

- Pass 1 Results for 82 Labs - - Pass 2 Results for 82 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	5	6.40	0.19	0.10	4	6.46	0.14	0.03
Ammoniacal Nitrogen, Other		001.99	7	6.38	0.37	0.06	7	6.38	0.37	0.06
Method Group 001.XX PCT			12	6.39	0.30	0.08	11	6.41	0.31	0.05
Nitrate Nitrogen, Other		002.99	2	0.57	0.61	0.01	2	0.57	0.61	0.01
Water Insoluble Nitrogen, Meth I	945.01	003.10	2	3.87	0.12	0.10	2	3.87	0.12	0.10
Water Insoluble Nitrogen, Other		003.99	2	4.10	0.35	0.07	2	4.10	0.35	0.07
Method Group 003.XX PCT			4	3.99	0.27	0.09	4	3.99	0.27	0.09
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	11.66	1.70	0.28	2	11.66	1.70	0.28
Nitrogen From Urea, Other		005.99	4	11.92	4.76	0.26	4	11.92	4.76	0.26
Method Group 005.XX PCT			6	11.83	3.90	0.27	6	11.83	3.90	0.27
Total Nitrogen, Modified Comprehensive	978.02	010.11	7	27.10	0.34	0.14	7	27.10	0.34	0.14
Total Nitrogen, Salicylic	955.04D	010.12	4	27.26	0.35	0.29	3	27.20	0.22	0.05
Total Nitrogen, Combustion		010.60	54	27.14	0.26	0.17	52	27.14	0.25	0.15
Total Nitrogen, Other		010.99	6	27.28	0.40	0.06	5	27.38	0.37	0.03
Method Group 010.XX PCT			71	27.15	0.29	0.16	68	27.15	0.28	0.14
Total Phosphate, Grav Quimociac	962.02	020.10	5	3.02	0.05	0.04	5	3.02	0.05	0.04
Total Phosphate, Spectrometric	958.01	020.20	16	3.06	0.15	0.07	15	3.07	0.15	0.05
Total Phosphate, Automated	978.01	020.40	7	3.09	0.17	0.10	6	3.08	0.16	0.04
Total Phosphate, ICP		020.50	15	3.05	0.22	0.14	15	3.05	0.22	0.14
Total Phosphate, Other		020.99	4	3.03	0.22	0.15	4	3.03	0.22	0.15
Method Group 020.XX PCT			47	3.05	0.18	0.10	42	3.05	0.15	0.06
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.23	0.02	0.03	1	0.23	0.02	0.03
Insoluble Phosphate, ICP		030.50	2	0.02	0.01	0.00	2	0.02	0.01	0.00
Method Group 030.XX PCT			4	0.07	0.10	0.01	4	0.07	0.10	0.01
InDir Available Phosphate, Grav Quim .	960.02	040.10	1	3.06	0.04	0.06	1	3.06	0.04	0.06
InDir Available Phosphate, Spectrometri	960.02	040.20	1	2.96	0.16	0.22	1	2.96	0.16	0.22
InDir Available Phosphate, Automated	960.02	040.40	1	3.05	0.01	0.01	1	3.05	0.01	0.01
InDir Available Phosphate, ICP		040.50	1	2.99	0.14	0.20	1	2.99	0.14	0.20
InDir Available Phosphate, Other		040.99	1	3.02	0.16	0.23	1	3.02	0.16	0.23
Method Group 040.XX PCT			5	3.01	0.10	0.14	5	3.01	0.10	0.14
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	11	3.00	0.07	0.08	10	2.99	0.05	0.06
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	3.18	0.03	0.04	1	3.18	0.03	0.04
Dir Available Phosphate, Automated	978.01	041.40	3	3.01	0.14	0.15	3	3.01	0.14	0.15
Dir Available Phosphate, ICP		041.50	11	2.97	0.15	0.04	11	2.97	0.15	0.04
Dir Available Phosphate, EDTA Extract	993.01	041.60	8	3.05	0.13	0.09	7	3.05	0.13	0.06
Dir Available Phosphate, Other		041.99	1	3.02	0.02	0.03	1	3.02	0.02	0.03
Method Group 041.XX PCT			36	3.01	0.13	0.08	33	3.01	0.12	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	2.49	0.11	0.07	3	2.49	0.11	0.07

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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
Water Soluble Phosphate, ICP		048.50	1	2.26	0.01	0.02	1	2.26	0.01	0.02
Method Group 048.XX PCT			4	2.43	0.14	0.06	4	2.43	0.14	0.06
Soluble Potash, STPB Oxalate	958.02	050.00	11	8.40	0.31	0.09	11	8.40	0.31	0.09
Soluble Potash, STPB Citrate	969.04	050.10	1	7.98	0.05	0.07	1	7.98	0.05	0.07
