

- Pass 1 Results for 73 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, MgO Distillation .	920.03	001.10	4	5.65	0.07	0.01	4	5.65	0.07	0.01
Ammoniacal Nitrogen, Other .....		001.99	3	5.56	0.16	0.10	3	5.56	0.16	0.10
Method Group 001.XX PCT			7	5.61	0.12	0.05	7	5.61	0.12	0.05
Nitrate Nitrogen, Other .....		002.99	1	0.04	0.01	0.02	1	0.04	0.01	0.02
Ammon & Nitrate N, Devarda .....	892.01	009.10	2	5.65	0.09	0.04	2	5.65	0.09	0.04
Ammon & Nitrate N, Other .....		009.99	1	5.65	0.17	0.24	1	5.65	0.17	0.24
Method Group 009.XX PCT			3	5.65	0.10	0.11	3	5.65	0.10	0.11
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	5.61	0.10	0.02	9	5.61	0.10	0.02
Total Nitrogen, Salicylic .....	955.04D	010.12	3	5.87	0.18	0.03	3	5.87	0.18	0.03
Total Nitrogen, Combustion .....		010.60	48	5.68	0.12	0.07	45	5.67	0.11	0.05
Total Nitrogen, Other .....		010.99	3	5.70	0.26	0.08	3	5.70	0.26	0.08
Method Group 010.XX PCT			63	5.68	0.14	0.06	60	5.68	0.13	0.05
Total Phosphate, Grav Quimociac .....	962.02	020.10	10	19.75	0.15	0.04	9	19.78	0.11	0.03
Total Phosphate, Spectrometric .....	958.01	020.20	10	19.80	0.29	0.16	9	19.76	0.26	0.11
Total Phosphate, Automated .....	978.01	020.40	5	19.83	0.13	0.08	5	19.83	0.13	0.08
Total Phosphate, ICP .....		020.50	13	19.56	0.63	0.17	12	19.59	0.64	0.12
Total Phosphate, Other .....		020.99	2	19.72	0.23	0.14	2	19.72	0.23	0.14
Method Group 020.XX PCT			41	19.70	0.41	0.13	37	19.73	0.38	0.08
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Insoluble Phosphate, Automated .....	978.01	030.40	1	0.06	0.01	0.02	1	0.06	0.01	0.02
Insoluble Phosphate, ICP .....		030.50	1	0.23	0.00	0.00	1	0.23	0.00	0.00
Insoluble Phosphate, Other .....		030.99	1	0.04	0.01	0.01	1	0.04	0.01	0.01
Method Group 030.XX PCT			4	0.09	0.09	0.01	4	0.09	0.09	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	19.89	0.01	0.01	1	19.89	0.01	0.01
InDir Available Phosphate, Spectrometri	960.02	040.20	1	20.14	0.04	0.06	1	20.14	0.04	0.06
InDir Available Phosphate, Automated ..	960.02	040.40	2	19.79	0.16	0.08	2	19.79	0.16	0.08
InDir Available Phosphate, ICP .....		040.50	2	19.75	0.35	0.32	2	19.75	0.35	0.32
Method Group 040.XX PCT			6	19.85	0.25	0.15	5	19.91	0.17	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	10	19.66	0.14	0.07	10	19.66	0.14	0.07
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	19.80	0.00	0.00	1	19.80	0.00	0.00
Dir Available Phosphate, Automated ....	978.01	041.40	1	19.70	0.06	0.09	1	19.70	0.06	0.09
Dir Available Phosphate, ICP .....		041.50	9	19.51	0.62	0.14	9	19.51	0.62	0.14
Dir Available Phosphate, EDTA Extract .	993.01	041.60	9	19.72	0.08	0.08	8	19.73	0.06	0.06
Dir Available Phosphate, Other .....		041.99	1	19.54	0.04	0.06	1	19.54	0.04	0.06
Method Group 041.XX PCT			33	19.64	0.35	0.09	30	19.66	0.27	0.08
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	15.96	0.09	0.13	1	15.96	0.09	0.13
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	16.32	0.03	0.04	1	16.32	0.03	0.04
Water Soluble Phosphate, ICP .....		048.50	2	18.70	1.41	0.24	2	18.70	1.41	0.24
Water Soluble Phosphate, Other .....		048.99	1	16.88	0.02	0.03	1	16.88	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			5	17.31	1.48	0.14	5	17.31	1.48	0.14
Soluble Potash, STPB Oxalate .....	958.02	050.00	12	20.10	0.31	0.25	12	20.10	0.31	0.25
Soluble Potash, AA (Oxalate) .....		050.30	5	20.46	0.72	0.13	4	20.64	0.69	0.04
Soluble Potash, AA (Citrate) .....		050.31	2	19.55	0.66	0.80	2	19.55	0.66	0.80
Soluble Potash, ICP (Oxalate) .....		050.50	7	19.91	0.42	0.33	6	19.95	0.35	0.16
Soluble Potash, ICP (Citrate) .....		050.51	8	20.38	0.55	0.26	8	20.38	0.55	0.26
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	4	20.15	0.45	0.07	4	20.15	0.45	0.07
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	9	20.29	0.37	0.32	9	20.29	0.37	0.32
Soluble Potash, Other .....		050.99	19	20.26	0.56	0.26	18	20.22	0.54	0.21
Method Group 050.XX PCT			69	20.26	0.58	0.29	64	20.22	0.51	0.22
Free Water, Vacuum Oven .....	965.08B	060.00	3	0.89	0.13	0.01	3	0.89	0.13	0.01
Free Water, Karl Fischer .....	972.01	060.20	1	2.43	0.01	0.02	1	2.43	0.01	0.02
Method Group 060.XX PCT			4	1.27	0.72	0.01	4	1.27	0.72	0.01
Acid Soluble Calcium, ICP .....		101.30	13	2.48	0.18	0.06	12	2.48	0.19	0.04
Acid Soluble Magnesium, AA .....	984.01	121.00	7	2.37	0.12	0.05	7	2.37	0.12	0.05
Acid Soluble Magnesium, ICP .....		121.30	30	2.42	0.16	0.06	29	2.41	0.15	0.05
Acid Soluble Magnesium, Titrimetric ...	964.01	121.70	1	2.57	0.05	0.07	1	2.57	0.05	0.07
Acid Soluble Magnesium, Other .....		121.99	3	2.17	0.26	0.04	3	2.17	0.26	0.04
Method Group 121.XX PCT			41	2.40	0.17	0.06	39	2.40	0.15	0.05
Water Soluble Magnesium, AA .....		131.00	1	1.88	0.00	0.00	1	1.88	0.00	0.00
Water Soluble Magnesium, ICP .....		131.30	5	2.43	0.48	0.20	4	2.40	0.50	0.06
Method Group 131.XX PCT			6	2.34	0.48	0.17	5	2.30	0.49	0.05
Sulfur, Gravimetric .....	980.02a	144.01	16	7.49	0.20	0.10	16	7.49	0.20	0.10
Sulfur, Other .....		144.99	23	7.19	0.35	0.16	22	7.17	0.34	0.12
Method Group 144.XX PCT			40	7.28	0.39	0.13	38	7.31	0.32	0.11
Arsenic, Atomic Absorption .....		151.00	1	17.50	0.71	1.00	1	17.50	0.71	1.00
Arsenic, ICP .....		151.30	9	14.98	6.40	1.39	8	14.28	6.39	0.97
Method Group 151.XX PPM			10	15.23	6.10	1.35	9	14.63	6.10	0.97
Acid Soluble Boron, Spectrometric .....	982.01	165.00	7	0.322	0.041	0.011	6	0.321	0.044	0.007
Acid Soluble Boron, Other .....		165.99	24	0.342	0.052	0.009	23	0.341	0.053	0.008
Method Group 165.XX PCT			31	0.338	0.050	0.009	30	0.338	0.051	0.009
