.XX PCT			5	8.34	0.14	0.06	5	8.34	0.14	0.06
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	8.10	0.34	0.05	5	8.10	0.34	0.05
Total Nitrogen, Salicylic	955.04D	010.12	2	7.87	0.05	0.02	2	7.87	0.05	0.02
Total Nitrogen, Raney	970.03	010.16	1	8.16	0.07	0.10	1	8.16	0.07	0.10
Total Nitrogen, Combustion		010.60	52	8.31	0.18	0.07	51	8.30	0.18	0.06
Total Nitrogen, Other		010.99	1	8.27	0.18	0.26	1	8.27	0.18	0.26
Method Group 010.XX PCT			61	8.27	0.22	0.07	59	8.27	0.22	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	6	7.80	0.26	0.07	6	7.80	0.26	0.07
Total Phosphate, Spectrometric	958.01	020.20	15	7.96	0.13	0.07	15	7.96	0.13	0.07
Total Phosphate, Automated	978.01	020.40	4	7.88	0.12	0.03	4	7.88	0.12	0.03
Total Phosphate, ICP		020.50	11	8.01	0.29	0.11	11	8.01	0.29	0.11
Total Phosphate, Other		020.99	3	8.24	0.09	0.05	3	8.24	0.09	0.05
Method Group 020.XX PCT			40	7.97	0.24	0.08	36	7.96	0.18	0.06
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.10	0.01	0.01	1	0.10	0.01	0.01
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	1	0.06	0.00	0.00	1	0.06	0.00	0.00
Insoluble Phosphate, Other		030.99	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 030.XX PCT			5	0.06	0.02	0.00	4	0.06	0.01	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	2	7.85	0.12	0.02	2	7.85	0.12	0.02
InDir Available Phosphate, Spectrometri	960.02	040.20	1	7.88	0.02	0.03	1	7.88	0.02	0.03
InDir Available Phosphate, Automated	960.02	040.40	1	7.65	0.01	0.02	1	7.65	0.01	0.02
InDir Available Phosphate, ICP		040.50	2	7.71	0.37	0.04	2	7.71	0.37	0.04
Method Group 040.XX PCT			6	7.78	0.22	0.03	6	7.78	0.22	0.03
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	9	7.83	0.10	0.08	8	7.83	0.08	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	7.91	0.12	0.05	3	7.91	0.12	0.05
Dir Available Phosphate, Automated	978.01	041.40	3	7.89	0.10	0.03	3	7.89	0.10	0.03
Dir Available Phosphate, ICP		041.50	9	7.82	0.17	0.05	8	7.82	0.18	0.03
Dir Available Phosphate, EDTA Extract	993.01	041.60	9	7.85	0.11	0.04	9	7.85	0.11	0.04
Dir Available Phosphate, Other		041.99	1	7.79	0.01	0.02	1	7.79	0.01	0.02
Method Group 041.XX PCT			35	7.85	0.14	0.05	33	7.85	0.13	0.04

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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
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	6.16	0.14	0.07	2	6.16	0.14	0.07
Soluble Potash, STPB Oxalate	958.02	050.00	17	24.19	0.33	0.11	15	24.19	0.33	0.06
Soluble Potash, AA (Oxalate)		050.30	7	24.10	0.53	0.28	7	24.10	0.53	0.28
Soluble Potash, AA (Citrate)		050.31	1	23.71	0.05	0.07	1	23.71	0.05	0.07
Soluble Potash, ICP (Oxalate)		050.50	7	24.46	0.87	0.38	9	24.46	1.28	0.40
Soluble Potash, ICP (Citrate)		050.51	9	24.35	0.43	0.12	9	24.35	0.43	0.12
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	24.57	1.01	0.61	5	24.57	1.01	0.61
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	9	24.34	0.40	0.11	8	24.43	0.31	0.08
Soluble Potash, Other		050.99	15	24.05	0.86	0.43	14	23.90	0.87	0.11
Method Group 050.XX PCT			70	24.24	0.64	0.26	65	24.26	0.51	0.17
Free Water, Vacuum Oven	965.08B	060.00	6	0.63	0.19	0.06	5	0.61	0.20	0.03
Free Water, Other		060.99	1	3.06	0.06	0.09	1	3.06	0.06	0.09
Method Group 060.XX PCT			7	0.97	0.90	0.06	6	1.02	0.97	0.04
Acid Soluble Calcium, AA	945.04	101.00	8	1.17	0.09	0.02	8	1.17	0.09	0.02
Acid Soluble Calcium, ICP		101.30	32	1.17	0.09	0.03	29	1.17	0.08	0.02
Acid Soluble Calcium, Other		101.99	3	1.11	0.11	0.01	3	1.11	0.11	0.01
Method Group 101.XX PCT			43	1.17	0.09	0.03	40	1.17	0.08	0.02
Acid Soluble Magnesium, AA	984.01	121.00	13	2.50	0.12	0.06	12	2.50	0.12	0.05
Acid Soluble Magnesium, ICP		121.30	34	2.54	0.16	0.05	32	2.54	0.16	0.04
Acid Soluble Magnesium, Other		121.99	3	2.44	0.13	0.02	3	2.44	0.13	0.02
Method Group 121.XX PCT			50	2.52	0.15	0.05	47	2.52	0.15	0.04
Water Soluble Magnesium, AA		131.00	2	2.30	0.17	0.06	2	2.30	0.17	0.06
Water Soluble Magnesium, ICP		131.30	5	2.52	0.40	0.06	4	2.63	0.36	0.02
Method Group 131.XX PCT			7	2.46	0.35	0.06	6	2.52	0.34	0.03
Sulfur, Gravimetric	980.02a	144.01	18	9.78	0.21	0.10	18	9.78	0.21	0.10
Sulfur, Gravimetric	980.02b	144.02	2	10.60	0.08	0.04	2	10.60	0.08	0.04
Sulfur, Other		144.99	23	9.51	0.44	0.14	22	9.49	0.43	0.11
Method Group 144.XX PCT			43	9.67	0.42	0.12	41	9.68	0.42	0.09
Arsenic, Atomic Absorption		151.00	1	1.50	0.14	0.20	1	1.50	0.14	0.20
Arsenic, ICP		151.30	5	1.78	0.39	0.08	4	1.69	0.39	0.03
Arsenic, Other		151.99	2	1.74	0.27	0.02	2	1.74	0.27	0.02
Method Group 151.XX PPM			8	1.73	0.34	0.08	7	1.68	0.33	0.05
Acid Soluble Boron, Spectrometric	982.01	165.00	10	0.046	0.008	0.003	10	0.046	0.008	0.003
Acid Soluble Boron, Other		165.99	21	0.047	0.007	0.003	19	0.046	0.006	0.002
Method Group 165.XX PCT			31	0.046	0.007	0.003	29	0.046	0.007	0.002
Water Soluble Boron, Other		171.99	1	0.045	0.000	0.000	1	0.045	0.000	0.000
Cadmium, Atomic Absorption		181.00	3	1.55	0.34	0.30	3	1.55	0.34	0.30
Cadmium, ICP		181.30	9	1.62	0.30	0.06	8	1.55	0.21	0.03
Cadmium, Other		181.99	1	1.55	0.04	0.05	1	1.55	0.04	0.05

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Method Group 181.XX PPM			13	1.60	0.30	0.11	12	1.58	0.28	0.07
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	12	3.74	0.16	0.04	11	3.74	0.16	0.03
Water Soluble Chlorine, Other		190.99	4	3.85	0.11	0.02	4	3.85	0.11	0.02
Method Group 190.XX PCT			16	3.77	0.15	0.04	15	3.77	0.16	0.03
Chromium, Atomic Absorption		191.00	1	94.00	0.00	0.00	1	94.00	0.00	0.00
Chromium, ICP		191.30	11	81.09	11.36	3.64	10	80.60	11.51	2.33
Chromium, Other		191.99	1	45.51	2.66	3.76	1	45.51	2.66	3.76
Method Group 191.XX PPM			13	79.35	14.84	3.37	12	78.79	15.13	2.26
Acid Soluble Cobalt, AA		202.00	2	40.75	15.90	1.50	2	40.75	15.90	1.50
Acid Soluble Cobalt, ICP	965.11	202.30	10	26.40	10.78	1.53	10	26.40	10.78	1.53
Acid Soluble Cobalt, Other		202.99	1	13.12	0.99	1.40	1	13.12	0.99	1.40
Method Group 202.XX PPM			13	27.58	12.82	1.51	13	27.58	12.82	1.51
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0007	0.0008	0.0001	2	0.0007	0.0008	0.0001
Acid Soluble Copper, ICP		221.30	12	0.0012	0.0013	0.0003	11	0.0009	0.0004	0.0001
Acid Soluble Copper, Other		221.99	2	0.0009	0.0001	0.0001	2	0.0009	0.0001	0.0001
Method Group 221.XX PCT			16	0.0011	0.0011	0.0002	15	0.0009	0.0004	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	11	0.26	0.01	0.01	10	0.26	0.01	0.01
Acid Soluble Iron, ICP		241.30	31	0.27	0.03	0.01	30	0.27	0.03	0.01
Acid Soluble Iron, Other		241.99	2	0.29	0.01	0.00	2	0.29	0.01	0.00
Method Group 241.XX PCT			44	0.27	0.02	0.01	41	0.27	0.02	0.01
Lead, ICP		251.30	5	1.69	0.45	0.26	5	1.69	0.45	0.26
Lead, Other		251.99	1	1.51	0.07	0.10	1	1.51	0.07	0.10
Method Group 251.XX PPM			6	1.66	0.41	0.24	6	1.66	0.41	0.24
Acid Soluble Manganese, AA	972.02a	261.00	10	0.246	0.039	0.019	9	0.246	0.039	0.012
Acid Soluble Manganese, AA	972.02b	261.11	1	0.261	0.001	0.002	1	0.261	0.001	0.002
Acid Soluble Manganese, ICP	972.02a	261.30	28	0.273	0.029	0.012	26	0.271	0.028	0.009
Acid Soluble Manganese, ICP	972.02b	261.31	2	0.268	0.012	0.017	2	0.268	0.012	0.017
Acid Soluble Manganese, Other		261.99	5	0.264	0.045	0.023	5	0.264	0.045	0.023
Method Group 261.XX PCT			46	0.266	0.034	0.015	42	0.267	0.029	0.011
Water Soluble Manganese, Atomic Abs ...	972.03	271.00	1	0.026	0.001	0.001	1	0.026	0.001	0.001
Water Soluble Manganese, ICP	972.03	271.30	3	0.103	0.095	0.015	3	0.103	0.095	0.015
Method Group 271.XX PCT			4	0.084	0.088	0.011	4	0.084	0.088	0.011
Mercury, Atomic Absorption		281.00	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Molybdenum, ICP		289.30	10	6.92	0.87	0.28	9	6.78	0.78	0.19
Molybdenum, Other		289.99	3	5.15	2.63	0.15	3	5.15	2.63	0.15
Method Group 289.XX PPM			13	6.51	1.59	0.25	12	6.37	1.57	0.18
Nickel, Atomic Absorption		291.00	2	43.25	4.99	1.50	2	43.25	4.99	1.50
Nickel, ICP		291.30	11	34.95	4.65	1.66	11	34.95	4.65	1.66
Nickel, Other		291.99	1	16.96	1.05	1.48	1	16.96	1.05	1.48

