

- Pass 1 Results for 76 Labs - - Pass 2 Results for 71 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	0.06	0.01	0.02	2	0.06	0.01	0.02
Nitrogen From Urea, Other .....		005.99	1	46.30	0.11	0.16	1	46.30	0.11	0.16
Ammon & Nitrate N, Devarda .....	892.01	009.10	1	4.31	0.03	0.04	1	4.31	0.03	0.04
Total Nitrogen, Combustion .....		010.60	5	0.09	0.05	0.01	4	0.07	0.02	0.01
Total Phosphate, Grav Quimociac .....	962.02	020.10	12	46.47	0.80	0.11	11	46.49	0.82	0.06
Total Phosphate, Spectrometric .....	958.01	020.20	16	46.70	0.68	0.15	15	46.71	0.69	0.12
Total Phosphate, Automated .....	978.01	020.40	7	46.42	0.35	0.19	7	46.42	0.35	0.19
Total Phosphate, ICP .....		020.50	8	46.86	1.44	0.46	7	47.14	1.25	0.24
Total Phosphate, Other .....		020.99	4	46.66	0.85	0.61	3	46.62	0.75	0.11
Method Group 020.XX PCT			47	46.62	0.86	0.24	45	46.66	0.81	0.16
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	4.24	0.03	0.04	1	4.24	0.03	0.04
Insoluble Phosphate, Spectrometric ....	963.03C	030.20	4	4.26	0.63	0.23	4	4.26	0.63	0.23
Insoluble Phosphate, Automated .....	978.01	030.40	2	4.39	0.15	0.07	2	4.39	0.15	0.07
Insoluble Phosphate, Other .....		030.99	1	4.19	0.07	0.10	1	4.19	0.07	0.10
Method Group 030.XX PCT			8	4.28	0.44	0.15	8	4.28	0.44	0.15
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	42.35	0.74	0.10	2	42.35	0.74	0.10
InDir Available Phosphate, Spectrometri	960.02	040.20	3	42.67	0.62	0.24	3	42.67	0.62	0.24
InDir Available Phosphate, Automated ..	960.02	040.40	2	42.17	0.20	0.10	2	42.17	0.20	0.10
InDir Available Phosphate, Other .....		040.99	1	42.47	0.03	0.04	1	42.47	0.03	0.04
Method Group 040.XX PCT			8	42.44	0.54	0.14	8	42.44	0.54	0.14
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	9	42.42	2.28	0.25	9	42.42	2.28	0.25
Dir Available Phosphate, Automated ....	978.01	041.40	2	41.27	2.88	0.15	2	41.27	2.88	0.15
Dir Available Phosphate, ICP .....		041.50	11	44.11	1.74	0.39	11	44.11	1.74	0.39
Dir Available Phosphate, EDTA Extract .	993.01	041.60	12	43.03	2.53	0.62	11	43.28	2.45	0.41
Method Group 041.XX PCT			34	43.11	2.34	0.42	32	43.20	2.34	0.30
Water Soluble Phosphate, Spectrometric	970.01	048.20	6	34.12	0.76	0.29	5	34.20	0.78	0.16
Water Soluble Phosphate, ICP .....		048.50	2	34.96	0.65	0.35	2	34.96	0.65	0.35
Water Soluble Phosphate, Other .....		048.99	4	35.13	0.88	0.28	4	35.13	0.88	0.28
Method Group 048.XX PCT			12	34.59	0.90	0.30	12	34.59	0.90	0.30
Soluble Potash, ICP (Oxalate) .....		050.50	3	0.24	0.06	0.01	3	0.24	0.06	0.01
Soluble Potash, ICP (Citrate) .....		050.51	4	0.27	0.11	0.08	3	0.25	0.08	0.01
Soluble Potash, Other .....		050.99	3	0.31	0.15	0.11	3	0.31	0.15	0.11
Method Group 050.XX PCT			10	0.27	0.11	0.07	8	0.24	0.06	0.01
Free Water, Vacuum Oven .....	965.08B	060.00	9	0.97	0.13	0.04	9	0.97	0.13	0.04
Free Water, Other .....		060.99	2	2.13	0.26	0.04	2	2.13	0.26	0.04
Method Group 060.XX PCT			12	1.25	0.51	0.04	12	1.25	0.51	0.04
Acid Soluble Calcium, AA .....	945.04	101.00	1	17.79	0.47	0.66	1	17.79	0.47	0.66
Acid Soluble Calcium, ICP .....		101.30	11	16.97	1.03	0.51	10	16.79	0.86	0.39
Method Group 101.XX PCT			12	17.04	1.02	0.53	12	17.04	1.02	0.53

