

- Pass 1 Results for 81 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	7	16.98	0.40	0.06	7	16.98	0.40	0.06
Ammoniacal Nitrogen, Other		001.99	9	16.31	1.36	0.11	9	16.31	1.36	0.11
Method Group 001.XX PCT			16	16.60	1.10	0.09	16	16.60	1.10	0.09
Nitrate Nitrogen, Other		002.99	2	0.19	0.01	0.01	2	0.19	0.01	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	4	17.42	0.27	0.08	4	17.42	0.27	0.08
Ammon & Nitrate N, Other		009.99	1	14.88	0.04	0.05	1	14.88	0.04	0.05
Method Group 009.XX PCT			5	16.91	1.10	0.08	5	16.91	1.10	0.08
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	17.55	0.23	0.05	6	17.55	0.23	0.05
Total Nitrogen, Salicylic	955.04D	010.12	2	17.54	0.07	0.09	2	17.54	0.07	0.09
Total Nitrogen, Combustion		010.60	51	17.67	0.21	0.10	48	17.67	0.20	0.08
Total Nitrogen, Other		010.99	4	17.52	0.29	0.08	4	17.52	0.29	0.08
Method Group 010.XX PCT			63	17.64	0.22	0.09	60	17.65	0.21	0.08
Total Phosphate, Grav Quimociac	962.02	020.10	7	45.84	0.20	0.24	7	45.84	0.20	0.24
Total Phosphate, Spectrometric	958.01	020.20	15	45.36	0.79	0.24	15	45.36	0.79	0.24
Total Phosphate, Automated	978.01	020.40	5	45.94	0.68	0.38	4	45.76	0.50	0.10
Total Phosphate, ICP		020.50	7	46.68	0.88	0.53	7	46.68	0.88	0.53
Total Phosphate, Other		020.99	3	45.89	0.18	0.07	3	45.89	0.18	0.07
Method Group 020.XX PCT			38	45.85	0.83	0.30	34	45.83	0.65	0.20
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	2	0.15	0.02	0.01	2	0.15	0.02	0.01
Insoluble Phosphate, Automated	978.01	030.40	2	0.37	0.03	0.03	2	0.37	0.03	0.03
Insoluble Phosphate, ICP		030.50	1	0.25	0.01	0.02	1	0.25	0.01	0.02
Method Group 030.XX PCT			5	0.26	0.11	0.02	5	0.26	0.11	0.02
InDir Available Phosphate, Grav Quim	960.02	040.10	2	45.84	0.06	0.09	2	45.84	0.06	0.09
InDir Available Phosphate, Automated	960.02	040.40	2	45.13	0.47	0.14	2	45.13	0.47	0.14
InDir Available Phosphate, ICP		040.50	1	46.30	0.18	0.25	1	46.30	0.18	0.25
Method Group 040.XX PCT			5	45.65	0.55	0.15	5	45.65	0.55	0.15
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	18	45.51	0.56	0.30	17	45.50	0.56	0.26
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	44.65	0.08	0.11	1	44.65	0.08	0.11
Dir Available Phosphate, Automated	978.01	041.40	5	45.64	0.41	0.15	4	45.49	0.26	0.04
Dir Available Phosphate, ICP		041.50	10	45.34	0.79	0.33	10	45.34	0.79	0.33
Dir Available Phosphate, EDTA Extract	993.01	041.60	9	45.28	0.59	0.38	8	45.24	0.57	0.27
Dir Available Phosphate, Other		041.99	1	46.26	0.21	0.29	1	46.26	0.21	0.29
Method Group 041.XX PCT			44	45.43	0.62	0.30	41	45.44	0.62	0.24
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	40.87	0.40	0.19	3	40.87	0.40	0.19
Soluble Potash, ICP (Oxalate)		050.50	1	0.22	0.00	0.01	1	0.22	0.00	0.01
Soluble Potash, ICP (Citrate)		050.51	1	0.12	0.01	0.01	1	0.12	0.01	0.01
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Soluble Potash, Other		050.99	3	0.34	0.27	0.02	3	0.34	0.27	0.02
Method Group 050.XX PCT			6	0.23	0.23	0.01	6	0.23	0.23	0.01