Soluble Potash, AA (Oxalate)		050.30	6	8.20	0.38	0.13	6	8.20	0.38	0.13
Soluble Potash, AA (Citrate)		050.31	1	7.93	0.04	0.05	1	7.93	0.04	0.05
Soluble Potash, ICP (Oxalate)		050.50	10	8.31	0.27	0.22	10	8.31	0.27	0.22
Soluble Potash, ICP (Citrate)		050.51	12	8.47	0.21	0.13	12	8.47	0.21	0.13
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	8.40	0.29	0.09	4	8.40	0.29	0.09
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	9	8.34	0.21	0.05	9	8.34	0.21	0.05
Soluble Potash, Other		050.99	15	8.45	0.45	0.10	14	8.41	0.43	0.07
Method Group 050.XX PCT			69	8.37	0.33	0.12	63	8.35	0.29	0.09
Free Water, Vacuum Oven	965.08B	060.00	5	1.58	0.12	0.04	5	1.58	0.12	0.04
Acid Soluble Calcium, ICP		101.30	14	0.20	0.06	0.02	12	0.19	0.03	0.01
Acid Soluble Magnesium, AA	984.01	121.00	1	0.33	0.01	0.01	1	0.33	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	14	0.14	0.02	0.01	13	0.14	0.02	0.01
Method Group 121.XX PCT			16	0.16	0.06	0.01	15	0.16	0.06	0.01
Sulfur, Gravimetric	980.02a	144.01	10	6.48	0.25	0.09	9	6.53	0.20	0.07
Sulfur, Gravimetric	980.02b	144.02	1	5.57	0.01	0.01	1	5.57	0.01	0.01
Sulfur, Spectrometric		144.70	1	6.61	0.19	0.27	1	6.61	0.19	0.27
Sulfur, Other		144.99	29	6.39	0.39	0.15	27	6.38	0.39	0.12
Method Group 144.XX PCT			42	6.42	0.40	0.14	38	6.39	0.38	0.11
Arsenic, ICP		151.30	6	5.49	2.47	0.66	5	5.03	2.34	0.14
Arsenic, Other		151.99	1	3.56	0.06	0.08	1	3.56	0.06	0.08
Method Group 151.XX PPM			7	5.21	2.38	0.58	6	4.79	2.20	0.13
Acid Soluble Boron, Other		165.99	6	0.004	0.001	0.000	6	0.004	0.001	0.000
Cadmium, Atomic Absorption		181.00	1	1.64	0.18	0.25	1	1.64	0.18	0.25
Cadmium, ICP		181.30	9	1.61	0.88	0.10	8	1.66	0.92	0.06
Cadmium, Other		181.99	1	1.75	0.22	0.31	1	1.75	0.22	0.31
Method Group 181.XX PPM			11	1.63	0.80	0.13	11	1.63	0.80	0.13
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	6.26	0.21	0.29	1	6.26	0.21	0.29
Water Soluble Chlorine, Other		190.99	1	6.49	0.17	0.24	1	6.49	0.17	0.24
Method Group 190.XX PCT			2	6.37	0.20	0.27	2	6.37	0.20	0.27
Chromium, Atomic Absorption		191.00	1	55.00	7.07	10.00	1	55.00	7.07	10.00
Chromium, ICP		191.30	12	42.38	12.16	1.67	12	42.38	12.16	1.67
Chromium, Other		191.99	1	17.69	0.80	1.13	1	17.69	0.80	1.13
Method Group 191.XX PPM			14	41.52	13.56	2.22	13	40.48	13.45	1.63
Acid Soluble Cobalt, AA		202.00	1	5.00	0.00	0.00	1	5.00	0.00	0.00
Acid Soluble Cobalt, ICP	965.11	202.30	14	14.18	6.45	0.91	14	14.18	6.45	0.91

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Acid Soluble Cobalt, Other		202.99	1	4.95	0.23	0.32	1	4.95	0.23	0.32
Method Group 202.XX PPM			16	13.03	6.77	0.82	15	12.51	6.66	0.68
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0510	0.0027	0.0029	4	0.0510	0.0027	0.0029
Acid Soluble Copper, ICP		221.30	18	0.0488	0.0025	0.0011	16	0.0487	0.0026	0.0007
Acid Soluble Copper, Other		221.99	1	0.0503	0.0018	0.0025	1	0.0503	0.0018	0.0025
Method Group 221.XX PCT			23	0.0493	0.0026	0.0015	22	0.0491	0.0024	0.0011
Acid Soluble Iron, Atomic Absorption	980.01	241.00	7	2.61	0.50	0.09	7	2.61	0.50	0.09
Acid Soluble Iron, ICP		241.30	31	2.65	0.37	0.09	31	2.65	0.37	0.09
Acid Soluble Iron, Other		241.99	4	2.67	0.72	0.11	4	2.67	0.72	0.11
Method Group 241.XX PCT			43	2.60	0.51	0.09	42	2.64	0.43	0.09
Lead, ICP		251.30	11	16.31	1.84	1.07	11	16.31	1.84	1.07