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Acid Soluble Magnesium, ICP		121.30	10	0.58	0.02	0.02	10	0.58	0.02	0.02
Method Group 121.XX PCT			10	0.58	0.02	0.02	10	0.58	0.02	0.02
Sulfur, Gravimetric	980.02a	144.01	8	1.14	0.25	0.06	8	1.14	0.25	0.06
Sulfur, Gravimetric	980.02b	144.02	1	1.48	0.01	0.01	1	1.48	0.01	0.01
Sulfur, Spectrometric		144.70	1	1.29	0.02	0.03	1	1.29	0.02	0.03
Sulfur, Other		144.99	19	1.09	0.15	0.04	18	1.10	0.15	0.04
Method Group 144.XX PCT			29	1.13	0.19	0.04	27	1.11	0.17	0.04
Arsenic, Atomic Absorption		151.00	1	8.40	0.42	0.60	1	8.40	0.42	0.60
Arsenic, ICP		151.30	8	8.49	2.11	0.81	7	8.06	1.78	0.50
Arsenic, Other		151.99	1	9.59	0.06	0.08	1	9.59	0.06	0.08
Method Group 151.XX PPM			10	8.59	1.91	0.72	9	8.27	1.64	0.47
Acid Soluble Boron, Other		165.99	5	0.018	0.013	0.001	4	0.019	0.015	0.000
Cadmium, Atomic Absorption		181.00	1	137.50	2.12	3.00	1	137.50	2.12	3.00
Cadmium, ICP		181.30	8	139.26	10.42	2.71	8	139.26	10.42	2.71
Cadmium, Other		181.99	2	149.90	7.74	2.20	2	149.90	7.74	2.20
Method Group 181.XX PPM			11	141.03	10.24	2.64	11	141.03	10.24	2.64
Chromium, Atomic Absorption		191.00	1	433.00	1.41	2.00	1	433.00	1.41	2.00
Chromium, ICP		191.30	9	425.24	28.42	11.30	9	425.24	28.42	11.30
Chromium, Other		191.99	1	475.50	0.71	1.00	1	475.50	0.71	1.00
Method Group 191.XX PPM			11	430.51	29.52	9.52	10	428.99	30.00	6.78
Acid Soluble Cobalt, AA		202.00	1	3.00	0.00	0.00	1	3.00	0.00	0.00
Acid Soluble Cobalt, ICP	965.11	202.30	8	3.84	0.46	0.23	7	3.86	0.47	0.15
Acid Soluble Cobalt, Other		202.99	1	4.05	0.16	0.22	1	4.05	0.16	0.22
Method Group 202.XX PPM			11	3.61	0.70	0.18	10	3.61	0.73	0.13
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0032	0.0005	0.0007	2	0.0032	0.0005	0.0007
Acid Soluble Copper, ICP		221.30	13	0.0030	0.0004	0.0001	13	0.0030	0.0004	0.0001
Acid Soluble Copper, Other		221.99	1	0.0033	0.0000	0.0000	1	0.0033	0.0000	0.0000
Method Group 221.XX PCT			17	0.0031	0.0006	0.0002	15	0.0030	0.0004	0.0001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	0.67	0.00	0.00	1	0.67	0.00	0.00
Acid Soluble Iron, ICP		241.30	9	0.66	0.06	0.01	9	0.66	0.06	0.01
Acid Soluble Iron, Other		241.99	1	0.69	0.01	0.02	1	0.69	0.01	0.02
Method Group 241.XX PCT			11	0.66	0.06	0.01	11	0.66	0.06	0.01
Lead, Atomic Absorption		251.00	1	3.00	0.00	0.00	1	3.00	0.00	0.00
Lead, ICP		251.30	6	4.27	2.30	0.41	6	4.27	2.30	0.41
Lead, Other		251.99	2	3.84	0.51	0.26	2	3.84	0.51	0.26
Method Group 251.XX PPM			9	4.03	1.91	0.33	9	4.03	1.91	0.33
Acid Soluble Manganese, AA	972.02b	261.11	1	0.021	0.000	0.001	1	0.021	0.000	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	9	0.020	0.001	0.000	9	0.020	0.001	0.000
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.020	0.000	0.000	1	0.020	0.000	0.000

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Acid Soluble Manganese, Other		261.99	1	0.019	0.000	0.000	1	0.019	0.000	0.000
Method Group 261.XX PCT			12	0.020	0.001	0.000	12	0.020	0.001	0.000
Mercury, ICP		281.30	1	0.03	0.02	0.03	1	0.03	0.02	0.03
Mercury, Other		281.99	1	0.26	0.04	0.05	1	0.26	0.04	0.05
Method Group 281.XX PPM			2	0.14	0.13	0.04	2	0.14	0.13	0.04
Molybdenum, ICP		289.30	11	8.33	1.08	0.50	10	8.12	0.80	0.31
Molybdenum, Other		289.99	2	7.55	3.41	0.00	2	7.55	3.41	0.00
Method Group 289.XX PPM			13	8.21	1.57	0.42	12	8.02	1.45	0.26
Nickel, Atomic Absorption		291.00	2	34.50	4.20	6.00	2	34.50	4.20	6.00
Nickel, ICP		291.30	9	32.42	2.54	0.75	9	32.42	2.54	0.75
Nickel, Other		291.99	1	36.00	0.28	0.40	1	36.00	0.28	0.40
Method Group 291.XX PPM			12	33.07	2.92	1.60	11	32.89	2.56	0.83
Selenium, Atomic Absorption		301.00	1	1.90	0.85	1.20	1	1.90	0.85	1.20
Selenium, ICP		301.30	2	2.35	2.10	0.38	2	2.35	2.10	0.38
Selenium, Other		301.99	2	1.57	0.17	0.14	2	1.57	0.17	0.14
Method Group 301.XX PPM			5	1.95	1.30	0.45	5	1.95	1.30	0.45
Sodium, Other		311.99	5	0.91	0.02	0.01	4	0.91	0.01	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	3	0.040	0.001	0.000	3	0.040	0.001	0.000
Acid Soluble Zinc, ICP		321.30	21	0.038	0.004	0.001	20	0.038	0.004	0.000
Acid Soluble Zinc, Other		321.99	1	0.041	0.000	0.000	1	0.041	0.000	0.000
Method Group 321.XX PCT			25	0.039	0.004	0.001	24	0.038	0.003	0.000
Water Soluble Zinc, Other		325.99	1	0.039	0.001	0.001	1	0.039	0.001	0.001