Water Soluble Boron, Other .....		171.99	2	0.345	0.014	0.013	2	0.345	0.014	0.013
Cadmium, Atomic Absorption .....		181.00	1	11.40	0.42	0.60	1	11.40	0.42	0.60
Cadmium, ICP .....		181.30	9	11.14	2.76	0.50	9	11.14	2.76	0.50
Method Group 181.XX PPM			10	11.17	2.61	0.51	10	11.17	2.61	0.51
Chromium, ICP .....		191.30	6	70.48	2.60	1.81	6	70.48	2.60	1.81
Method Group 191.XX PPM			6	70.48	2.60	1.81	6	70.48	2.60	1.81
Acid Soluble Cobalt, AA .....		202.00	1	3.55	0.07	0.10	1	3.55	0.07	0.10
Acid Soluble Cobalt, ICP .....	965.11	202.30	7	2.34	0.56	0.14	6	2.22	0.51	0.08

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Acid Soluble Cobalt, Other		202.99	1	2.51	0.12	0.17	1	2.51	0.12	0.17
Method Group 202.XX PPM			9	2.49	0.63	0.14	8	2.42	0.63	0.09
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0186	0.0002	0.0003	2	0.0186	0.0002	0.0003
Acid Soluble Copper, ICP		221.30	15	0.0191	0.0011	0.0005	13	0.0190	0.0011	0.0003
Method Group 221.XX PCT			17	0.0190	0.0011	0.0005	15	0.0190	0.0011	0.0003
Acid Soluble Iron, Atomic Absorption	980.01	241.00	6	0.60	0.04	0.02	6	0.60	0.04	0.02
Acid Soluble Iron, ICP		241.30	27	0.57	0.04	0.01	26	0.57	0.04	0.01
Acid Soluble Iron, Other		241.99	4	0.52	0.07	0.01	4	0.52	0.07	0.01
Method Group 241.XX PCT			37	0.57	0.05	0.01	35	0.58	0.04	0.01
Lead, Atomic Absorption		251.00	1	56.85	0.35	0.50	1	56.85	0.35	0.50
Lead, ICP		251.30	9	54.33	12.52	2.46	9	54.33	12.52	2.46
Method Group 251.XX PPM			10	54.58	11.87	2.26	10	54.58	11.87	2.26
Acid Soluble Manganese, AA	972.02a	261.00	6	0.022	0.002	0.002	6	0.022	0.002	0.002
Acid Soluble Manganese, AA	972.02b	261.11	1	0.020	0.001	0.002	1	0.020	0.001	0.002
Acid Soluble Manganese, ICP	972.02a	261.30	21	0.020	0.002	0.001	19	0.020	0.001	0.001
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.020	0.000	0.000	1	0.020	0.000	0.000
Acid Soluble Manganese, Other		261.99	4	0.018	0.003	0.000	3	0.018	0.003	0.000
Method Group 261.XX PCT			33	0.020	0.002	0.001	30	0.020	0.002	0.001
Water Soluble Manganese, ICP	972.03	271.30	2	0.006	0.001	0.001	2	0.006	0.001	0.001
Mercury, Atomic Absorption		281.00	1	0.07	0.00	0.00	1	0.07	0.00	0.00
Mercury, ICP		281.30	2	0.21	0.18	0.02	2	0.21	0.18	0.02
Method Group 281.XX PPM			3	0.16	0.16	0.01	3	0.16	0.16	0.01
Molybdenum, ICP		289.30	9	7.27	1.99	1.03	8	6.99	1.57	0.39
Nickel, Atomic Absorption		291.00	1	15.95	0.49	0.70	1	15.95	0.49	0.70
Nickel, ICP		291.30	7	16.26	1.70	1.06	6	15.97	1.45	0.61
Method Group 291.XX PPM			9	15.47	2.64	0.94	8	15.15	2.55	0.58
Selenium, ICP		301.30	1	1.40	0.04	0.06	1	1.40	0.04	0.06
Selenium, Other		301.99	1	3.56	0.03	0.04	1	3.56	0.03	0.04
Method Group 301.XX PPM			2	2.48	1.25	0.05	2	2.48	1.25	0.05
Sodium, Other		311.99	4	0.59	0.10	0.01	4	0.59	0.10	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	9	0.335	0.015	0.015	9	0.335	0.015	0.015
Acid Soluble Zinc, ICP		321.30	29	0.328	0.029	0.014	27	0.327	0.023	0.010
Acid Soluble Zinc, Other		321.99	1	0.345	0.007	0.010	1	0.345	0.007	0.010
Method Group 321.XX PCT			39	0.330	0.026	0.014	37	0.330	0.022	0.011
Water Soluble Zinc, ICP		325.30	1	0.295	0.007	0.010	1	0.295	0.007	0.010
Water Soluble Zinc, Other		325.99	1	0.395	0.035	0.050	1	0.395	0.035	0.050
Method Group 325.XX PCT			2	0.345	0.061	0.030	2	0.345	0.061	0.030

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT Ammoniacal Nitrogen <u>MqO Distillation</u>			Meth: 009.99 PCT Ammon & Nitrate N <u>Other</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.XX PCT Total Nitrogen <u>368 5.71 .63</u>		
444	5.71	.76	258	5.65	-.71	255	5.76 R	1.91	421	5.59	-.76	470	5.75	.52
470	5.71	.76				007	5.70 R	1.80	351	5.57	-1.09	096	5.73	.46
Avg	5.65					095	5.85	1.76	028	5.57	-1.12	354	5.72	.42
231	5.65	-.14	Meth: 009.XX PCT <u>Ammon &amp; Nitrate N</u>			023	5.86	1.63	402	5.57	-1.17	494	5.70	.42
456	5.54	-1.52	258	5.65	1.17	291	5.84	1.43	489	5.55	-1.20	247	5.73	.41
			393	5.72	.74	055	5.83	1.38	444	5.55	-1.26	472	5.73	.37
			Avg	5.65		483	5.82	1.25	034	5.49	-1.64	177	5.70	.19
Meth: 001.99 PCT Ammoniacal Nitrogen <u>Other</u>			Meth: 010.11 PCT Total Nitrogen <u>Modified Comprehensive</u>			443	5.75	.81	131	5.49	-1.69	157	5.70	.18
393	5.68	.79	456	5.77	1.55	368	5.71	.76	027	5.45	-2.01	325	5.70	.18
096	5.63	.50	470	5.75	1.28	096	5.73	.56	275	5.23 s	-3.93	042	5.70	.18
Avg	5.56		493	5.68	.66	354	5.72	.51	324	5.28 s	-4.37	043	5.68	.15
027	5.38	-1.28	105	5.62	.24	247	5.73	.50				262	5.69	.08
			Avg	5.61		494	5.70	.50	Meth: 010.99 PCT Total Nitrogen <u>Other</u>			Avg	5.68	
Meth: 001.XX PCT Ammoniacal Nitrogen			416	5.60	-.11	472	5.73	.45	200	6.03	1.24	292	5.68	-.04
444	5.71	.78	137	5.60	-.16	177	5.70	.24	Avg	5.70		049	5.66	-.14
470	5.71	.78	114	5.56	-.49	042	5.70	.23	255	5.58	-.47	493	5.68	-.19
393	5.68	.62	211	5.48	-1.25	325	5.70	.23	487	5.50	-.86	041	5.65	-.20
096	5.63	.39	476	5.46	-1.46	157	5.70	.23				393	5.65	-.21
231	5.65	.33				043	5.68	.19	Avg	5.70		185	5.65	-.21
Avg	5.61					262	5.69	.10	255	5.58	-.47	360	5.67	-.23
456	5.54	-.61				292	5.68	.04	487	5.50	-.86	073	5.64	-.27
027	5.38	-2.06				Avg	5.67					136	5.64	-.31
			Meth: 010.12 PCT Total Nitrogen <u>Salicylic</u>			049	5.66	-.16	Meth: 010.XX PCT Total Nitrogen			200	6.03	2.62
			254	6.02	.81	041	5.65	-.22	200	6.03	2.62	389	5.64	-.31
			481	5.96	.49	393	5.65	-.24	254	6.02	2.54	233	5.62	-.42
			Avg	5.87		360	5.67	-.27	481	5.96	2.10	040	5.65	-.42
			185	5.65	-1.27	073	5.64	-.31	451	5.94	1.98	450	5.65	-.42
						136	5.64	-.36	406	5.92	1.84	488	5.65	-.42
Meth: 002.99 PCT Nitrate Nitrogen <u>Other</u>						389	5.64	-.36	307	5.84 R	1.61	105	5.62	-.45