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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 291.XX PPM			14	34.85	7.33	1.63	14	34.85	7.33	1.63
Selenium, ICP		301.30	2	1.51	0.25	0.21	2	1.51	0.25	0.21
Selenium, Other		301.99	2	0.87	0.50	0.04	2	0.87	0.50	0.04
Method Group 301.XX PPM			4	1.19	0.50	0.13	3	1.03	0.46	0.03
Sodium, Other		311.99	7	1.26	0.05	0.03	7	1.26	0.05	0.03
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	13	0.167	0.010	0.004	12	0.167	0.010	0.003
Acid Soluble Zinc, ICP		321.30	34	0.172	0.016	0.007	31	0.171	0.016	0.005
Acid Soluble Zinc, Other		321.99	3	0.187	0.018	0.003	3	0.187	0.018	0.003
Method Group 321.XX PCT			51	0.171	0.016	0.006	47	0.171	0.015	0.004
Water Soluble Zinc, ICP		325.30	1	0.167	0.006	0.009	1	0.167	0.006	0.009
Water Soluble Zinc, Other		325.99	2	0.243	0.133	0.045	2	0.243	0.133	0.045
Method Group 325.XX PCT			3	0.217	0.110	0.033	3	0.217	0.110	0.033

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: 002.XX PCT			Meth: 010.11 PCT			Meth: 010.60 PCT				
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Nitrate Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>				
<u>MgO Distillation</u>									<u>Modified Comprehensi</u>			<u>Combustion</u>				
257	8.45 s	31.06	220	4.39	1.19	230	4.72	.75	Avg	8.10		073	8.39	.45		
405	4.53	1.99	258	4.37	1.06	257	4.53	.55	460	7.79	-.91	106	8.38	.40		
258	4.37	.92	456	4.29	.45	368	4.03 R	.44	260	7.67	-1.27	292	8.38	.40		
456	4.29	.24	220	4.25	.45	232	4.40	.42	114	1.60 S	-19.20	007	8.35	.38		
Avg	4.26		096	4.29	.45	029	4.26	.28				157	8.32	.36		
090	4.26	-.05	371	4.28	.38	027	4.07	.09				324	8.35	.34		
232	4.22	-.33	105	4.28	.38	Avg	3.98		Meth: 010.12 PCT			009	8.35	.26		
029	4.21	-.43	397	4.27	.29	234	1.91	-2.09	<u>Total Nitrogen</u>			231	8.34	.23		
220	4.25	-.45	090	4.26	.21				<u>Salicylic</u>			040	8.31	.22		
230	4.19	-.51	419	4.25	.14	Meth: 009.10 PCT			185	7.91	.80	057	8.31	.22		
117	4.03	-1.70	255	4.24	.11	Ammon & Nitrate N			Avg	7.87		247	8.34	.20		
			Avg	4.23		<u>Devarda</u>			455	7.82	-.93	325	8.31	.07		
			232	4.22	-.08	258	8.58	1.51				Avg	8.30			
			029	4.21	-.23	Avg	8.36		Meth: 010.16 PCT			027	8.30	-.02		
			230	4.19	-.25	090	8.36	-.31	<u>Total Nitrogen</u>			233	8.28	-.13		
			027	4.09	-.94	397	8.27	-.67	<u>Raney</u>			390	8.27	-.17		
			117	4.03	-1.36	416	8.25 X	-.83	419			8.16	.71	232	8.28	-.21
			368	3.98	-1.71				Meth: 010.60 PCT			177	8.29	-.23		
			234	3.91	-2.19	Meth: 009.99 PCT			<u>Total Nitrogen</u>			234	8.26	-.29		
						Ammon & Nitrate N			<u>Combustion</u>			406	8.25	-.31		
						<u>Other</u>			405	9.32 s	5.58	136	8.25	-.32		
						105	8.25	.71	043	8.84	2.92	028	8.23	-.43		
						Meth: 009.XX PCT			428	8.68	2.07	035	8.23	-.52		
						Ammon & Nitrate N			402	8.61	1.69	361	8.18	-.71		
						258	8.58	1.75	102	8.52 R	1.51	368	8.16	-.81		
						090	8.36	.35	230	8.51	1.13	443	8.15	-.88		
						Avg	8.34		070	8.50	1.12	262	8.15	-.88		
						397	8.27	-.55	055	8.49	1.12	023	8.12	-1.03		
						105	8.25	-.71	330	8.50	1.08	360	8.08	-1.25		
						416	8.25 X	-.73	037	8.48	1.05	451	8.07	-1.33		
						Meth: 010.11 PCT			377	8.46	.87	024	8.07	-1.35		
						<u>Total Nitrogen</u>			034	8.43	.78	423	8.06	-1.37		
						<u>Modified Comprehensi</u>			029	8.43	.77	389	8.05	-1.41		
						220	8.50	1.20	354	8.43	.68	131	8.04	-1.47		
						105	8.34	.72	096	8.43	.67	041	8.02	-1.58		
						029	8.20	.31	291	8.41	.63	426	8.03	-1.63		
									255	8.37	.53	042	8.00	-1.75		

* 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: 010.99 PCT			Meth: 010.XX PCT			Meth: 020.10 PCT			Meth: 020.40 PCT			Meth: 020.XX PCT		
Total Nitrogen			Total Nitrogen			Total Phosphate			Total Phosphate			Total Phosphate		
<u>Other</u>			177 8.29 .21			<u>Grav Quimociac</u>			<u>Automated</u>			324 8.47 R 3.13		
105	8.27	.71	325	8.31	.20	041	15.59 s	30.33	096	7.72	-1.36	007	8.34	2.13
Avg	8.27		027	8.30	.15	090	8.01	.83	042	0.74 s	-59.17	137	8.24	1.56
030	7.21 S	-6.66	232	8.28	.12	114	8.00	.81				423	8.16	1.16
			390	8.27	.08	022	7.85	.28	Meth: 020.50 PCT			426	8.13	1.12
Meth: 010.XX PCT			233	8.28	.05	105	7.85	.21	Total Phosphate			361	8.16	1.09
Total Nitrogen			Avg	8.27		Avg	7.80		<u>ICP</u>			231	8.15	1.09
405	9.32 s	4.86	136	8.25	-.11	117	7.78	-.10	157	8.29 S	2.50	455	8.15	1.09
043	8.84	2.62	406	8.25	-.13	262	7.29	-2.01	451	8.60	2.07	258	8.13	1.01
428	8.68	1.90	234	8.26	-.14				426	8.13	.56	390	8.00 R	.92
402	8.61	1.58	028	8.23	-.20	Meth: 020.20 PCT			423	8.16	.55	232	8.07	.73
102	8.52 R	1.40	035	8.23	-.32	Total Phosphate			361	8.16	.51	422	8.08	.67
230	8.51	1.12	029	8.20	-.40	<u>Spectrometric</u>			422	8.08	.26	406	8.06	.55
070	8.50	1.10	361	8.18	-.44	324	8.47 s	4.17	Avg	8.01		292	8.04	.45
220	8.50	1.09	368	8.16	-.54	231	8.15	1.47	247	7.98	-.11	456	8.04	.41
055	8.49	1.09	419	8.16	-.55	258	8.13	1.36	389	7.93	-.30	405	7.98	.32
330	8.50	1.07	443	8.15	-.59	232	8.07	.99	368	7.89	-.46	090	8.01	.29
037	8.48	1.04	262	8.15	-.59	406	8.06	.76	390	8.00	-.55	114	8.00	.24
377	8.46	.89	023	8.12	-.71	292	8.04	.62	432	7.73	-.98	247	7.98	.08
034	8.43	.80	360	8.08	-.90	405	7.98	.43	255	7.45	-1.92	220	7.97	.07
029	8.43	.80	451	8.07	-.98	234	7.96	.30	330	7.20 S	-2.79	Avg	7.96	
354	8.43	.73	024	8.07	-.99	220	7.97	.11	402	2.26 s	-19.73	460	7.95	-.09
096	8.43	.73	423	8.06	-1.00	Avg	7.96					234	7.96	-.22
291	8.41	.69	389	8.05	-1.04	460	7.95	-.10	Meth: 020.99 PCT			389	7.93	-.25
105	8.27 R	.60	131	8.04	-1.08	371	7.91	-.37	Total Phosphate			371	7.91	-.30
255	8.37	.57	041	8.02	-1.17	257	7.95	-.42	<u>Other</u>			257	7.95	-.32
073	8.39	.54	426	8.03	-1.23	419	7.91	-.52	443	8.70 S	5.35	105	7.90	-.35
106	8.38	.49	042	8.00	-1.32	416	7.86 X	-.75	007	8.34	1.09	419	7.91	-.41
292	8.38	.49	185	7.91	-1.66	363	7.83	-.98	Avg	8.24		035	7.88	-.49
007	8.35	.44	455	7.82	-2.05	428	7.63	-2.48	137	8.24	-.04	368	7.89	-.54
105	8.34	.43	460	7.79	-2.21				455	8.15	-1.14	416	7.86 X	-.58
324	8.35	.41	260	7.67	-2.77	Meth: 020.40 PCT						105	7.85	-.63
009	8.35	.38	030	7.21 s	-5.65	Total Phosphate			Meth: 020.XX PCT			022	7.85	-.69
157	8.32	.37	114	1.60 s	-30.81	<u>Automated</u>			<u>Total Phosphate</u>			363	7.83	-.76
231	8.34	.35				456	8.04	1.25	041	15.59 s	42.82	117	7.78	-1.01
247	8.34	.33				105	7.90	.16	443	8.70 s	4.27	432	7.73	-1.34
040	8.31	.27				Avg	7.88		157	8.29 s	4.20	096	7.72	-1.36
057	8.31	.27				035	7.88	-.25	451	8.60 A	3.64	428	7.63	-1.89