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
<u>Meth: 001.99 PCT</u>			<u>Meth: 020.10 PCT</u>			<u>Meth: 020.50 PCT</u>			<u>Meth: 020.XX PCT</u>			<u>Meth: 020.XX PCT</u>					
Ammoniacal Nitrogen			Total Phosphate			Total Phosphate			Total Phosphate			Total Phosphate					
<u>Other</u>			<u>Grav Quimociac</u>			<u>ICP</u>											
096	0.06	.87	057	46.23 R	-.52	422	50.15 S	2.87	211	47.10	.54	488	40.80 s	-7.32			
Avg	0.06		157	45.20	-1.57	483	48.81	1.34	258	47.03	.46	291	39.39 s	-8.98			
474	0.05	-.87	041	44.60	-2.30	368	48.44	1.04	292	46.92	.32	<u>Meth: 030.10 PCT</u>					
<u>Meth: 005.99 PCT</u>			<u>Meth: 020.20 PCT</u>			Avg 47.14			470 46.78 .15			Insoluble Phosphate					
Nitrogen From Urea			Total Phosphate			421 46.70 -.37			421 46.70 .13			<u>Grav Quimociac</u>					
<u>Other</u>			<u>Spectrometric</u>			389 46.25 -.72			405 46.72 .09			090 4.24 -.71					
309	46.30	.71	481	48.40	2.45	426	46.21	-.80	493	46.71	.06	<u>Meth: 030.20 PCT</u>					
<u>Meth: 009.10 PCT</u>			416 47.28 .83			402 45.51 -1.32			470 46.70 .05			Insoluble Phosphate					
Ammon & Nitrate N			406 47.26 .80			472 44.90 R -1.97			231 46.70 .05			<u>Spectrometric</u>					
<u>Devarda</u>			220 47.09 .56			307 44.01 S -2.66			247 46.66 .04			493 5.00 1.19					
090	4.31	-.71	258 47.03 .47	488 40.80 S -5.14			Avg 46.66			473 4.60 .55			Avg 4.26				
<u>Meth: 010.60 PCT</u>			292 46.92 .30			291 39.39 S -6.23			105 46.66 -.04			220 3.90 -.69			474 3.55 -1.14		
Total Nitrogen			371 46.80 .15			<u>Meth: 020.99 PCT</u>			096 46.57 -.12			<u>Meth: 030.40 PCT</u>			Insoluble Phosphate		
<u>Combustion</u>			405 46.72 .06			Total Phosphate			409 46.60 -.12			<u>Automated</u>			096 4.52 .86		
096	0.18 R	4.39	231 46.70 -.01			<u>Other</u>			049 46.55 -.14			493 5.00 1.19			Avg 4.39		
354	0.10	1.16	473 46.50 -.32			455 46.75 R 1.41			460 46.58 -.17			409 4.26 -.87			486 0.31 S -26.57		
325	0.08	.24	474 46.45 -.39			476 47.48 1.15			473 46.50 -.22			<u>Meth: 030.99 PCT</u>			Insoluble Phosphate		
292	0.08	.24	324 46.60 R -.46			Avg 46.62			322 46.48 -.22			<u>Other</u>			247 4.19 .71		
Avg	0.07		450 46.06 -.95			460 46.58 -.15			474 46.45 -.28			486 45.95 -.88			042 45.95 -.92		
483	0.04	-1.42	489 46.01 -1.01			487 45.82 -1.08			324 46.60 -.38			487 45.82 -1.04			487 45.82 -1.04		
<u>Meth: 020.10 PCT</u>			230 45.80 -1.31			<u>Meth: 020.XX PCT</u>			105 46.53 -.40			230 45.80 -1.07			<u>Insoluble Phosphate</u>		
Total Phosphate			169 45.58 -1.62			Total Phosphate			389 46.25 -.51			169 45.58 -1.34			493 5.00 1.66		
<u>Grav Quimociac</u>			<u>Meth: 020.40 PCT</u>			422 50.15 s 4.94			057 46.23 -.68			402 45.51 -1.43			473 4.60 .74		
444	47.33	1.01	Total Phosphate			483 48.81 2.66			426 46.21 -.70			157 45.20 -1.81			096 4.52 .54		
090	47.23	.90	<u>Automated</u>			368 48.44 2.20			450 46.06 -.76			472 44.90 R -2.50			Avg 4.28		
211	47.10	.73	105 46.53 .91			481 48.40 2.15			486 45.95 -.88			041 44.60 -2.54			090 4.24 -.10		
136	46.79	.36	470 46.70 .80			451 48.10 1.78			450 46.06 -.76			307 44.01 s -3.52					
470	46.78	.35	247 46.66 .69			455 46.75 R 1.30			489 46.01 -.81								
493	46.71	.26	409 46.60 .56			476 47.48 1.02			486 45.95 -.88								
105	46.66	.20	096 46.57 .42			444 47.33 .83			042 45.95 -.92								
049	46.55	.08	Avg 46.42			416 47.28 .77			042 45.95 -1.50								
Avg	46.49		486 45.95 -1.35			406 47.26 .74			277 46.77 .07								
322	46.48	-.02	042 45.95 -1.50			090 47.23 .71			472 44.90 R -2.50								
						220 47.09 .54			041 44.60 -2.54								