393	0.04	.71				233	5.62	-.49	255	5.76 R	1.60	105	5.62	-.50
						488	5.65	-.50	007	5.70 R	1.51	230	5.63	-.51
						450	5.65	-.50	095	5.85	1.47	102	5.61	-.57
Meth: 009.10 PCT Ammon & Nitrate N <u>Devarda</u>						040	5.65	-.50	023	5.86	1.36	416	5.60	-.57
393	5.72	.87				105	5.62	-.52	291	5.84	1.19	029	5.61	-.58
Avg	5.65					230	5.63	-.60	055	5.83	1.15	137	5.60	-.61
090	5.57	-.87				102	5.61	-.66	483	5.82	1.04	421	5.59	-.65
						029	5.61	-.68	456	5.77	.74	255	5.58	-.75
									443	5.75	.67	114	5.56	-.87

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.99 PCT			Meth: 020.XX PCT			Meth: 030.XX PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>		
351	5.57	-.93	<u>Spectrometric</u>			<u>Other</u>			258	19.54	-.51	096	0.06	-.34
028	5.57	-.95	231	19.70	-.23	487	19.91	.92	444	19.49	-.71	247	0.04	-.61
402	5.57	-1.00	371	19.69	-.38	Avg	19.72		444	19.45	-.78	090	0.03	-.67
489	5.55	-1.02	489	19.65	-.46	258	19.54	-.81	200	19.40	-.88	Meth: 040.10 PCT		
444	5.55	-1.07	450	19.65	-.48	Meth: 020.XX PCT			027	19.39 R	-1.05	InDir Available Phos		
034	5.49	-1.39	200	19.40	-1.41	<u>Total Phosphate</u>			402	19.31	-1.12	<u>Grav Quim</u>		
131	5.49	-1.44	Meth: 020.40 PCT			483	21.60 s	4.94	421	19.25	-1.28	090	19.89	.71
211	5.48	-1.47	<u>Total Phosphate</u>			451	20.63	2.38	472	19.15	-1.54	Meth: 040.20 PCT		
487	5.50	-1.52	<u>Automated</u>			393	20.51	2.07	157	19.20 R	-1.76	InDir Available Phos		
476	5.46	-1.63	456	19.99	1.34	406	20.32	1.56	389	19.04	-1.84	<u>Spectrometri</u>		
027	5.45	-1.70	247	19.96	.96	481	20.21 R	1.47	307	18.93 R	-2.21	476 20.14 .71		
275	5.23 s	-3.32	Avg	19.83		368	20.12	1.05	255	18.64	-2.90			
324	5.28 s	-3.68	470	19.76	-.55	291	20.03	.79	025	18.61 s	-3.25			
Meth: 020.10 PCT			105	19.73	-.80	456	19.99	.71	Meth: 030.10 PCT			Meth: 040.40 PCT		
<u>Total Phosphate</u>			096	19.72	-.91	324	19.90	.69	<u>Insoluble Phosphate</u>			InDir Available Phos		
<u>Grav Quimociac</u>			027	19.39 s	-3.64	247	19.98	.66	<u>Grav Quimociac</u>			<u>Automated</u>		
090	19.92	1.21	Meth: 020.50 PCT			247	19.96	.60	090	0.03	.00	247	19.92	.84
157	19.90	1.08	<u>Total Phosphate</u>			487	19.91	.54	Meth: 030.40 PCT			Avg	19.79	
211	19.88	.90	<u>ICP</u>			090	19.92	.49	<u>Insoluble Phosphate</u>			096	19.66	-.90
114	19.85	.63	483	21.60 S	3.15	157	19.90	.45	<u>Automated</u>			Meth: 040.50 PCT		
470	19.81	.23	451	20.63	1.63	211	19.88	.40	096	0.06	.71	InDir Available Phos		
Avg	19.78		393	20.51	1.44	114	19.85	.32	Meth: 030.50 PCT			<u>ICP</u>		
493	19.70	-.80	368	20.12	.84	416	19.80	.21	<u>Insoluble Phosphate</u>			247	19.95	.58
105	19.69	-.92	291	20.03	.69	470	19.81	.20	Meth: 030.50 PCT			Avg	19.75	
322	19.65	-1.18	247	19.98	.61	105	19.73	.11	<u>Insoluble Phosphate</u>			488	19.55	-1.08
041	19.65	-1.32	Avg	19.59		470	19.76	.07	<u>ICP</u>					
444	19.45 R	-3.10	444	19.49	-.24	Avg	19.73		255	0.23	.00			
Meth: 020.20 PCT			402	19.31	-.44	292	19.72	-.04	Meth: 030.99 PCT			Meth: 040.XX PCT		
<u>Total Phosphate</u>			421	19.25	-.54	231	19.70	-.08	<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>		
<u>Spectrometric</u>			472	19.15	-.69	493	19.70	-.11	<u>Other</u>			476	20.14	1.39
406	20.32	2.20	389	19.04	-.87	096	19.72	-.13	247 0.04 -.71			247	19.95	.25
481	20.21 R	2.08	157	19.20 R	-.87	105	19.69	-.15	Meth: 030.XX PCT			247	19.92	.13
324	19.90	.96	307	18.93	-1.10	371	19.69	-.21	<u>Insoluble Phosphate</u>			Avg	19.91	
416	19.80	.23	255	18.64	-1.49	322	19.65	-.21	255 0.23 1.60			090	19.89	-.15
Avg	19.76		025	18.61 S	-1.72	489	19.65	-.25	Avg 0.09			096	19.66	-1.57
292	19.72	-.17				450	19.65	-.26				488	19.55 R	-2.90
						041	19.65	-.27						

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index						
Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 048.20 PCT			Meth: 050.00 PCT								
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>								
<u>Grav Quimociac</u>			<u>ICP</u>			<u>485 19.79 .55</u>			<u>Spectrometric</u>			<u>STPB Oxalate</u>								
254	20.00	2.38	137	18.74	-1.25	043	19.81	.53	096	16.32	.71	211	19.90	-.64						
485	19.79	1.08	325	18.85 S	-1.39	262	19.80	.51	Meth: 048.50 PCT			485	19.95	-1.11						
Avg	19.66		255	18.41	-1.78	034	19.80	.50	<u>Water Soluble Phosph</u>			102	19.74	-1.40						
177	19.64	-.12	354	15.47 s	-6.54	043	19.79	.47	<u>ICP</u>			049	19.76	-1.67						
105	19.65	-.14	Meth: 041.60 PCT			494	19.75	.36	393	19.92	.86	Meth: 050.30 PCT								
040	19.65	-.36	<u>Dir Available Phosph</u>			105	19.71	.29	Avg	18.70		<u>Soluble Potash</u>								
102	19.60	-.41	<u>EDTA Extract</u>			351	19.73	.26	444	17.49	-.87	<u>AA (Oxalate)</u>								
185	19.60	-.43	028	19.99 s	4.59	131	19.70	.20	Meth: 048.99 PCT			185	21.27	.91						
009	19.57	-.76	043	19.81	1.26	007	19.70	.20	<u>Water Soluble Phosph</u>			262	21.24	.87						
049	19.54	-.86	034	19.80	1.12	177	19.70	.20	<u>Other</u>			Avg	20.64							
055	19.55	-.91	494	19.75	.96	231	19.70	.13	247	16.88	.71	136	20.29	-.51						
Meth: 041.20 PCT			Avg	19.73		136	19.68	-.95	Meth: 048.XX PCT			351	19.75	-1.28						
<u>Dir Available Phosph</u>			351	19.73	-.40	177	19.64	-.09	<u>Water Soluble Phosph</u>			040	19.75 R	-1.34						
<u>Spectrometric</u>			231	19.70	-.55	105	19.65	-.09	Meth: 050.31 PCT			Meth: 050.31 PCT								
262	19.80	.00	136	19.68	-.95	040	19.65	-.19	<u>Soluble Potash</u>			<u>AA (Citrate)</u>								
Meth: 041.40 PCT			177	19.70	-.96	102	19.60	-.24	393	19.92	1.76	472			19.75	1.18				
<u>Dir Available Phosph</u>			105	19.71	-1.20	185	19.60	-.25	444	17.49	.19	Avg			19.55					
