

- Pass 1 Results for 76 Labs - - Pass 2 Results for 74 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, Other		001.99	2	2.54	2.87	0.05	2	2.54	2.87	0.05
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	1.81	0.01	0.02	1	1.81	0.01	0.02
Ammon & Nitrate N, Devarda	892.01	009.10	1	0.73	0.17	0.24	1	0.73	0.17	0.24
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	5.04	0.10	0.02	9	5.04	0.10	0.02
Total Nitrogen, Salicylic	955.04D	010.12	4	5.16	0.16	0.03	4	5.16	0.16	0.03
Total Nitrogen, Combustion		010.60	53	5.14	0.19	0.08	49	5.15	0.18	0.06
Total Nitrogen, Other		010.99	4	5.21	0.20	0.08	4	5.21	0.20	0.08
Method Group 010.XX PCT			70	5.13	0.18	0.07	64	5.13	0.16	0.05
Total Phosphate, Spectrometric	958.01	020.20	2	0.15	0.09	0.01	2	0.15	0.09	0.01
Total Phosphate, Automated	978.01	020.40	1	0.38	0.04	0.06	1	0.38	0.04	0.06
Total Phosphate, ICP		020.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 020.XX PCT			4	0.17	0.16	0.02	4	0.17	0.16	0.02
InDir Available Phosphate, ICP		040.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	2	0.05	0.06	0.00	2	0.05	0.06	0.00
Dir Available Phosphate, ICP		041.50	4	0.05	0.04	0.00	3	0.05	0.04	0.00
Method Group 041.XX PCT			6	0.05	0.04	0.00	5	0.05	0.05	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.20	0.01	0.01	1	0.20	0.01	0.01
Soluble Potash, STPB Oxalate	958.02	050.00	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Soluble Potash, ICP (Oxalate)		050.50	2	0.10	0.11	0.10	2	0.10	0.11	0.10
Soluble Potash, ICP (Citrate)		050.51	3	0.05	0.06	0.00	3	0.05	0.06	0.00
Soluble Potash, Other		050.99	4	0.08	0.14	0.00	3	0.10	0.15	0.00
Method Group 050.XX PCT			10	0.07	0.10	0.02	9	0.05	0.10	0.00
Acid Soluble Calcium, ICP		101.30	5	0.05	0.05	0.00	5	0.05	0.05	0.00
Acid Soluble Calcium, Other		101.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Method Group 101.XX PCT			6	0.05	0.05	0.00	5	0.05	0.05	0.00
Acid Soluble Magnesium, ICP		121.30	5	0.01	0.00	0.00	4	0.01	0.00	0.00
Water Soluble Magnesium, AA		131.00	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Sulfur, Gravimetric	980.02a	144.01	10	3.52	0.13	0.03	10	3.52	0.13	0.03
Sulfur, Gravimetric	980.02b	144.02	4	3.52	0.12	0.04	4	3.52	0.12	0.04
Sulfur, Gravimetric	980.02c	144.03	4	3.51	0.43	0.05	4	3.51	0.43	0.05
Sulfur, Spectrometric		144.70	1	2.99	0.01	0.01	1	2.99	0.01	0.01
Sulfur, Other		144.99	21	3.71	0.25	0.11	21	3.71	0.25	0.11
Method Group 144.XX PCT			40	3.61	0.27	0.07	37	3.59	0.26	0.06
Arsenic, ICP		151.30	5	0.18	0.17	0.02	5	0.18	0.17	0.02
Acid Soluble Boron, Other		165.99	1	0.016	0.001	0.001	1	0.016	0.001	0.001
Cadmium, ICP		181.30	3	1.08	1.68	0.03	3	1.08	1.68	0.03
Chromium, ICP		191.30	3	3.75	3.86	0.49	3	3.75	3.86	0.49
Chromium, Other		191.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 191.XX PPM			4	2.81	3.69	0.37	4	2.81	3.69	0.37