Lead, Other		251.99	1	12.75	0.72	1.02	1	12.75	0.72	1.02
Method Group 251.XX PPM			12	16.02	2.03	1.07	12	16.02	2.03	1.07
Acid Soluble Manganese, ICP	972.02a	261.30	12	0.034	0.003	0.002	11	0.034	0.003	0.002
Acid Soluble Manganese, Other		261.99	1	0.027	0.001	0.002	1	0.027	0.001	0.002
Method Group 261.XX PCT			13	0.033	0.004	0.002	12	0.033	0.003	0.002
Mercury, ICP		281.30	2	0.48	0.47	0.07	2	0.48	0.47	0.07
Molybdenum, ICP		289.30	12	8.23	1.31	0.59	12	8.23	1.31	0.59
Molybdenum, Other		289.99	1	5.30	0.26	0.37	1	5.30	0.26	0.37
Method Group 289.XX PPM			14	7.63	2.00	0.56	14	7.63	2.00	0.56
Nickel, ICP		291.30	13	18.24	5.90	0.92	13	18.24	5.90	0.92
Nickel, Other		291.99	1	8.43	0.19	0.26	1	8.43	0.19	0.26
Method Group 291.XX PPM			14	17.54	6.24	0.87	13	16.70	5.61	0.71
Selenium, ICP		301.30	2	0.27	0.31	0.00	2	0.27	0.31	0.00
Sodium, Flame Photometric	974.01	311.30	1	0.07	0.00	0.00	1	0.07	0.00	0.00
Sodium, Other		311.99	6	0.10	0.06	0.01	5	0.11	0.07	0.00
Method Group 311.XX PCT			7	0.10	0.06	0.01	6	0.10	0.06	0.00
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	0.166	0.003	0.004	1	0.166	0.003	0.004
Acid Soluble Zinc, ICP		321.30	18	0.178	0.015	0.008	17	0.179	0.015	0.006
Acid Soluble Zinc, Other		321.99	3	0.155	0.015	0.007	3	0.155	0.015	0.007
Method Group 321.XX PCT			22	0.174	0.016	0.007	21	0.175	0.016	0.006
Water Soluble Zinc, ICP		325.30	1	0.150	0.000	0.000	1	0.150	0.000	0.000
Water Soluble Zinc, Other		325.99	1	0.180	0.014	0.020	1	0.180	0.014	0.020
Method Group 325.XX PCT			2	0.165	0.019	0.010	2	0.165	0.019	0.010

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																	
MgO Distillation																	
231	6.57	.78													402	27.08	-.30
090	6.55	.68													233	27.06	-.34
456	6.47	.23													234	27.08	-.34
Avg	6.46														405	27.01	-.56
177	6.24	-1.54													095	27.01	-.56
232	6.18 R	-2.32													022	27.00	-.56
Meth: 001.99 PCT																	
Ammoniacal Nitrogen																	
Meth I																	
090	3.96	.65													426	27.07	-.59
Avg	3.87														035	26.99	-.61
029	3.79	-1.04													102	27.03	-.62
Meth: 003.99 PCT																	
Water Insoluble Nitr																	
090	4.40	.86													232	26.98	-.76
Avg	4.10														406	26.96	-.76
027	3.80	-.87													368	26.96	-.94
420	6.10	-.79													390	26.92	-.95
368	5.81	-1.55													040	27.05	-1.06
Meth: 001.XX PCT																	
Ammoniacal Nitrogen																	
117	27.30 s	56.32													291	26.86	-1.12
481	6.95	1.51													057	27.04 R	-1.28
397	6.63	.68													037	26.92	-1.30
475	6.61	.60													007	27.00 R	-1.32
096	6.44	.17													371	26.85	-1.37
Avg	6.38														483	26.80	-1.52
027	6.17	-.59													443	26.75	-1.57
420	6.10	-.79													041	26.70	-1.79
368	5.81	-1.55													157	26.70	-1.80
Meth: 002.99 PCT																	
Nitrate Nitrogen																	
Other																	
481	1.10	.87													451	26.70	-1.93
Avg	0.57														042	26.37 s	-3.79
232	0.05	-.87													475	25.52 s	-6.55
Avg	5.34	-1.38													Meth: 010.99 PCT		
Meth: 003.10 PCT																	
Water Insoluble Nitr																	
Meth I																	
090	3.96	.65													Total Nitrogen		
Avg	3.87														Salicylic		
029	3.79	-1.04													484	20.99 S	-27.94