<u>Automated</u>			029	19.62 R	-3.05	009	19.57	-.42	Avg	17.31		254			19.35	-.31				
095	21.29 S	29.01	042	19.45 s	-4.88	049	19.54	-.48	096	16.32	-.67	Meth: 050.50 PCT			Meth: 050.50 PCT					
Avg	19.70		Meth: 041.99 PCT			105	19.54	-.48	444	15.96	-.92	<u>Soluble Potash</u>			<u>ICP (Oxalate)</u>					
131	19.70	-.71	<u>Dir Available Phosph</u>			055	19.55	-.50	Meth: 050.00 PCT			444			20.54	1.70				
472	18.55 S	-20.69	<u>Other</u>			029	19.62	-.55	<u>Soluble Potash</u>			231			20.04	.35				
027	17.84 S	-29.72	105	19.54	.71	042	19.45	-.82	<u>STPB Oxalate</u>			Avg			19.95					
Meth: 041.50 PCT			Avg	19.54		055	19.09	-2.15	230	21.50 s	4.95	354			19.94	-.02				
<u>Dir Available Phosph</u>			230	17.20 S	-55.20	137	18.74	-3.47	489	21.35 s	4.09	488			19.95	-.43				
<u>ICP</u>			Meth: 041.XX PCT			325	18.85 s	-3.67	090	20.51	1.33	324			19.75	-.72				
393	20.29	1.25	<u>Dir Available Phosph</u>			255	18.41 A	-4.69	494	20.23	1.12	055			19.49	-1.33				
360	20.11	.99	095	21.29 s	6.99	472	18.55 s	-4.82	470	20.40	.98	157			19.65 R	-2.07				
009	19.81	.54	393	20.29	2.32	027	17.84 s	-6.95	009	20.26	.76	Meth: 048.10 PCT			Meth: 048.10 PCT					
043	19.79	.45	360	20.11 R	1.76	230	17.20 s	-9.21	<u>Water Soluble Phosph</u>			<u>Water Soluble Phosph</u>			<u>Water Soluble Phosph</u>					
023	19.69	.41	028	19.99	1.25	354	15.47 s	-15.70	<u>Grav Quimociac</u>			Avg			Avg					
007	19.70	.30	254	20.00	1.23	Meth: 048.10 PCT			416			20.02	-.25	444			19.99	-.37		
Avg	19.51		009	19.81	.78	<u>Water Soluble Phosph</u>			444			19.99	-.37							
055	19.09	-.68	023	19.69 R	.69	<u>Grav Quimociac</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	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Free Water		
<u>ICP (Citrate)</u>			<u>Other</u>			029 20.75 1.05			488 19.95 -.61			371 2.43 1.60		
483	21.68 s	2.54	255	24.59 s	8.11	177	20.73	1.01	211	19.90	-.63	Avg	1.27	
096	21.21	1.68	451	21.28	1.96	494	20.42	1.00	258	19.91	-.63	416	1.04	-.33
023	20.51	.53	027	20.87 R	1.59	042	20.55	.94	041	19.90	-.67	007	0.89	-.54
291	20.58	.37	371	20.81	1.08	028	20.60	.79	485	19.95	-.81	493	0.75	-.73
009	20.49	.30	368	20.75	1.05	023	20.51	.76	402	19.77	-.90	Meth: 101.30 PCT		
393	20.41	.15	177	20.73	.95	291	20.58	.70	351	19.75	-.92	Acid Soluble Calcium		
Avg	20.38		042	20.55	.89	481	20.58	.69	131	19.77	-.95	<u>ICP</u>		
007	20.29	-.22	481	20.58	.65	444	20.54	.63	324	19.75	-.97	489	3.78 s	6.98
137	20.27	-.23	360	20.51	.56	494	20.23	.63	040	19.75	-1.05	096	3.34 s	4.64
389	19.29	-2.01	487	20.43	.38	360	20.51	.59	102	19.74	-1.06	483	2.79	1.69
Meth: 050.60 PCT			476	20.28	.14	009	20.49	.58	095	19.74	-1.12	009	2.61	.73
Soluble Potash			Avg	20.22		090	20.51	.56	450	19.67	-1.15	393	2.60	.67
<u>Flame (Oxalate)</u>			105	20.22	-.20	470	20.51	.56	049	19.76	-1.18	494	2.48 R	.59
470	20.51	.79	421	20.04	-.34	487	20.43	.41	325	19.55	-1.40	247	2.57	.50
406	20.35	.43	322	19.99	-.44	393	20.41	.39	055	19.49	-1.43	472	2.55	.45
105	20.32	.37	258	19.91	-.60	470	20.40	.35	200	19.44	-1.54	131	2.54	.34
Avg	20.15		402	19.77	-.86	009	20.26	.34	157	19.65 R	-1.70	421	2.52	.21
200	19.44	-1.60	131	19.77	-.90	456	20.36	.30	254	19.35	-1.71	Avg	2.48	
Meth: 050.61 PCT			450	19.67	-1.09	034	20.27	.26	472	19.75 R	-1.74	389	2.47	-.04
Soluble Potash			325	19.55	-1.33	406	20.35	.24	389	19.29	-1.84	307	2.41	-.34
<u>Flame (Citrate)</u>			307	19.22	-1.88	131	20.35	.24	307	19.22	-1.98	041	2.35	-.71
494	20.42	1.31	247	16.61 s	-6.71	007	20.29	.21	247	16.61 s	-7.08	354	2.26	-1.19
029	20.75	1.27	025	16.46 s	-6.99	105	20.32	.20	025	16.46 s	-7.38	102	2.06	-2.24
028	20.60	.91	Meth: 050.XX PCT			105	20.24	.18	Meth: 060.00 PCT			Meth: 121.00 PCT		
456	20.36	.25	Soluble Potash			105	20.24	.18	Free Water			Acid Soluble Magnesi		
131	20.35	.15	255	24.59 s	8.57	137	20.27	.15	<u>Vacuum Oven</u>			<u>AA</u>		
Avg	20.29		483	21.68 R	3.01	476	20.28	.15	416	1.04	1.13	200	6.42 s	34.72
105	20.24	-.28	230	21.50 R	2.77	136	20.29	.15	Avg	0.89		028	2.53	1.39
034	20.27	-.33	489	21.35	2.23	114	20.23	.04	007	0.89	-.05	177	2.47	.88
041	19.90	-1.09	096	21.21	2.08	Avg	20.22		493	0.75	-1.10	040	2.41	.37
095	19.74	-1.69	451	21.28	2.08	055	20.21	-.04	Meth: 060.20 PCT			Avg		
Meth: 050.61 PCT			185	21.27	2.06	105	20.22	-.21	Free Water			043		
Soluble Potash			262	21.24	2.00	421	20.04	-.36	<u>Karl Fischer</u>			029		
<u>Flame (Citrate)</u>			027	20.87 R	1.68	416	20.02	-.39	371	2.43	.71	485		
494	20.42	1.31	371	20.81	1.14	231	20.04	-.40	Meth: 060.20 PCT			481		
029	20.75	1.27	368	20.75	1.12	322	19.99	-.46	Free Water			2.17		
028	20.60	.91	Meth: 050.XX PCT			444	19.99	-.46	<u>Karl Fischer</u>			-1.74		
456	20.36	.25	Soluble Potash			354	19.94	-.54	371 2.43 .71					
131	20.35	.15	255	24.59 s	8.57									
Avg	20.29		483	21.68 R	3.01									
105	20.24	-.28	230	21.50 R	2.77									
034	20.27	-.33	489	21.35	2.23									
041	19.90	-1.09	096	21.21	2.08									
095	19.74	-1.69	451	21.28	2.08									
Meth: 050.61 PCT			185	21.27	2.06									
Soluble Potash			262	21.24	2.00									
<u>Flame (Citrate)</u>			027	20.87 R	1.68									
494	20.42	1.31	371	20.81	1.14									
029	20.75	1.27	368	20.75	1.12									
028	20.60	.91	Meth: 050.XX PCT											
456	20.36	.25	Soluble Potash											
131	20.35	.15	255	24.59 s	8.57									
Avg	20.29		483	21.68 R	3.01									
105	20.24	-.28	230	21.50 R	2.77									
034	20.27	-.33	489	21.35	2.23									
041	19.90	-1.09	096	21.21	2.08									
095	19.74	-1.69	451	21.28	2.08									
Meth: 050.61 PCT			185	21.27	2.06									
Soluble Potash			262	21.24	2.00									
