

- Pass 1 Results for 81 Labs - - Pass 2 Results for 81 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	10	6.59	0.37	0.07	10	6.59	0.37	0.07
Ammoniacal Nitrogen, Other		001.99	6	6.46	0.16	0.05	6	6.46	0.16	0.05
Method Group 001.XX PCT			16	6.54	0.31	0.07	14	6.48	0.19	0.05
Nitrate Nitrogen, Other		002.99	1	0.01	0.01	0.01	1	0.01	0.01	0.01
Nitrogen From Urea, Urease (as N)	959.03	005.00	3	3.72	1.88	0.14	3	3.72	1.88	0.14
Nitrogen From Urea, Other		005.99	3	5.03	0.71	0.18	3	5.03	0.71	0.18
Method Group 005.XX PCT			6	4.37	1.52	0.16	6	4.37	1.52	0.16
Percent Urea, Other		007.99	1	5.45	0.01	0.02	1	5.45	0.01	0.02
Ammon & Nitrate N, Devarda	892.01	009.10	2	5.47	1.09	0.07	2	5.47	1.09	0.07
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	11.70	0.14	0.05	8	11.69	0.13	0.03
Total Nitrogen, Salicylic	955.04D	010.12	3	11.65	0.08	0.01	3	11.65	0.08	0.01
Total Nitrogen, Raney	970.03	010.16	1	11.78	0.01	0.02	1	11.78	0.01	0.02
Total Nitrogen, Combustion		010.60	57	11.79	0.12	0.06	54	11.79	0.11	0.06
Total Nitrogen, Other		010.99	3	11.74	0.08	0.09	3	11.74	0.08	0.09
Method Group 010.XX PCT			73	11.77	0.12	0.06	69	11.77	0.11	0.05
Total Phosphate, Grav Quimociac	962.02	020.10	5	8.53	0.10	0.10	5	8.53	0.10	0.10
Total Phosphate, Spectrometric	958.01	020.20	17	8.53	0.29	0.12	14	8.49	0.15	0.07
Total Phosphate, Automated	978.01	020.40	5	8.43	0.27	0.06	5	8.43	0.27	0.06
Total Phosphate, ICP		020.50	13	8.50	0.30	0.21	13	8.50	0.30	0.21
Total Phosphate, Other		020.99	1	9.42	0.00	0.00	1	9.42	0.00	0.00
Method Group 020.XX PCT			41	8.53	0.30	0.14	36	8.51	0.27	0.09
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	3	0.03	0.03	0.02	3	0.03	0.03	0.02
Insoluble Phosphate, Other		030.99	1	0.02	0.01	0.01	1	0.02	0.01	0.01
Method Group 030.XX PCT			5	0.03	0.02	0.01	5	0.03	0.02	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	8.46	0.05	0.07	1	8.46	0.05	0.07
InDir Available Phosphate, Spectrometri	960.02	040.20	2	8.35	0.17	0.06	2	8.35	0.17	0.06
InDir Available Phosphate, ICP		040.50	1	8.18	0.06	0.09	1	8.18	0.06	0.09
InDir Available Phosphate, Other		040.99	3	8.48	0.04	0.02	3	8.48	0.04	0.02
Method Group 040.XX PCT			7	8.40	0.14	0.05	7	8.40	0.14	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	12	8.46	0.16	0.07	12	8.46	0.16	0.07
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	8.45	0.21	0.30	1	8.45	0.21	0.30
Dir Available Phosphate, Automated	978.01	041.40	4	8.33	0.16	0.02	4	8.33	0.16	0.02
Dir Available Phosphate, ICP		041.50	11	8.37	0.23	0.09	10	8.34	0.21	0.06
Dir Available Phosphate, EDTA Extract .	993.01	041.60	9	8.40	0.09	0.07	9	8.40	0.09	0.07
Dir Available Phosphate, Other		041.99	1	8.46	0.11	0.16	1	8.46	0.11	0.16
Method Group 041.XX PCT			40	8.41	0.19	0.09	37	8.41	0.18	0.07
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	8.22	0.55	0.08	2	8.22	0.55	0.08
Water Soluble Phosphate, Other		048.99	1	7.73	0.02	0.03	1	7.73	0.02	0.03

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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 048.XX PCT			3	8.05	0.50	0.07	3	8.05	0.50	0.07
Soluble Potash, STPB Oxalate	958.02	050.00	14	20.62	0.31	0.13	14	20.62	0.31	0.13
Soluble Potash, AA (Oxalate)		050.30	7	19.87	0.93	0.15	6	20.04	0.89	0.09
Soluble Potash, AA (Citrate)		050.31	1	20.07	0.23	0.33	1	20.07	0.23	0.33
Soluble Potash, ICP (Oxalate)		050.50	10	20.48	0.89	0.25	10	20.48	0.89	0.25
Soluble Potash, ICP (Citrate)		050.51	10	20.83	0.48	0.09	10	20.83	0.48	0.09
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	20.76	0.42	0.16	5	20.75	0.45	0.07
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	21.04	0.61	0.26	6	21.04	0.61	0.26
Soluble Potash, Other		050.99	18	20.96	0.79	0.32	17	20.96	0.80	0.26
Method Group 050.XX PCT			74	20.69	0.77	0.21	70	20.71	0.76	0.17
Free Water, Vacuum Oven	965.08B	060.00	4	1.47	0.28	0.05	4	1.47	0.28	0.05
Method Group 060.XX PCT			4	1.47	0.28	0.05	4	1.47	0.28	0.05
Acid Soluble Calcium, ICP		101.30	14	1.92	0.07	0.04	13	1.92	0.06	0.03
Acid Soluble Magnesium, ICP		121.30	15	0.18	0.02	0.00	13	0.18	0.02	0.00
Sulfur, Gravimetric	980.02a	144.01	9	7.82	0.28	0.13	8	7.84	0.28	0.09
Sulfur, Gravimetric	980.02b	144.02	2	8.06	0.11	0.04	2	8.06	0.11	0.04
Sulfur, Other		144.99	20	7.93	0.49	0.22	19	7.93	0.49	0.18
Method Group 144.XX PCT			31	7.90	0.43	0.18	29	7.88	0.41	0.13
Arsenic, ICP		151.30	8	5.58	2.20	0.34	8	5.58	2.20	0.34
Arsenic, Other		151.99	3	4.53	0.29	0.31	3	4.53	0.29	0.31
Method Group 151.XX PPM			11	5.29	1.92	0.33	11	5.29	1.92	0.33
Acid Soluble Boron, Other		165.99	8	6.076	10.859	0.238	7	3.529	8.948	0.015
Cadmium, Atomic Absorption		181.00	1	27.50	0.71	1.00	1	27.50	0.71	1.00