* 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: 020.XX PCT</u>			<u>Meth: 030.XX PCT</u>			<u>Meth: 041.10 PCT</u>			<u>Meth: 041.50 PCT</u>			<u>Meth: 041.XX PCT</u>					
<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>					
255	7.45	-2.87	247	0.04	-1.47	<u>Grav Quimociac</u>			<u>ICP</u>			360	7.99	1.03			
262	7.29 A	-3.81	Meth: 040.10 PCT			254	8.15 s	4.03	291	7.82	-.09	057	7.96	.76			
330	7.20 s	-4.31	<u>InDir Available Phos</u>			057	7.96	1.55	377	7.76	-.36	363	7.94	.61			
402	2.26 s	-32.00	<u>Grav Quim</u>			009	7.89	1.14	023	7.80 R	-.52	009	7.89	.59			
042	0.74 s	-40.56	090	7.95	.87	105	7.90	.97	043	7.72	-.57	105	7.90	.43			
Meth: 030.10 PCT			Avg 7.85			Avg 7.83			325 7.71 -.65			397 7.90 .43					
<u>Insoluble Phosphate</u>			300 7.75 -.86			040 7.81 -.26			354 7.59 -1.31			073 7.87 .40					
<u>Grav Quimociac</u>			Meth: 040.20 PCT			260 7.81 -.65			Meth: 041.60 PCT			233 7.88 .25					
090	0.06	.00	<u>InDir Available Phos</u>			102 7.77 -.76			<u>Dir Available Phosph</u>			029 7.88 .21					
Meth: 030.20 PCT			<u>Spectrometri</u>			131 7.77 -.83			<u>EDTA Extract</u>			296 7.87 .14					
<u>Insoluble Phosphate</u>			220 7.88 .71			177 7.75 -1.04			034 8.07 2.02			043 7.87 .14					
<u>Spectrometric</u>			Meth: 040.40 PCT			185 7.79 R -2.67			397 7.90 .55			Avg 7.85					
220	0.10	.71	<u>InDir Available Phos</u>			055 7.53 s -4.45			073 7.87 .49			291 7.82 -.31					
Meth: 030.40 PCT			<u>Automated</u>			Meth: 041.20 PCT			233 7.88 .34			040 7.81 -.33					
<u>Insoluble Phosphate</u>			096 7.65 -.71			<u>Dir Available Phosph</u>			296 7.87 .20			361 7.81 -.34					
<u>Automated</u>			Meth: 040.50 PCT			<u>Spectrometric</u>			043 7.87 .20			105 7.79 -.48					
096	0.07	.00	<u>InDir Available Phos</u>			055 8.02 1.02			Avg 7.85			260 7.81 -.50					
Meth: 030.50 PCT			<u>ICP</u>			363 7.94 .25			106 7.73 -1.02			131 7.79 -.55					
<u>Insoluble Phosphate</u>			423 8.04 .87			Avg 7.91			177 7.73 -1.05			102 7.77 -.63					
<u>ICP</u>			Avg 7.71			419 7.76 -1.19			024 7.71 -1.24			131 7.77 -.67					
255	0.06	.00	255 7.39 -.87			030 6.85 S -11.40			105 7.56 s -3.53			419 7.76 -.72					
Meth: 030.99 PCT			Meth: 040.XX PCT			Meth: 041.40 PCT			057 7.45 s -3.67			377 7.76 -.72					
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			Meth: 041.99 PCT			023 7.80 R -.79					
<u>Other</u>			423 8.04 1.17			<u>Automated</u>			<u>Dir Available Phosph</u>			177 7.75 -.80					
247	0.04	.00	090 7.95 .79	027 8.00 1.15			Meth: 041.50 PCT			106 7.73 -.90			043 7.72 -1.01				
Meth: 030.XX PCT			220 7.88 .45	Avg 7.89			<u>Dir Available Phosph</u>			177 7.73 -.93			024 7.71 -1.08				
<u>Insoluble Phosphate</u>			Avg 7.78	029 7.88 -.14			<u>Automated</u>			105 7.79 .71			325 7.71 -1.12				
220	0.10 R	3.31	220 7.88 .45	131 7.79 -1.08			027 8.00 1.15			230 7.25 S -39.12			185 7.79 R -1.65				
096	0.07	1.12	Avg 7.78	Meth: 041.50 PCT			Avg 7.89			Meth: 041.XX PCT			354 7.59 -2.00				
090	0.06	.26	300 7.75 -.11	Dir Available Phosph			029 7.88 -.14			<u>Dir Available Phosph</u>			055 7.53 s -2.83				
255	0.06	.09	096 7.65 -.57	<u>ICP</u>			131 7.79 -1.08			105 7.79 .71			105 7.56 s -3.01				
Avg	0.06		255 7.39 -1.72	009 8.17 2.00			Meth: 041.40 PCT			230 7.25 S -39.12			057 7.45 s -3.13				
Meth: 030.99 PCT			Avg 7.71			030 6.85 S -11.40			Meth: 041.99 PCT			185 7.79 R -1.65			354 7.59 -2.00		
<u>Insoluble Phosphate</u>			255 7.39 -.87			Meth: 041.40 PCT			<u>Dir Available Phosph</u>			354 7.59 -2.00			055 7.53 s -2.83		
<u>Other</u>			Avg 7.71			<u>Dir Available Phosph</u>			027 8.00 1.15			055 7.53 s -2.83			105 7.56 s -3.01		
247	0.04	.00	255 7.39 -.87			<u>Automated</u>			027 8.00 1.15			057 7.45 s -3.13			230 7.25 s -4.64		
Meth: 030.XX PCT			Avg 7.71			029 7.88 -.14			Avg 7.89			185 7.79 R -1.65			354 7.59 -2.00		
<u>Insoluble Phosphate</u>			300 7.75 -.11			131 7.79 -1.08			029 7.88 -.14			354 7.59 -2.00			055 7.53 s -2.83		
220	0.10 R	3.31	300 7.75 -.11			Meth: 041.50 PCT			029 7.88 -.14			055 7.53 s -2.83			105 7.56 s -3.01		
096	0.07	1.12	300 7.75 -.11			Dir Available Phosph			131 7.79 -1.08			057 7.45 s -3.13			230 7.25 s -4.64		
090	0.06	.26	300 7.75 -.11			<u>ICP</u>			027 8.00 1.15			185 7.79 R -1.65			354 7.59 -2.00		
255	0.06	.09	300 7.75 -.11			009 8.17 2.00			027 8.00 1.15			055 7.53 s -2.83			105 7.56 s -3.01		
Avg	0.06		300 7.75 -.11			360 7.99 .96			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
Meth: 030.99 PCT			Avg 7.71			Avg 7.82			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
<u>Insoluble Phosphate</u>			255 7.39 -.87			361 7.81 -.08			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
<u>Other</u>			Avg 7.71			Meth: 041.40 PCT			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
247	0.04	.00	255 7.39 -.87			<u>Dir Available Phosph</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
Meth: 030.XX PCT			Avg 7.71			<u>Automated</u>			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
<u>Insoluble Phosphate</u>			300 7.75 -.11			029 7.88 -.14			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
220	0.10 R	3.31	300 7.75 -.11			131 7.79 -1.08			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
096	0.07	1.12	300 7.75 -.11			Meth: 041.50 PCT			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
090	0.06	.26	300 7.75 -.11			Dir Available Phosph			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
255	0.06	.09	300 7.75 -.11			<u>ICP</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
Avg	0.06		300 7.75 -.11			009 8.17 2.00			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
Meth: 030.99 PCT			Avg 7.71			360 7.99 .96			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
<u>Insoluble Phosphate</u>			255 7.39 -.87			Avg 7.82			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
<u>Other</u>			Avg 7.71			361 7.81 -.08			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
247	0.04	.00	255 7.39 -.87			Meth: 041.40 PCT			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
Meth: 030.XX PCT			Avg 7.71			<u>Dir Available Phosph</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
<u>Insoluble Phosphate</u>			300 7.75 -.11			<u>Automated</u>			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
220	0.10 R	3.31	300 7.75 -.11			029 7.88 -.14			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
096	0.07	1.12	300 7.75 -.11			131 7.79 -1.08			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
090	0.06	.26	300 7.75 -.11			Meth: 041.50 PCT			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
255	0.06	.09	300 7.75 -.11			Dir Available Phosph			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
Avg	0.06		300 7.75 -.11			<u>ICP</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
Meth: 030.99 PCT			Avg 7.71			009 8.17 2.00			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
<u>Insoluble Phosphate</u>			255 7.39 -.87			360 7.99 .96			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
<u>Other</u>			Avg 7.71			Avg 7.82			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
247	0.04	.00	255 7.39 -.87			361 7.81 -.08			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
Meth: 030.XX PCT			Avg 7.71			Meth: 041.40 PCT			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
<u>Insoluble Phosphate</u>			300 7.75 -.11			<u>Dir Available Phosph</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
220	0.10 R	3.31	300 7.75 -.11			<u>Automated</u>			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
096	0.07	1.12	300 7.75 -.11			029 7.88 -.14			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
090	0.06	.26	300 7.75 -.11			131 7.79 -1.08			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
255	0.06	.09	300 7.75 -.11			Meth: 041.50 PCT			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
Avg	0.06		300 7.75 -.11			Dir Available Phosph			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
Meth: 030.99 PCT			Avg 7.71			<u>ICP</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
<u>Insoluble Phosphate</u>			255 7.39 -.87			009 8.17 2.00			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
<u>Other</u>			Avg 7.71			360 7.99 .96			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
247	0.04	.00	255 7.39 -.87			Avg 7.82			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
Meth: 030.XX PCT			Avg 7.71			361 7.81 -.08			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
<u>Insoluble Phosphate</u>			300 7.75 -.11			Meth: 041.40 PCT			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
220	0.10 R	3.31	300 7.75 -.11			<u>Dir Available Phosph</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
096	0.07	1.12	300 7.75 -.11			<u>Automated</u>			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
090	0.06	.26	300 7.75 -.11			029 7.88 -.14			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
255	0.06	.09	300 7.75 -.11			131 7.79 -1.08			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
Avg	0.06		300 7.75 -.11			Meth: 041.50 PCT			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
Meth: 030.99 PCT			Avg 7.71			Dir Available Phosph			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
<u>Insoluble Phosphate</u>			255 7.39 -.87			<u>ICP</u>			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
<u>Other</u>			Avg 7.71			009 8.17 2.00			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		
247	0.04	.00	255 7.39 -.87			360 7.99 .96			027 8.00 1.14			057 7.45 s -3.13			230 7.25 s -4.64		
Meth: 030.XX PCT			Avg 7.71			Avg 7.82			027 8.00 1.14			185 7.79 R -1.65			354 7.59 -2.00		
<u>Insoluble Phosphate</u>			300 7.75 -.11			361 7.81 -.08			027 8.00 1.14			055 7.53 s -2.83			105 7.56 s -3.01		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 048.20 PCT Water Soluble Phosph Spectrometric			Meth: 050.30 PCT Soluble Potash AA (Oxalate)			Meth: 050.60 PCT Soluble Potash Flame (Oxalate)			Meth: 050.99 PCT Soluble Potash Other			Meth: 050.XX PCT Soluble Potash		
363	6.28	.89	185	23.15	-1.85	443	25.88	1.34	368	23.56	-.41	456	24.40	.34
Avg	6.16					406	25.25	.67	325	23.20	-.82	231	24.40	.27
096	6.05	-.84	Meth: 050.31 PCT Soluble Potash AA (Citrate)			Meth: 050.61 PCT Soluble Potash Flame (Citrate)			Meth: 050.XX PCT Soluble Potash			136	24.35	.21
Meth: 050.00 PCT Soluble Potash STPB Oxalate			254	23.71	.71	055	24.22	-.48	042	23.25 R	-1.42	220	24.33	.15
257	24.90	2.15	Meth: 050.50 PCT Soluble Potash ICP (Oxalate)			Meth: 050.99 PCT Soluble Potash Other			371	22.31	-1.83	009	24.32	.13
022	24.45 R	1.09	451	26.58 S	1.65	460	23.95	-.62	255	21.99 S	-2.20	023	24.27	.05
114	24.53	1.01	106	25.39	.73	030	23.56	-1.29	402	3.86 s	-23.06	131	24.28	.03
057	24.44	.74	354	25.18	.57	Meth: 050.61 PCT Soluble Potash Flame (Citrate)			Meth: 050.XX PCT Soluble Potash			Avg	24.26	
102	24.37	.69	324	24.75	.35	028	24.91	1.56	405	29.39 s	10.08	247	24.25	-.04
231	24.40	.62	292	24.78	.25	057	24.84	1.36	451	26.58 s	4.57	040	24.20	-.13
220	24.33	.42	422	24.62	.21	024	24.58	.49	443	25.88 A	3.24	131	24.17	-.20
009	24.32	.40	Avg	24.46		Avg	24.43		157	24.81 R	3.05	035	24.15	-.21
247	24.25	.17	419	23.27	-.93	456	24.40	-.33	106	25.39	2.23	360	24.16	-.26
Avg	24.19		390	23.20	-1.03	131	24.28	-.49	406	25.25	1.94	041	24.13	-.27
055	24.12	-.23	426	22.37 S	-1.66	035	24.15	-.90	354	25.18	1.82	055	24.12	-.28
090	24.08	-.34	Meth: 050.51 PCT Soluble Potash ICP (Citrate)			Meth: 050.99 PCT Soluble Potash Other			260	25.04	1.54	232	24.09	-.33
043	24.07	-.37	009	24.93	1.39	034	24.14	-.94	009	24.93	1.35	090	24.08	-.35
233	23.86	-1.02	432	24.81	1.06	041	24.13	-.97	028	24.91	1.28	043	24.07	-.37
258	23.90 R	-1.11	291	24.72	.86	029	23.61 R	-2.71	257	24.90	1.26	389	24.05	-.42
397	23.81	-1.16	007	24.69	.82	Meth: 050.99 PCT Soluble Potash Other			324	24.75	1.19	455	24.05	-.42
296	23.78	-1.24	Avg	24.35		405	29.39 s	6.31	057	24.84	1.15	043	24.05	-.43
416	23.64	-1.69	023	24.27	-.20	432	24.81 R	1.97	177	24.83	1.12	137	24.01	-.49
230	20.75 s	-10.42	043	24.05	-.73	292	24.78	1.03	234	24.81	1.10	460	23.95	-.61
Meth: 050.30 PCT Soluble Potash AA (Oxalate)			377	23.96	-.97	291	24.72	.91	432	24.81	1.08	377	23.96	-.65
234	24.81	1.34	361	23.91	-1.03	007	24.69	.86	292	24.78	1.03	055	24.22	-.65
262	24.38	.81	423	23.84	-1.21	177	24.83	1.06	291	24.72	.91	361	23.91	-.69
136	24.35	.48	Meth: 050.30 PCT Soluble Potash AA (Oxalate)			Meth: 050.99 PCT Soluble Potash Other			007	24.69	.86	233	23.86	-.79
040	24.20	.19	234	24.81	1.34	330	24.60	.81	422	24.62	.83	073	23.88	-.80
Avg	24.10		262	24.38	.81	027	24.59	.79	330	24.60	.70	258	23.90	-.83
043	23.95	-.33	136	24.35	.48	360	24.16	.31	262	24.38	.70	423	23.84	-.83
073	23.88	-.50	040	24.20	.19	131	24.17	.31	027	24.59	.66	397	23.81	-.89
			Avg	24.10		232	24.09	.21	024	24.58	.63	296	23.78	-.94
						389	24.05	.18	022	24.45	.62	254	23.71	-1.09
						455	24.05	.18	114	24.53	.53	416	23.64	-1.23
						137	24.01	.12	102	24.37	.35	029	23.61	-1.33
						Avg	24.05		057	24.44	.35	368	23.56	-1.38