<u>Flame (Citrate)</u>			027	20.87 R	1.68									
494	20.42	1.31	371	20.81	1.14									
029	20.75	1.27	368	20.75	1.12									
028	20.60	.91	Meth: 050.XX PCT											
456	20.36	.25	Soluble Potash											
131	20.35	.15	255	24.59 s	8.57									
Avg	20.29		483	21.68 R	3.01									
105	20.24	-.28	230	21.50 R	2.77									
034	20.27	-.33	489	21.35	2.23									
041	19.90	-1.09	096	21.21	2.08									
095	19.74	-1.69	451	21.28	2.08									
Meth: 050.61 PCT			185	21.27	2.06									
Soluble Potash			262	21.24	2.00									
<u>Flame (Citrate)</u>			027	20.87 R	1.68									
494	20.42	1.31	371	20.81	1.14									
029	20.75	1.27	368	20.75	1.12									
028	20.60	.91	Meth: 050.XX PCT											
456	20.36	.25	Soluble Potash											
131	20.35	.15	255	24.59 s	8.57									
Avg	20.29		483	21.68 R	3.01									
105	20.24	-.28	230	21.50 R	2.77									
034	20.27	-.33	489	21.35	2.23									
041	19.90	-1.09	096	21.21	2.08									
095	19.74	-1.69	451	21.28	2.08									
Meth: 050.61 PCT			185	21.27	2.06									
Soluble Potash			262	21.24	2.00									
<u>Flame (Citrate)</u>			027	20.87 R	1.68									
494	20.42	1.31	371	20.81	1.14									
029	20.75	1.27	368	20.75	1.12									
028	20.60	.91	Meth: 050.XX PCT											
456	20.36	.25	Soluble Potash											
131	20.35	.15	255	24.59 s	8.57									
Avg	20.29		483	21.68 R	3.01									
105	20.24	-.28	230	21.50 R	2.77									
034	20.27	-.33	489	21.35	2.23									
041	19.90	-1.09	096	21.21	2.08									
095	19.74	-1.69	451	21.28	2.08									
Meth: 050.61 PCT			185	21.27	2.06									
Soluble Potash			262	21.24	2.00									
<u>Flame (Citrate)</u>			027	20.87 R	1.68									
494	20.42	1.31	371	20.81	1.14									
029	20.75	1.27	368	20.75	1.12									
028	20.60	.91	Meth: 050.XX PCT											
456	20.36	.25	Soluble Potash											
131	20.35	.15	255	24.59 s	8.57									
Avg	20.29		483	21.68 R	3.01									
105	20.24	-.28	230	21.50 R	2.77									
034	20.27	-.33	489	21.35	2.23									
041	19.90	-1.09	096	21.21	2.08									
095	19.74	-1.69	451	21.28	2.08									
Meth: 050.61 PCT			185	21.27	2.06									
Soluble Potash			262	21.24	2.00									
<u>Flame (Citrate)</u>			027	20.87 R	1.68									
494	20.42	1.31	371	20.81	1.14									
029	20.75	1.27	368	20.75	1.12									
028	20.60	.91	Meth: 050.XX PCT											
456	20.36	.25												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.00 PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 131.30 PCT			Meth: 144.01 PCT		
Acid Soluble Magnesi			Acid Soluble Magnesi			<u>Acid Soluble Magnesi</u>			Water Soluble Magnes			Sulfur		
<u>AA</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>		
157	1.78 S	-5.12	354	2.15	-1.73	450	2.45	.44	444	3.19	1.57	481	7.13	-1.85
262	0.02 s	-20.09	102	2.00	-2.74	023	2.45	.33	230	2.53 R	.79	262	6.00 s	-7.59
			230	1.38 s	-6.86	136	2.43	.20	Avg	2.40		200	5.61 s	-9.59
						494	2.41	.17	027	2.29	-.25			
Meth: 121.30 PCT			Meth: 121.70 PCT			040			231			Meth: 144.99 PCT		
Acid Soluble Magnesi			Acid Soluble Magnesi			Avg			368			Sulfur		
<u>ICP</u>			<u>Titrimetric</u>			114						<u>Other</u>		
421	4.01 s	10.70	489	2.57	.71	291	2.39	-.09	Meth: 131.XX PCT			360	7.47 R	1.77
444	4.00 s	10.63				360	2.39	-.10	<u>Water Soluble Magnes</u>			483	7.70	1.65
255	2.74 R	2.37	Meth: 121.99 PCT			393	2.39	-.14	444	3.19	1.81	351	7.54	1.15
489	2.69	1.89	Acid Soluble Magnesi			247	2.37	-.29	230	2.53 R	.89	368	7.51	1.01
483	2.66	1.73	<u>Other</u>			307	2.36	-.36	Avg	2.30		102	7.51	1.00
472	2.62	1.42	258	2.47	1.13	389	2.34	-.40	027	2.29	-.11	027	7.49	.93
231	2.62	1.39	Avg	2.17		043	2.34	-.45	231	2.13	-.34	029	7.42	.86
117	2.54	.85	433	2.16	-.06	485	2.34	-.57	368	2.00	-.62	177	7.43	.76
009	2.50	.60	042	1.89	-1.10	029	2.31	-.59	029	1.88	-.85	371	7.39	.64
096	2.48	.59	Meth: 121.XX PCT			368	2.35	-.71	Meth: 144.01 PCT			291	7.35	.52
027	2.45	.48	<u>Acid Soluble Magnesi</u>			324	2.30	-.75	Sulfur			421	7.30	.40
371	2.48	.45	200	6.42 s	27.40	157	2.28	-.94	<u>Gravimetric</u>			009	7.22	.13
131	2.43	.43	421	4.01 s	10.97	041	2.26	-.99	230	8.22 s	4.79	389	7.20	.06
450	2.45	.39	444	4.00 s	10.90	137	2.23	-1.13	055	7.85	1.83	Avg	7.17	
055	2.45	.39	255	2.74 R	2.47	481	2.17	-1.60	485	7.69	1.08	450	7.17	-.05
023	2.45	.27	489	2.69	1.98	433	2.16	-1.65	114	7.68	.96	023	7.15	-.09
136	2.43	.15	483	2.66	1.82	354	2.15	-1.71	029	7.65	.90	247	7.02	-.47
494	2.41	.14	472	2.62	1.50	102	2.00	-2.74	095	7.65	.89	157	6.98	-.60
Avg	2.41		231	2.62	1.47	042	1.89 A	-3.52	157	7.65	.89	117	7.00	-.74
114	2.40	-.09	489	2.57	1.15	157	1.78 s	-4.29	157	7.59	.81	307	6.91	-.81
291	2.39	-.13	117	2.54	.93	230	1.38 s	-6.94	043	7.54	.31	255	6.77	-1.21
360	2.39	-.15	028	2.53	.89	262	0.02 s	-16.21	Avg	7.49		472	6.73	-1.32
393	2.39	-.18	009	2.50	.67	Meth: 131.00 PCT			102	7.45	-.18	444	6.71	-1.40
247	2.37	-.33	096	2.48	.65	Water Soluble Magnes			041	7.44	-.35	393	6.39	-2.33
307	2.36	-.40	027	2.45	.52	<u>AA</u>			324	7.42	-.37	354	5.79 s	-4.17
389	2.34	-.45	371	2.48	.52	029			105	7.42	-.42	096	3.79 s	-10.03
368	2.35	-.72	177	2.47	.48	1.88			137	7.40	-.67			
324	2.30	-.79	131	2.43	.46				489	7.35	-.74			
157	2.28	-.97	258	2.47	.45				040	7.35	-.74			
041	2.26	-1.02							444	7.20	-1.52			
137	2.23	-1.16												

\* 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: 144.XX PCT Sulfur</u>			<u>Meth: 144.XX PCT Sulfur</u>			<u>Meth: 151.XX PPM Arsenic</u>			<u>Meth: 165.99 PCT Acid Soluble Boron Other</u>			<u>Meth: 165.XX PCT Acid Soluble Boron</u>		
230	8.22 s	3.35	472	6.73	-1.78	481	11.00	-.60	040	0.329	-.24	023	0.286	-1.02