Meth: 005.99 PCT																	
Nitrogen From Urea																	
Other																	
029	12.39	.10													Meth: 010.60 PCT		
Avg	11.92														Total Nitrogen		
475	5.34	-1.38													Salicylic		
Meth: 005.XX PCT																	
Nitrogen From Urea																	
Other																	
481	17.90	1.55													Meth: 010.12 PCT		
368	13.12	.33													Total Nitrogen		
029	12.39	.14													Salicylic		
027	12.07	.08													351	30.02 s	11.44
Avg	11.83														330	27.65	2.25
232	10.20	-.42													360	27.71	2.24
475	5.34	-1.67													023	27.55	1.63
Meth: 010.11 PCT																	
Total Nitrogen																	
Modified Comprehensive																	
211	27.68	1.71													354	27.54	1.56
470	27.33	.67													422	27.51	1.49
456	27.22	.36													389	27.45	1.24
Avg	27.10														043	27.37	.88
090	26.95	-.47													324	27.35	.85
114	27.01	-.71													325	27.20	.83
474	26.79	-.97													177	27.31	.71
105	26.71	-1.16													131	27.26	.70
260	25.56 s	-4.52													055	27.30	.67
Meth: 010.12 PCT																	
Total Nitrogen																	
Salicylic																	
420	27.19	.37													105	27.19	.64
029	27.19	.27													009	27.29	.60
086	27.15	.24													452	27.25	.51
393	27.20	.23													096	27.27	.51
481	27.46 R	2.52													034	27.26	.48
254	27.39	.86													450	27.20	.46
185	27.29	.42													049	27.25	.43
Avg	27.20														027	27.25	.43
397	26.92	-1.26													106	27.24	.42
Meth: 010.12 PCT																	
Total Nitrogen																	
Salicylic																	
455	29.90 S	12.03													162	27.24	.41
481	27.46 R	2.52													420	27.19	.37
254	27.39	.86													029	27.19	.27
185	27.29	.42													086	27.15	.24
Avg	27.20														393	27.20	.23
397	26.92	-1.26													292	27.19	.22
Meth: 005.99 PCT																	
Nitrogen From Urea																	
Other																	
481	17.90	1.25													231	27.17	.14
Meth: 005.00 PCT																	
Nitrogen From Urea																	
Urease (as N)																	
368	13.12	.86													377	27.15	.05
Avg	11.66														Avg	27.14	
232	10.20	-.87													073	27.11	-.15
177	6.24	-.57													Meth: 010.60 PCT		
027	6.17	-.80													Total Nitrogen		
232	6.18 R	-.96													Other		
420	6.10	-1.05													169	27.84	1.24
368	5.81	-1.97													300	27.52	.39
Meth: 005.99 PCT																	
Nitrogen From Urea																	
Other																	
481	17.90	1.25													479	27.40	.06
Meth: 005.99 PCT																	
Nitrogen From Urea																	
Other																	
481	17.90	1.25													137	27.37	-.02
Meth: 005.99 PCT																	
Nitrogen From Urea																	
Other																	
481	17.90	1.25													030	26.81 R	-1.57
Meth: 005.99 PCT																	
Nitrogen From Urea																	
Other																	
481	17.90	1.25													255	26.76	-1.67

\* 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														
Total Nitrogen														
Other			420	27.19	.32	041	26.70	-1.66	443	3.27	1.56	096	3.10	.18
420	25.98 S	-3.79	456	27.22	.25	157	26.70	-1.67	322	3.09	.27	096	3.10	.18
			029	27.19	.23	451	26.70	-1.78	Avg	3.03		096	3.10	.18