Cadmium, ICP		181.30	15	26.39	3.55	0.43	14	26.15	3.55	0.32
Cadmium, Other		181.99	2	29.99	1.14	1.39	2	29.99	1.14	1.39
Method Group 181.XX PPM			18	26.85	3.45	0.57	16	26.47	3.46	0.34
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	15.70	0.04	0.05	1	15.70	0.04	0.05
Chromium, Atomic Absorption		191.00	1	96.00	2.83	4.00	1	96.00	2.83	4.00
Chromium, ICP		191.30	12	92.09	6.89	4.97	11	91.58	6.37	3.74
Chromium, Other		191.99	3	88.65	2.97	1.34	3	88.65	2.97	1.34
Method Group 191.XX PPM			16	91.69	6.33	4.23	15	91.29	5.85	3.28
Acid Soluble Cobalt, AA		202.00	1	552.50	51.62	73.00	1	552.50	51.62	73.00
Acid Soluble Cobalt, ICP	965.11	202.30	10	487.52	34.68	12.24	10	487.52	34.68	12.24
Acid Soluble Cobalt, Other		202.99	2	473.58	15.15	15.90	2	473.58	15.15	15.90
Method Group 202.XX PPM			13	490.38	37.53	17.47	12	485.20	32.43	12.85
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0053	0.0003	0.0002	3	0.0053	0.0003	0.0002
Acid Soluble Copper, ICP		221.30	15	0.0052	0.0006	0.0003	15	0.0052	0.0006	0.0003
Acid Soluble Copper, Other		221.99	3	0.0052	0.0004	0.0003	3	0.0052	0.0004	0.0003
Method Group 221.XX PCT			21	0.0052	0.0006	0.0003	19	0.0052	0.0006	0.0002

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	11	0.69	0.04	0.01	10	0.69	0.04	0.01
Acid Soluble Iron, ICP		241.30	35	0.67	0.08	0.02	34	0.67	0.08	0.02
Acid Soluble Iron, Other		241.99	1	0.70	0.02	0.02	1	0.70	0.02	0.02
Method Group 241.XX PCT			47	0.68	0.07	0.02	44	0.68	0.06	0.02
Lead, Atomic Absorption		251.00	1	2430.0	183.85	260.00	1	2430.0	183.85	260.00
Lead, ICP		251.30	12	2978.3	694.06	348.32	11	2943.9	693.54	275.07
Lead, Other		251.99	1	2368.8	161.59	228.53	1	2368.8	161.59	228.53
Method Group 251.XX PPM			14	2895.6	674.74	333.45	12	2772.2	594.95	200.36
Acid Soluble Manganese, ICP	972.02a	261.30	17	0.794	0.057	0.022	16	0.790	0.056	0.017
Mercury, ICP		281.30	2	0.05	0.06	0.00	2	0.05	0.06	0.00
Mercury, Other		281.99	1	0.05	0.00	0.00	1	0.05	0.00	0.00
Method Group 281.XX PPM			3	0.05	0.04	0.00	3	0.05	0.04	0.00
Molybdenum, ICP		289.30	14	4.89	1.19	0.31	13	4.82	1.20	0.24
Molybdenum, Other		289.99	2	5.45	0.17	0.04	2	5.45	0.17	0.04
Method Group 289.XX PPM			16	4.96	1.13	0.28	14	4.87	1.16	0.16
Nickel, Atomic Absorption		291.00	1	63.00	1.41	2.00	1	63.00	1.41	2.00
Nickel, ICP		291.30	13	61.12	7.48	2.63	12	61.30	7.46	1.61
Nickel, Other		291.99	2	63.75	1.89	2.33	2	63.75	1.89	2.33
Method Group 291.XX PPM			16	61.57	6.82	2.55	15	61.74	6.73	1.73
Selenium, ICP		301.30	3	1.82	0.72	0.50	3	1.82	0.72	0.50
Selenium, Other		301.99	3	1.61	0.60	0.21	3	1.61	0.60	0.21
Method Group 301.XX PPM			6	1.72	0.64	0.36	6	1.72	0.64	0.36
Sodium, Other		311.99	6	0.53	0.03	0.01	6	0.53	0.03	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	11	0.899	0.047	0.030	10	0.889	0.028	0.018
Acid Soluble Zinc, ICP		321.30	33	0.915	0.082	0.023	31	0.916	0.083	0.019
Acid Soluble Zinc, Other		321.99	1	0.909	0.018	0.026	1	0.909	0.018	0.026
Method Group 321.XX PCT			45	0.911	0.074	0.025	43	0.908	0.073	0.021

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: 005.XX PCT			Meth: 010.12 PCT			Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Nitrogen From Urea</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>									<u>Salicylic</u>			<u>Combustion</u>		
292	11.81 s	14.09	409	6.52	.21	330	4.85	.33	185	11.57	-1.01	231	11.84	.44
457	7.51	2.48	Avg	6.48		Avg	4.37		455	11.04 S	-7.91	034	11.81	.43
117	6.96	.99	330	6.40	-.41	457	4.17	-.13				450	11.81	.36
220	6.67	.23	420	6.44	-.41	232	1.29	-2.03	Meth: 010.16 PCT			247	11.82	.30
Avg	6.59		029	6.39	-.49	Meth: 007.99 PCT			Total Nitrogen			233	11.81	.17
444	6.53	-.19	456	6.35	-.70	Percent Urea			<u>Raney</u>			419	11.80	.11
230	6.48	-.42	415	6.33	-.78	<u>Other</u>			300	11.78	.71	106	11.80	.11
330	6.40	-.51	027	6.31	-.87	419	5.45	.71	Meth: 010.60 PCT			Avg	11.79	
029	6.39	-.56	232	6.30	-.95	Meth: 009.10 PCT			Total Nitrogen			131	11.79	-.05
456	6.35	-.67	096	6.26	-1.13	Ammon & Nitrate N			<u>Combustion</u>			136	11.78	-.18
415	6.33	-.70	419	2.49 s	-20.76	<u>Devarda</u>			042	13.15 s	13.12	423	11.78	-.20
232	6.30	-.79	Meth: 002.99 PCT			420	6.41	.87	072	12.43 s	5.95	041	11.75	-.37
Meth: 001.99 PCT			Nitrate Nitrogen			Avg	5.47		043	12.09 A	2.86	009	11.75	-.37
<u>Ammoniacal Nitrogen</u>			<u>Other</u>			309	4.53	-.87	055	12.04	2.33	040	11.75	-.40
<u>Other</u>			232	0.01	-.71	Meth: 010.11 PCT			157	11.99	1.89	018	11.75	-.59
234	10.50 s	25.46	Meth: 005.00 PCT			Total Nitrogen			296	11.98	1.76	027	11.72	-.68
405	6.70	1.46	Nitrogen From Urea			<u>Modified Comprehensi</u>			443	11.90	1.40	232	11.72	-.72
371	6.56	.68	<u>Urease (as N)</u>			220	11.86 R	1.56	307	11.87 R	1.36	291	11.72	-.72