360	7.47 R	1.68	444	6.71	-1.86	096	0.89	-2.26	324	0.302	-.75	472	0.280	-1.13
055	7.85	1.66	393	6.39	-2.83	<u>Meth: 165.00 PCT Acid Soluble Boron Spectrometric</u>			258	0.289	-.99	354	0.277	-1.19
483	7.70	1.35	262	6.00 A	-4.04	489	0.395	1.67	472	0.280	-1.16	055	0.272	-1.29
485	7.69	1.19	354	5.79 s	-4.74	481	0.350	.65	354	0.277	-1.22	230	0.194	-2.83
114	7.68	1.14	200	5.61 s	-5.24	029	0.330 R	.45	230	0.194	-2.79	<u>Meth: 171.99 PCT Water Soluble Boron Other</u>		
029	7.65	1.09	096	3.79 s	-10.84	393	0.329	.20	<u>Meth: 165.XX PCT Acid Soluble Boron</u>			027	0.355	.92
095	7.65	1.08	<u>Meth: 151.00 PPM Arsenic Atomic Absorption</u>			Avg	0.321		402	0.508 s	3.34	Avg	0.345	
157	7.59	.95	136	17.50	.71	262	0.295	-.60	117	0.467	2.53	444	0.335	-.81
351	7.54	.84	<u>Meth: 151.30 PPM Arsenic ICP</u>			023	0.286	-.80	200	0.410	1.43	<u>Meth: 181.00 PPM Cadmium Atomic Absorption</u>		
043	7.54	.73	247	21.20	1.11	055	0.272	-1.11	371	0.400	1.23	136	11.40	.71
102	7.51	.65	368	20.60 R	1.06	<u>Meth: 165.99 PCT Acid Soluble Boron Other</u>			489	0.395	1.12	<u>Meth: 181.30 PPM Cadmium ICP</u>		
368	7.51	.64	450	20.10	.91	402	0.508 s	3.14	483	0.382	.86	096	15.20	1.47
029	7.42	.61	102	18.34	.66	117	0.467	2.36	360	0.375	.73	247	12.70	.57
027	7.49	.57	009	16.60	.36	200	0.410	1.30	231	0.370	.63	450	12.41	.47
102	7.45	.45	393	14.69	.07	371	0.400	1.12	291	0.365	.54	368	11.95	.40
137	7.40	.42	Avg	14.28		483	0.382	.76	042	0.355 R	.38	009	12.15	.38
041	7.44	.42	230	11.40	-.45	360	0.375	.64	Avg	0.338		102	11.96	.30
177	7.43	.40	481	11.00	-.51	231	0.370	.54	255	0.336	-.05	Avg	11.14	
105	7.42	.38	096	0.89	-2.10	291	0.365	.45	389	0.335	-.11	393	10.67	-.18
324	7.42	.34	<u>Meth: 151.XX PPM Arsenic</u>			042	0.355 R	.38	444	0.335	-.11	230	6.81	-1.57
371	7.39	.27	247	21.20	1.11	136	0.355	.27	042	0.355	.35	481	6.45	-1.70
040	7.35	.20	368	20.60 R	1.05	307	0.348	.12	481	0.350	.24	<u>Meth: 181.XX PPM Cadmium</u>		
489	7.35	.20	450	20.10	.90	433	0.342	.01	307	0.348	.20	096	15.20	1.54
291	7.35	.15	102	18.34	.63	Avg	0.341		043	0.340	.11	247	12.70	.60
Avg	7.31		136	17.50	.48	043	0.340	-.10	043	0.340	.11	450	12.41	.49
421	7.30	-.16	009	16.60	.32	255	0.336	-.12	433	0.342	.08	009	12.15	.38
009	7.22	-.27	393	14.69	.03	444	0.335	-.15	Avg	0.338		102	11.96	.30
389	7.20	-.34	Avg	14.63		421	0.335	-.15	255	0.336	-.05	Avg	11.14	
444	7.20	-.41	230	11.40	-.53	389	0.335	-.15	389	0.335	-.11	393	10.67	-.18
450	7.17	-.44	<u>Meth: 151.XX PPM Arsenic</u>			009	0.335	-.17	444	0.335	-.11	230	6.81	-1.57
023	7.15	-.49	247	21.20	1.11	<u>Meth: 165.99 PCT Acid Soluble Boron Other</u>			421	0.335	-.11	481	6.45	-1.70
481	7.13	-.57	368	20.60 R	1.05	402	0.508 s	3.14	009	0.335	-.13	<u>Meth: 181.XX PPM Cadmium</u>		
247	7.02	-.90	450	20.10	.90	117	0.467	2.36	040	0.329	-.18	096	15.20	1.54
157	6.98	-1.02	102	18.34	.63	200	0.410	1.30	393	0.329	-.20	247	12.70	.60
117	7.00	-1.09	136	17.50	.48	433	0.342	.01	029	0.330 R	-.39	450	12.41	.49
307	6.91	-1.24	009	16.60	.32	Avg	0.341		324	0.302	-.71	368	11.95	.41
255	6.77	-1.66	393	14.69	.03	043	0.340	-.10	262	0.295	-.85			
			Avg	14.63		255	0.336	-.12	258	0.289	-.96			
			230	11.40	-.53	444	0.335	-.15						
			009	0.89	-2.10	421	0.335	-.15						
			<u>Meth: 151.XX PPM Arsenic</u>			389	0.335	-.15						
			247	21.20	1.11	009	0.335	-.17						
			368	20.60 R	1.05									
			450	20.10	.90									
			102	18.34	.63									
			136	17.50	.48									
			009	16.60	.32									
			393	14.69	.03									
			Avg	14.63										
			230	11.40	-.53									

\* 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: 181.XX PPM</u>			<u>Meth: 202.00 PPM</u>			<u>Meth: 221.00 PCT</u>			<u>Meth: 221.XX PCT</u>			<u>Meth: 241.30 PCT</u>		
<u>Cadmium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>		
009	12.15	.39	AA			Atomic Absorption			402	0.0190	.02	ICP		
102	11.96	.31	136	3.55	.71	Avg	0.0186		255	0.0190	.02	291	0.59	.34
136	11.40	.14				043	0.0185	-.62	009	0.0190	.02	231	0.59	.34
Avg	11.17		<u>Meth: 202.30 PPM</u>			<u>Meth: 221.30 PCT</u>			Avg	0.0190		131	0.58	.17
393	10.67	-.20	<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			481	0.0187	-.32	096	0.58	.17
230	6.81	-1.67	<u>ICP</u>			<u>ICP</u>			043	0.0185	-.46	Avg	0.57	
481	6.45	-1.81	368	3.05 R	1.70	324	0.0290 s	8.83	494	0.0185	-.48	023	0.57	-.19
			009	2.90	1.34	102	0.0212	1.93	131	0.0182	-.78	402	0.56	-.29
<u>Meth: 191.00 PPM</u>			494	2.41	.52	102	0.0205	1.37	433	0.0180	-.91	117	0.56	-.30
<u>Chromium</u>			096	2.46	.47	354	0.0200 R	1.23	041	0.0180	-.92	444	0.56	-.37
<u>Atomic Absorption</u>			102	2.28	.12	483	0.0200	.81	389	0.0170	-1.86	247	0.56	-.37
481	124.40 S	.00	Avg	2.22		368	0.0197	.57	230	0.0118 s	-6.81	368	0.56	-.38
			393	1.92	-.60	393	0.0194	.42	444	0.0013 s	-16.67	157	0.56	-.41
<u>Meth: 191.30 PPM</u>			230	1.37	-1.69	<u>Meth: 202.99 PPM</u>			<u>Meth: 241.00 PCT</u>			472	0.57	-.49
<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Iron</u>			<u>Atomic Absorption</u>			389	0.56	-.52
<u>ICP</u>			<u>Other</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			255	0.53	-1.31
096	73.05	.99	255	2.51	.71	255	0.0190	-.03	262	0.67	1.80	137	0.52	-1.40
009	72.75	.95				494	0.0185	-.49	029	0.61	.40	354	0.52	-1.43
393	71.57	.47	<u>Meth: 202.XX PPM</u>			131	0.0182	-.78	485	0.62	.30	433	0.52	-1.47
Avg	70.48		<u>Acid Soluble Cobalt</u>			472	0.0190 R	-.89	Avg	0.60		393	0.51	-1.67
368	70.30	-.89	136	3.55	1.80	433	0.0180	-.90	177	0.59	-.49	027	0.40 s	-4.72
102	67.72	-1.13	368	3.05 R	1.08	041	0.0180	-.91	028	0.58	-.64	230	0.32 s	-6.76