* 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: 050.XX PCT</u>			<u>Meth: 101.00 PCT</u>			<u>Meth: 101.30 PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 121.00 PCT</u>		
<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
419	23.27	-1.95	AA			ICP			090	1.23	.77	AA		
325	23.20	-2.09	055	1.39 S	2.81	232	1.15	-.34	390	1.23	.73	220	2.62	1.07
030	23.56 R	-2.10	220	1.29	1.32	230	1.15	-.36	368	1.21	.72	028	2.63	1.07
390	23.20	-2.22	177	1.22	.52	027	1.14	-.53	037	1.22	.66	177	2.61	.89
185	23.15	-2.23	296	1.22	.52	023	1.12	-.71	177	1.22	.59	105	2.60	.80
042	23.25 R	-2.86	105	1.21	.41	102	1.12	-.73	296	1.22	.59	397	2.58	.77
426	22.37 s	-3.79	028	1.17	.32	389	1.11	-.83	360	1.21	.53	262	2.54	.32
371	22.31 A	-3.83	Avg	1.17		433	1.11	-.90	105	1.21	.47	073	2.54	.32
255	21.99 s	-4.46	262	1.17	-.16	291	1.09	-1.16	247	1.21	.47	Avg	2.50	
230	20.75 s	-6.89	043	1.11	-.66	354	1.07	-1.37	131	1.20	.43	296	2.45	-.63
402	3.86 s	-40.07	029	0.97	-2.12	255	1.07	-1.42	009	1.20	.39	043	2.44	-.64
			397	0.48 s	-7.41	022	1.04	-1.78	028	1.17	.37	257	2.40	-.88
						114	1.04 R	-1.96	423	1.19	.23	055	2.38	-1.09
<u>Meth: 060.00 PCT</u>			<u>Meth: 101.30 PCT</u>			<u>Meth: 101.99 PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 121.30 PCT</u>		
<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
<u>Vacuum Oven</u>			<u>ICP</u>			<u>Other</u>			<u>Avg</u>			<u>ICP</u>		
416	0.96	1.78	422	1.96 s	10.46	137	1.25	1.20	262	1.17	-.18	330	4.30 s	11.05
363	0.71 R	.72	432	1.57 s	5.28	Avg	1.11		230	1.15	-.27	422	2.88	2.14
096	0.63	.19	117	1.37 R	2.79	460	1.09	-.22	232	1.15	-.27	117	2.87	2.09
Avg	0.61		330	1.30	1.70	042	1.00	-1.00	027	1.14	-.42	291	2.77	1.45
247	0.54	-.36	035	1.29	1.61				023	1.12	-.59	432	2.76	1.35
007	0.49	-.64	231	1.27	1.24				102	1.12	-.61	041	2.73	1.16
456	0.44	-.87	057	1.26	1.15				389	1.11	-.70	255	2.69	.93
			096	1.20 R	.88				043	1.11	-.74	423	2.67	.79
<u>Meth: 060.99 PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 101.XX PCT</u>		
<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>		
<u>Other</u>			<u>ICP</u>			<u>Other</u>			<u>Avg</u>			<u>ICP</u>		
443	3.06	.71	090	1.23	.78	422	1.96 s	9.63	460	1.09	-.94	255	2.69	.93
			390	1.23	.73	432	1.57 s	4.90	291	1.09	-.99	423	2.67	.79
<u>Meth: 060.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 101.XX PCT</u>		
<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>		
443	3.06	2.10	368	1.21	.73	055	1.39 s	3.18	354	1.07	-1.19	057	2.59 R	.79
Avg	1.02		037	1.22	.65	117	1.37 R	2.61	255	1.07	-1.24	354	2.66	.74
416	0.96	-.06	360	1.21	.50	330	1.30	1.62	022	1.04	-1.56	106	2.64	.63
363	0.71 R	-.34	247	1.21	.44	035	1.29	1.54	114	1.04 R	-1.73	102	2.59	.30
096	0.63	-.41	131	1.20	.40	220	1.29	1.50	041	1.02	-1.84	037	2.57	.21
247	0.54	-.49	009	1.20	.35	231	1.27	1.20	042	1.00	-2.02	368	2.56	.17
007	0.49	-.55	423	1.19	.19	057	1.26	1.12	029	0.97	-2.38	027	2.57	.16
456	0.44	-.60	419	1.19	.19	137	1.25	1.01	397	0.48 s	-8.37	390	2.55	.10
			Avg	1.17		096	1.20 R	.83				Avg	2.54	
			363	1.17	-.14	106	1.24	.83				363	2.53	-.10
						361	1.24	.83				231	2.52	-.27