409	6.52	.34	220	5.01	.69	460	11.85	1.29	457	11.91	1.17	351	11.70	-.79
Avg	6.46		330	4.85	.61	114	11.81	1.00	360	11.89	.97	325	11.70	-.82
420	6.44	-.46	Avg	3.72		456	11.74	.44	070	11.89	.96	028	11.71	-.86
027	6.31	-.96	232	1.29	-1.29	457	11.72	.42	007	11.80	.94	422	11.69	-.90
096	6.26	-1.28	Meth: 005.99 PCT			090	11.70	.09	405	11.89	.91	354	11.69	-.96
419	2.49 s	-24.96	Nitrogen From Urea			Avg	11.69		086	11.88	.90	177	11.69	-.99
Meth: 001.XX PCT			<u>Other</u>			416	11.63	-.51	049	11.85	.87	368	11.68	-1.00
<u>Ammoniacal Nitrogen</u>			029	5.72	.98	029	11.62	-.51	389	11.88	.84	023	11.69	-1.03
292	11.81 s	27.75	444	5.20	.28	211	11.43	-1.99	037	11.83	.78	426	11.71	-1.04
234	10.50 s	21.01	Avg	5.03		309	11.12 S	-4.53	025	11.87	.77	451	11.68	-1.05
457	7.51 A	5.36	457	4.17	-1.21	Meth: 010.12 PCT			390	11.86	.77	102	11.69	-1.18
117	6.96	2.49	Meth: 005.XX PCT			Total Nitrogen			324	11.85	.74	230	11.65	-1.37
405	6.70	1.14	Nitrogen From Urea			<u>Salicylic</u>			330	11.85	.74	234	11.71 R	-1.40
220	6.67	1.01	029	5.72	.89	117	11.74	1.20	402	11.86	.70	444	11.61	-1.67
230	6.48 R	.60	444	5.20	.55	Avg	11.65		029	11.86	.68	361	11.61	-1.72
371	6.56	.50	220	5.01	.42	415	11.64	-.17	035	11.85	.59	406	11.52	-2.56
444	6.53	.28							073	11.84	.52	428	9.57 s	-20.81
									377	11.84	.49			

* 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: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.99 PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Spectrometric</u>			<u>Other</u>		
409	11.80	.93	409	11.80	.46	234	11.71 R	-1.23	231	8.45	-.33	443	9.42	.00
420	11.76	.50	247	11.82	.46	416	11.63	-1.27	416	8.45	-.34	455	18.48 S	.00
Avg	11.74		114	11.81	.45	029	11.62	-1.30	232	8.39	-.78	Avg	9.42	
371	11.67	-1.18	450	11.81	.45	444	11.61	-1.39	324	8.47 R	-1.56			
			233	11.81	.33	361	11.61	-1.44	409	8.23	-1.81	Meth: 020.XX PCT		
			106	11.80	.28	185	11.57	-1.73	450	8.22	-1.90	<u>Total Phosphate</u>		
			419	11.80	.28	406	11.52	-2.23	234	8.14 R	-2.97	428	19.25 s	40.48
Meth: 010.XX PCT			423			211			Meth: 020.40 PCT			455		
<u>Total Nitrogen</u>			131			309			<u>Total Phosphate</u>			460		
042	13.15 s	12.50	136			455			<u>Automated</u>			422		
072	12.43 s	5.77	300			428			456			443		
043	12.09 A	2.86	Avg			Meth: 020.10 PCT			8.89			457		
055	12.04	2.36	009			<u>Total Phosphate</u>			8.43			426		
157	11.99	1.95	041			<u>Grav Quimociac</u>			247			456		
296	11.98	1.83	040			114			8.41			432		
443	11.90	1.45	117			157			8.40			368		
307	11.87 R	1.38	420			Avg			8.34			330		
457	11.91	1.27	456			090			8.11			420		
220	11.86 R	1.20	027			444			Meth: 020.50 PCT			415		
360	11.89	1.09	018			041			<u>Total Phosphate</u>			247		
070	11.89	1.08	291			Meth: 020.20 PCT			422			406		
405	11.89	1.03	232			<u>Total Phosphate</u>			10.02 s			114		
086	11.88	1.02	351			<u>Spectrometric</u>			9.15			309		
389	11.88	.97	325			428			8.53			157		
049	11.85	.95	457			19.25 s			1.01			220		
007	11.80	.92	090			17.66 s			.83			419		
025	11.87	.90	422			457			.69			402		
390	11.86	.88	028			9.40 A			.55			405		
324	11.85	.84	354			420			.15			Avg		
330	11.85	.84	177			8.68			8.50			292		
402	11.86	.83	368			1.35			8.47			8.51		
037	11.83	.83	023			415			-.16			-.11		
029	11.86	.81	451			8.65			-.24			-.22		
035	11.85	.73	426			1.05			-.25			-.22		
460	11.85	.73	102			309			8.43			444		
073	11.84	.66	371			220			8.41			231		
377	11.84	.63	292			419			-.39			444		
231	11.84	.59	405			8.55			8.25			8.45		
034	11.81	.51	415			8.52			-.92			-.25		
			371			8.51			-1.03			371		
			230			Avg			8.03			416		
			415			8.49			-1.60			8.45		
			415			8.45						361		
			415			-.33						8.43		

* 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.XX PCT			Meth: 030.XX PCT			Meth: 040.XX PCT			Meth: 041.40 PCT			Meth: 041.60 PCT		
<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
389	8.43	-.34	096	0.72 s	30.36	405	8.52	.85	<u>Automated</u>			<u>EDTA Extract</u>		
247	8.41	-.37	220	0.06	1.77	247	8.50	.73	072	8.50	1.01	018	8.16 s	-3.82
041	8.49	-.46	409	0.03	.49	220	8.49	.70	029	8.46	.81	Meth: 041.99 PCT		
035	8.40	-.49	Avg	0.03		090	8.46	.48	Avg	8.33		Dir Available Phosph		
451	8.41	-.49	247	0.02	-.49	072	8.43	.30	027	8.23	-.61	<u>Other</u>		
232	8.39	-.50	090	0.01	-.66	Avg	8.40		131	8.14	-1.20	230	8.46	-.71
096	8.34	-.67	405	0.01	-.66	409	8.20	-1.39	Meth: 041.50 PCT			Meth: 041.XX PCT		
324	8.47 R	-.88	Meth: 040.10 PCT			423	8.18	-1.58	<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
409	8.23	-1.07	<u>InDir Available Phos</u>			096	7.62 s	-5.45	<u>ICP</u>			<u>Dir Available Phosph</u>		