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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
Free Water, Vacuum Oven	965.08B	060.00	4	3.15	0.27	0.05	4	3.15	0.27	0.05
Acid Soluble Calcium, ICP		101.30	16	0.34	0.04	0.01	14	0.33	0.04	0.00
Acid Soluble Magnesium, AA	984.01	121.00	4	0.97	0.06	0.02	4	0.97	0.06	0.02
Acid Soluble Magnesium, ICP		121.30	25	0.90	0.09	0.02	24	0.90	0.09	0.01
Method Group 121.XX PCT			29	0.91	0.09	0.02	27	0.91	0.09	0.01
Sulfur, Gravimetric	980.02a	144.01	7	1.23	0.10	0.04	7	1.23	0.10	0.04
Sulfur, Spectrometric		144.70	1	1.16	0.01	0.01	1	1.16	0.01	0.01
Sulfur, Other		144.99	12	1.15	0.08	0.02	12	1.15	0.08	0.02
Method Group 144.XX PCT			20	1.18	0.09	0.03	20	1.18	0.09	0.03
Arsenic, Atomic Absorption		151.00	2	6.00	5.78	0.20	2	6.00	5.78	0.20
Arsenic, ICP		151.30	12	11.76	3.68	0.48	12	11.76	3.68	0.48
Arsenic, Other		151.99	1	7.89	0.18	0.25	1	7.89	0.18	0.25
Method Group 151.XX PPM			15	10.73	4.32	0.42	14	10.45	4.34	0.35
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.017	0.005	0.007	1	0.017	0.005	0.007
Acid Soluble Boron, Other		165.99	6	0.024	0.018	0.001	6	0.024	0.018	0.001
Method Group 165.XX PCT			7	0.023	0.017	0.002	6	0.024	0.018	0.001
Cadmium, Atomic Absorption		181.00	2	2.24	0.37	0.09	2	2.24	0.37	0.09
Cadmium, ICP		181.30	15	2.81	0.34	0.16	14	2.76	0.30	0.13
Cadmium, Other		181.99	1	2.75	0.02	0.03	1	2.75	0.02	0.03
Method Group 181.XX PPM			18	2.74	0.38	0.15	16	2.69	0.35	0.10
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	0.03	0.04	0.06	1	0.03	0.04	0.06
Water Soluble Chlorine, Other		190.99	2	1.49	1.60	0.05	2	1.49	1.60	0.05
Method Group 190.XX PCT			3	1.00	1.45	0.06	3	1.00	1.45	0.06
Chromium, ICP		191.30	18	108.73	12.46	1.78	17	108.09	12.51	1.47
Chromium, Other		191.99	1	108.00	1.41	2.00	1	108.00	1.41	2.00
Method Group 191.XX PPM			19	108.69	12.12	1.79	18	108.09	12.15	1.50
Acid Soluble Cobalt, ICP	965.11	202.30	10	2.84	0.48	0.15	10	2.84	0.48	0.15
Acid Soluble Cobalt, Other		202.99	2	2.73	0.09	0.03	2	2.73	0.09	0.03
Method Group 202.XX PPM			12	2.82	0.44	0.13	11	2.78	0.44	0.10
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0002	0.0001	0.0000	4	0.0002	0.0001	0.0000
Acid Soluble Copper, ICP		221.30	7	0.0081	0.0199	0.0003	6	0.0003	0.0003	0.0000
Acid Soluble Copper, Other		221.99	2	0.0021	0.0024	0.0010	2	0.0021	0.0024	0.0010
Method Group 221.XX PCT			13	0.0048	0.0148	0.0003	11	0.0003	0.0003	0.0000
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	2	0.95	0.02	0.01	2	0.95	0.02	0.01
Acid Soluble Iron, ICP		241.30	20	0.96	0.07	0.02	18	0.95	0.06	0.01
Acid Soluble Iron, Other		241.99	2	0.96	0.02	0.01	2	0.96	0.02	0.01
Method Group 241.XX PCT			24	0.96	0.06	0.02	21	0.96	0.04	0.01
Lead, Atomic Absorption		251.00	1	5.65	0.21	0.30	1	5.65	0.21	0.30
Lead, ICP		251.30	9	2.92	2.31	0.22	8	2.68	2.34	0.13

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Lead, Other		251.99	1	2.06	0.01	0.01	1	2.06	0.01	0.01
Method Group 251.XX PPM			11	3.09	2.25	0.21	10	2.91	2.29	0.14
Acid Soluble Manganese, AA	972.02a	261.00	1	0.027	0.002	0.002	1	0.027	0.002	0.002
Acid Soluble Manganese, ICP	972.02a	261.30	12	0.028	0.002	0.001	11	0.028	0.001	0.000
Acid Soluble Manganese, Other		261.99	2	0.028	0.002	0.000	2	0.028	0.002	0.000
Method Group 261.XX PCT			15	0.028	0.002	0.001	14	0.028	0.001	0.000
Molybdenum, ICP		289.30	16	7.88	1.00	0.37	15	7.91	1.00	0.30
Molybdenum, Other		289.99	1	8.47	0.07	0.10	1	8.47	0.07	0.10
Method Group 289.XX PPM			17	7.91	0.98	0.35	16	7.95	0.98	0.29
Nickel, Atomic Absorption		291.00	1	14.25	0.35	0.50	1	14.25	0.35	0.50
Nickel, ICP		291.30	11	10.70	1.20	0.39	11	10.70	1.20	0.39
Nickel, Other		291.99	1	11.60	0.14	0.20	1	11.60	0.14	0.20
Method Group 291.XX PPM			13	11.04	1.47	0.39	13	11.04	1.47	0.39
Selenium, ICP		301.30	3	2.65	2.68	0.85	3	2.65	2.68	0.85
Selenium, Other		301.99	1	0.25	0.02	0.02	1	0.25	0.02	0.02
Method Group 301.XX PPM			4	2.05	2.52	0.65	4	2.05	2.52	0.65
Sodium, Other		311.99	6	0.17	0.02	0.01	6	0.17	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	2	0.005	0.001	0.001	2	0.005	0.001	0.001
Acid Soluble Zinc, ICP		321.30	11	0.004	0.000	0.000	10	0.004	0.000	0.000
Acid Soluble Zinc, Other		321.99	1	0.007	0.001	0.001	1	0.007	0.001	0.001
Method Group 321.XX PCT			15	0.005	0.001	0.000	14	0.005	0.001	0.000
Water Soluble Zinc, ICP		325.30	1	0.000	0.000	0.000	1	0.000	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: 010.11 PCT			Meth: 010.60 PCT			Meth: 010.60 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>Modified Comprehensi</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
309	17.61	1.59	029	16.69	.10	405	17.82	1.16	325	17.75	.45	230	16.85	s -4.12
444	17.41	1.07	234	16.42	-.17	211	17.67	.49	231	17.76	.44	324	15.55	s -10.52
416	17.01	.06	027	16.29	-.29	029	17.64	.43	360	17.76	.41			
Avg	16.98		420	14.29	-2.11	309	17.64	.36	292	17.74	.32	Meth: 010.99 PCT		
405	16.91	-.25	193	13.59	-2.75	Avg	17.55		409	17.72	.28	<u>Total Nitrogen</u>		
232	16.84	-.36	230	10.55	s -5.54	090	17.43	-.56	040	17.68	.15	<u>Other</u>		
029	16.69	-.76	Meth: 002.99 PCT			371	17.14	-1.82	291	17.68	.04	354	18.62	S 3.85
234	16.42	-1.43	<u>Nitrate Nitrogen</u>			322	15.95	S -6.93	Avg	17.67		377	17.86	1.20
230	10.55	s -16.33	<u>Other</u>			Meth: 010.12 PCT			131	17.66	-.12	072	17.68	.56
Meth: 001.99 PCT			027	0.20	.78	<u>Total Nitrogen</u>			029	17.65	-.15	Avg	17.52	
<u>Ammoniacal Nitrogen</u>			Avg	0.19		<u>Salicylic</u>			095	17.66	-.33	300	17.35	-.61
<u>Other</u>			232	0.19	-.94	254	17.56	.28	247	17.64	-.34	402	17.19	-1.17
397	17.55	.91	Meth: 009.10 PCT			Avg	17.54		041	17.61	-.34	420	16.18	S -4.67
255	17.38	.79	<u>Ammon & Nitrate N</u>			185	17.52	-1.19	027	17.61	-.35	Meth: 010.XX PCT		
096	17.17	.63	<u>Devarda</u>			Meth: 010.60 PCT			450	17.60	-.36	<u>Total Nitrogen</u>		
409	17.03	.53	030	17.77	1.30	<u>Total Nitrogen</u>			096	17.59	-.41	428	22.90	s 24.54
371	16.77	.34	257	17.53	.40	<u>Combustion</u>			425	17.58	-.49	354	18.62	s 4.55
300	16.70	.30	Avg	17.42		428	22.90	s 25.73	057	17.57	-.51	255	18.35	s 3.27
Avg	16.31		200	17.29	-.54	255	18.35	s 3.32	073	17.57	-.53	406	18.23	2.71
027	16.29	-.02	090	17.12	-1.16	406	18.23	2.72	351	17.57	-.54	035	18.11	2.17
420	14.29	-1.48	Meth: 009.99 PCT			035	18.11	2.15	024	17.56	-.58	049	18.04	1.86
193	13.59	-1.99	<u>Ammon & Nitrate N</u>			049	18.04	1.83	232	17.55	-.65	043	17.96	1.61
Meth: 001.XX PCT			<u>Other</u>			043	17.96	1.57	023	17.54	-.68	114	17.98	1.54
<u>Ammoniacal Nitrogen</u>			420	14.88	.71	114	17.98	1.49	025	17.52	-.78	444	17.92	1.26
309	17.61	.92	Meth: 009.XX PCT			055	17.68	R 1.26	177	17.51	-.81	055	17.68	R 1.20
397	17.55	.87	<u>Ammon & Nitrate N</u>			444	17.92	1.19	426	17.48	-.97	390	17.90	1.19
444	17.41	.73	030	17.77	.78	390	17.90	1.12	009	17.47	-1.00	377	17.86	1.02
255	17.38	.71	257	17.53	.56	007	17.75	.83	369	17.48	-1.01	136	17.83	.86
096	17.17	.51	200	17.29	.34	136	17.83	.78	451	17.53	R -1.13	007	17.75	.85
409	17.03	.39	090	17.12	.19	037	17.82	.75	330	17.45	-1.32	037	17.82	.83
416	17.01	.37	Avg	16.91		296	17.81	.66	443	17.42	-1.33	405	17.82	.81
405	16.91	.28	420	14.88	-1.85	162	17.78	.59	234	17.38	-1.45	296	17.81	.75
232	16.84	.22	Meth: 009.99 PCT			233	17.74	.56	072	17.40	-1.46	162	17.78	.67
371	16.77	.15	<u>Ammon & Nitrate N</u>			022	17.78	.53	028	17.45	R -1.47	022	17.78	.63
300	16.70	.13	<u>Other</u>			102	17.25	-2.21	102	17.25	-2.21	233	17.74	.61
						106	17.75	.45	086	17.22	s -3.09	231	17.76	.54