- Pass 1 Results for 76 Labs - - Pass 2 Results for 74 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
Acid Soluble Cobalt, AA		202.00	1	10.50	10.61	15.00	1	10.50	10.61	15.00
Acid Soluble Cobalt, ICP	965.11	202.30	7	9.06	6.01	0.26	6	7.10	3.66	0.12
Acid Soluble Cobalt, Other		202.99	1	1.45	0.07	0.10	1	1.45	0.07	0.10
Method Group 202.XX PPM			9	8.37	6.38	1.88	8	8.11	6.17	0.24
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0002	0.0000	0.0000	2	0.0002	0.0000	0.0000
Acid Soluble Copper, ICP		221.30	6	0.0004	0.0001	0.0000	5	0.0003	0.0001	0.0000
Acid Soluble Copper, Other		221.99	1	0.0000	0.0000	0.0000	1	0.0000	0.0000	0.0000
Method Group 221.XX PCT			9	0.0003	0.0002	0.0000	8	0.0003	0.0002	0.0000
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Acid Soluble Iron, ICP		241.30	3	0.02	0.04	0.01	3	0.02	0.04	0.01
Method Group 241.XX PCT			4	0.02	0.03	0.00	3	0.00	0.00	0.00
Lead, ICP		251.30	6	14.85	11.70	0.37	6	14.85	11.70	0.37
Lead, Other		251.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 251.XX PPM			7	12.73	12.04	0.31	7	12.73	12.04	0.31
Acid Soluble Manganese, ICP	972.02a	261.30	3	0.002	0.000	0.000	3	0.002	0.000	0.000
Acid Soluble Manganese, Other		261.99	3	0.001	0.001	0.000	3	0.001	0.001	0.000
Method Group 261.XX PCT			6	0.002	0.001	0.000	5	0.001	0.001	0.000
Mercury, ICP		281.30	2	1.68	1.93	0.05	2	1.68	1.93	0.05
Mercury, Other		281.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 281.XX PPM			3	1.12	1.73	0.03	3	1.12	1.73	0.03
Molybdenum, ICP		289.30	4	0.68	0.61	0.02	4	0.68	0.61	0.02
Molybdenum, Other		289.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 289.XX PPM			5	0.54	0.61	0.02	5	0.54	0.61	0.02
Nickel, Atomic Absorption		291.00	2	5.49	0.16	0.03	2	5.49	0.16	0.03
Nickel, ICP		291.30	15	5.44	0.34	0.11	14	5.44	0.34	0.07
Nickel, Other		291.99	2	5.79	0.17	0.07	2	5.79	0.17	0.07
Method Group 291.XX PPM			19	5.48	0.32	0.09	18	5.48	0.32	0.06
Selenium, ICP		301.30	3	0.65	0.82	0.09	3	0.65	0.82	0.09
Sodium, Other		311.99	4	1.17	0.12	0.01	4	1.17	0.12	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	1	0.000	0.000	0.000	1	0.000	0.000	0.000
Acid Soluble Zinc, ICP		321.30	11	0.025	0.011	0.001	10	0.024	0.011	0.001
Acid Soluble Zinc, Other		321.99	2	0.014	0.016	0.002	2	0.014	0.016	0.002
Method Group 321.XX PCT			15	0.024	0.016	0.001	14	0.024	0.016	0.001
Water Soluble Zinc, ICP		325.30	1	0.019	0.000	0.000	1	0.019	0.000	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.99 PCT Ammoniacal Nitrogen			Meth: 010.60 PCT Total Nitrogen			Meth: 010.60 PCT Total Nitrogen			Meth: 010.XX PCT Total Nitrogen			Meth: 010.XX PCT Total Nitrogen		