* 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: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT			Meth: 144.01 PCT			Meth: 144.99 PCT		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>			<u>Sulfur</u>		
<u>ICP</u>									<u>Gravimetric</u>			<u>Other</u>		
009	2.52	-.27	354	2.66	.90	389	2.38	-1.02	055	10.17	1.89	232	9.71	.59
131	2.49	-.30	057	2.59 R	.89	232	2.35	-1.22	262	10.12	1.62	137	9.68	.43
114	2.49	-.32	106	2.64	.78	460	2.29	-1.61	397	10.05	1.27	037	9.58	.30
419	2.48	-.42	220	2.62	.72	029	2.27	-1.75	043	9.93	.79	389	9.57	.20
324	2.47	-.47	028	2.63	.71	433	2.26	-1.75	230	9.88	.74	177	9.57	.19
360	2.52	-.50	177	2.61	.56	022	2.18	-2.34	324	9.89	.49	361	9.54	.12
023	2.48	-.51	105	2.60	.50	042	1.95 s	-3.87	029	9.82	.23	027	9.51	.06
247	2.47	-.54	397	2.58	.50	Meth: 131.00 PCT			371	9.79	.10	Avg	9.49	
096	2.44	-.66	102	2.59	.42	Water Soluble Magnes			Avg	9.78		419	9.41	-.19
361	2.44	-.66	234	2.57	.37	<u>AA</u>			296	9.78	-.10	023	9.36	-.35
035	2.46 R	-.80	037	2.57	.32	220	2.45	.88	105	9.75	-.21	009	9.35	-.41
090	2.41	-.82	368	2.56	.28	Avg	2.30		102	9.76	-.21	390	9.40	-.57
230	2.41	-.85	027	2.57	.27	029	2.16	-.85	405	9.71	-.35	368	9.23	-.63
389	2.38	-1.05	390	2.55	.17	Meth: 131.30 PCT			057	9.73	-.42	131	9.21	-.67
232	2.35	-1.23	262	2.54	.12	Water Soluble Magnes			233	9.65	-.65	422	9.02	-1.09
433	2.26	-1.74	073	2.54	.12	<u>ICP</u>			028	9.63	-.74	363	8.92	-1.34
022	2.18	-2.28	363	2.53	.03	230	3.16	1.48	073	9.57	-1.03	090	8.85	-1.50
042	1.95 s	-3.72	Avg	2.52		432	2.68	.14	114	9.49	-1.39	255	8.80	-1.62
Meth: 121.99 PCT			131	2.49	-.22	Avg	2.63		106	9.39	-1.97	096	7.30 s	-5.10
<u>Acid Soluble Magnesi</u>			114	2.49	-.24	300	2.35	-.76	Meth: 144.02 PCT			Meth: 144.XX PCT		
<u>Other</u>			231	2.52	-.24	027	2.32	-.85	<u>Sulfur</u>			<u>Sulfur</u>		
234	2.57	1.01	009	2.52	-.27	426	2.08 R	-1.53	<u>Gravimetric</u>			157	11.52 s	4.60
137	2.47	.22	419	2.48	-.35	Meth: 131.XX PCT			260	10.67	.88	117	10.76	2.54
Avg	2.44		137	2.47	-.37	<u>Water Soluble Magnes</u>			Avg	10.60		260	10.67	2.33
460	2.29	-1.20	324	2.47	-.40	230	3.16	1.88	292	10.54	-.85	292	10.54	2.02
Meth: 121.XX PCT			023	2.48	-.47	432	2.68	.46	Meth: 144.99 PCT			055	10.17	1.18
<u>Acid Soluble Magnesi</u>			247	2.47	-.50	Avg	2.52		<u>Sulfur</u>			262	10.12	1.05
330	4.30 s	11.91	360	2.52	-.51	220	2.45	-.25	<u>Other</u>			220	9.89 R	1.05
422	2.88	2.39	361	2.44	-.60	300	2.35	-.49	157	11.52 s	4.94	360	9.96	.67
117	2.87	2.33	096	2.44	-.60	027	2.32	-.60	117	10.76	2.93	043	9.93	.62
291	2.77	1.65	296	2.45	-.60	029	2.16	-1.04	220	9.89 R	1.29	230	9.88	.55
432	2.76	1.55	043	2.44	-.63	090	2.41	-.77	360	9.96	1.08	324	9.89	.49
041	2.73	1.35	090	2.41	-.77	230	2.41	-.80	354	9.86	.88	354	9.86	.49
255	2.69	1.10	035	2.46 R	-.79	257	2.40	-.83	423	9.80	.71	029	9.82	.35
423	2.67	.95	230	2.41	-.80	258	2.43 R	-.97	291	9.77	.63	232	9.71	.33
			055	2.38	-.99									