* 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: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.99 PCT			Meth: 020.XX PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
325	17.75	.54	330	17.45	-1.15	<u>Spectrometric</u>			<u>Other</u>			231	45.60	-.39
106	17.75	.54	234	17.38	-1.25	371	45.66	.40	443	46.06	.97	300	45.59	-.47
360	17.76	.51	072	17.40	-1.27	231	45.60	.33	114	45.94	.34	432	45.55	-.48
292	17.74	.42	028	17.45 R	-1.31	200	45.40	.20	Avg	45.89		451	45.82 X	-.52
409	17.72	.37	300	17.35	-1.40	Avg	45.36		402	45.68	-1.20	200	45.40	-.70
095	17.66	.31	102	17.25	-1.98	425	45.10	-.32	193	42.55 S	-18.35	096	45.13	-1.08
040	17.68	.21	402	17.19	-2.16	030	44.93	-.55				425	45.10	-1.11
072	17.68	.18	371	17.14	-2.39	450	44.77	-.87	Meth: 020.XX PCT			030	44.93	-1.38
291	17.68	.16	086	17.22 s	-2.84	420	44.17	-1.54	<u>Total Phosphate</u>			450	44.77	-1.71
131	17.66	.12	230	16.85 s	-3.78	234	43.36	-2.53	428	48.27 s	3.75	420	44.17	-2.57
029	17.65	.10	420	16.18 s	-6.85	309	42.03 S	-4.22	330	48.00	3.33	234	43.36 A	-3.78
211	17.67	.09	322	15.95 s	-7.92	324	41.30 S	-5.14	117	47.47 R	2.82	193	42.55 s	-5.02
Avg	17.65		324	15.55 s	-9.86	230	32.70 s	-16.02	042	46.65 R	1.71	309	42.03 s	-5.81
309	17.64	-.09							095	46.84	1.56	324	41.30 s	-6.92
041	17.61	-.20	Meth: 020.10 PCT			Meth: 020.40 PCT			390	46.65 R	1.52	230	32.70 s	-20.09
450	17.60	-.21	<u>Total Phosphate</u>			<u>Total Phosphate</u>			255	46.55	1.12			
027	17.61	-.22	<u>Grav Quimociac</u>			<u>Automated</u>			035	46.42	.91	Meth: 030.10 PCT		
029	17.64	-.26	095	46.84 s	5.01	042	46.65 R	2.31	406	46.36	.82	Insoluble Phosphate		
096	17.59	-.26	041	45.96	1.43	035	46.42	1.31	393	46.33	.77	<u>Grav Quimociac</u>		
247	17.64	-.28	090	45.97	.65	409	45.88	.24	426	46.19	.55	405	0.17	.88
425	17.58	-.34	405	45.93	.44	Avg	45.76		041	45.96	.45	Avg	0.15	
057	17.57	-.36	Avg	45.84		247	45.61	-.30	443	46.06	.37	090	0.13	-.85
073	17.57	-.38	057	45.84	-.15	096	45.13	-1.28	232	46.05	.35			
351	17.57	-.40	444	45.81	-.75				416	45.98	.24	Meth: 030.40 PCT		
254	17.56	-.42	117	45.82	-.79	Meth: 020.50 PCT			090	45.97	.23	Insoluble Phosphate		
024	17.56	-.42	300	45.59	-1.62	<u>Total Phosphate</u>			114	45.94	.19	<u>Automated</u>		
232	17.55	-.50				<u>ICP</u>			405	45.93	.16	096	0.39	1.08
023	17.54	-.52	Meth: 020.20 PCT			330	48.00	1.50	409	45.88	.09	Avg	0.37	
393	17.57	-.62	<u>Total Phosphate</u>			117	47.47	1.30	057	45.84	.05	409	0.36	-.58
025	17.52	-.62	<u>Spectrometric</u>			Avg	46.68		Avg	45.83				
177	17.51	-.65	428	48.27 S	3.69	255	46.55	-.21	369	45.75	-.13	Meth: 030.50 PCT		
185	17.52	-.73	406	46.36	1.27	393	46.33	-.41	292	45.75	-.15	Insoluble Phosphate		
426	17.48	-.80	232	46.05	.88	426	46.19	-.56	444	45.81	-.22	<u>ICP</u>		
009	17.47	-.82	416	45.98	.79	390	46.65	-.62	402	45.68	-.23	255	0.25	.71
369	17.48	-.84	451	45.82 X	.73	432	45.55	-1.28	117	45.82	-.24			
451	17.53 R	-1.00	292	45.75	.50				371	45.66	-.28			
090	17.43	-1.04	369	45.75	.49				257	45.67	-.31			
443	17.42	-1.15	257	45.67	.43				247	45.61	-.33			