<u>Other</u>			<u>Combustion</u>			<u>Combustion</u>								
420	5.03	.87	351	5.68	2.89	377	5.05	-.57	291	5.42	1.72	275	5.09	-.36
Avg	2.54		023	5.64	2.71	177	5.05	-.58	324	5.15 R	1.53	234	5.07	-.39
096	0.06	-.87	255	5.54	2.21	136	5.05	-.60	037	5.36	1.39	309	5.07	-.44
			291	5.42	1.45	022	5.05	-.63	007	5.35	1.36	232	5.06	-.45
			037	5.36	1.15	035	5.13	-.71	096	5.35	1.29	102	5.06	-.45
Meth: 005.00 PCT Nitrogen From Urea			007			043			025			114		
<u>Urease (as N)</u>			096			233			307			377		
444	1.81	.71	025	5.33	.98	027	5.07 R	-.98	444	5.31	1.09	177	5.05	-.52
			307	5.31	.89	486	4.96	-1.07	455	5.29	.96	136	5.05	-.54
			040	5.25	.60	034	4.96	-1.10	450	5.25	.78	022	5.05	-.59
Meth: 009.10 PCT Ammon & Nitrate N			450			324			040			255		
<u>Devarda</u>			131			325			131			420		
258	0.73	.71	055	5.20	.48	070	4.90	-1.42	055	5.20	.59	185	5.01	-.75
			028	5.20	.42	260	4.87	-1.58	028	5.20	.55	035	5.13 R	-.77
			086	5.20	.35	489	4.86	-1.65	086	5.20	.49	481	5.01	-.77
Meth: 010.11 PCT Total Nitrogen			354			488			354			043		
<u>Modified Comprehensi</u>			095			472			470			476		
470	5.21	1.67	292	5.19	.20	042	4.54 s	-3.60	095	5.20	.43	233	5.01	-.82
137	5.10	.62	490	5.18	.19	426	4.36 s	-4.40	029	5.13	.35	027	5.07 R	-1.03
371	5.08	.37	Avg	5.15					292	5.19	.33	486	4.96	-1.06
220	5.08	.37	231	5.13	-.16	Meth: 010.99 PCT			330	5.15	.32	034	4.96	-1.09
114	5.06	.35	247	5.13	-.17	Total Nitrogen			490	5.18	.31	211	4.91	-1.36
309	5.07	.33	444	5.13	-.17	<u>Other</u>			Avg	5.13		070	4.90	-1.46
Avg	5.04		049	5.12	-.25	487	5.75 s	3.15	231	5.13	-.06	325	5.05 R	-1.49
476	5.00	-.43	330	5.15	-.28	460	5.45	1.26	444	5.13	-.10	456	4.88	-1.58
211	4.91	-1.33	041	5.10	-.32	444	5.31	.55	247	5.13	-.12	260	4.87	-1.63
456	4.88	-1.69	360	5.10	-.32	Avg	5.21		137	5.10	-.18	489	4.86	-1.71
			072	5.12	-.33	255	5.03	-.89	049	5.12	-.19	488	4.82	-1.95
			029	5.13	-.34	420	5.04	-.90	360	5.10	-.23	472	4.82 R	-2.25
Meth: 010.12 PCT Total Nitrogen			018			Meth: 010.XX PCT			041			042		
<u>Salicylic</u>			393			Total Nitrogen			041			426		
254	5.32	1.01	420	5.09	-.41				393	5.09	-.27	Meth: 020.20 PCT		
455	5.29	.85	275	5.09	-.42	<u>Total Nitrogen</u>			018	5.09	-.27	Total Phosphate		
Avg	5.16		157	5.09	-.42	487	5.75 s	4.19	072	5.12	-.32	<u>Spectrometric</u>		
185	5.01	-.93	234	5.07	-.46	351	5.68 A	3.32	220	5.08	-.32	420		
481	5.01	-.95	232	5.06	-.51	023	5.64	3.12	371	5.08	-.32	Avg		
			102	5.06	-.52	255	5.54	2.56	420	5.09	-.36	292		
						460	5.45	1.96	157	5.09	-.36	0.08		