\* 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: 030.XX PCT			Meth: 040.XX PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 048.20 PCT				
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>				
247	4.19	-.24	022	45.90 s	6.43	ICP			034	46.21	1.29					
220	3.90	-1.03	220	43.20	1.44	486	45.69	.91	360	46.01	1.20	489	35.08	1.13		
474	3.55	-1.67	090	42.99	1.02	023	45.23	.71	351	45.81	1.11	450	34.48	.56		
486	0.31 s	-9.05	474	42.90	.86	043	45.15	.60	007	45.78	1.10	474	34.36	.20		
			247	42.47	.07	377	45.13	.59	102	45.70	1.07	096	34.22	.02		
			Avg	42.44		Avg	44.11		486	45.69	1.06	Avg	34.20			
Meth: 040.10 PCT			409			42.34	-.20	009	43.55	-.47	043	45.45	.96	473	33.68 R	-.92
InDir Available Phos			096			42.00	-.82	137	42.96	-.66	023	45.23	.89	409	32.89	-1.69
<u>Grav Quim</u>			473			41.90	-1.04	325	42.80	-.78	043	45.15	.83	220	16.78 S	-22.48
022	45.90 S	4.78	493	41.71	-1.36	055	42.15	-1.12	105	45.14	.83					
090	42.99	.86	488	38.05 s	-8.29	368	40.72	-1.95	377	45.13	.82	Meth: 048.50 PCT				
Avg	42.35					354	25.30 s	-10.80	029	44.84	.70	Water Soluble Phosph				
493	41.71	-.87							057	44.58	.59	<u>ICP</u>				
			Meth: 041.10 PCT			Meth: 041.60 PCT			105	44.47	.55	486	35.49	.89		
			Dir Available Phosph			Dir Available Phosph			073	44.18	.44	Avg	34.96			
			<u>Grav Quimociac</u>			<u>EDTA Extract</u>			009	43.55	.30	368	34.43	-.84		
			102	45.70	1.44	034	46.21	1.20	027	43.77	.24					
			105	45.14	1.19	351	45.81	1.03	Avg	43.20		Meth: 048.99 PCT				
			057	44.58	.95	043	45.45	.88	137	42.96	-.11	Water Soluble Phosph				
			Avg	42.42		029	44.84	.63	231	42.70	-.21	<u>Other</u>				
			040	42.20	-.13	105	44.47	.49	325	42.80	-.24	487	36.45	1.52		
			009	42.27	-.14	073	44.18	.39	233	43.15 R	-.40	Avg	35.13			
			177	41.82	-.26	Avg	43.28		009	42.27	-.42	247	35.10	-.16		
			055	41.53	-.39	231	42.70	-.24	040	42.20	-.44	493	34.65	-.57		
			185	39.37	-1.34	233	43.15	-.39	055	42.15	-.45	090	34.33	-.91		
			131	39.16	-1.43	220	40.15	-1.28	177	41.82	-.59					
						117	40.30 R	-1.36	055	41.53	-.71	Meth: 048.XX PCT				
			Meth: 041.40 PCT			Meth: 041.99 PCT			368	40.72	-1.06	<u>Water Soluble Phosph</u>				
			Dir Available Phosph			Dir Available Phosph			220	40.15	-1.31	487	36.45	2.08		
			<u>Automated</u>			<u>Other</u>			117	40.30 R	-1.40	486	35.49	1.03		
			027	43.77	.87	230	22.20 S	.00	106	39.71 X	-1.50	247	35.10	.58		
			Avg	41.27					177	39.46	-1.60	489	35.08	.54		
			131	38.78	-.87				185	39.37	-1.64	493	34.65	.18		
									131	39.16	-1.73	Avg	34.59			
			Meth: 041.50 PCT			Meth: 041.99 PCT			131	38.78	-1.89	368	34.43	-.23		
			Dir Available Phosph			Dir Available Phosph			354	25.30 s	-7.65	474	34.36	-.27		
			<u>ICP</u>			<u>ICP</u>			230	22.20 s	-8.97	090	34.33	-.29		
			360	46.01	1.10							450	34.48	-.40		
			007	45.78	.96											