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 030.XX PCT			Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 041.XX PCT		
<u>Insoluble Phosphate</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
096	0.39	1.23	096	0.39	1.23	322	47.15	2.95	322	47.15	2.74	102	44.90	-.86
409	0.36	.92	322	47.15	2.95	354	46.44	1.39	354	46.44	1.61	022	45.00	-.95
Avg	0.26		211	46.09	1.05	291	46.31	1.22	291	46.31	1.39	325	45.00 R	-1.06
255	0.25	-.13	254	45.65 R	1.03	022	45.48	.52	072	46.22	1.34	360	44.73	-1.13
405	0.17	-.85	057	45.77	.71	043	45.74	.50	377	46.26	1.33	055	44.65	-1.27
090	0.13	-1.18	055	45.82	.67	393	45.53	.28	057	45.53 R	1.06	351	43.96	-2.36
			177	45.62	.34	023	45.35	.10	211	46.09	1.04	009	43.77	-2.69
			296	45.51	.13	Avg	45.34		254	45.65 R	.95	086	43.85 s	-3.88
Meth: 040.10 PCT			Meth: 040.40 PCT			Meth: 041.60 PCT			Meth: 048.20 PCT			Meth: 048.20 PCT		
<u>InDir Available Phos</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Water Soluble Phosph</u>		
<u>Grav Quim</u>			<u>Automated</u>			<u>EDTA Extract</u>			<u>Spectrometric</u>			<u>Spectrometric</u>		
405	45.85	1.11	405	45.85	1.11	057	45.53 R	1.25	022	45.48	.62	096	41.16	.78
Avg	45.84		090	45.84	-.51	028	45.44	.84	043	45.72	.45	393	41.07	.51
090	45.84	-.51	072	45.20	-.56	043	45.72	.83	073	45.57	.43	Avg	40.87	
			029	45.16	-.64	073	45.57	.70	009	45.45	.41	420	40.38	-1.28
			260	45.05	-1.00	106	45.56	.57	177	45.62	.37			
			185	44.94	-1.00	296	45.39	.28	049	45.47	.32	Meth: 050.50 PCT		
			102	44.90	-1.07	Avg	45.24		131	45.59	.25	Soluble Potash		
			022	45.00	-1.14	037	45.11	-.26	393	45.53	.23	<u>ICP (Oxalate)</u>		
						177	45.21	-.33	106	45.56	.23	420	0.22	.71
						351	43.96	-2.24	296	45.51	.16	Meth: 050.51 PCT		
									136	45.51	.11	Soluble Potash		
									131	45.48	.08	<u>ICP (Citrate)</u>		
									Avg	45.44		009	0.12	.71
									040	45.38	-.11	Meth: 050.60 PCT		
									296	45.39	-.15	Soluble Potash		
									023	45.35	-.19	<u>Flame (Oxalate)</u>		
									029	45.30	-.22	443	0.00	.00
									025	45.23	-.33	Meth: 050.99 PCT		
									072	45.20	-.41	Soluble Potash		
									177	45.21	-.47	<u>Other</u>		
									029	45.16	-.48	325	0.69	1.29
									037	45.11	-.53	Avg	0.34	
									007	45.10	-.72			
									185	44.94	-.80			
									260	45.05	-.82			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.99 PCT			Meth: 101.30 PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 144.99 PCT		
<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>		
402	0.18	-.62	009	0.32	-.27	027	0.88	-.19	096	0.88	-.33	409	1.21	.70
377	0.17	-.67	057	0.33 R	-.33	433	0.88	-.24	433	0.88	-.33	351	1.16	.31
			102	0.32	-.35	096	0.88	-.24	009	0.88	-.35	247	1.17	.15
			106	0.31	-.64	037	0.88	-.24	102	0.87	-.44	009	1.16	.08
Meth: 050.XX PCT			Meth: 121.00 PCT			Meth: 121.XX PCT			Meth: 144.01 PCT			Meth: 144.XX PCT		
<u>Soluble Potash</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>			<u>Sulfur</u>		
<u>Avg</u>			<u>AA</u>			<u>Acid Soluble Magnesi</u>			<u>Gravimetric</u>			<u>Gravimetric</u>		
325	0.69	2.03	193	1.27 s	5.30	022	0.76	-1.63	193	13.51 s	131.95	193	13.51 s	131.95
Avg	0.23		200	1.03	1.03	102	0.87	-.35	230	1.30 S	2.19	255	1.51 s	3.51
420	0.22	-.03	043	1.01	.67	393	0.85	-.57	043	1.43	1.99	043	1.43	2.68
402	0.18	-.23	Avg	0.97		231	0.84	-.68	028	1.27	.42	230	1.30 s	2.59
377	0.17	-.28	028	0.94	-.61	324	0.81	-1.01	028	1.27	.94	028	1.27	.94
009	0.12	-.50	095	0.89	-1.27	106	0.80	-1.12	Avg	1.23		027	1.25	.74
443	0.00	-1.00				022	0.76	-1.63	095	1.23	-.08	390	1.25	.69
						230	0.72	-2.07	296	1.20	-.30	405	1.23	.68
									405	1.23	-.40	354	1.22	.51
									200	1.15	-.89	095	1.23	.48
									450	1.12	-1.15	409	1.21	.33
												296	1.20	.21
												Avg	1.18	
												247	1.17	-.17
												009	1.16	-.22
												393	1.16	-.28
												232	1.15	-.30
												351	1.16	-.38
												102	1.13	-.49
												200	1.15	-.54
												450	1.12	-.70
												096	1.11	-.76
												035	1.10	-.89
												231	0.94	-2.55