* 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.XX PCT			Meth: 151.30 PPM			Meth: 165.00 PCT			Meth: 165.XX PCT			Meth: 171.99 PCT		
<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>			<u>Water Soluble Boron</u>		
423	9.80	.29	ICP			Spectrometric			232	0.444 s	56.06	Other		
371	9.79	.27	232	2.13 R	1.17	220	0.039	-.80	422	0.300 s	35.81	027	0.045	.00
296	9.78	.25	405	2.00	.79	057	0.038	-.90	432	0.090 s	6.82	Meth: 181.00 PPM		
057	9.73	.22	230	1.97	.72	257	0.032	-1.68	354	0.074 s	3.99	Cadmium		
291	9.77	.22	096	1.70	.02	Meth: 165.99 PCT			258	0.059	1.84	<u>Atomic Absorption</u>		
102	9.76	.21	Avg	1.69		Acid Soluble Boron			368	0.057 R	1.72	363	1.90	1.34
105	9.75	.19	102	1.10	-1.54	<u>Other</u>			028	0.055	1.21	Avg	1.55	
405	9.71	.09	Meth: 151.99 PPM			232	0.444 s	62.17	255	0.054	1.14	136	1.45	-.32
137	9.68	.01	Arsenic			422	0.300 s	39.70	117	0.054	1.10	220	1.30	-.78
Avg	9.68		<u>Other</u>			432	0.090 s	7.54	324	0.052	1.07	Meth: 181.30 PPM		
233	9.65	-.08	231	1.97	.87	354	0.074 S	4.41	360	0.053	.93	Cadmium		
028	9.63	-.12	Avg	1.74		368	0.057 R	1.90	428	0.052	.86	<u>ICP</u>		
177	9.57	-.24	220	1.50	-.86	255	0.054	1.24	397	0.050	.81	096	2.25 R	3.46
389	9.57	-.25	Meth: 151.XX PPM			117	0.054	1.20	106	0.048	.63	405	2.00	2.18
073	9.57	-.28	Arsenic			324	0.052	1.17	433	0.050	.59	009	1.66	.54
037	9.58	-.31	232	2.13 R	1.44	360	0.053	1.01	137	0.050	.57	232	1.56	.17
361	9.54	-.33	405	2.00	.99	106	0.048	.70	090	0.048	.42	Avg	1.55	
027	9.51	-.40	231	1.97	.90	433	0.050	.64	043	0.049	.41	247	1.52	-.12
114	9.49	-.44	230	1.97	.90	137	0.050	.62	423	0.047	.12	419	1.50	-.22
419	9.41	-.63	096	1.70	.07	361	0.050	.62	Avg	0.046		102	1.46	-.41
106	9.39	-.75	Avg	1.68		090	0.048	.44	291	0.046	-.09	230	1.40	-.73
023	9.36	-.76	220	1.50	-.54	043	0.049	.39	363	0.045	-.13	035	1.28	-1.28
009	9.35	-.81	136	1.50	-.62	423	0.047	.12	023	0.045	-.29	Meth: 181.99 PPM		
390	9.40 R	-.85	102	1.10	-1.79	Avg	0.046		009	0.044	-.29	Cadmium		
368	9.23	-1.06	Meth: 165.00 PCT			291	0.046	-.12	296	0.041	-.69	<u>Other</u>		
131	9.21	-1.11	Acid Soluble Boron			363	0.045	-.16	419	0.045 R	-.72	231	1.55	.71
422	9.02	-1.54	<u>Spectrometric</u>			009	0.044	-.34	055	0.041	-.81	Meth: 181.XX PPM		
363	8.92	-1.79	258	0.059	1.57	296	0.041	-.79	389	0.040	-.84	Cadmium		
090	8.85	-1.95	028	0.055	1.04	419	0.045 R	-.80	220	0.039	-.99	096	2.25	2.45
255	8.80	-2.07	428	0.052	.75	389	0.040	-.94	230	0.039	-1.05	363	1.90 R	1.57
096	7.30 s	-5.60	397	0.050	.70	230	0.039	-1.18	057	0.038	-1.09	405	2.00	1.50
Meth: 151.00 PPM			029	0.049	.37	114	0.035	-1.80	114	0.035	-1.61	009	1.66	.29
Arsenic			Avg	0.046		042	0.033	-2.19	042	0.033	-1.95	Avg	1.58	
<u>Atomic Absorption</u>			023	0.045	-.23				257	0.032	-2.03	231	1.55	-.14
136	1.50	.71	055	0.041	-.66									

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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: 181.XX PPM</u>			<u>Meth: 190.XX PCT</u>			<u>Meth: 191.30 PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.00 PCT</u>		
<u>Cadmium</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
232	1.56	-.14	397	4.03	1.65	ICP			ICP			Atomic Absorption		
247	1.52	-.20	422	3.98	1.30	037	65.25	-1.34	Avg	26.40		262	0.0000	-.86
419	1.50	-.27	105	3.91	.86	<u>Meth: 191.99 PPM</u>			230	25.55	-.12	<u>Meth: 221.30 PCT</u>		
102	1.46	-.41	057	3.85	.48	<u>Chromium</u>			037	22.97	-.33	<u>Acid Soluble Copper</u>		
136	1.45	-.48	028	3.84	.41	<u>Other</u>			232	23.00	-.33	<u>ICP</u>		
230	1.40	-.65	360	3.82	.34	231	45.51	-.71	247	20.65	-.57	432	0.0400	s 100.31
220	1.30	-1.04	029	3.79	.23	<u>Meth: 191.XX PPM</u>			102	20.07	-.59	422	0.0335	s 83.89
035	1.28	-1.05	055	3.79	.14	<u>Chromium</u>			419	18.05	-.77	354	0.0050	R 10.87
<u>Meth: 190.00 PCT</u>			460	3.79	.14	009	97.35	1.23	027	13.30	-1.22	035	0.0016	1.76
<u>Water Soluble Chlori</u>			009	3.78	.04	Avg	3.77		<u>Meth: 202.99 PPM</u>			433	0.0011	.61
<u>Titrimetric</u>			220	3.75	-.34	220	3.75	-.34	<u>Acid Soluble Cobalt</u>			057	0.0010	.45
422	3.98	1.45	043	3.77	R -.45	096	95.00	1.08	<u>Other</u>			027	0.0010	.30
105	3.91	1.02	102	3.68	-.59	220	94.00	1.01	231	13.12	-.71	102	0.0009	.26
057	3.85	.65	258	3.62	-.99	035	86.05	R .73	<u>Meth: 202.XX PPM</u>			232	0.0010	.25
028	3.84	.58	023	3.53	-1.51	247	89.06	.69	<u>Acid Soluble Cobalt</u>			009	0.0010	.22
043	3.77	R .47	257	3.42	-2.24	232	86.00	.48	136	54.50	2.10	247	0.0009	.18
029	3.79	.36	368	3.25	s -4.10	405	82.50	.25	009	49.15	1.69	Avg	0.0009	
220	3.75	.31	<u>Meth: 191.00 PPM</u>			102	79.43	.06	057	41.46	1.08	230	0.0008	-.21
055	3.79	.31	<u>Chromium</u>			Avg	78.79		233	29.77	.17	419	0.0005	-1.17
Avg	3.74		<u>Atomic Absorption</u>			230	78.70	-.07	<u>Meth: 202.00 PPM</u>			041	0.0000	-2.26
102	3.68	-.38	220	94.00	.00	419	67.50	-.75	<u>Acid Soluble Cobalt</u>			<u>Meth: 221.99 PCT</u>		
258	3.62	-.78	<u>Meth: 191.30 PPM</u>			027	65.21	-.90	220	27.00	-.09	<u>Acid Soluble Copper</u>		
023	3.53	-1.27	<u>Chromium</u>			037	65.25	-.90	230	25.55	-.18	<u>Other</u>		
257	3.42	-1.98	<u>ICP</u>			231	45.51	-2.20	037	22.97	-.37	231	0.0010	.68
<u>Meth: 190.99 PCT</u>			<u>Water Soluble Chlori</u>			<u>Meth: 202.00 PPM</u>			232	23.00	-.37	Avg	0.0009	
<u>Other</u>			009	97.35	1.46	<u>Acid Soluble Cobalt</u>			247	20.65	-.57	220	0.0009	X -1.02
397	4.03	1.59	096	95.00	1.26	<u>AA</u>			102	20.07	-.59	<u>Meth: 221.XX PCT</u>		
Avg	3.85		035	86.05	R .87	136	54.50	.87	419	18.05	-.74	<u>Acid Soluble Copper</u>		
360	3.82	-.35	247	89.06	.75	Avg	40.75		027	13.30	-1.11	428	0.1225	s 286.74
460	3.79	-.58	232	86.00	.48	220	27.00	-.87	231	13.12	-1.13	432	0.0400	s 92.26
009	3.78	-.71	405	82.50	.17	<u>Meth: 202.30 PPM</u>			<u>Meth: 221.00 PCT</u>			422	0.0335	s 77.17
368	3.25	s -6.43	Avg	80.60		<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			354	0.0050	R 10.04
<u>ICP</u>			102	79.43	-.12	<u>ICP</u>			<u>Atomic Absorption</u>			035	0.0016	1.66
<u>Water Soluble Chlori</u>			230	78.70	-.19	009	49.15	2.11	428	0.1225	S 156.09	043	0.0014	1.16
<u>Other</u>			419	67.50	-1.15	057	41.46	1.40	Avg	0.0007		433	0.0011	.61
<u>Chromium</u>			027	65.21	-1.34	233	29.77	.32						