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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: 048.XX PCT</u>			<u>Meth: 050.XX PCT</u>			<u>Meth: 060.XX PCT</u>			<u>Meth: 101.XX PCT</u>			<u>Meth: 121.XX PCT</u>		
<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
096	34.22	-.42	421	0.25	.21	473	1.05	-.40	409	24.33 s	7.15	421	1.00 s	21.80
473	33.68	-1.15	Avg	0.24		409	1.04	-.41	483	18.75	1.87	483	0.75 s	10.37
409	32.89	-1.90	474	0.23	-.32	096	1.01	-.48	105	17.79	.80	102	0.59	1.14
220	16.78 s	-19.84	488	0.21	-.66	007	0.99	-.52	102	17.84	.80	096	0.59	.66
<u>Meth: 050.50 PCT</u>			<u>Meth: 060.00 PCT</u>			<u>Meth: 101.00 PCT</u>			<u>Meth: 121.00 PCT</u>			<u>Meth: 144.01 PCT</u>		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
<u>ICP (Oxalate)</u>			<u>Vacuum Oven</u>			<u>AA</u>			<u>AA</u>			<u>Gravimetric</u>		
292	0.32	1.29	247	1.94 s	7.31	105	17.79	.71	105	0.43 S	.00	230	2.56 s	5.64
Avg	0.24		416	1.11	1.06	483	18.75 R	2.48	483	0.75 s	10.37	416	1.58	1.78
488	0.21	-.56	405	1.09	.84	102	17.84	1.23	102	0.59	1.14	481	1.52	1.48
354	0.20	-.72	409	1.04	.55	421	17.50	.83	096	0.59	.66	Avg	1.14	
<u>Meth: 050.51 PCT</u>			<u>Meth: 101.30 PCT</u>			<u>Meth: 121.30 PCT</u>			<u>Meth: 144.02 PCT</u>			<u>Sulfur</u>		
<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Gravimetric</u>			<u>Gravimetric</u>		
<u>ICP (Citrate)</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>		
009	0.34 R	2.16	096	1.01	.36	488	15.60	-1.55	421	1.00 s	21.80	043	1.08	-.22
483	0.35	1.29	007	0.99	.21	474	15.15	-1.92	483	0.75 s	10.37	105	1.02	-.50
Avg	0.25		474	0.98	.11	354	12.00 s	-5.59	102	0.59	1.14	324	0.98	-.66
377	0.20	-.64	Avg	0.97		409	24.33 S	.00	096	0.59	.66	444	0.95	-.79
389	0.20	-.64	489	0.83	-1.14	398	17.10	.38	022	0.59	.61	489	0.93	-.85
<u>Meth: 050.99 PCT</u>			<u>Meth: 060.99 PCT</u>			<u>Meth: 101.99 PCT</u>			<u>Meth: 121.00 PCT</u>			<u>Meth: 144.02 PCT</u>		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>ICP</u>			<u>Gravimetric</u>		
025	46.02 S	313.83	486	2.35	.86	488	15.60	-1.55	421	1.00 s	21.80	043	1.08	-.22
325	0.45	1.42	Avg	2.13		474	15.15	-1.92	483	0.75 s	10.37	105	1.02	-.50
Avg	0.31		481	1.91	-.87	354	12.00 s	-5.59	102	0.59	1.14	324	0.98	-.66
421	0.25	-.41	<u>Meth: 060.XX PCT</u>			<u>Meth: 101.99 PCT</u>			<u>Meth: 121.30 PCT</u>			<u>Meth: 144.02 PCT</u>		
474	0.23	-.57	<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
<u>Meth: 050.XX PCT</u>			<u>Free Water</u>			<u>Other</u>			<u>ICP</u>			<u>Gravimetric</u>		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Other</u>			<u>ICP</u>			<u>Gravimetric</u>		
025	46.02 s	783.97	486	2.35	2.17	409	24.33 S	.00	421	1.00 s	21.80	043	1.08	-.22
325	0.45 R	4.38	247	1.94	1.37	409	24.33 S	.00	483	0.75 s	10.37	105	1.02	-.50
009	0.34 R	2.94	481	1.91	1.30	409	24.33 S	.00	102	0.59	1.14	324	0.98	-.66
483	0.35	1.84	Avg	1.25		409	24.33 S	.00	096	0.59	.66	444	0.95	-.79
292	0.32	1.33	416	1.11	-.27	409	24.33 S	.00	022	0.59	.61	489	0.93	-.85
			405	1.09	-.32	409	24.33 S	.00	131	0.59	.60	<u>Meth: 144.02 PCT</u>		
												<u>Sulfur</u>		
												<u>Gravimetric</u>		
												292 1.48 -.71		

\* 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: 144.70 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.99 PCT			Meth: 181.XX PPM		
Sulfur			Sulfur			Arsenic			Acid Soluble Boron			Cadmium		
<u>Spectrometric</u>			<u>ICP</u>			<u>Other</u>			<u>Other</u>					
474	1.29	-.71	483	1.33	1.29	486	9.15	.61	421	0.000	-1.23	009	135.65	-.55
			474	1.29	.99	450	8.75	.40				220	134.00	-.69
			421	1.27	.88	230	8.24	.24				368	134.05	-.72
Meth: 144.99 PCT			102 1.20 .49			Avg 8.06			Meth: 181.00 PPM			230 119.50 -2.10		
Sulfur			472 1.16 .35			474 5.50 -1.46			Cadmium			Meth: 191.00 PPM		
<u>Other</u>			307 1.14 .17			009 5.50 -1.47			<u>Atomic Absorption</u>			Chromium		
117	3.09 s	13.50	231	1.12	.03				136	137.50	.71	<u>Atomic Absorption</u>		
220	2.40 s	8.78	Avg	1.11		Meth: 151.99 PPM			Meth: 181.30 PPM			481 433.00 .71		
009	1.39	1.99	049	1.11	-.02	Arsenic			Cadmium			Meth: 191.30 PPM		
483	1.33	1.62	450	1.10	-.08	<u>Other</u>			<u>ICP</u>			Chromium		
421	1.27	1.14	488	1.09	-.15	409 9.59 .71			096 150.10 1.05			<u>ICP</u>		
102	1.20	.68	057	1.09	-.17	Avg 9.59			486 149.60 .99			096 456.90 1.11		
472	1.16	.49	368	1.07	-.24	042 0.80 S-155.30			474 149.50 .98			009 445.75 .97		
307	1.14	.31	389	1.08	-.26	Meth: 151.XX PPM			102 141.66 .35			486 447.80 .79		
231	1.12	.12	043	1.08	-.26	<u>Arsenic</u>			009 135.65 -.38			102 438.24 .54		
049	1.11	.08	422	1.07	-.38	220 11.50 R 2.17			220 134.00 -.51			450 432.00 .37		
450	1.10	.01	409	1.05	-.39	096 9.85 .97			368 134.05 -.55			Avg 425.24		
Avg	1.10		105	1.02	-.57	409 9.59 .81			230 119.50 -1.90			474 420.50 -.17		
488	1.09	-.12	354	1.03 R	-.67	368 9.43 .71			Meth: 181.99 PPM			368 422.94 -.40		
368	1.07	-.18	486	0.98	-.77	486 9.15 .54			Cadmium			220 393.00 -1.14		
389	1.08	-.23	324	0.98	-.82	450 8.75 .31			<u>Other</u>			230 370.00 -1.94		
409	1.05	-.36	096	0.96	-.88	136 8.40 .20			409 156.50 .87			Meth: 191.99 PPM		
422	1.07	-.39	444	0.95	-1.00	Avg 8.27			Avg 149.90			Chromium		
354	1.03 R	-.71	489	0.93	-1.08	230 8.24 -.23			042 143.30 -.86			<u>Other</u>		
486	0.98	-.81	444	0.92	-1.11	474 5.50 -1.72			Meth: 181.XX PPM			409 475.50 .71		
096	0.96	-.94	247	0.76	-2.06	009 5.50 -1.73			Cadmium			Avg 475.50		
444	0.92	-1.21	Meth: 151.00 PPM			042 0.80 s -4.55			Meth: 181.XX PPM			042 97.50 S-534.58		
247	0.76	-2.33	Arsenic			Meth: 165.99 PCT			Cadmium			Meth: 191.XX PPM		
Meth: 144.XX PCT			<u>Atomic Absorption</u>			Acid Soluble Boron			409 156.50 1.52			Chromium		
Sulfur			136 8.40 .71			<u>Other</u>			096 150.10 .90			486 149.60 .84		
117	3.09 s	11.34	Meth: 151.30 PPM			389 0.034 1.03			474 149.50 .83			409 475.50 1.55		
230	2.56 s	8.34	Arsenic			009 0.030 .77			102 141.66 .27			096 456.90 .93		
220	2.40 s	7.34	<u>ICP</u>			Avg 0.019			042 143.30 .23			009 445.75 R .83		
416	1.58 R	2.73	220 11.50 R 2.10			483 0.016 R -.20			Avg 141.03			486 447.80 .63		
481	1.52	2.30	096 9.85 1.00			354 0.010 -.57			136 137.50 -.37			102 438.24 .41		
292	1.48	2.07	368 9.43 .77											
009	1.39	1.60												