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 151.00 PPM			Meth: 151.XX PPM			Meth: 181.00 PPM			Meth: 181.XX PPM			Meth: 191.30 PPM		
Arsenic			Arsenic			Cadmium			Cadmium			Chromium		
<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
136	11.00	.87	136	11.00	.13	136	2.55	.87	009	2.95	.75	027	121.94	1.11
Avg	6.00		Avg	10.45		Avg	2.24		232	2.75 R	.74	390	119.50 R	.95
200	1.00	-.87	009	9.30	-.27	193	1.92	-.86	037	2.71	.28	009	118.80	.87
Meth: 151.30 PPM			Meth: 165.00 PCT			Meth: 181.30 PPM			Meth: 190.00 PCT			Meth: 191.99 PPM		
Arsenic			Acid Soluble Boron			Cadmium			Water Soluble Chlори			Chromium		
<u>ICP</u>			<u>Spectrometric</u>			<u>ICP</u>			<u>Titrimetric</u>			<u>Other</u>		
106	18.00	1.70	393	0.017	-.71	450	3.43 R	2.38	035	2.45	-.85	096	108.09	
065	14.66	.81	Meth: 165.99 PCT			106	3.00	.79	230	2.15	-1.58	096	106.50	-.13
231	13.93	.59	Acid Soluble Boron			247	3.00	.79	193	1.92	-2.25	035	105.00	-.26
450	13.50	.49	Other			106	3.00	.79	Meth: 190.99 PCT			444	104.70	-.28
096	13.25	.41	009	0.051	1.56	009	2.95	.65	Water Soluble Chlори			405	100.00	-.65
247	13.00	.34	433	0.038	.80	Avg	2.76		Titrimetric			230	94.50	-1.09
102	12.56	.24	444	0.024	.06	102	2.72	-.16	444 0.03 .71			393	86.03	-1.76
Avg	11.76		Avg	0.024		324	2.75	-.17	Meth: 190.99 PCT			324	78.80	-2.34
393	11.45	-.11	106	0.020	-.20	037	2.71	-.37	Water Soluble Chlори			Meth: 191.99 PPM		
230	11.20	-.15	409	0.005	-1.07	231	2.56	-.68	Other			Chromium		
009	9.30	-.67	232	0.004	-1.12	232	2.75	-.83	065 2.87 .87			Other		
444	5.80	-1.62	Meth: 165.XX PCT			065	2.43	-1.10	Avg 1.49			409 108.00 .71		
405	4.50	-1.98	Acid Soluble Boron			230	2.45	-1.17	009 0.10 -.87			Meth: 191.XX PPM		
Meth: 151.99 PPM			Other			Meth: 181.99 PPM			Meth: 190.XX PCT			Chromium		
Arsenic			009 7.89 .71			Cadmium			Water Soluble Chlори			Other		
<u>Other</u>			043 0.038 .80			<u>Other</u>			065 2.87 1.29			409 108.00 .71		
409	7.89	.71	Avg 0.024			409 2.75 -.71			Avg 1.00			Meth: 191.XX PPM		
Meth: 151.XX PPM			106 0.020 -.20			Meth: 181.XX PPM			009 0.10 -.62			Chromium		
Arsenic			393 0.017 R -.44			Cadmium			444 0.03 -.67			Other		
106	18.00	1.74	Meth: 181.99 PPM			450 3.43 R 2.26			Meth: 191.30 PPM			ICP		
065	14.66 R	.98	009 0.051 1.56			393 3.22 1.51			Chromium			231 124.70 1.34		
231	13.93	.80	433 0.038 .80			444 2.98 .97			Avg 122.85 1.18			065 122.85 1.18		
450	13.50	.71	444 0.024 .06			405 3.00 .88			Meth: 191.30 PPM			Chromium		
096	13.25	.65	Avg 0.024			247 3.00 .88			Chromium			247 111.00 .24		
247	13.00	.59	106 0.020 -.20			106 3.00 .88			ICP			106 110.00 .23		
102	12.56	.49	393 0.017 R -.44			247 3.00 .88			231 124.70 1.34			037 109.72 .17		
393	11.45	.24	409 0.005 -1.07			106 3.00 .88			065 122.85 1.18			Avg 108.09		
230	11.20	.17	232 0.004 -1.12											