* 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: 020.40 PCT			Meth: 041.XX PCT			Meth: 050.99 PCT			Meth: 101.XX PCT			Meth: 144.01 PCT					
Total Phosphate			Dir Available Phosph			Soluble Potash			Acid Soluble Calcium			Sulfur					
<u>Automated</u>						<u>Other</u>						<u>Gravimetric</u>					
484	0.38	-.71	022	0.10	1.12	325	0.30	1.29	354	0.14	1.78	096	0.06	.15			
			325	0.10	1.12												
			Avg	0.05		Avg	0.10		Avg	0.05		Avg	0.05				
Meth: 020.50 PCT			393 0.04 R -.13			474 0.01 R -.60			484 0.03 -.45			Meth: 144.02 PCT					
Total Phosphate			354 0.03 -.30			484 0.01 -.61			009 0.02 -.66			Sulfur					
<u>ICP</u>			377 0.01 -.92			490 0.00 -.68			474 0.02 R -.76			<u>Gravimetric</u>					
490	0.00	.00	072	0.00	-1.03				232	0.01	-.81	292	3.66	1.15			
						Meth: 050.XX PCT			Meth: 121.30 PCT			043	3.52	.50			
Meth: 020.XX PCT			Meth: 048.20 PCT			<u>Soluble Potash</u>			Acid Soluble Magnesi			233	3.54	.21			
Total Phosphate			Water Soluble Phosph			022	0.50 s	4.67	<u>ICP</u>			Avg	3.52				
484	0.38	1.34	<u>Spectrometric</u>			325	0.30	2.51				371	3.35	-1.37			
420	0.23	.38	420	0.20	.71	354	0.17 R	1.52	354 0.04 s 20.87								
Avg	0.17					096	0.13	.77	393 0.02 R 6.61								
292	0.08	-.61	Meth: 050.00 PCT			Avg 0.05			096 0.01 1.37			Meth: 144.03 PCT					
490	0.00	-1.09	Soluble Potash			292 0.03 -.30			474 0.01 .37			Sulfur					
			<u>STPB Oxalate</u>			474 0.01 -.43			Avg 0.01			<u>Gravimetric</u>					
Meth: 040.50 PCT			022 0.50 S .00			484 0.01 -.45			009 0.01 -.78			231			4.04	1.23	
InDir Available Phos			072 0.00 .00			377 0.01 -.45			131 0.01 -.93			472			3.62	.25	
<u>ICP</u>			Avg 0.00			072 0.00 -.55						Avg			3.51		
072	0.00	.00	Meth: 050.50 PCT			490 0.00 -.55			Meth: 131.00 PCT			220			3.47	-.15	
			Soluble Potash			072 0.00 -.55			Water Soluble Magnes			426			2.92	-1.38	
Meth: 041.10 PCT			<u>ICP (Oxalate)</u>			Meth: 101.30 PCT			<u>AA</u>			Meth: 144.70 PCT					
Dir Available Phosph			354 0.17 1.05			Acid Soluble Calcium			484 0.01 .00			Sulfur					
<u>Grav Quimociac</u>			Avg 0.10			<u>ICP</u>						<u>Spectrometric</u>					
022	0.10	.87	292 0.03 -.64			354 0.14 1.77			Meth: 144.01 PCT			474			5.09 S	297.91	
Avg	0.05					096 0.06 .20			Sulfur			Avg			2.99		
072	0.00	-.87	Meth: 050.51 PCT			Avg 0.05			<u>Gravimetric</u>			486			2.99	-.71	
Meth: 041.50 PCT			009 0.02 -.58			009 0.02 -.58			095			3.63			.84		
Dir Available Phosph			474 0.02 -.67			232 0.01 -.72			324			3.62			.80		
<u>ICP</u>			096 0.13 1.29						114			3.60			.64		
325	0.10	1.23	Avg 0.05			Meth: 101.99 PCT			040			3.55			.46		
Avg	0.05		377 0.01 -.57			Acid Soluble Calcium			055			3.56			.45		
393	0.04 R	-.11	072 0.00 -.72			<u>Other</u>			029			3.56			.33		
354	0.03	-.28				484 0.03 .00			157			3.54			.13		
377	0.01	-.95							028			3.53			.11		
									Avg			3.52					
									041			3.42			-.80		
									481			3.20			-2.56		
									360			3.75			.60		