444	8.25	-1.08	<u>Grav Quim</u>			Meth: 041.10 PCT			360	8.68 R	1.85	233	9.52 s	8.80
450	8.22	-1.13	090	8.46	.71	<u>Dir Available Phosph</u>			070	8.68	1.66	254	8.83	2.39
307	8.28	-1.20	Meth: 040.20 PCT			254	8.83	2.32	007	8.62	1.43	028	8.81	2.26
042	8.11	-1.54	<u>InDir Available Phos</u>			211	8.70	1.48	009	8.46	.58	360	8.68 R	1.81
234	8.14 R	-1.71	<u>Spectrometri</u>			086	8.50	.27	325	8.40	.31	211	8.70	1.64
390	8.03	-1.85	220	8.49	.87	055	8.48	.10	Avg	8.34		070	8.68	1.54
Meth: 030.10 PCT			220	8.49	.87	Avg	8.46		043	8.28	-.31	007	8.62	1.29
<u>Insoluble Phosphate</u>			Avg	8.35		009	8.45	-.14	023	8.28	-.36	419	8.45 R	.87
<u>Grav Quimociac</u>			409	8.20	-.87	029	8.41	-.28	291	8.24	-.47	296	8.54	.71
090	0.01	.00	Meth: 040.40 PCT			177	8.39	-.46	377	8.24	-.50	034	8.53	.70
Meth: 030.20 PCT			<u>InDir Available Phos</u>			040	8.39	-.47	361	8.20	-.66	230	8.46	.54
<u>Insoluble Phosphate</u>			<u>Automated</u>			185	8.40	-.76	354	7.97	-1.77	086	8.50	.51
<u>Spectrometric</u>			096	7.62 S	.00	296	8.37	-.79	Meth: 041.60 PCT			072	8.50	.49
220	0.06	1.25	Meth: 040.50 PCT			131	8.32	-.84	<u>Dir Available Phosph</u>			055	8.48	.38
Avg	0.03		<u>InDir Available Phos</u>			102	8.30	-1.18	<u>EDTA Extract</u>			029	8.46	.31
409	0.03	-.40	<u>ICP</u>			049	7.81 s	-5.01	233	9.52 s	16.89	009	8.46	.30
405	0.01	-.88	423	8.18	.71	Meth: 041.20 PCT			028	8.81 s	4.37	106	8.42	.29
Meth: 030.40 PCT			Meth: 040.99 PCT			<u>Dir Available Phosph</u>			296	8.54	1.42	009	8.45	.26
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Spectrometric</u>			034	8.53	1.40	351	8.41	.17
<u>Automated</u>			<u>Other</u>			419	8.45	.71	106	8.42	.57	Avg	8.41	.05
096	0.72 S	.00	405	8.52	.87	Avg	8.45		351	8.41	.34	325	8.40	-.04
Meth: 030.99 PCT			247	8.50	.41	055	7.95 S	-3.23	Avg	8.40		177	8.39	-.13
<u>Insoluble Phosphate</u>			Avg	8.48		Meth: 041.40 PCT			043	8.38	-.34	040	8.39	-.15
<u>Other</u>			072	8.43	-1.25	<u>Dir Available Phosph</u>			037	8.38	-.40	043	8.38	-.20
247	0.02	.71	Meth: 041.40 PCT			<u>Spectrometric</u>			073	8.36	-.56	037	8.38	-.23
Meth: 041.40 PCT			<u>Dir Available Phosph</u>			<u>EDTA Extract</u>			177	8.33	-.81	073	8.36	-.32
<u>Automated</u>			<u>ICP</u>			<u>Other</u>			070	8.29	-1.69	177	8.33	-.45
072			072			072			072			072		

* 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: 041.XX PCT			Meth: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.60 PCT			Meth: 050.XX PCT		
<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
131	8.32	-.47	<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			<u>Flame (Oxalate)</u>			443	23.03 s	3.05
296	8.37	-.55	233	21.12	1.59	354	22.15	1.88	131	20.60	-.33	432	22.71	2.64
185	8.40	-.59	220	20.96	1.16	324	21.60	1.26	460	20.08	-1.51	402	22.64	2.53
043	8.28	-.76	009	20.83	.68	106	20.92	.52				354	22.15	1.89
023	8.28	-.77	114	20.82	.66	292	20.69	.23	Meth: 050.61 PCT			455	22.10	1.82
102	8.30	-.83	211	20.81	.60	Avg 20.48			<u>Soluble Potash</u>			300	22.04	1.75
070	8.29	-.90	043	20.64	.31	451	20.23	-.29	<u>Flame (Citrate)</u>			027	21.98	1.67
291	8.24	-.95	231	20.68	.19	426	20.25	-.33	456	21.91	1.43	389	21.95	1.63
377	8.24	-.97	029	20.63	.13	422	20.28	-.39	028	21.67	1.07	456	21.91	1.58
027	8.23	-1.00	Avg 20.62			444	19.88	-.69	Avg 21.04			028	21.67	1.28
361	8.20	-1.17	416	20.56	-.19	419	19.64	-.97	035	21.01	-.46	324	21.60	1.17
131	8.14	-1.53	090	20.52	-.41	390	19.20	-1.52	018	20.65	-.69	406	21.38	.87
018	8.16 R	-2.01	049	20.59	-.52	Meth: 050.51 PCT			029	20.56	-.80	368	20.88 R	.86
354	7.97	-2.48	296	20.46	-.63	<u>Soluble Potash</u>			034	20.45	-.98	131	21.00 R	.76
055	7.95 s	-3.68	102	20.22	-1.33	<u>ICP (Citrate)</u>			Meth: 050.99 PCT			233	21.12	.54
049	7.81 s	-4.30	072	19.88	-2.36	432	22.71 s	3.92	<u>Soluble Potash</u>			035	21.01	.54
			230	19.65 s	-3.19	389	21.95	2.32	<u>Other</u>			450	21.07	.51
Meth: 048.20 PCT			Meth: 050.30 PCT			009	21.05	.45	402	22.64	2.09	009	21.05	.44
<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			007	21.02	.42	455	22.10	1.41	007	21.02	.41
<u>Spectrometric</u>			<u>AA (Oxalate)</u>			023	21.00	.35	300	22.04	1.35	157	20.80	.41
420	8.69	.87	040	20.96	1.03	291	20.93	.23	027	21.98	1.28	023	21.00	.37
Avg	8.22		234	20.86	.92	Avg 20.83			131	21.00	.63	220	20.96	.37
096	7.75	-.86	043	20.52	.54	361	20.72	-.22	450	21.07	.22	106	20.92	.34
Meth: 048.99 PCT			Avg 20.04			070	20.56	-.55	Avg 20.96			040	20.96	.33
<u>Water Soluble Phosph</u>			185	19.74	-.34	043	20.50	-.70	325	20.80	-.20	041	20.78	.29
<u>Other</u>			351	19.66	-.42	423	20.27	-1.16	042	20.80	-.21	291	20.93	.29
247	7.73	.71	073	18.88 R	-1.33	377	20.27	-1.17	177	20.75	-.27	415	20.85	.21