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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: 191.XX PPM Chromium</u>			<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			<u>Meth: 221.99 PCT Acid Soluble Copper Other</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.XX PCT Acid Soluble Iron</u>		
409	108.00	-.08	136	9.95 s	16.41	409	0.7900 S	329.93	354	1.06 R	1.89	426	1.00	1.15
096	106.50	-.14	450	4.00 s	3.60	402	0.0040	.91	035	1.05 R	1.79	444	1.00	.96
035	105.00	-.27	324	3.45	1.53	Avg	0.0021		057	1.04	1.54	409	0.97	.65
444	104.70	-.28	037	3.40	1.43	231	0.0001	-.81	390	1.01	1.06	402	0.98	.54
405	100.00	-.67	102	3.27 R	1.21	<u>Meth: 221.XX PCT Acid Soluble Copper</u>			426	1.00	.93	255	0.97	.33
230	94.50	-1.12	106	3.00	.50	409	0.7900 s	2948.50	444	1.00	.80	041	0.96	.26
393	86.03	-1.82	247	2.90	.35	232	0.7000 s	2604.98	409	0.97	.51	095	0.96	.22
324	78.80	-2.41	009	2.90	.27	255	0.0550 R	203.81	255	0.97	.36	027	0.96	.17
<u>Meth: 202.00 PPM Acid Soluble Cobalt AA</u>			057	2.80	.19	402	0.0040 R	14.40	041	0.96	.27	324	0.96	.15
136	9.95 S	.00	231	2.80	.04	444	0.0010	2.75	027	0.96	.27	106	0.96	.08
<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			Avg	2.78		200	0.0004	.43	324	0.96	.25	Avg	0.96	
450	4.00 s	3.15	409	2.65	-.31	403	0.0004	.38	106	0.96	.21	009	0.95	-.13
324	3.45	1.26	232	2.55	-.55	433	0.0003	.15	009	0.95	.07	231	0.95	-.22
037	3.40	1.17	035	2.19	-1.36	247	0.0003	.14	131	0.95	.01	131	0.95	-.22
102	3.27	.98	393	1.98	-1.84	<u>Meth: 221.00 PCT Acid Soluble Copper Atomic Absorption</u>			Avg	0.95	.01	096	0.95	-.42
106	3.00	.32	<u>Meth: 221.00 PCT Acid Soluble Copper Atomic Absorption</u>			450	0.0002	-.46	096	0.95	-.09	043	0.94	-.55
247	2.90	.24	200	0.0004	1.02	193	0.0001	-.57	065	0.95	-.23	232	0.91	-1.20
009	2.90	.12	043	0.0004	.90	231	0.0001	-.60	232	0.91	-.65	102	0.90	-1.48
Avg	2.84		Avg	0.0002		095	0.0001	-.60	102	0.90	-.84	433	0.85	-2.63
057	2.80	-.19	193	0.0001	-.88	065	0.0001	-.61	433	0.85	-1.61	230	0.78 A	-4.45
232	2.55	-.61	095	0.0001	-.95	041	0.0000	-.98	230	0.78	-2.84	028	0.63 s	-8.27
035	2.19	-1.35	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			<u>Meth: 241.00 PCT Acid Soluble Iron Atomic Absorption</u>			<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>			<u>Meth: 251.00 PPM Lead Atomic Absorption</u>		
393	1.98	-1.79	232	0.7000 s	2042.25	095	0.96	.92	402	0.98	.92	136	5.65	-.71
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			255	0.0550 R	159.66	Avg	0.95		Avg	0.96		<u>Meth: 251.30 PPM Lead ICP</u>		
231	2.80	.85	444	0.0010	2.02	043	0.94	-.81	231	0.95	-.81	393	8.39 X	2.44
Avg	2.73		Avg	0.0003		028	0.63 S	-20.49	<u>Meth: 241.XX PCT Acid Soluble Iron</u>			324	4.85 R	.95
409	2.65	-.88	247	0.0003	-.02	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			405	1.54 s	14.36	247	3.00	.14
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			433	0.0003	-.04	405	1.54 s	9.82	247	1.38 s	10.51	Avg	2.68	
231	2.80	.85	450	0.0002	-.48	065	0.0001	-.61	354	1.06 R	2.59	037	2.49	-.08
Avg	2.73		065	0.0001	-.61	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			035	1.05 R	2.43	450	2.00	-.29
409	2.65	-.88	041	0.0000	-.90	405	1.54 s	9.82	057	1.04	2.06	231	1.88	-.35
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	247	1.38 s	7.23	390	1.01	1.35	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>		
231	2.80	.85	<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			405	1.54 s	9.82	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			393	8.39 X	2.44
Avg	2.73		247	0.0003	-.02	433	0.0003	-.04	405	1.54 s	14.36	324	4.85 R	.95
409	2.65	-.88	433	0.0003	-.04	450	0.0002	-.48	247	1.38 s	10.51	247	3.00	.14
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			450	0.0002	-.48	065	0.0001	-.61	354	1.06 R	2.59	Avg	2.68	
231	2.80	.85	065	0.0001	-.61	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			035	1.05 R	2.43	037	2.49	-.08
Avg	2.73		041	0.0000	-.90	405	1.54 s	9.82	057	1.04	2.06	450	2.00	-.29
409	2.65	-.88	<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			247	1.38 s	7.23	390	1.01	1.35	231	1.88	-.35
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>		
231	2.80	.85	041	0.0000	-.90	405	1.54 s	9.82	405	1.54 s	14.36	324	4.85 R	.95
Avg	2.73		041	0.0000	-.90	247	1.38 s	7.23	247	1.38 s	10.51	247	3.00	.14
409	2.65	-.88	<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			065	0.0001	-.61	354	1.06 R	2.59	Avg	2.68	
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			065	0.0001	-.61	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			035	1.05 R	2.43	037	2.49	-.08
231	2.80	.85	041	0.0000	-.90	405	1.54 s	9.82	057	1.04	2.06	450	2.00	-.29
Avg	2.73		041	0.0000	-.90	247	1.38 s	7.23	390	1.01	1.35	231	1.88	-.35
409	2.65	-.88	<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>		
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	405	1.54 s	9.82	405	1.54 s	14.36	324	4.85 R	.95
231	2.80	.85	041	0.0000	-.90	247	1.38 s	7.23	247	1.38 s	10.51	247	3.00	.14
Avg	2.73		041	0.0000	-.90	065	0.0001	-.61	354	1.06 R	2.59	Avg	2.68	
409	2.65	-.88	041	0.0000	-.90	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			035	1.05 R	2.43	037	2.49	-.08
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	405	1.54 s	9.82	057	1.04	2.06	450	2.00	-.29
231	2.80	.85	041	0.0000	-.90	247	1.38 s	7.23	390	1.01	1.35	231	1.88	-.35
Avg	2.73		041	0.0000	-.90	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>		
409	2.65	-.88	041	0.0000	-.90	405	1.54 s	9.82	405	1.54 s	14.36	324	4.85 R	.95
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	247	1.38 s	7.23	247	1.38 s	10.51	247	3.00	.14
231	2.80	.85	041	0.0000	-.90	065	0.0001	-.61	354	1.06 R	2.59	Avg	2.68	
Avg	2.73		041	0.0000	-.90	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			035	1.05 R	2.43	037	2.49	-.08
409	2.65	-.88	041	0.0000	-.90	405	1.54 s	9.82	057	1.04	2.06	450	2.00	-.29
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	247	1.38 s	7.23	390	1.01	1.35	231	1.88	-.35
231	2.80	.85	041	0.0000	-.90	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>		
Avg	2.73		041	0.0000	-.90	405	1.54 s	9.82	405	1.54 s	14.36	324	4.85 R	.95
409	2.65	-.88	041	0.0000	-.90	247	1.38 s	7.23	247	1.38 s	10.51	247	3.00	.14
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			041	0.0000	-.90	065	0.0001	-.61	354	1.06 R	2.59	Avg	2.68	
231	2.80	.85	041	0.0000	-.90	<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			035	1.05 R	2.43	037	2.49	-.08
Avg	2.73		041	0.0000	-.90	405	1.54 s	9.82	057	1.04	2.06	450	2.00	-.29
409	2.65	-.88	041	0.0000	-.90	247	1.38 s	7.23	390	1.01	1.35	231	1.88	-.35