* 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: 241.30 PCT			Meth: 241.99 PCT			Meth: 241.XX PCT			Meth: 251.XX PPM		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Lead</u>		
057	0.0010	.46	ICP			Other			220	0.26	-.77	136	11.50 s	23.99
231	0.0010	.33	057	0.29	.94	460	0.29	-1.12	035	0.26	-.77	419	2.40	1.87
027	0.0010	.33	255	0.29	.78				296	0.25	-.81	232	1.68	.91
232	0.0010	.28	361	0.29	.72	Meth: 241.XX PCT			397	0.27 R	-.82	Avg	1.66	
102	0.0009	.25	106	0.29	.72	<u>Acid Soluble Iron</u>			232	0.25	-.86	027	1.62	-.11
009	0.0010	.24	324	0.29	.61	432	0.38 s	4.74	023	0.25	-.96	231	1.51	-.38
247	0.0009	.21	102	0.28	.33	422	0.33	2.73	433	0.25	-.99	230	1.43	-.56
220	0.0009 X	.18	009	0.28	.31	354	0.33	2.49	177	0.24	-1.28	102	1.32	-.83
Avg	0.0009		389	0.28	.25	402	0.32	2.02	291	0.24	-1.37			
230	0.0008	-.14	247	0.28	.25	057	0.29	1.15	426	0.25 R	-1.44	Meth: 261.00 PCT		
419	0.0005	-1.03	360	0.28	.22	255	0.29	.95	027	0.24	-1.66	<u>Acid Soluble Mangane</u>		
262	0.0000	-2.03	390	0.27	.20	106	0.29	.86	230	0.23	-1.75	<u>AA</u>		
041	0.0000	-2.03	117	0.27	.17	137	0.29	.86	042	0.20 A	-3.47	258	0.530 s	7.34
			Avg	0.27		361	0.29	.86	114	0.19 s	-3.72	028	0.288	1.15
Meth: 241.00 PCT			231	0.27	-.01	324	0.29	.73	041	0.19 s	-3.93	105	0.249 R	.95
<u>Acid Soluble Iron</u>			131	0.26	-.25	055	0.29	.68	105	0.16 s	-5.20	220	0.280	.88
<u>Atomic Absorption</u>			368	0.26	-.27	460	0.29	.68				262	0.270	.81
055	0.29	1.81	423	0.26	-.30	102	0.28	.38	Meth: 251.00 PPM			043	0.271	.64
397	0.27 R	1.56	090	0.26	-.30	009	0.28	.36	<u>Lead</u>			073	0.260	.38
363	0.28	1.06	096	0.26	-.37	363	0.28	.29	<u>Atomic Absorption</u>			Avg	0.246	
043	0.27	.69	419	0.26	-.37	389	0.28	.29	136	11.50 S	.00	296	0.229	-.43
262	0.27	.44	035	0.26	-.59	247	0.28	.29	Meth: 251.30 PPM			177	0.227	-.52
Avg	0.26		232	0.25	-.66	360	0.28	.24	<u>Lead</u>			397	0.223	-.60
029	0.26	-.58	023	0.25	-.74	390	0.27	.22	<u>ICP</u>			257	0.165	-2.09
073	0.26	-.59	433	0.25	-.76	117	0.27	.19	419	2.40	1.66	Meth: 261.11 PCT		
028	0.26	-.59	291	0.24	-1.06	Avg	0.27		Avg	1.69		<u>Acid Soluble Mangane</u>		
220	0.26	-.70	426	0.25 R	-1.12	231	0.27	-.05	027	1.62	-.16	<u>AA</u>		
296	0.25	-.77	027	0.24	-1.29	043	0.27	-.09	230	1.43	-.58	029	0.261	.71
177	0.24	-1.52	230	0.23	-1.36	131	0.26	-.34	102	1.32	-.83	Meth: 261.30 PCT		
105	0.16 s	-8.26	042	0.20	-2.74	262	0.27	-.36	232	1.68	-.84	<u>Acid Soluble Mangane</u>		
			114	0.19 s	-2.93	368	0.26	-.37	Meth: 251.99 PPM			<u>ICP</u>		
Meth: 241.30 PCT			041	0.19 s	-3.10	423	0.26	-.40	Lead			368	2.564 s	81.63
<u>Acid Soluble Iron</u>			Meth: 241.99 PCT			<u>Acid Soluble Iron</u>			Lead			423	0.340	2.47
ICP			<u>Other</u>			090	0.26	-.41	Other			432	0.320 R	1.87
432	0.38 s	3.80	419	0.26	-.50	419	0.26	-.50	231	1.51	.71	402	0.320	1.73
422	0.33	2.20	096	0.26	-.50	096	0.26	-.50				354	0.313	1.58
354	0.33	2.01	028	0.26	-.55	028	0.26	-.55						
402	0.32	1.63	137	0.29	.50	029	0.26	-.60						
			Avg	0.29		073	0.26	-.73						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index									
Meth: 261.30 PCT			Meth: 261.99 PCT			Meth: 261.XX PCT			Meth: 271.XX PCT			Meth: 289.XX PPM											
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Water Soluble Mangan</u>			<u>Molybdenum</u>											
<u>ICP</u>			<u>Other</u>																				
114	0.305	1.21	460	0.285	.49	073	0.260	-.26	300	0.064	-.22	433	8.03	1.06									
090	0.290	.67	255	0.264	.29	023	0.259	-.30	220	0.026	-.66	247	7.40	.66									
360	0.280	.50	Avg	0.264		230	0.264	-.43	230	0.023	-.69	232	7.28	.58									
106	0.280	.47	042	0.225	-.87	419	0.255	-.45	Meth: 281.00 PPM			009	7.06	.44									
041	0.280	.47	137	0.220	-.98	255	0.264	-.46	Mercury			035	6.90	.38									
009	0.283	.47	Meth: 261.XX PCT			022	0.262	-.68	<u>Atomic Absorption</u>			230	6.63	.16									
035	0.278	.22	<u>Acid Soluble Manganese</u>			422	0.245	-.78	230	0.01	.71	Avg	6.37										
247	0.278	.22	368	2.564 s	79.16	232	0.243	-.81	Meth: 289.30 PPM			220	6.30	-.05									
037	0.277	.19	258	0.530 s	9.07	291	0.242	-.86	Molybdenum			419	6.00	-.27									
057	0.274	.08	423	0.340	2.54	027	0.242	-.89	<u>ICP</u>			102	5.43	-.60									
Avg	0.271		363	0.325 R	2.34	117	0.263 R	-1.06	255	15.71 s	11.50	231	4.76	-1.03									
389	0.270	-.05	432	0.320	1.95	433	0.232	-1.21	057	8.17 R	1.92	422	2.43	-2.51									
231	0.265	-.29	402	0.320	1.83	296	0.229	-1.31	Meth: 291.00 PPM			Nickel											
102	0.263	-.31	354	0.313	1.67	177	0.227	-1.41	Atomic Absorption														
390	0.261	-.39	114	0.305	1.32	105	0.249 R	-1.41	433	8.03	1.61	136			47.50	.86							
023	0.259	-.46	028	0.288	.87	042	0.225	-1.46	247	7.40	.81	Avg			43.25								
419	0.255	-.61	090	0.290	.80	397	0.223	-1.53	232	7.28	.66	220			39.00	-.87							
022	0.262	-.76	262	0.270	.70	361	0.220	-1.62	035	6.90	.40	Meth: 291.30 PPM			Nickel								
422	0.245	-.95	460	0.285	.65	137	0.220	-1.62	009	7.06	.36	ICP											
232	0.243	-.99	009	0.283	.59	257	0.165 A	-3.52	Avg	6.78		009	42.10	1.56	247			39.60	1.02				
291	0.242	-1.04	360	0.280	.59	Meth: 271.00 PCT			230	6.63	-.20	096	39.50	.98	035			35.55	.46				
027	0.242	-1.07	106	0.280	.57	Water Soluble Mangan			220	6.30	-.62	230	36.50	.35	102			36.13	.26				
117	0.263 R	-1.13	041	0.280	.57	<u>Atomic Abs</u>			419	6.00	-1.04	232	35.30	.13	232			35.30	.13				
433	0.232	-1.40	220	0.280	.45	220	0.026	-.71	102	5.43	-1.74	Avg			34.95		233			33.03	-.49		
361	0.220	-1.83	035	0.278	.36	Meth: 271.30 PCT			Meth: 289.99 PPM			233			33.03	-.49	419			30.50	-1.01		
Meth: 261.31 PCT			247	0.278	.36	Water Soluble Mangan			Molybdenum			419			30.50	-1.01	027			28.99	-1.28		
<u>Acid Soluble Manganese</u>			037	0.277	.33	<u>ICP</u>			<u>Other</u>			037			27.28	-1.65							
<u>ICP</u>			324	0.273	.25	426	0.223	1.27	028	8.27	1.19												
324	0.273	.54	057	0.274	.23	Avg	0.103		Avg	5.15													
Avg	0.268		043	0.271	.15	300	0.064	-.41	231	4.76	-.15												
230	0.264	-1.10	389	0.270	.10	230	0.023	-.85	422	2.43	-1.03												
Meth: 261.99 PCT			Avg	0.267		Meth: 271.XX PCT			Meth: 289.XX PPM														
<u>Acid Soluble Manganese</u>			102	0.263	-.17	<u>Water Soluble Mangan</u>			<u>Molybdenum</u>														
<u>Other</u>			231	0.265	-.19	426	0.223	1.59	255	15.71 s	5.95												
363	0.325	1.57	029	0.261	-.21	Avg	0.084		028	8.27	1.21												
			390	0.261	-.22				057	8.17 R	1.19												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 291.99 PPM			Meth: 301.XX PPM			Meth: 321.30 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT		
Nickel			Selenium			Acid Soluble Zinc			Acid Soluble Zinc			Acid Soluble Zinc		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
231	16.96	-.71	232	1.66 R	1.43	402	0.220	3.11	432	0.095 s	-5.10	247	0.172	.04
			230	1.35	.69	368	0.198 S	2.69				Avg	0.171	
			231	1.31	.61	390	0.191 R	1.79				292	0.170	-.06
Meth: 291.XX PPM			Avg 1.03			Meth: 321.99 PCT			Meth: 321.99 PCT			422 0.170 -.06		
Nickel			296 0.44 -1.29			Acid Soluble Zinc			Acid Soluble Zinc			073 0.171 -.10		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
136	47.50	1.73	363	1.49 s	4.36	361	0.190	1.20	460	0.205	1.04	117	0.168	-.24
009	42.10	1.00	422	1.34	1.49	232	0.178 R	1.10	137	0.190	.18	255	0.169	-.24
247	39.60	.66	423	1.29	.50	389	0.188	1.05	Avg	0.187		296	0.168	-.25
096	39.50	.64	102	1.27	.41	057	0.181 R	1.05	220	0.165	-1.18	220	0.165	-.40
220	39.00	.58	057	1.27	.23	090	0.187	1.04	220	0.165	-1.18	114	0.165	-.52
035	35.55	.30	Avg 1.26			009	0.184	.83				231	0.165	-.52
230	36.50	.23	232	1.26	-.06	354	0.183	.80				220	0.165	-.52
102	36.13	.18	009	1.23	-.63	360	0.180	.60	Meth: 321.XX PCT			105	0.164	-.52
232	35.30	.09	035	1.18	-1.85	324	0.179	.50	<u>Acid Soluble Zinc</u>			029	0.163	-.54
Avg	34.85		Meth: 321.00 PCT			037	0.179	.47	258	0.355 s	12.48	262	0.160	-.73
233	33.03	-.30	Acid Soluble Zinc			102	0.178	.43	402	0.220	3.27	041	0.160	-.73
419	30.50	-.63	<u>Atomic Absorption</u>			423	0.174	.19	368	0.198 s	2.82	035	0.160	-.76
027	28.99	-.80	258	0.355 s	19.63	131	0.172	.10	460	0.205	2.29	397	0.161	-.78
037	27.28	-1.03	428	0.185 X	1.83	230	0.172	.08	390	0.191 R	1.89	043	0.159	-.83
231	16.96	-2.44	055	0.180	1.29	247	0.172	.02	106	0.195	1.63	022	0.157	-.97
Meth: 301.30 PPM			177	0.175	.74	Avg	0.171		137	0.190	1.27	096	0.155	-1.06
Selenium			028	0.172	.56	292	0.170	-.07	361	0.190	1.27	291	0.155	-1.10
<u>ICP</u>			073	0.171	.35	422	0.170	-.07	232	0.178 R	1.15	433	0.155	-1.10
232	1.66	1.05	296	0.168	.15	255	0.169	-.23	389	0.188	1.11	363	0.155	-1.11
Avg	1.51		Avg	0.167		117	0.168	-.24	057	0.181 R	1.11	419	0.155	-1.11
230	1.35	-.63	029	0.163	-.47	231	0.165	-.50	090	0.187	1.10	023	0.153	-1.21
Meth: 301.99 PPM			105	0.164	-.48	114	0.165	-.50	428	0.185 X	.96	371	0.150	-1.40
Selenium			220	0.165	-.57	041	0.160	-.71	009	0.184	.88	027	0.145	-1.77
<u>Other</u>			262	0.160	-.77	035	0.160	-.74	354	0.183	.85	257	0.130 A	-2.81
231	1.31	.87	397	0.161 R	-.91	022	0.157	-.93	360	0.180	.63	042	0.100 s	-4.73
Avg	0.87		043	0.159	-.93	096	0.155	-1.02	055	0.180	.60	432	0.095 s	-5.33
296	0.44	-.86	371	0.150	-1.80	291	0.155	-1.06	324	0.179	.53	Meth: 325.30 PCT		
			257	0.130 s	-3.99	433	0.155	-1.06	037	0.179	.50	Water Soluble Zinc		
						363	0.155	-1.07	102	0.178	.46	<u>ICP</u>		
						419	0.155	-1.07	177	0.175	.26	426 0.167 .71		
						023	0.153	-1.17	423	0.174	.21			
						027	0.145	-1.70	028	0.172	.21			
						042	0.100 s	-4.53	131	0.172	.11			
									230	0.172	.10			