Meth: 010.XX PCT														
Total Nitrogen														
351	30.02 s	10.36	393	27.20	.18	042	26.37 s	-3.47	Meth: 020.40 PCT			027	3.12 R	1.54
455	29.90 s	9.91	292	27.19	.17	420	25.98 s	-4.24	Total Phosphate			484	3.28	1.23
169	27.84	2.47	231	27.17	.10	260	25.56 s	-5.78	Automated			096	3.27	1.20
481	27.46 R	2.12	Avg	27.15		475	25.52 s	-5.99				456	3.10	.18
330	27.65	2.01	377	27.15	-.04	484	20.99 s	-22.50				096	3.27	1.20
360	27.71	2.00	073	27.11	-.17				Meth: 020.10 PCT			432	3.42 R	2.72
211	27.68	1.90	086	27.15	-.22				Total Phosphate			324	3.44	2.61
354	27.55	1.45	402	27.08	-.31				Grav Quimociac			443	3.27 R	2.18
354	27.54	1.38	233	27.06	-.34				090	3.07	1.15	483	3.35	2.02
300	27.52	1.33	234	27.08	-.34				105	3.03	-.44	027	3.12 R	1.65
422	27.51	1.31	095	27.01	-.54				042	2.94	-.92	452	3.29	1.62
389	27.45	1.09	405	27.01	-.54				035	2.90	-1.21	426	3.25	1.62
479	27.40	.89	022	27.00	-.55							406	3.28	1.52
254	27.39	.86	426	27.07	-.55				Meth: 020.50 PCT			484	3.28	1.52
137	27.37	.79	035	26.99	-.59				Total Phosphate			096	3.27	1.48
043	27.37	.77	102	27.03	-.59				ICP			231	3.15	.82
325	27.20	.74	232	26.98	-.72				432	3.42	1.87	292	3.14	.63
324	27.35	.74	406	26.96	-.73				483	3.35	1.39	371	3.12	.48
470	27.33	.62	090	26.95	-.77				452	3.29	1.12	422	3.10	.43
177	27.31	.61	397	26.92	-.86				426	3.25	1.11	456	3.10	.36
131	27.26	.61	368	26.96	-.88				Avg	3.05	.30	322	3.09	.29
055	27.30	.58	390	26.92	-.90				291	3.04	-.06	090	3.07	.25
105	27.19	.57	114	27.01	-.97				231	3.02	-.16	234	3.06	.17
009	27.29	.51	040	27.05	-.97				402	3.00	-.24	114	3.05	.01
185	27.29	.50	291	26.86	-1.05				157	3.01	-.25	Avg	3.05	
452	27.25	.43	057	27.04 R	-1.18				390	3.03	-.45	291	3.04	-.09
096	27.27	.43	037	26.92	-1.20				255	3.00	-.51	231	3.02	-.24
034	27.26	.40	007	27.00 R	-1.21				368	2.85	-.98	481	3.01	-.25
450	27.20	.40	371	26.85	-1.27				393	2.82	-1.07	105	3.03	-.28
027	27.25	.35	030	26.81	-1.32				389	2.80	-1.15	105	3.03	-.29
049	27.25	.35	474	26.79	-1.39				451	2.78	-1.56	405	3.00	-.34
106	27.24	.35	483	26.80	-1.41							402	3.00	-.35
162	27.24	.34	255	26.76	-1.42							470	3.00	-.35
			443	26.75	-1.46							428	3.00	-.36
			105	26.71	-1.63									

\* 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	
Meth: 020.XX PCT												
<u>Total Phosphate</u>												
157	3.01	-.37										Meth: 041.XX PCT
169	2.97	-.56										<u>Dir Available Phosph</u>
420	2.96	-.59										023 3.16 1.30
041	2.96	-.62										029 3.03 R 1.29
474	3.04	-.64										022 3.05 R 1.28
390	3.03	-.65										254 3.14 1.26
042	2.94	-.72										034 3.10 .80
479	3.04	-.73										049 3.01 .49
255	3.00	-.74										095 3.07 .49
177	2.92	-.82										185 3.06 .44
137	2.92	-.85										397 3.04 .43
232	2.91	-.92										260 3.03 .40
035	2.90	-1.02										106 3.02 .35
450	2.95 R	-1.35										351 3.05 .33
455	2.85	-1.36										009 3.02 .22
368	2.85	-1.43										105 3.02 .14
393	2.82	-1.55										055 3.02 .14
389	2.80	-1.67										Avg 3.01
451	2.78 R	-2.27										040 3.00 -.06
Meth: 030.10 PCT												
<u>Insoluble Phosphate</u>												
090	0.01	.00										360 3.01 -.13
Meth: 030.40 PCT												
<u>Insoluble Phosphate</u>												
<u>Automated</u>												
096	0.23	.71										211 2.98 -.23