\* 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
<u>Meth: 191.XX PPM Chromium</u>			<u>Meth: 202.XX PPM Acid Soluble Cobalt</u>			<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			<u>Meth: 241.00 PCT Acid Soluble Iron Atomic Absorption</u>			<u>Meth: 251.00 PPM Lead Atomic Absorption</u>		
450	432.00	.28	009	4.70	1.53	057	0.0024	-1.34	105	0.67	.71	136	3.00	.00
481	433.00	.14	450	4.30	.95	096	0.0023	-1.61						
Avg	428.99		409	4.05	.63	354	0.0000 s	-7.18						
474	420.50	-.29	368	3.71 R	.53				<u>Meth: 241.30 PCT Acid Soluble Iron ICP</u>			<u>Meth: 251.30 PPM Lead ICP</u>		
368	422.94	-.42	057	3.83	.33				102	0.78	2.07	368	8.29	1.76
220	393.00	-1.20	102	3.73	.29	<u>Meth: 221.99 PCT Acid Soluble Copper Other</u>			483	0.72	1.08	486	6.00	.76
230	370.00	-1.97	Avg	3.61		042	4.6000	S50069.4	389	0.67	.16	Avg	4.27	
042	97.50 s	-11.05	220	3.50	-.15	Avg	0.0033		Avg	0.66		220	3.60	-.30
			096	3.50	-.16	409	0.0033	-.71	022	0.65	-.05	230	3.11	-.50
<u>Meth: 202.00 PPM Acid Soluble Cobalt AA</u>			486	3.45	-.22				131	0.66	-.10	102	2.51	-.77
136	3.00	.00	136	3.00	-.83	<u>Meth: 221.XX PCT Acid Soluble Copper</u>			096	0.64	-.37	096	2.10	-.94
			474	2.00	-2.21	042	4.6000	s1623.01	057	0.61	-.79			
			042	0.48 s	-4.30	402	0.5050	s1269.28	474	0.60	-1.03	<u>Meth: 251.99 PPM Lead Other</u>		
						472	0.0045 R	4.02	488	0.59	-1.09	042	4.25	.82
<u>Meth: 202.30 PPM Acid Soluble Cobalt ICP</u>			<u>Meth: 221.00 PCT Acid Soluble Copper Atomic Absorption</u>			481	0.0035 R	1.81	354	0.44 S	-3.62	Avg	3.84	
009	4.70	1.85	481	0.0035	1.07	102	0.0035	1.17				409	3.42	-.91
450	4.30	.94	Avg	0.0032		368	0.0033	1.03	<u>Meth: 241.99 PCT Acid Soluble Iron Other</u>					
Avg	3.86		105	0.0030	-.59	220	0.0034	.99	421	0.69	.71	<u>Meth: 251.XX PPM Lead</u>		
057	3.83	-.18				474	0.0034	.92				368	8.29	2.24
102	3.73	-.45	<u>Meth: 221.30 PCT Acid Soluble Copper ICP</u>			483	0.0034	.91	<u>Meth: 241.XX PCT Acid Soluble Iron</u>			486	6.00	1.04
220	3.50	-.76	402	0.5050 s	1215.80	409	0.0033	.83	102	0.78	2.17	042	4.25	.12
096	3.50	-.78	472	0.0045 s	3.91	389	0.0032	.74	483	0.72	1.10	Avg	4.03	
368	3.71 R	-.86	102	0.0035	1.18	Avg	0.0030		421	0.69	.55	220	3.60	-.25
486	3.45	-.88	368	0.0033	1.04	486	0.0029	-.17	105	0.67	.20	409	3.42	-.34
474	2.00 s	-3.97	220	0.0034	1.00	433	0.0028	-.37	389	0.67	.11	230	3.11	-.48
			474	0.0034	.94	105	0.0030	-.39	Avg	0.66		136	3.00	-.54
<u>Meth: 202.99 PPM Acid Soluble Cobalt Other</u>			483	0.0034	.93	450	0.0030	-.39	022	0.65	-.13	102	2.51	-.80
409	4.05	.71	389	0.0032	.74	230	0.0026	-1.02	131	0.66	-.14	096	2.10	-1.01
Avg	4.05		Avg	0.0030		488	0.0025	-1.24	096	0.64	-.48			
042	0.48 S	-22.98	486	0.0029	-.11	057	0.0024	-1.45	057	0.61	-.94	<u>Meth: 261.11 PCT Acid Soluble Manganese AA</u>		
			433	0.0028	-.30	096	0.0023	-1.74	474	0.60	-1.20	105	0.021	.71
			450	0.0030	-.37	354	0.0000 s	-7.56	488	0.59	-1.27			
			230	0.0026	-.92				354	0.44 s	-4.03			
			488	0.0025	-1.13									