450	67.50	-1.16	009	2.90	.76	389	0.0170	-1.80	043	0.56	-1.16	<u>Meth: 241.99 PCT</u>		
230	40.85 S	-11.40	255	2.51	.19	230	0.0118 s	-6.45	<u>Acid Soluble Iron</u>			<u>Other</u>		
			444	0.0013 s	-15.71	444	0.0013 s	-15.71	<u>Acid Soluble Iron</u>			421	0.60	1.09
<u>Meth: 191.XX PPM</u>			096	2.46	.06	<u>Meth: 221.XX PCT</u>			<u>Acid Soluble Iron</u>			258	0.55	.54
<u>Chromium</u>			Avg	2.42		<u>Acid Soluble Copper</u>			<u>ICP</u>			Avg	0.52	
481	124.40 s	20.82	102	2.28	-.23	262	0.0300 s	10.38	324	0.85 s	10.14	481	0.51	-.21
096	73.05	.99	494	2.41	-.29	324	0.0290 s	9.45	041	0.65	2.07	042	0.42	-1.40
009	72.75	.95	393	1.92	-.81	247	0.0212	2.10	483	0.65	2.03			
393	71.57	.47	230	1.37	-1.69	102	0.0205	1.51	102	0.62	1.32	<u>Meth: 241.XX PCT</u>		
Avg	70.48		<u>Meth: 221.00 PCT</u>			354	0.0200 R	1.35	055	0.60 R	1.29	<u>Acid Soluble Iron</u>		
368	70.30	-.89	<u>Acid Soluble Copper</u>			472	0.0190 R	.94	009	0.61	1.04	324	0.85 s	9.48
102	67.72	-1.13	<u>Atomic Absorption</u>			483	0.0200	.92	136	0.61	.86	262	0.67	2.37
450	67.50	-1.16	262	0.0300 S	45.75	368	0.0197	.65	494	0.60	.78	041	0.65	1.87
230	40.85 s	-11.40	481	0.0187	1.06	393	0.0194	.48	371	0.60	.71	483	0.65	1.82

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.XX PCT			Meth: 251.00 PPM			Meth: 261.00 PCT			Meth: 261.30 PCT			Meth: 261.XX PCT		
<u>Acid Soluble Iron</u>			<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>		
055	0.60 R	1.17	<u>Atomic Absorption</u>			<u>AA</u>			<u>ICP</u>			055	0.021	.31
102	0.62	1.16	136	56.85	.71	043	0.021	-.33	027	0.016 s	-3.90	157	0.021	.31
485	0.62	.98	Meth: 251.30 PPM			Meth: 261.11 PCT			Meth: 261.31 PCT			Avg	0.020	
009	0.61	.89	<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			421	0.020	-.08
029	0.61	.87	<u>ICP</u>			<u>AA</u>			<u>ICP</u>			444	0.020	-.08
136	0.61	.72	009	70.10	1.28	040	0.020	.71	230	0.012 S	.00	042	0.020	-.08
494	0.60	.65	247	66.15	.94	Meth: 261.30 PCT			Meth: 261.99 PCT			231	0.020	-.08
371	0.60	.58	102	61.64	.59	<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			041	0.020	-.08
421	0.60	.47	368	60.05	.49	<u>ICP</u>			<u>Other</u>			262	0.020	-.08
028	0.58	.35	450	57.55	.29	136	0.030 s	7.41	255	0.021	.79	433	0.020	-.27
360	0.59	.28	393	55.50	.10	291	0.030 s	7.41	042	0.020	.49	131	0.020	-.41
177	0.59	.25	Avg	54.33		450	0.025 s	5.24	Avg	0.018		117	0.020	-.41
291	0.59	.24	096	48.90	-.43	096	0.023 R	2.26	483	0.017 R	-.41	368	0.020	-.45
231	0.59	.24	230	37.10	-1.38	360	0.022	1.43	258	0.014	-1.28	494	0.019	-.49
096	0.58	.08	481	32.00	-1.78	009	0.022	1.43	393	0.005 S	-4.02	040	0.020	-.51
Avg	0.58		Meth: 251.XX PPM			023	0.022	1.12	Meth: 261.XX PCT			472	0.019	-.76
131	0.58	-.15	<u>Lead</u>			402	0.021	1.01	<u>Acid Soluble Manganese</u>			354	0.018	-1.08
023	0.57	-.27	009	70.10	1.33	102	0.021	.69	136	0.030 s	4.93	324	0.019 R	-1.33
402	0.56	-.35	247	66.15	.98	389	0.021	.69	291	0.030 s	4.93	483	0.017	-1.56
117	0.56	-.37	102	61.64	.60	368	0.020	.67	450	0.025 s	3.49	137	0.017	-1.58
043	0.56	-.41	368	60.05	.50	055	0.021	.49	485	0.025	2.25	027	0.016 s	-2.64
247	0.56	-.43	450	57.55	.28	157	0.021	.49	028	0.023	1.70	258	0.014	-3.08
444	0.56	-.43	136	56.85	.19	Avg	0.020		096	0.023 R	1.49	230	0.012 s	-3.88
368	0.56	-.44	393	55.50	.09	444	0.020	-.06	029	0.021 R	1.31	393	0.005 s	-7.72
157	0.56	-.45	Avg	54.58		231	0.020	-.06	009	0.022	.93	Meth: 271.30 PCT		
472	0.57	-.47	096	48.90	-.48	041	0.020	-.06	360	0.022	.93	Water Soluble Mangan		
389	0.56	-.57	230	37.10	-1.48	433	0.020	-.35	481	0.022	.72	<u>ICP</u>		
258	0.55	-.68	481	32.00	-1.90	117	0.020	-.57	023	0.022	.72	368	0.006	.12
255	0.53	-1.32	Meth: 261.00 PCT			131	0.020	-.58	023	0.022	.72	Avg	0.006	
137	0.52	-1.41	<u>Acid Soluble Manganese</u>			494	0.019	-.69	402	0.021	.66	230	0.006	-1.22
354	0.52	-1.43	<u>AA</u>			472	0.019	-1.10	043	0.021	.63	Meth: 281.00 PPM		
433	0.52	-1.47	485	0.025	1.36	354	0.018	-1.56	255	0.021	.43	Mercury		
393	0.51	-1.65	028	0.023	.87	324	0.019 R	-1.97	389	0.021	.43	<u>Atomic Absorption</u>		
481	0.51	-1.83	Avg	0.022		137	0.017	-2.30	102	0.021	.43	230	0.07	.71
042	0.42 A	-3.98	481	0.022	-.17									
027	0.40 s	-4.53												
230	0.32 s	-6.45												

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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: 281.30 PPM</u>			<u>Meth: 291.30 PPM</u>			<u>Meth: 311.99 PCT</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.XX PCT</u>		
<u>Mercury</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>Other</u>			<u>ICP</u>			136	0.355	1.19
393	0.36	.87	009	17.25	.92	354	0.70	1.10	009	0.332	.21	494	0.341	1.12
Avg	0.21		Avg	15.97		102	0.61	.23	368	0.329	.08	040	0.348	.93
450	0.05	-.87	096	15.60	-.25	009	0.61	.20	Avg	0.327		117	0.348	.89
<u>Meth: 281.XX PPM</u>			<u>Meth: 291.XX PPM</u>			<u>Meth: 321.00 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.XX PCT</u>		
<u>Mercury</u>			<u>Nickel</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			136	0.355	1.19
393	0.36	1.29	230	9.47 s	-4.49	262	0.360	1.62	009	0.326	-.06	494	0.341	1.12
Avg	0.16		<u>Meth: 291.XX PPM</u>			040	0.348	1.01	368	0.326	-.28	040	0.348	.93
230	0.07	-.58	<u>Nickel</u>			485	0.326	-.84	402	0.326	-.30	117	0.348	.89
450	0.05	-.71	481	39.81 s	10.17	028	0.331	-.31	421	0.320	-.30	042	0.345	.75
<u>Meth: 289.30 PPM</u>			481	39.81 s	10.17	043	0.331	-.65	247	0.315	-.55	371	0.335	.73
<u>Molybdenum</u>			481	39.81 s	10.17	481	0.330	-.74	389	0.315	-.56	177	0.343	.61
<u>ICP</u>			481	39.81 s	10.17	481	0.330	-.74	255	0.313	-.65	489	0.340	.48