* 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: 251.30 PPM			Meth: 261.30 PCT			Meth: 289.30 PPM			Meth: 289.XX PPM			Meth: 291.XX PPM		
Lead			Acid Soluble Manganese			Molybdenum			Molybdenum			Nickel		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
230	1.78	-.39	102	0.028	.08	444	10.00	2.08	035	7.64	-.39	231	12.61	1.07
102	1.36	-.57	Avg	0.028		231	8.89	.97	433	7.18	-.79	102	12.19	.83
065	0.55 X	-.92	009	0.028	-.29	106	8.50	.77	393	7.29 R	-.98	450	11.50	.46
			131	0.028	-.51	450	8.50	.77	009	6.45	-1.54	409	11.60	.39
Meth: 251.99 PPM			232 0.027 -1.05			102 8.44 .61			230 6.44 -1.55			065 11.37 .23		
Lead			096 0.027 -1.10			247 8.40 .49			324 6.40 -1.60			Avg 11.04		
<u>Other</u>			393 0.027 -1.33			065 8.14 .23			Meth: 291.00 PPM			247 11.00 -.03		
409	2.06	.71	444 0.027 R -2.44			037 7.99 .10			Nickel			037 10.68 -.25		
						057 7.96 .08			<u>Atomic Absorption</u>			106 10.50 -.50		
Meth: 251.XX PPM			Meth: 261.99 PCT			Avg 7.91			136 14.25 .71			035 10.35 -.53		
Lead			Acid Soluble Manganese			232 7.80 -.11			Meth: 291.30 PPM			232 9.30 -1.18		
393	8.39 X	2.39	<u>Other</u>			035 7.64 -.35			Nickel			009 9.25 -1.22		
136	5.65	1.20	402 0.030 .87			433 7.18 -.73			<u>ICP</u>			230 8.96 -1.42		
324	4.85 R	.87	Avg 0.028			393 7.29 R -.93			444 17.81 s 5.96			Meth: 301.30 PPM		
247	3.00	.04	409 0.027 -.87			009 6.45 -1.47			231 12.61 1.59			Selenium		
Avg	2.91					230 6.44 -1.48			102 12.19 1.29			<u>ICP</u>		
037	2.49	-.19	Meth: 261.XX PCT			324 6.40 -1.53			450 11.50 .79			247 6.00 1.25		
409	2.06	-.38	<u>Acid Soluble Manganese</u>						065 11.37 .56			Avg 2.65		
450	2.00	-.40	065 0.031 1.89			Meth: 289.99 PPM			247 11.00 .25			065 0.95 X -.64		
231	1.88	-.46	106 0.030 1.29			Molybdenum			037 10.68 -.08			450 1.00 -.72		
230	1.78	-.50	402 0.030 1.29			<u>Other</u>			035 10.35 -.41			Meth: 301.99 PPM		
102	1.36	-.68	035 0.029 .67			409 8.47 .71			106 10.50 -.45			Selenium		
065	0.55 X	-1.04	057 0.029 .42			Meth: 289.XX PPM			232 9.30 -1.17			<u>Other</u>		
			433 0.028 .16			Molybdenum			009 9.25 -1.21			296 0.25 .71		
Meth: 261.00 PCT			102 0.028 .10			444 10.00 2.10			230 8.96 -1.46			Meth: 301.XX PPM		
Acid Soluble Manganese			Avg 0.028			231 8.89 .96			Meth: 291.99 PPM			Selenium		
<u>AA</u>			009 0.028 -.25			106 8.50 .76			Nickel			Avg 2.05		
028	0.027	.71	131 0.028 -.46			450 8.50 .76			<u>Other</u>			065 0.95 X -.45		
			232 0.027 -.98			102 8.44 .60			409 11.60 .71			450 1.00 -.57		
Meth: 261.30 PCT			409 0.027 -1.02			409 8.47 .53			Meth: 291.XX PPM			296 0.25 -.71		
Acid Soluble Manganese			096 0.027 -1.03			247 8.40 .47			<u>Nickel</u>					
<u>ICP</u>			028 0.027 -1.03			065 8.14 .20			444 17.81 s 4.63					
065	0.031	1.93	393 0.027 -1.25			037 7.99 .07			136 14.25 2.19					
106	0.030	1.31	444 0.027 R -2.33			057 7.96 .07								
035	0.029	.66				Avg 7.95								
057	0.029	.40				232 7.80 -.15								
433	0.028	.13												