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 202.00 PPM			Meth: 221.00 PCT		
<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>AA</u>			<u>Atomic Absorption</u>		
117	3.85	.55	444	3.61	.24	393	0.00	-1.05	474	10.50	.71	474	0.0002	-.83
371	3.84	.50	351	3.63	.18	Meth: 165.99 PCT			Meth: 202.30 PPM			Meth: 221.30 PCT		
450	3.79	.31	095	3.63	.14	<u>Acid Soluble Boron</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
037	3.78	.25	472	3.62	.12	<u>Other</u>			<u>ICP</u>			<u>ICP</u>		
232	3.77	.24	324	3.62	.12	354	0.016	.71	037	20.79 R	3.74	220	0.0037 S	24.73
Avg	3.71		114	3.60	.04	Meth: 181.30 PPM			095	10.87	1.03	354	0.0025 S	16.54
393	3.70	-.16	029	3.56	-.12	<u>Cadmium</u>			096	9.13	.55	393	0.0006	1.87
351	3.63	-.32	055	3.56	-.19	<u>ICP</u>			009	8.85	.48	450	0.0004 R	.31
444	3.61	-.48	233	3.54	-.20	009	3.25	1.29	393	8.19	.30	Avg	0.0003	
490	3.60	-.61	157	3.54	-.21	Avg	1.08		Avg	7.10		433	0.0003	-.21
488	3.55	-.85	028	3.53	-.23	450	0.00	-.65	486	5.45	-.45	486	0.0003	-.49
330	3.50	-.86	040	3.55	-.25	041	0.00	-.65	041	0.15	-1.90	096	0.0003	-.50
354	3.51	-.91	330	3.50	-.35	Meth: 191.30 PPM			Meth: 202.99 PPM			Meth: 221.99 PCT		
096	3.49	-.92	043	3.52	-.35	<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
025	3.32	-1.62	096	3.49	-.40	<u>ICP</u>			<u>Other</u>			<u>Other</u>		
027	3.26	-1.87	354	3.51	-.48	041	8.71	1.29	255	1.45	.71	484	0.0000	.00
023	2.07 s	-9.48	220	3.47	-.51	Avg	3.75		Meth: 202.XX PPM			Meth: 221.XX PCT		
Meth: 144.XX PCT			488	3.55 R	-.51	450	1.50	-.60	<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
<u>Sulfur</u>			041	3.42	-.65	486	1.05	-.70	037	20.79	2.06	220	0.0037 s	21.12
474	5.09 s	5.79	371	3.35	-.92	Meth: 191.99 PPM			474	10.50 R	1.28	354	0.0025 s	14.27
157	4.48 s	3.41	025	3.32	-1.08	<u>Chromium</u>			095	10.87	.45	393	0.0006	2.05
307	4.19 R	2.36	027	3.26	-1.31	<u>Other</u>			096	9.13	.17	450	0.0004 R	.60
275	4.12	2.05	481	3.20	-1.51	484	0.00	.00	393	8.19	.01	433	0.0003	.31
231	4.04	1.74	486	2.99	-2.33	Meth: 191.XX PPM			Avg	8.11		486	0.0003	.09
255	4.03	1.71	426	2.92	-2.58	<u>Chromium</u>			486	5.45	-.43	096	0.0003	.07
325	3.90	1.20	444	2.52 s	-4.15	<u>ICP</u>			255	1.45	-1.08	Avg	0.0003	
009	3.86	1.09	023	2.07 s	-8.74	041	8.71	1.60	041	0.15	-1.29	095	0.0003	-.07
117	3.85	1.00	Meth: 151.30 PPM			Meth: 191.XX PPM			Meth: 221.00 PCT			Meth: 221.XX PCT		
371	3.84	.95	<u>Arsenic</u>			<u>Chromium</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
360	3.75 R	.82	<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>		
450	3.79	.77	474	2.15 s	15.22	Avg	2.81		043	0.0002	.90	474	0.0002	-.45
037	3.78	.71	095	0.43	1.44	450	1.50	-.38	Avg	0.0002		484	0.0000	-1.70
232	3.77	.71	486	0.28	.55	486	1.05	-.48						
393	3.70	.43	041	0.20	.10	484	0.00	-.76						
490	3.60	.39	Avg	0.18										
292	3.66	.25	450	0.01	-1.00									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 241.00 PCT Acid Soluble Iron			Meth: 251.XX PPM Lead			Meth: 281.30 PPM Mercury			Meth: 289.XX PPM Molybdenum			Meth: 291.XX PPM Nickel			
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>						
474	0.00	.71	393	370.50 s	29.72	484	0.00	-.88	095	54.61 s	152.37	102	6.13	2.07	