			428	18.49	-1.73				072	20.68	-.35	234	20.86	.21
Meth: 048.XX PCT			Meth: 050.31 PCT			Meth: 050.60 PCT			041	20.78	-.36	009	20.83	.17
<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			041	20.78	-.36	309	20.84	.17
420	8.69	1.29	<u>AA (Citrate)</u>			<u>Flame (Oxalate)</u>			360	20.65	-.41	114	20.82	.16
Avg	8.05		254	20.07	.71	443	23.03 S	5.13	247	20.46	-.63	211	20.81	.13
096	7.75	-.62				406	21.38	1.41	368	20.88 R	-.79	325	20.80	.12
247	7.73	-.66				157	20.80 R	.68	307	20.47	-.84	042	20.80	.11
						415	20.85	.29	457	20.30	-.87	177	20.75	.08
						309	20.84	.21	232	20.27	-.87	361	20.72	.03
						Avg 20.75			330	19.60	-1.74	Avg 20.71		
									405	13.59 s	-9.22	292	20.69	-.05

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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.XX PCT			Meth: 050.XX PCT			Meth: 101.30 PCT			Meth: 144.01 PCT			Meth: 144.99 PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Sulfur</u>			<u>Sulfur</u>		
072	20.68	-.05	405	13.59 s	-9.37	<u>ICP</u>			<u>Gravimetric</u>			<u>Other</u>		
231	20.68	-.06	Meth: 060.00 PCT			Avg	1.92		Avg	7.84		035	6.23 S	-3.48
029	20.63	-.12	Free Water			232	1.91	-.37	444	7.78	-.32	086	0.21 s	-15.79
360	20.65	-.14	<u>Vacuum Oven</u>			307	1.90	-.58	055	7.66	-.63	Meth: 144.XX PCT		
131	20.60	-.15	096	1.85	1.37	131	1.89	-.77	029	7.67 R	-1.00	<u>Sulfur</u>		
043	20.64	-.16	247	1.54	.25	102	1.86	-.89	457	7.23	-2.13	360	8.50 R	1.73
416	20.56	-.20	Avg 1.47			390	1.84	-1.25	Meth: 144.02 PCT			291	8.59	1.73
070	20.56	-.21	007	1.34	-.52	027	1.79	-2.13	<u>Sulfur</u>			389	8.55	1.63
018	20.65	-.21	416	1.15	-1.13	Meth: 121.30 PCT			<u>Gravimetric</u>			307	8.47	1.58
029	20.56	-.21	Meth: 060.99 PCT			<u>Acid Soluble Magnesi</u>			292	8.15	.85	220	8.50	1.55
043	20.52	-.26	Free Water			<u>ICP</u>			Avg	8.06		368	7.91 R	1.29
049	20.59	-.26	<u>Other</u>			422	0.34 s	7.13	220	7.96	-.88	354	8.23	.85
090	20.52	-.28	443	11.16 S	.00	041	0.22	1.75	Meth: 144.99 PCT			296	8.15	.68
043	20.50	-.30	Meth: 060.XX PCT			423	0.21	1.23	<u>Sulfur</u>			292	8.15	.65
247	20.46	-.34	Free Water			389	0.20	.81	<u>Other</u>			009	7.96	.49
034	20.45	-.35	443	11.16 s	34.81	102	0.19	.56	360	8.50	1.37	043	8.01	.39
296	20.46	-.36	096	1.85	1.37	009	0.19	.42	291	8.59	1.35	324	8.04	.38
232	20.27	-.59	247	1.54	.25	307	0.19 R	.40	389	8.55	1.28	351	8.01	.31
423	20.27	-.59	Avg 1.47			390	0.18	.17	307	8.47	1.24	102	7.96	.20
377	20.27	-.60	007	1.34	-.52	Avg	0.18	.06	220	8.50	1.20	220	7.96	.20
457	20.30	-.61	416	1.15	-1.13	096	0.18	-.12	354	8.23	.62	423	7.96	.19
451	20.23	-.63	Meth: 101.30 PCT			035	0.18	-.29	009	7.96	.38	419	7.94	.15
426	20.25	-.65	<u>Acid Soluble Calcium</u>			232	0.17	-.42	351	8.01	.17	Avg	7.88	
102	20.22	-.66	<u>ICP</u>			106	0.17	-.59	423	7.96	.07	027	7.88	-.01
422	20.28	-.67	422	3.26 s	21.18	354	0.15	-1.46	419	7.94	.05	405	7.88	-.03
307	20.47 R	-.68	041	2.27 s	6.29	247	0.14	-1.99	Avg	7.93		023	7.86	-.06
460	20.08	-.84	247	1.95 R	1.51	027	0.13 R	-2.70	027	7.88	-.10	450	7.83	-.27
254	20.07	-.88	389	2.00	1.29	Meth: 144.01 PCT			023	7.86	-.14	444	7.78	-.31
072	19.88	-1.09	009	1.98	.99	<u>Sulfur</u>			450	7.83	-.29	247	7.74	-.38
444	19.88	-1.10	423	1.97	.83	<u>Gravimetric</u>			247	7.74	-.41	055	7.66	-.55
185	19.74	-1.28	354	1.96	.69	296	8.15	1.13	232	7.66	-.57	232	7.66	-.57
351	19.66	-1.38	035	1.96	.62	324	8.04	.71	096	7.58	-.73	096	7.58	-.76
419	19.64	-1.42	096	1.95	.50	043	8.01	.70	368	7.91 R	-1.08	029	7.67	-.77
230	19.65	-1.43	106	1.94	.35	102	7.96	.44	230	7.40	-1.16	230	7.40	-1.29
330	19.60	-1.51	Meth: 144.01 PCT			405	7.88	.15	457	7.08	-1.74	457	7.23	-1.59
390	19.20 R	-2.05	<u>Sulfur</u>			<u>Gravimetric</u>			131	6.94	-2.03	457	7.08	-1.97
073	18.88	-2.43	<u>ICP</u>			<u>Gravimetric</u>			Meth: 144.01 PCT			131	6.94	-2.32
428	18.49	-2.92	<u>Other</u>			<u>Gravimetric</u>			<u>Sulfur</u>			Meth: 144.01 PCT		

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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: 144.XX PCT</u>			<u>Meth: 165.99 PCT</u>			<u>Meth: 181.99 PPM</u>			<u>Meth: 191.30 PPM</u>			<u>Meth: 191.XX PPM</u>		
<u>Sulfur</u>			<u>Acid Soluble Boron</u>			<u>Cadmium</u>			<u>Chromium</u>			<u>Chromium</u>		
035	6.23 s	-4.05	<u>Other</u>			<u>Other</u>			<u>ICP</u>			409	88.75	-.48
086	0.21 s	-18.78	409	24.650	2.36	409	30.00	.01	035	97.75 R	1.75	106	88.50	-.54
<u>Meth: 151.30 PPM</u>			232	23.900 R	2.28	<u>Avg</u>			405	100.50	1.57	102	88.06	-.56
<u>Arsenic</u>			Avg	3.529		231	29.98	-1.22	009	99.85	1.34	457	85.41	-1.01
<u>ICP</u>			354	0.019	-.39	<u>Meth: 181.XX PPM</u>			037	96.96	.89	027	83.00	-1.43