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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: 261.30 PCT</u>			<u>Meth: 261.XX PCT</u>			<u>Meth: 289.30 PPM</u>			<u>Meth: 291.30 PPM</u>			<u>Meth: 301.00 PPM</u>		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Nickel</u>			<u>Selenium</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>		
096	0.021	1.32	057	0.019	-1.13	096	7.20	-1.15	009	35.85	1.35	481	1.90	.71
474	0.021	1.31	488	0.018	-1.81	057	7.13	-1.38	220	34.35	.76	<u>Meth: 301.30 PPM</u>		
009	0.020	.53	483	0.014 s	-6.07	474	7.00	-1.40	102	34.07	.67	<u>Selenium</u>		
Avg	0.020		354	0.010 s	-10.92	<u>Meth: 289.99 PPM</u>			368	33.54	.53	<u>ICP</u>		
307	0.020	-.02	<u>Meth: 281.30 PPM</u>			<u>Molybdenum</u>			096	33.50	.47	368	4.15	.87
102	0.020	-.56	<u>Mercury</u>			<u>Other</u>			450	33.00	.45	Avg	2.35	
389	0.020	-.56	<u>ICP</u>			409	10.50	.87	Avg	32.42		486	0.55	-.86
131	0.019	-.64	450	0.03	-.71	Avg	7.55		486	29.45	-1.17	<u>Meth: 301.99 PPM</u>		
057	0.019	-.99	<u>Meth: 281.99 PPM</u>			042	4.60	-.87	230	29.05	-1.33	<u>Selenium</u>		
488	0.018	-1.66	<u>Mercury</u>			<u>Meth: 289.XX PPM</u>			474	29.00	-1.35	<u>Other</u>		
354	0.010 s	-10.57	<u>Other</u>			481	35.00 s	18.97	<u>Meth: 291.99 PPM</u>			220	1.70	.95
<u>Meth: 261.31 PCT</u>			042	0.26	.71	450	10.40 R	1.84	<u>Nickel</u>			Avg	1.57	
<u>Acid Soluble Manganese</u>			<u>Meth: 281.XX PPM</u>			409	10.50	1.71	<u>Other</u>			409	1.45	-.77
<u>ICP</u>			<u>Mercury</u>			220	9.15	.78	Avg	36.00	.71	<u>Meth: 301.XX PPM</u>		
421	0.020	.00	042	0.26	.87	009	9.05	.73	042	5.70 s	-107.13	<u>Selenium</u>		
<u>Meth: 261.99 PCT</u>			Avg	0.14		486	8.75	.53	<u>Meth: 291.XX PPM</u>			368	4.15	1.71
<u>Acid Soluble Manganese</u>			450	0.03	-.86	433	8.57	.39	<u>Nickel</u>			Avg	1.95	
<u>Other</u>			<u>Meth: 289.00 PPM</u>			368	8.30	.19	481	35.00 R	2.12	220	1.70	-.21
220	0.019	.71	<u>Molybdenum</u>			102	8.15	.11	409	36.00	1.22	409	1.45	-.39
Avg	0.019		<u>Atomic Absorption</u>			Avg	8.02		009	35.85	1.16	481	1.90	-.46
483	0.014 s	-67.55	481	35.00 s	.00	230	7.91	-.10	136	34.00	.58	486	0.55	-1.08
<u>Meth: 261.XX PCT</u>			<u>Meth: 289.30 PPM</u>			096	7.20	-.57	220	34.35	.57	<u>Meth: 311.99 PCT</u>		
<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			057	7.13	-.71	102	34.07	.49	<u>Sodium</u>		
105	0.021	1.37	450	10.40 R	3.21	474	7.00	-.71	450	33.00	.39	<u>Other</u>		
096	0.021	1.22	220	9.15	1.30	<u>Meth: 291.00 PPM</u>			368	33.54	.39	354	0.92	.69
474	0.021	1.22	009	9.05	1.20	<u>Nickel</u>			Avg	32.89		474	0.92	.69
421	0.020	.42	486	8.75	.85	<u>Atomic Absorption</u>			486	29.45	-1.35	Avg	0.91	
009	0.020	.42	433	8.57	.60	481	35.00	1.20	230	29.05	-1.50	057	0.91	-1.06
Avg	0.020		368	8.30	.23	Avg	34.50		474	29.00	-1.52	307	0.91	-1.20
307	0.020	-.15	102	8.15	.14	136	34.00	-.27	042	5.70 s	-10.62	009	0.90 R	-3.82
389	0.020	-.59	Avg	8.12		<u>Meth: 291.00 PPM</u>			<u>Meth: 291.00 PPM</u>			488	0.81 s	-12.74
102	0.020	-.59	230	7.91	-.28	<u>Nickel</u>			<u>Nickel</u>					
220	0.019	-.66	<u>Meth: 289.30 PPM</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>					
131	0.019	-.75	<u>Molybdenum</u>			<u>Other</u>			<u>Other</u>					

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Laboratory Averages & Accuracy Indexes

Lab Average\* Index

Meth: 321.00 PCT  
 Acid Soluble Zinc  
Atomic Absorption  
 460 0.042 1.29  
 Avg 0.040  
 481 0.040 -.38  
 105 0.040 -.83