Meth: 241.30 PCT Acid Soluble Iron			Meth: 261.30 PCT Acid Soluble Manganese			Meth: 281.XX PPM Mercury			Meth: 291.00 PPM Nickel			Meth: 291.30 PPM Nickel			
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>						
354	0.07	1.30	354	0.002	1.28	393	3.35	.87	481	5.63	.87	027	5.93	1.40	
Avg	0.02		Avg	0.002		Avg	1.68		Avg	5.49		220	5.55 R	1.00	
393	0.00	-.62	102	0.002	-.65	450	0.01	-.87	220	5.35	-.86	325	5.80	.99	
009	0.00	-.66	009	0.002	-.66	484	0.00	-.87	481	5.63	.87	444	5.72	.75	
Meth: 241.XX PCT Acid Soluble Iron			Meth: 261.99 PCT Acid Soluble Manganese			Meth: 289.30 PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 301.30 PPM Selenium			
<u>ICP</u>			<u>Other</u>			<u>ICP</u>			<u>ICP</u>						
354	0.07 R	110.33	474	0.002	1.03	393	1.34	1.08	095	54.61 s	146.51	360	5.48	.18	
393	0.00	1.22	393	0.001	.16	095	1.15	.77	102	6.13	2.12	420	5.48	.18	
Avg	0.00		Avg	0.001		Avg	0.68		325	5.80	1.09	360	5.47	.10	
474	0.00	-.30	484	0.000	-1.19	255	0.16	-.84	220	5.55 R	.99	Avg	5.44		
009	0.00	-.96	Meth: 261.XX PCT Acid Soluble Manganese			Meth: 289.99 PPM Molybdenum			Meth: 291.30 PPM Nickel			Meth: 301.30 PPM Selenium			
Meth: 251.30 PPM Lead			<u>Other</u>			<u>Other</u>			<u>Atomic Absorption</u>						
393	370.50 s	30.40	474	0.002 R	1.38	484	0.00	.00	444	5.72	.86	037	5.68	.75	
220	36.80	1.88	354	0.002	.84	Avg	0.16	-.84	247	5.63	.57	247	5.63	.46	
037	16.62	.15	009	0.002	.45	Avg	0.05	-1.01	233	5.54	.32	233	5.54	.19	
486	15.15	.03	102	0.002	.44	Meth: 289.XX PPM Molybdenum	Meth: 291.99 PPM Nickel			Meth: 311.99 PCT Sodium					
Avg	14.85		393	0.001	.12	<u>Other</u>			<u>Other</u>						
009	12.20	-.23	Avg	0.001		393	1.34	1.30	027	5.93	.86	095	1.69	1.28	
041	8.18	-.57	484	0.000	-1.84	095	1.15	1.00	Avg	5.79		Avg	0.65		
450	0.15	-1.26	Meth: 251.99 PPM Lead			Meth: 289.XX PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 311.99 PCT Sodium			
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>						
484	0.00	.00	484	0.000	-1.84	Avg	0.54		Avg	5.64	-.87	041	0.26	-.49	
Meth: 251.99 PPM Lead			Meth: 289.99 PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 311.99 PCT Sodium			
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>						
484	0.00	.00	484	0.000	-1.84	041	0.05	-.80	255	3.88 S	-11.03	393	0.01	-.79	
Meth: 251.99 PPM Lead			Meth: 289.99 PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 311.99 PCT Sodium			
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>						
484	0.00	.00	484	0.000	-1.84	Avg	0.16	-.62	Avg	5.64	-.87	474	1.36	1.62	
Meth: 251.99 PPM Lead			Meth: 289.99 PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 311.99 PCT Sodium			
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>						
484	0.00	.00	484	0.000	-1.84	041	0.05	-.80	255	3.88 S	-11.03	Avg	1.17		
Meth: 251.99 PPM Lead			Meth: 289.99 PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 311.99 PCT Sodium			
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>						
484	0.00	.00	484	0.000	-1.84	Avg	0.16	-.62	Avg	5.64	-.87	232	1.10	-.53	
Meth: 251.99 PPM Lead			Meth: 289.99 PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 311.99 PCT Sodium			
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>						