368	8.70	1.42	307	0.010	-.39	<u>Cadmium</u>			368	92.95	.88	232	82.55	-1.50
444	8.48	1.34	422	0.010	-.39	231	29.98 R	1.09	450	93.50	.31	230	59.85 s	-5.37
390	6.74	.54	009	0.008	-.39	037	30.00	1.02	<u>Avg</u>			444	56.31 s	-5.98
450	6.00	.19	389	0.006	-.39	409	30.00	1.02	419	91.00	-.18	<u>Meth: 202.00 PPM</u>		
Avg	5.58		423	0.003	-.39	009	29.75 R	.99	106	88.50	-.54	<u>Acid Soluble Cobalt</u>		
232	4.61	-.46	<u>Meth: 181.00 PPM</u>			368	29.70	.93	102	88.06	-.56	<u>AA</u>		
102	3.99	-.73	<u>Cadmium</u>			390	28.85	.69	027	83.00	-1.36	220	552.50	.71
230	3.13	-1.12	<u>Atomic Absorption</u>			102	28.77	.67	232	82.55	-1.42	<u>Meth: 202.30 PPM</u>		
405	3.00	-1.17	220	27.50	.71	106	28.50	.60	230	59.85 s	-4.98	<u>Acid Soluble Cobalt</u>		
<u>Meth: 151.99 PPM</u>			<u>Meth: 181.30 PPM</u>			419	28.00	.44	444	56.31 s	-5.54	<u>ICP</u>		
<u>Arsenic</u>			<u>Cadmium</u>			233	27.86	.40	<u>Meth: 191.99 PPM</u>			035	549.00	1.77
<u>Other</u>			<u>ICP</u>			220	27.50	.33	<u>Chromium</u>			027	522.00	1.05
220	4.65	1.27	037	30.00	1.09	096	27.00	.15	<u>Other</u>			009	510.50	.75
231	4.64	.52	405	27.00	.15	405	27.00	.15	231	91.78	1.07	037	499.30	.35
Avg	4.53		009	29.75 R	1.05	Avg	26.47		409	88.75	.39	368	497.00	.28
409	4.31	-.78	368	29.70	1.00	232	25.35	-.33	Avg	88.65		Avg	487.52	
<u>Meth: 151.XX PPM</u>			390	28.85	.76	450	24.00	-.71	457	85.41	-1.10	450	480.00	-.23
<u>Arsenic</u>			102	28.77	.74	035	22.65	-1.11	<u>Meth: 191.XX PPM</u>			390	473.50	-.47
368	8.70	1.77	106	28.50	.68	230	19.55	-2.00	<u>Chromium</u>			102	459.42	-.82
444	8.48	1.68	419	28.00	.52	444	18.83	-2.21	035	97.75 R	1.93	232	445.50	-1.22
390	6.74	.77	233	27.86	.48	<u>Meth: 190.00 PCT</u>			405	100.50	1.75	419	439.00	-1.42
450	6.00	.37	405	27.00	.24	<u>Water Soluble Chlori</u>			009	99.85	1.51	230	324.50 s	-4.70
Avg	5.29		096	27.00	.24	<u>Titrimetric</u>			037	96.96	1.02	<u>Meth: 202.99 PPM</u>		
231	4.64	-.34	Avg	26.15		422	15.70	.71	368	92.95	.97	<u>Acid Soluble Cobalt</u>		
232	4.61	-.38	232	25.35	-.23	<u>Meth: 191.00 PPM</u>			220	96.00	.88	<u>Other</u>		
220	4.65	-.38	450	24.00	-.60	<u>Chromium</u>			450	93.50	.39	231	482.16	1.08
409	4.31	-.51	035	22.65	-.99	<u>Atomic Absorption</u>			231	91.78	.12	Avg	473.58	
102	3.99	-.68	230	19.55	-1.86	220	96.00	.71	Avg	91.29		409	465.00	-.58
230	3.13	-1.13	444	18.83	-2.06	<u>Meth: 191.00 PPM</u>			419	91.00	-.18			
405	3.00	-1.19				<u>Chromium</u>			096	90.50	-.29			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 202.XX PPM			Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.30 PCT			Meth: 241.99 PCT		
<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>		
220	552.50 R	2.36	<u>ICP</u>			Avg	0.0052		<u>ICP</u>			<u>Other</u>		
035	549.00	1.97	324	0.0055	.33	232	0.0052	-.02	035	0.74	.84	037	0.70	.71
027	522.00	1.19	009	0.0053	.23	035	0.0052	-.18	233	0.73	.74	Meth: 241.XX PCT		
009	510.50	.87	Avg	0.0052		450	0.0051	-.20	114	0.72	.53	<u>Acid Soluble Iron</u>		
037	499.30	.45	232	0.0052	-.06	307	0.0052	-.28	106	0.71	.48	409	0.94 s	3.90
368	497.00	.37	035	0.0052	-.17	231	0.0050	-.49	360	0.70	.46	420	0.84	2.47
Avg	485.20		450	0.0051	-.22	220	0.0050	-.63	042	0.70	.42	432	0.81	1.88
450	480.00	-.19	307	0.0052	-.27	220	0.0050	-.63	324	0.70	.36	330	0.80	1.80
231	482.16	-.44	096	0.0048	-.75	096	0.0048	-.80	433	0.69	.26	117	0.79	1.63
390	473.50	-.45	422	0.0040	-1.91	041	0.0040	-2.11	405	0.69	.25	354	0.77	1.37
409	465.00	-.63	041	0.0040	-1.91	422	0.0040	-2.11	009	0.68	.18	460	0.77	1.35
102	459.42	-.81	Meth: 221.99 PCT			Meth: 241.00 PCT			390	0.67	.12	028	0.74	.91
232	445.50	-1.24	<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			096	0.68	.10	035	0.74	.88
419	439.00	-1.45	<u>Other</u>			<u>Atomic Absorption</u>			Avg	0.67		233	0.73	.76
230	324.50 s	-4.96	409	0.0056	1.14	460	0.77	1.78	422	0.67	-.11	351	0.72	.59
Meth: 221.00 PCT			Avg	0.0052		028	0.74	1.11	307	0.67	-.12	457	0.72	.50
<u>Acid Soluble Copper</u>			231	0.0050	-.66	351	0.72	.62	102	0.66	-.13	114	0.72	.50
<u>Atomic Absorption</u>			220	0.0050	-.87	457	0.72	.49	231	0.66	-.28	055	0.69 R	.48
043	5.5500 s	7832.29	Meth: 221.XX PCT			073	0.71	.33	419	0.65	-.30	360	0.70	.46
428	0.9401 S	3002.90	<u>Acid Soluble Copper</u>			Avg	0.69		423	0.65	-.34	106	0.71	.44
460	0.0055	.60	043	5.5500 s	9665.20	043	0.68	-.47	426	0.65	-.40	042	0.70	.43
457	0.0055	.53	428	0.9401 s	1627.71	055	0.69 R	-.71	027	0.64	-.47	073	0.71	.39
Avg	0.0053		354	0.0075 s	4.07	220	0.66	-.93	368	0.64 R	-.53	037	0.70	.32
220	0.0050	-1.36	230	0.0060 s	3.74	371	0.65	-1.16	232	0.62	-.66	324	0.70	.28
Meth: 221.30 PCT			233	0.0066 s	3.19	029	0.64	-1.31	291	0.62	-.68	433	0.69	.24