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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>
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Meth: 325.99 PCT
 Water Soluble Zinc
Other
 258 0.355 .88
 Avg 0.243
 257 0.130 X -.85

Meth: 325.XX PCT
Water Soluble Zinc
 258 0.355 1.29
 Avg 0.217
 426 0.167 -.46
 257 0.130 X -.79

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Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	10	3.11	9.87	0.24	050.XX	70	- 0.62	5.21	0.54
001.99	13	6.93	12.94	0.19	060.00	6	0.08	0.96	0.23
001.XX	22	5.18	11.37	0.21	060.XX	7	- 0.05	0.96	0.05
002.20	2	0.00	1.20	0.17	101.00	10	- 0.51	2.69	0.51
002.99	5	0.05	0.94	0.17	101.30	34	0.50	2.25	0.32
002.XX	7	0.01	0.96	0.17	101.99	3	0.00	1.12	0.05
009.10	4	0.00	1.05	0.21	101.XX	47	0.21	2.28	0.36
009.XX	5	0.00	1.03	0.24	121.00	13	- 0.05	0.96	0.36
010.11	6	- 3.20	7.89	0.10	121.30	36	0.20	2.17	0.23
010.12	2	0.00	1.13	0.33	121.99	3	0.00	1.11	0.13
010.60	53	0.13	1.23	0.27	121.XX	52	0.14	1.99	0.25
010.99	2	- 2.89	4.09	2.39	131.00	2	0.00	1.19	0.21
010.XX	62	- 0.49	4.13	0.42	131.30	5	- 0.30	1.15	0.14
020.10	7	4.33	11.50	0.21	131.XX	7	- 0.18	1.07	0.14
020.20	16	0.24	1.33	0.52	144.01	18	0.00	0.97	0.30
020.40	5	- 11.83	26.48	0.15	144.02	2	0.00	1.17	0.26
020.50	14	- 1.54	5.37	0.67	144.99	25	0.02	1.70	0.39
020.99	4	1.22	2.58	1.15	144.XX	45	- 0.03	1.43	0.31
020.XX	45	- 0.55	10.22	0.69	151.30	5	0.22	1.06	0.17
030.XX	5	0.66	1.74	0.19	151.99	2	0.00	1.22	0.05
040.10	2	0.00	1.21	0.12	151.XX	8	0.17	1.07	0.19
040.50	2	0.00	1.22	0.06	165.00	10	0.000	0.990	0.260
040.XX	6	0.00	1.05	0.07	165.99	25	4.586	14.434	0.791
041.10	11	- 0.03	1.91	1.13	165.XX	35	2.955	11.115	0.625
041.20	4	- 2.14	4.36	3.78	181.00	3	0.00	0.91	0.54
041.40	3	0.00	1.10	0.16	181.30	9	0.38	1.48	0.25
041.50	9	- 0.01	0.96	0.20	181.XX	13	0.09	1.01	0.35
041.60	11	- 0.57	1.56	0.77	190.00	12	0.02	0.97	0.18
041.99	2	- 19.27	27.25	4.78	190.99	5	- 1.09	2.60	1.53
041.XX	32	- 0.53	1.75	1.43	190.XX	17	- 0.20	1.24	0.61
048.20	2	0.00	1.17	0.26	191.30	11	0.04	0.98	0.24
048.XX	2	0.00	1.17	0.26	191.XX	13	0.04	0.98	0.17
050.00	18	- 0.58	2.63	0.27	202.00	2	0.00	1.22	0.05
050.30	7	0.00	0.98	0.33	202.30	10	0.00	1.02	0.09
050.50	9	0.00	1.01	0.19	202.XX	13	0.00	1.02	0.07
050.51	9	0.00	1.01	0.18	221.00	3	52.029	90.121	0.3717
050.60	5	0.00	0.95	0.41	221.30	14	13.893	33.371	1.8547
050.61	9	- 0.29	1.30	0.26	221.99	2	0.0000	0.9631	0.5350
050.99	18	- 0.91	5.80	0.49	221.XX	19	24.510	68.858	1.4891

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
241.00	12	- 0.63	2.56	0.54					
241.30	34	- 0.09	1.37	0.21					
241.99	2	0.00	0.71	0.71					
241.XX	48	- 0.26	1.64	0.27					
251.30	5	0.00	0.95	0.43					
251.XX	7	3.42	9.10	0.61					
261.00	11	0.674	2.386	0.359					
261.30	29	2.864	15.181	0.348					
261.31	2	0.000	0.520	0.784					
261.99	5	0.000	0.972	0.379					
261.XX	48	1.790	11.532	0.401					
271.30	3	0.000	1.110	0.111					
271.XX	4	0.000	1.073	0.104					
289.30	11	1.21	3.57	0.31					
289.99	3	0.00	1.12	0.03					
289.XX	14	0.51	1.85	0.14					
291.00	2	0.00	1.20	0.16					
291.30	11	0.00	1.00	0.22					
291.XX	14	0.00	1.01	0.13					
301.30	2	0.00	0.88	0.60					
301.99	2	0.00	1.22	0.06					
301.XX	4	0.34	1.14	0.23					
311.99	8	0.54	1.78	0.36					
311.XX	8	0.54	1.78	0.36					
321.00	15	0.985	5.238	0.998					
321.30	37	- 0.143	1.469	0.553					
321.99	3	0.000	1.101	0.157					
321.XX	54	0.082	2.196	0.588					
325.99	2	0.000	1.194	0.193					
325.XX	2	0.229	1.440	0.233					