* 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

Meth: 311.99 PCT

Sodium

Other

009	0.19	1.24
102	0.18	.64
057	0.18	.52
Avg	0.17	
035	0.17	-.46
232	0.15	-.85
405	0.14	-1.53

Meth: 321.00 PCT

Acid Soluble Zinc

Atomic Absorption

450	0.006	.52
Avg	0.005	
043	0.005	-1.11

Meth: 321.30 PCT

Acid Soluble Zinc

ICP

037	0.476 s	2130.43
393	0.007 s	9.83
035	0.005 R	2.63
409	0.005	1.88
390	0.005	.91
433	0.005	.72
065	0.004	.16
Avg	0.004	
057	0.004	-.53
324	0.004	-.58
102	0.004	-.63
247	0.004	-.81
009	0.004	-.99
232	0.004	-1.40
444	0.001 s	-15.26

Lab Average* Index

Meth: 321.99 PCT

Acid Soluble Zinc

Other

402	0.007	-.71
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Meth: 321.XX PCT

Acid Soluble Zinc

037	0.476 s	563.16
393	0.007	2.12
402	0.007	2.12
450	0.006	1.03
043	0.005 R	.87
Avg	0.005	
409	0.005	-.02
390	0.005	-.26
433	0.005	-.32
065	0.004	-.46
035	0.005	-.54
324	0.004	-.61
057	0.004	-.64
102	0.004	-.66
232	0.004	-.70
247	0.004	-.72
009	0.004	-.76
444	0.001 s	-4.54

Meth: 325.30 PCT

Water Soluble Zinc

ICP

393	0.000	.00
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Lab Average* Index

Lab Average* Index

* 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	- 2.03	5.83	0.50	121.30	27	0.41	1.75	0.14
001.99	9	0.00	1.03	0.05	121.XX	32	0.48	1.73	0.24
001.XX	17	- 0.32	1.66	0.13	144.01	9	13.61	40.59	0.77
002.99	2	0.00	1.11	0.37	144.99	13	0.33	1.53	0.21
002.XX	2	0.00	1.11	0.37	144.XX	23	5.94	27.49	0.54
009.10	4	0.00	1.07	0.16	151.00	2	0.00	1.22	0.02
009.XX	5	0.00	1.06	0.04	151.30	12	0.00	1.02	0.09
010.11	7	- 0.99	2.79	0.13	151.XX	15	0.06	1.01	0.07
010.12	2	0.00	0.39	0.82	165.99	6	0.000	1.048	0.033
010.60	56	0.19	3.92	0.50	165.XX	7	- 0.057	0.969	0.080
010.99	6	- 0.14	2.82	0.14	181.00	2	0.00	1.21	0.12
010.XX	69	0.02	3.66	0.44	181.30	15	0.15	1.09	0.40
020.10	8	0.62	1.87	0.71	181.XX	18	0.13	1.06	0.32
020.20	19	- 1.14	4.11	0.21	190.99	2	0.00	1.22	0.02
020.40	5	0.35	1.22	0.67	190.XX	3	0.00	1.12	0.02
020.50	7	0.00	0.93	0.44	191.30	18	0.05	1.01	0.10
020.99	4	- 4.58	9.21	0.46	191.XX	19	0.05	1.01	0.10
020.XX	42	- 0.81	3.65	0.39	202.30	11	0.22	1.20	0.65
030.10	2	0.00	1.20	0.17	202.99	2	0.00	1.20	0.17
030.40	2	0.00	0.78	0.67	202.XX	14	1.45	4.46	0.67
030.XX	5	0.00	1.05	0.12	221.00	4	0.0000	1.0549	0.2009
040.10	2	0.00	0.06	0.86	221.30	8	275.23	716.16	1.0333
040.40	2	0.00	1.19	0.20	221.99	3	109.65	189.93	14.465
040.XX	5	0.00	1.05	0.16	221.XX	15	384.18	973.12	57.689
041.10	18	0.01	0.93	0.39	241.00	3	- 6.79	11.78	1.35
041.40	5	0.56	1.57	0.49	241.30	22	0.94	2.70	0.21
041.50	10	0.00	0.98	0.29	241.99	2	0.00	1.14	0.31
041.60	9	0.05	0.92	0.50	241.XX	27	0.63	4.04	0.33
041.99	3	- 47.00	71.48	5.16	251.30	9	0.10	1.02	0.08
041.XX	36	- 1.19	6.93	0.68	251.XX	11	0.08	1.01	0.08
048.20	3	0.00	1.06	0.28	261.30	12	- 0.078	0.999	0.670
048.XX	3	0.00	1.06	0.28	261.99	2	0.000	1.224	0.038
050.99	3	0.00	1.12	0.03	261.XX	15	- 0.058	0.974	0.612
050.XX	6	0.00	1.05	0.03	289.30	16	- 0.04	0.97	0.28
060.00	4	0.00	1.07	0.12	289.XX	17	- 0.04	0.97	0.27
060.XX	4	0.00	1.07	0.12	291.30	12	0.49	1.96	0.29
101.30	18	0.65	2.09	0.27	291.XX	14	0.33	1.56	0.22
101.XX	18	0.65	2.09	0.27	301.30	3	0.00	1.08	0.22
121.00	5	1.01	2.43	0.76	301.XX	4	0.00	1.05	0.21

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
311.99	6	0.00	1.02	0.23					
311.XX	6	0.00	1.02	0.23					
321.00	2	0.000	0.662	0.729					
321.30	14	151.78	569.11	20.530					
321.XX	17	32.852	136.56	4.936					