<u>Acid Soluble Copper</u>			419	0.0060	1.37	428	0.10 s	-13.77	041	0.62	-.77	405	0.69	.19
<u>ICP</u>			402	0.0060	1.37	Meth: 241.30 PCT			023	0.59	-1.06	Avg	0.68	
354	0.0075 s	3.56	433	0.0059	1.34	<u>Acid Soluble Iron</u>			450	0.59	-1.08	096	0.68	-.05
230	0.0060 s	3.30	368	0.0055	1.01	<u>ICP</u>			444	0.56	-1.45	177	0.68	-.13
233	0.0066 s	2.79	102	0.0055 R	1.00	409	0.94 s	3.26	402	0.54	-1.68	043	0.68	-.15
402	0.0060	1.17	389	0.0055 R	1.00	420	0.84	2.11	247	0.44	-2.88	390	0.67	-.22
419	0.0060	1.17	409	0.0056	.75	432	0.81	1.65	230	0.42 S	-3.15	009	0.68	-.24
433	0.0059	1.14	460	0.0055	.46	330	0.80	1.58	389	0.34 s	-4.12	422	0.67	-.29
368	0.0055	.88	457	0.0055	.42	117	0.79	1.44				307	0.67	-.29
389	0.0055	.87	324	0.0055	.42	354	0.77	1.23				131	0.66	-.31
102	0.0055	.87	009	0.0053	.27							102	0.66	-.33
												220	0.66	-.44

* 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.XX PCT			Meth: 251.30 PPM			Meth: 261.30 PCT			Meth: 289.30 PPM			Meth: 289.XX PPM		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Molybdenum</u>		
231	0.66	-.49	ICP			ICP			ICP			106	4.00	-.75
419	0.65	-.54	232	2469.0	-.69	402	0.807	.30	037	5.80	.82	220	3.90	-.83
423	0.65	-.59	009	2296.5	-.94	131	0.792	.22	450	5.50	.70	230	3.30	-1.35
371	0.65	-.59	390	2107.0	-1.21	Avg	0.790		390	5.61	.66	009	1.99	-2.49
426	0.65	-.62	Meth: 251.99 PPM			009	0.786	-.09	035	5.56	.62	Meth: 291.00 PPM		
029	0.64	-.70	<u>Lead</u>			041	0.780	-.26	433	5.46	.57	<u>Nickel</u>		
027	0.64	-.75	<u>Other</u>			390	0.786	-.32	232	5.20	.31	<u>Atomic Absorption</u>		
368	0.64 R	-.78	231	2368.8	-.71	368	0.769	-.56	Avg	4.82		220	63.00	.71
232	0.62	-.99	Meth: 251.XX PPM			027	0.755	-.64	102	4.53	-.24	Meth: 291.30 PPM		
291	0.62	-1.01	<u>Lead</u>			444	0.735	-.99	106	4.00	-.69	<u>Nickel</u>		
041	0.62	-1.12	450	4285.0	2.54	422	0.715	-1.35	220	3.90	-.77	<u>ICP</u>		
023	0.59	-1.49	230	3915.0 R	2.14	232	0.669	-2.17	230	3.30	-1.27	009	73.20	1.60
450	0.59	-1.52	027	3357.0 R	1.38	Meth: 281.30 PPM			Meth: 289.99 PPM			037	68.44	.98
444	0.56	-1.98	037	3303.5	1.04	<u>Mercury</u>			<u>Molybdenum</u>			419	67.00	.76
402	0.54	-2.27	233	3194.0	.72	<u>ICP</u>			<u>Other</u>			450	64.50	.43
247	0.44 A	-3.76	419	2871.0	.31	009	0.10	.87	422	9.14 S	21.92	390	62.95	.40
230	0.42 s	-4.10	102	2773.5	.09	Avg	0.05		231	5.59	.87	106	63.50	.30
389	0.34 s	-5.31	Avg	2772.2		450	0.00	-.87	Avg	5.45		102	62.07	.11
428	0.10 s	-8.93	106	2670.5	-.23	Meth: 281.99 PPM			409	5.31	-.86	Avg	61.30	
Meth: 251.00 PPM			035	2498.0	-.47	<u>Mercury</u>			Meth: 289.XX PPM			035	60.80	-.15
<u>Lead</u>			232	2469.0	-.52	<u>Other</u>			<u>Molybdenum</u>			444	57.31	-.58
<u>Atomic Absorption</u>			220	2430.0	-.62	220	0.05	.00	422	9.14 s	3.69	232	56.60	-.63
220	2430.0	.71	231	2368.8	-.70	Meth: 281.XX PPM			307	6.01	.99	027	55.60	-.77
Meth: 251.30 PPM			009	2296.5	-.81	<u>Mercury</u>			368	5.70 R	.89	368	58.95 R	-1.05
<u>Lead</u>			390	2107.0	-1.12	009	0.10	1.09	419	5.85	.88	230	43.65	-2.37
<u>ICP</u>			Meth: 261.30 PCT			220	0.05	.06	037	5.80	.82	Meth: 291.99 PPM		
450	4285.0	1.93	<u>Acid Soluble Manganese</u>			Avg	0.05		450	5.50 R	.70	<u>Nickel</u>		
230	3915.0	1.61	<u>ICP</u>			450	0.00	-1.15	390	5.61	.64	<u>Other</u>		
027	3357.0 R	1.02	354	0.892	1.82	Meth: 289.30 PPM			231	5.59	.63	409	64.55	.46
037	3303.5	.69	389	0.850 R	1.39	<u>Molybdenum</u>			035	5.56	.61	Avg	63.75	
233	3194.0	.37	035	0.861	1.25	<u>ICP</u>			433	5.46	.55	231	62.94	-1.13
Avg	2943.9		102	0.841	.91	307	6.01	.99	409	5.31	.38	Meth: 291.99 PPM		
419	2871.0	-.25	106	0.835	.80	368	5.70 R	.89	232	5.20	.29	<u>Nickel</u>		
102	2773.5	-.26	423	0.825	.63	419	5.85	.88	Avg	4.87		<u>Other</u>		
106	2670.5	-.41	307	0.798	.46	Meth: 289.30 PPM			102	4.53	-.29	409	64.55	.46
035	2498.0	-.65	Meth: 261.30 PCT			<u>Molybdenum</u>			Meth: 289.30 PPM			Avg	63.75	
<u>Acid Soluble Iron</u>			<u>Acid Soluble Manganese</u>			<u>ICP</u>			<u>Molybdenum</u>			231	62.94	-1.13

* 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	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 291.XX PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.XX PCT</u>		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
009	73.20	1.70	368	9.60 s	12.52	ICP			Other			296	0.875	-.50
037	68.44	1.02	450	2.50	1.45	432	1.240 s	3.97	231	0.909	.71	419	0.870	-.52
419	67.00	.78	231	2.33	1.00	117	1.240 s	3.92				043	0.870	-.54
409	64.55	.42	230	1.86	.23	292	1.060	1.74	<u>Meth: 321.XX PCT</u>			390	0.870	-.54
450	64.50	.42	Avg	1.72		420	1.055	1.69	<u>Acid Soluble Zinc</u>			433	0.859	-.69
390	62.95	.41	409	1.46	-.41	360	1.038	1.51	432	1.240 s	4.60	368	0.868	-.69