* 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 1.11 -.53
354 1.10 -.57

Meth: 321.00 PCT

Acid Soluble Zinc

Atomic Absorption

043 0.000 -.71

Meth: 321.30 PCT

Acid Soluble Zinc

ICP

096 0.060 s 3.27
354 0.038 1.24
233 0.037 1.14
022 0.035 .92
009 0.032 R .72
292 0.030 .51
Avg 0.024
433 0.023 -.17
420 0.022 -.22
486 0.021 -.28
131 0.021 -.31
037 0.018 -.60
095 0.000 -2.22

Meth: 321.99 PCT

Acid Soluble Zinc

Other

474 0.028 .87
Avg 0.014
484 0.000 -.86

Meth: 321.XX PCT

Acid Soluble Zinc

096 0.060 2.19
354 0.038 .85
233 0.037 .78

Lab Average* Index

Meth: 321.XX PCT

Acid Soluble Zinc

022 0.035 .63
009 0.032 .50
292 0.030 .36
474 0.028 R .26
Avg 0.024
433 0.023 -.09
420 0.022 -.12
486 0.021 -.16
131 0.021 -.19
037 0.018 -.38
043 0.000 -1.45
095 0.000 -1.45
484 0.000 -1.47

Meth: 325.30 PCT

Water Soluble Zinc

ICP

393 0.019 .71

Lab Average* Index

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
001.99	2	0.00	1.22	0.01	241.XX	4	27.35	54.71	7.14
001.XX	2	0.00	1.22	0.01	251.30	7	4.34	11.53	0.03
010.11	9	0.00	1.02	0.16	251.XX	8	3.71	10.55	0.02
010.12	4	0.00	1.07	0.12	261.30	3	0.000	1.107	0.130
010.60	55	- 0.19	1.21	0.41	261.99	3	0.000	1.116	0.054
010.99	5	0.55	1.53	0.71	261.XX	6	0.229	1.102	0.058
010.XX	70	- 0.07	1.31	0.50	281.30	2	0.00	1.22	0.02
020.20	2	0.00	1.22	0.09	281.XX	3	0.00	1.12	0.02
020.XX	4	0.00	1.07	0.10	289.30	4	0.00	1.08	0.02
041.10	2	0.00	1.22	0.00	289.XX	5	0.00	1.06	0.02
041.50	4	- 0.02	0.91	0.02	291.00	2	0.00	1.22	0.10
041.XX	6	- 0.02	0.95	0.02	291.30	17	8.33	35.64	0.26
050.00	2	0.00	0.00	0.00	291.99	3	- 3.68	6.42	0.21
050.50	2	0.00	0.90	0.59	291.XX	21	6.77	33.41	0.21
050.51	3	0.00	1.12	0.00	301.30	3	0.00	1.12	0.07
050.99	4	- 0.15	0.96	0.01	301.XX	3	0.00	1.12	0.07
050.XX	10	0.63	1.71	0.44	311.99	4	0.00	1.08	0.06
101.30	5	0.00	1.06	0.05	311.XX	4	0.00	1.08	0.06
101.XX	6	- 0.13	1.00	0.05	321.30	12	0.331	1.326	0.048
121.30	6	4.48	8.23	1.99	321.99	2	0.000	1.215	0.110
121.XX	6	4.48	8.23	1.99	321.XX	15	0.014	0.983	0.049
144.01	11	- 0.73	2.59	0.20					
144.02	4	0.00	1.04	0.25					
144.03	4	0.00	1.08	0.07					
144.70	2	148.85	210.50	8.02					
144.99	23	- 0.15	1.80	1.44					
144.XX	41	0.06	1.69	1.13					
151.30	6	1.90	4.74	4.13					
151.XX	6	1.90	4.74	4.13					
181.30	3	0.00	1.12	0.02					
181.XX	3	0.00	1.12	0.02					
191.30	3	0.00	1.11	0.08					
191.XX	4	0.00	1.08	0.07					
202.30	7	0.53	1.71	0.06					
202.XX	9	0.04	0.98	0.41					
221.00	2	0.0000	1.1785	0.2357					
221.30	8	5.1137	9.7553	1.3355					
221.XX	11	3.2356	7.2966	0.9501					
241.30	3	0.00	1.10	0.14					