494	9.52 R	2.55	481	39.81 s	10.17	481	0.330	-.74	041	0.310	-.73	360	0.338	.48
247	8.30	.92	481	39.81 s	10.17	481	0.330	-.74	131	0.310	-.73	481	0.330	.46
368	8.25	.88	481	39.81 s	10.17	481	0.330	-.74	157	0.310	-.73	200	0.330	.46
393	7.85	.55	481	39.81 s	10.17	481	0.330	-.74	472	0.306	-.95	043	0.331	.42
096	7.65	.42	481	39.81 s	10.17	481	0.330	-.74	324	0.305	-1.05	231	0.335	.34
009	7.50	.33	481	39.81 s	10.17	481	0.330	-.74	433	0.298	-1.23	023	0.334	.21
433	7.42	.28	481	39.81 s	10.17	481	0.330	-.74	444	0.295	-1.38	009	0.332	.12
Avg	6.99		481	39.81 s	10.17	481	0.330	-.74	354	0.288	-1.66	028	0.331	.05
230	4.56	-1.56	481	39.81 s	10.17	481	0.330	-.74	027	0.279 R	-2.51	Avg	0.330	
255	4.38	-1.67	481	39.81 s	10.17	481	0.330	-.74	230	0.173 s	-6.59	368	0.329	-.03
<u>Meth: 291.00 PPM</u>			<u>Meth: 301.30 PPM</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
481	39.81 S	50.78	393	1.40	.71	096	1.210 s	37.62	258	0.492 S	22.31	255	0.313	-.81
136	15.95	.71	393	1.40	.71	055	0.400 s	4.31	042	0.345	.71	041	0.310	-.90
Avg	15.95		393	1.40	.71	450	0.395 R	3.08	Avg	0.345		131	0.310	-.90
<u>Meth: 291.30 PPM</u>			<u>Meth: 301.99 PPM</u>			<u>Meth: 321.00 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
368	18.00 R	1.92	255	3.56	.71	291	0.370	1.88	096	1.210 s	40.44	157	0.310	-1.01
247	18.05	1.49	255	3.56	.71	102	0.363	1.53	258	0.492 s	7.91	472	0.306	-1.13
<u>Meth: 291.30 PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.00 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
368	18.00 R	1.92	255	3.56	.87	494	0.341	1.09	055	0.400 s	4.56	324	0.305	-1.24
247	18.05	1.49	255	3.56	.87	117	0.348	.93	444	0.295	-1.60	433	0.298	-1.44
<u>Meth: 291.30 PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.00 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
368	18.00 R	1.92	255	3.56	.87	371	0.335	.72	450	0.395 R	3.22	354	0.288	-1.91
247	18.05	1.49	255	3.56	.87	489	0.340	.55	483	0.377	2.18	027	0.279 R	-2.80
<u>Meth: 291.30 PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.00 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
368	18.00 R	1.92	255	3.56	.87	360	0.338	.53	291	0.370	1.91	230	0.173 s	-7.22
247	18.05	1.49	255	3.56	.87	231	0.335	.40	102	0.363	1.53			
<u>Meth: 291.30 PPM</u>			<u>Meth: 301.XX PPM</u>			<u>Meth: 321.00 PCT</u>			<u>Meth: 321.99 PCT</u>			<u>Meth: 321.99 PCT</u>		
<u>Nickel</u>			<u>Selenium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>		
368	18.00 R	1.92	255	3.56	.87	023	0.334	.29	262	0.360	1.40			
247	18.05	1.49	255	3.56	.87									

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 325.30 PCT											
Water Soluble Zinc											
<u>ICP</u>											
393	0.295	.71									
Meth: 325.99 PCT											
Water Soluble Zinc											
<u>Other</u>											
450	0.395 X	-.71									
Meth: 325.XX PCT											
<u>Water Soluble Zinc</u>											
450	0.395 X	.91									
Avg	0.345										
393	0.295	-.82									

\* 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	4	0.00	1.07	0.11	101.30	15	0.78	2.27	0.23
001.99	3	0.00	1.03	0.36	101.XX	15	0.78	2.27	0.23
001.XX	7	0.00	0.99	0.31	121.00	10	0.95	13.46	0.51
009.10	2	0.00	1.18	0.22	121.30	33	0.51	3.05	0.27
009.XX	3	0.00	0.73	0.69	121.99	3	0.00	1.11	0.10
010.11	9	0.00	1.02	0.16	121.XX	45	0.48	5.53	0.40
010.12	3	0.00	1.11	0.09	131.30	5	0.05	0.94	0.34
010.60	50	- 0.10	1.19	0.62	131.XX	6	0.08	0.97	0.31
010.99	3	0.00	1.08	0.22	144.01	19	- 0.71	3.05	0.75
010.XX	63	- 0.06	1.11	0.47	144.99	25	- 0.53	2.34	0.41
020.10	10	- 0.30	1.35	0.29	144.XX	40	- 0.54	2.32	0.49
020.20	10	0.18	1.08	0.45	151.30	9	0.11	1.02	0.16
020.40	6	- 0.55	1.60	0.72	151.XX	10	0.10	1.01	0.17
020.50	15	0.07	1.30	0.29	165.00	7	0.029	0.957	0.174
020.99	2	0.00	1.12	0.35	165.99	25	0.136	1.150	0.103
020.XX	38	- 0.02	1.42	0.37	165.XX	32	0.099	1.136	0.118
030.XX	4	0.00	1.08	0.06	171.99	2	0.000	1.019	0.481
040.40	2	0.00	1.17	0.26	171.XX	2	0.000	1.019	0.481
040.50	2	0.00	0.82	0.64	181.30	9	0.00	1.02	0.11
040.XX	5	- 0.47	1.42	0.86	181.XX	10	0.00	1.02	0.12
041.10	10	0.00	0.97	0.31	191.30	7	- 1.63	4.39	0.42
041.40	4	- 5.52	23.66	9.39	191.XX	8	1.17	8.89	0.76
041.50	11	- 0.69	2.16	0.33	202.30	7	0.23	1.13	0.23
041.60	11	- 0.22	2.22	1.05	202.XX	9	0.11	1.02	0.17
041.99	2	- 27.58	39.00	1.74	221.00	3	15.251	26.419	0.5927
041.XX	33	- 1.06	3.76	0.92	221.30	18	- 0.694	4.6677	0.3522
048.50	2	0.00	1.22	0.11	221.XX	21	- 0.127	5.1748	0.3509
048.XX	4	0.10	1.12	0.26	241.00	6	0.00	1.01	0.25
050.00	14	0.61	1.73	0.79	241.30	30	- 0.11	2.25	1.31
050.30	5	- 0.26	1.10	0.17	241.99	4	0.00	1.07	0.11
050.31	2	0.00	0.43	0.81	241.XX	40	- 0.19	2.00	1.07
050.50	7	- 0.12	0.97	0.76	251.30	9	0.00	1.02	0.12
050.51	9	0.26	1.21	0.42	251.XX	10	0.00	1.02	0.12
050.60	4	0.00	1.07	0.10	261.00	6	0.000	0.825	0.591
050.61	9	0.00	0.85	0.56	261.30	25	0.645	2.458	0.996
050.99	22	- 0.20	2.90	0.32	261.31	2	0.000	0.000	0.000
050.XX	64	- 0.02	1.99	0.46	261.99	5	- 0.877	1.933	0.079
060.00	3	0.00	1.12	0.03	261.XX	39	- 0.018	2.077	0.592
060.XX	4	0.00	1.08	0.01	271.30	2	0.000	0.143	0.860

## 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
271.XX	2	0.000	0.143	0.860					
281.30	2	0.00	1.22	0.06					
281.XX	3	0.00	1.12	0.05					
289.30	9	0.18	1.09	0.68					
289.XX	9	0.18	1.09	0.68					
291.00	2	24.10	34.09	11.31					
291.30	8	- 0.39	1.93	0.51					
291.XX	10	1.08	3.17	1.02					
301.XX	2	0.00	1.22	0.02					
311.99	4	0.00	1.08	0.08					
311.XX	4	0.00	1.08	0.08					
321.00	9	0.000	0.814	0.596					
321.30	32	1.092	6.877	0.693					
321.99	2	10.359	14.650	5.871					
321.XX	43	1.036	6.460	0.788					