231	62.94	.34	232	1.11	-1.02	354	1.016	1.23	117	1.240 s	4.55	426	0.850	-.97
106	63.50	.27	296	1.04	-1.06	106	1.015	1.21	292	1.060	2.08	232	0.836	-.99
220	63.00	.24				035	1.015	1.20	420	1.055	2.02	029	0.848	-1.00
102	62.07	.06	<u>Meth: 311.99 PCT</u>			102	0.981	.81	360	1.038	1.81	027	0.835	-1.00
Avg	61.74		<u>Sodium</u>			330	0.950 R	.73	457	0.995 R	1.57	041	0.835	-1.00
035	60.80	-.20	<u>Other</u>			009	0.972	.68	354	1.016	1.50	444	0.830	-1.08
444	57.31	-.70	041	1.51 s	39.25	114	0.960	.55	106	1.015	1.48	291	0.805	-1.41
232	56.60	-.77	422	0.56	1.54	042	0.950	.43	035	1.015	1.47	405	0.755	-2.10
027	55.60	-.91	102	0.54	.68	307	0.936	.41	102	0.981	1.02	422	0.745	-2.26
368	58.95 R	-1.18	009	0.53	.33	324	0.949	.40	330	0.950 R	.90	389	0.500 s	-5.59
230	43.65	-2.69	Avg	0.53		233	0.946	.36	009	0.972	.88	460	0.128 s	-10.69
			232	0.52	-.35	402	0.929	.15	114	0.960	.73	428	0.099 s	-11.08
			423	0.51	-.89	037	0.924	.14	042	0.950	.59			
<u>Meth: 301.30 PPM</u>			<u>Meth: 321.00 PCT</u>			230	0.921	.06	324	0.949	.56			
<u>Selenium</u>			<u>Acid Soluble Zinc</u>			Avg	0.916		307	0.936	.54			
ICP			<u>Atomic Absorption</u>			450	0.915	-.06	233	0.946	.52			
368	9.60 S	11.07	457	0.995 R	4.62	423	0.915	-.06	073	0.932	.33			
450	2.50	1.18	073	0.932	1.53	131	0.914	-.14	402	0.929	.28			
230	1.86	.06	028	0.913	.86	023	0.875	-.50	037	0.924	.25			
Avg	1.82		390	0.870	-.57	419	0.870	-.55	231	0.909	.18			
232	1.11	-1.05	177	0.903	.51	368	0.868	-.69	131	0.914	.18			
			351	0.902	.50	433	0.859	-.70	230	0.921	.17			
<u>Meth: 301.99 PPM</u>			220	0.894	.18	426	0.850 R	-.94	450	0.915	.12			
<u>Selenium</u>			Avg	0.889		232	0.836	-.97	423	0.915	.12			
<u>Other</u>			055	0.880	-.33	027	0.835	-.98	028	0.913	.09			
231	2.33	1.23	371	0.875	-.54	041	0.835	-.98	Avg	0.908				
Avg	1.61		296	0.875	-.76	444	0.830	-1.05	177	0.903	-.11			
409	1.46	-.27	043	0.870	-.77	291	0.805	-1.34	351	0.902	-.11			
296	1.04	-.95	029	0.848	-2.07	405	0.755	-1.95	220	0.894	-.19			
			460	0.128 S	-27.15	422	0.745	-2.09	055	0.880	-.38			
			428	0.099 S	-28.16	389	0.500 s	-5.03	371	0.875	-.46			
									023	0.875	-.46			

* 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	11	1.28	4.36	0.12	050.XX	70	- 0.10	1.55	0.24
001.99	8	0.05	13.48	0.80	060.00	4	0.00	1.07	0.12
001.XX	19	1.75	9.50	0.47	060.XX	5	6.96	15.59	0.36
005.00	3	0.00	1.12	0.05	101.30	16	1.70	5.43	0.93
005.99	3	0.00	1.10	0.14	101.XX	16	1.70	5.43	0.93
005.XX	6	0.00	1.05	0.06	121.30	16	0.29	2.15	0.13
009.10	2	0.00	1.22	0.03	121.XX	16	0.29	2.15	0.13
009.XX	2	0.00	1.22	0.03	144.01	9	- 0.07	0.97	0.32
010.11	10	- 0.31	1.76	0.42	144.02	2	0.00	1.19	0.20
010.12	4	- 1.97	4.05	0.26	144.99	22	- 0.88	3.53	0.34
010.60	60	0.01	3.40	0.63	144.XX	31	- 0.66	3.56	0.38
010.99	3	0.00	0.86	0.59	151.30	8	0.00	1.03	0.11
010.XX	76	- 0.13	3.04	0.58	151.99	3	0.00	0.68	0.73
020.10	5	0.00	0.80	0.62	151.XX	11	0.00	1.02	0.12
020.20	19	7.27	21.31	1.08	165.99	8	0.285	1.256	0.036
020.40	5	0.00	1.05	0.16	165.XX	8	0.285	1.256	0.036
020.50	14	0.37	1.61	0.46	181.30	15	0.07	1.01	0.09
020.99	2	0.00	0.00	0.00	181.99	2	0.00	0.01	0.87
020.XX	43	2.81	9.72	0.51	181.XX	18	0.11	1.00	0.13
030.20	3	0.00	0.95	0.49	191.30	14	- 0.68	2.13	0.52
030.XX	6	5.06	12.42	0.42	191.99	3	0.00	1.07	0.25
040.20	2	0.00	1.20	0.18	191.XX	18	- 0.57	2.06	0.51
040.99	3	0.00	1.05	0.30	202.30	11	- 0.43	1.71	0.20
040.XX	8	- 0.68	2.15	0.18	202.99	2	0.00	0.80	0.66
041.10	13	- 0.31	1.46	0.87	202.XX	14	- 0.21	1.73	0.38
041.20	2	- 1.18	1.67	1.64	221.00	5	4159.4	7733.4	505.31
041.40	4	0.00	1.08	0.08	221.30	18	0.3750	1.2770	0.9314
041.50	11	0.15	1.08	0.30	221.99	3	0.0000	0.9826	0.4355
041.60	12	1.15	3.81	3.55	221.XX	25	451.26	1942.9	122.48
041.XX	35	0.07	1.58	1.30	241.00	12	- 1.16	4.08	0.23
048.20	2	0.00	1.22	0.09	241.30	38	- 0.11	1.37	0.15
048.XX	3	0.00	1.11	0.09	241.XX	51	- 0.37	1.95	0.18
050.00	15	- 0.21	1.24	0.32	251.30	12	0.05	0.95	0.37
050.30	7	- 0.19	1.07	0.12	251.XX	14	0.21	1.08	0.41
050.50	10	0.00	1.01	0.20	261.30	17	0.063	0.999	0.288
050.51	11	0.35	1.52	0.18	261.XX	17	0.063	0.999	0.288
050.60	7	0.75	2.11	0.31	281.30	2	0.00	1.22	0.00
050.61	6	0.00	1.01	0.25	281.XX	3	0.00	1.12	0.00
050.99	19	- 0.49	2.31	0.32	289.30	14	0.05	0.99	0.20

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
289.99	3	7.31	12.68	0.34					
289.XX	17	0.29	1.28	0.19					
291.30	13	- 0.02	0.97	0.31					
291.99	2	0.00	0.60	0.75					
291.XX	16	- 0.03	0.97	0.32					
301.30	4	2.72	5.49	1.12					
301.99	3	0.00	1.09	0.20					
301.XX	7	1.76	4.73	0.95					
311.99	7	5.60	14.85	0.63					
311.XX	7	5.60	14.85	0.63					
321.00	13	- 3.964	10.594	0.871					
321.30	36	0.068	1.572	0.219					
321.XX	49	- 0.118	2.223	0.275					