Meth: 321.30 PCT  
 Acid Soluble Zinc  
ICP  
 486 0.047 2.63  
 483 0.043 R 1.54  
 402 0.042 1.01  
 389 0.041 .74  
 421 0.040 .59  
 009 0.040 .59  
 292 0.040 .59  
 450 0.039 .41  
 472 0.039 .31  
 131 0.039 .28  
 057 0.038 .17  
 022 0.038 .03  
 Avg 0.038  
 474 0.038 -.08  
 102 0.038 -.17  
 488 0.037 -.38  
 220 0.036 -.68  
 307 0.036 -.68  
 368 0.035 -.75  
 230 0.034 -1.20  
 433 0.033 -1.31  
 354 0.030 -2.19

Meth: 321.99 PCT  
 Acid Soluble Zinc  
Other  
 042 0.005 S .00  
 409 0.041 .00  
 Avg 0.041

Lab Average\* Index

Meth: 321.XX PCT  
Acid Soluble Zinc  
 486 0.047 2.63  
 483 0.043 R 1.49  
 402 0.042 .94  
 460 0.042 .94  
 409 0.041 .72  
 389 0.041 .65  
 292 0.040 .49  
 481 0.040 .49  
 009 0.040 .49  
 421 0.040 .49  
 105 0.040 .38  
 450 0.039 .33  
 472 0.039 .20  
 131 0.039 .17  
 057 0.038 .10  
 Avg 0.038  
 022 0.038 -.09  
 474 0.038 -.18  
 102 0.038 -.28  
 488 0.037 -.52  
 307 0.036 -.83  
 220 0.036 -.83  
 368 0.035 -.91  
 230 0.034 -1.39  
 433 0.033 -1.50  
 354 0.030 -2.42  
 042 0.005 s -9.58

Meth: 325.99 PCT  
 Water Soluble Zinc  
Other  
 450 0.039 .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	0.55	0.77	144.XX	31	0.97	2.91	0.30
001.XX	2	0.00	0.55	0.77	151.30	8	0.24	1.17	0.35
010.60	5	0.85	2.12	0.48	151.99	2	- 77.65	109.81	0.53
010.XX	5	0.85	2.12	0.48	151.XX	11	- 0.23	1.79	0.33
020.10	12	- 0.03	0.98	0.13	165.99	5	- 0.031	0.938	0.055
020.20	16	- 0.01	0.98	0.14	165.XX	5	- 0.031	0.938	0.055
020.40	7	0.00	0.94	0.42	181.30	8	0.00	1.02	0.15
020.50	12	- 1.10	2.56	0.61	181.99	2	0.00	1.21	0.15
020.99	4	0.04	0.91	0.71	181.XX	11	0.00	1.01	0.15
020.XX	49	- 0.35	2.06	0.51	191.30	9	0.00	0.98	0.29
030.20	4	0.00	1.05	0.22	191.99	2	- 267.2	378.00	1.58
030.40	3	- 8.86	15.36	0.20	191.XX	12	- 0.87	3.34	0.24
030.XX	9	- 1.01	3.16	0.21	202.30	9	- 0.48	1.58	0.33
040.10	3	1.59	2.89	0.10	202.99	2	- 11.49	16.25	0.50
040.20	3	0.00	1.09	0.21	202.XX	12	- 0.35	1.55	0.19
040.40	2	0.00	1.17	0.25	221.00	2	0.0000	0.7317	0.6945
040.XX	10	- 0.17	3.57	0.52	221.30	16	75.770	304.01	0.3760
041.10	9	0.00	1.03	0.07	221.99	2	325034	459668	0.5000
041.40	2	0.00	1.22	0.03	221.XX	20	644.49	2599.5	0.4587
041.50	12	- 0.90	3.26	0.15	241.30	10	- 0.36	1.49	0.19
041.60	12	- 0.10	1.03	0.22	241.XX	12	- 0.33	1.51	0.20
041.XX	30	- 0.53	2.32	0.20	251.30	6	0.00	1.04	0.11
048.20	7	- 3.31	8.50	0.29	251.99	2	0.00	1.15	0.30
048.50	2	0.00	1.16	0.28	251.XX	9	0.00	1.02	0.12
048.99	4	0.00	1.06	0.18	261.30	10	- 1.057	3.467	0.301
048.XX	13	- 1.53	5.58	0.22	261.99	2	- 33.58	47.500	5.025
050.50	3	0.00	1.11	0.11	261.XX	14	- 1.212	3.348	0.315
050.51	4	0.27	1.06	0.94	281.XX	2	0.000	1.206	0.153
050.99	4	78.46	156.91	0.78	289.30	11	0.26	1.27	0.51
050.XX	11	71.73	236.22	1.39	289.99	2	0.00	1.22	0.00
060.00	10	0.73	2.50	0.16	289.XX	14	1.45	5.06	0.96
060.99	2	0.00	1.22	0.08	291.00	2	0.00	0.17	0.86
060.XX	12	0.00	1.02	0.04	291.30	9	0.00	1.01	0.19
101.30	12	- 0.28	2.00	0.43	291.99	2	- 53.56	75.75	0.56
101.XX	14	0.16	2.56	0.35	291.XX	13	- 0.75	3.11	0.57
121.30	13	1.86	6.83	1.56	301.30	2	0.00	1.21	0.11
121.XX	14	1.18	7.04	1.51	301.99	2	0.00	1.06	0.44
144.01	9	0.62	2.10	0.25	301.XX	5	0.00	1.03	0.24
144.99	21	1.03	3.55	0.33	311.99	6	- 2.39	4.85	2.18

## 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.XX	6	- 2.39	4.85	2.18					
321.00	3	0.000	1.045	0.324					
321.30	21	0.072	1.036	0.116					
321.99	2	0.000	0.000	0.000					
321.XX	26	- 0.313	2.141	0.113					