Meth: 041.60 PCT												
<u>Dir Available Phosph</u>												
<u>EDTA Extract</u>												
043	3.31	1.98										055 2.98 -.24
034	3.10	.41										009 3.00 -.38
Meth: 041.20 PCT												
<u>Dir Available Phosph</u>												
<u>Spectrometric</u>												
030	3.18	.71										231 2.96 -.39
Meth: 041.40 PCT												
<u>Dir Available Phosph</u>												
<u>Automated</u>												
027	3.06	1.34										105 2.97 -.39
095	3.07	.39										325 2.95 -.63
Meth: 041.50 PCT												
<u>Dir Available Phosph</u>												
<u>Other</u>												
479	3.02	.71										102 2.95 -.63
Meth: 040.XX PCT												
<u>InDir Available Phos</u>												
<u>ICP</u>												
255	2.99	.71										131 2.93 -.66
Meth: 041.99 PCT												
<u>InDir Available Phos</u>												
<u>Other</u>												
479	3.02	.71										377 2.93 -.71
Meth: 041.50 PCT												
<u>Dir Available Phosph</u>												
<u>ICP</u>												
479	3.02	1.18										131 2.91 -.82
090	3.06	.56										117 2.91 -1.00
096	3.05	.32										007 2.89 -1.01
Meth: 041.60 PCT												
<u>Dir Available Phosph</u>												
<u>ICP</u>												
479	0.03	.93										354 2.88 -1.10
Avg	0.02											043 2.86 -1.22
255	0.01	-.79										368 2.83 s -2.37
Meth: 041.10 PCT												
<u>Dir Available Phosph</u>												
<u>Grav Quimociac</u>												
254	3.14 s	3.26										393 2.70 -.23
022	3.05 R	3.16										055 2.98 .11
Meth: 041.10 PCT												
<u>Dir Available Phosph</u>												
<u>Grav Quimociac</u>												
254	3.14 s	3.26										377 2.93 -.32
022	3.05 R	3.16										325 2.95 -.35
Meth: 040.10 PCT												
<u>InDir Available Phos</u>												
<u>Grav Quim</u>												
090	3.06	.71										007 2.89 -.53
Meth: 040.20 PCT												
<u>InDir Available Phos</u>												
<u>Spectrometri</u>												
474	2.96	.71										354 2.88 -.61
Meth: 040.40 PCT												
<u>InDir Available Phos</u>												
<u>Automated</u>												
096	3.05	.71										043 2.86 -.70
Meth: 041.50 PCT												
<u>InDir Available Phos</u>												
<u>ICP</u>												
255	2.99	.71										368 2.83 S -1.74
Meth: 041.60 PCT												
<u>Dir Available Phosph</u>												
<u>EDTA Extract</u>												
043	3.31	1.98										393 2.70 -.175
034	3.10	.41										475 1.48 s -9.80
Meth: 041.20 PCT												
<u>Dir Available Phosph</u>												
<u>Spectrometric</u>												
030	3.18	.71										029 3.03 R -1.22
Meth: 041.40 PCT												
<u>Dir Available Phosph</u>												
<u>Automated</u>												
027	3.06	1.34										117 2.91 -1.26
095	3.07	.39										105 2.51 s -4.37
Meth: 041.99 PCT												
<u>Dir Available Phosph</u>												
<u>Other</u>												
479	3.02	.71										105 3.02 .71
Meth: 041.50 PCT												
<u>Dir Available Phosph</u>												
<u>ICP</u>												
452	3.27	2.04										368 2.83 s -2.37
023	3.16	1.30										393 2.70 -2.53
009	3.02	.36										105 2.51 s -4.28
Meth: 041.60 PCT												
<u>Dir Available Phosph</u>												
<u>ICP</u>												
452	3.27	2.04										475 1.48 s -12.58
023	3.16	1.30										
009	3.02	.36										

\* 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			
Meth: 048.20 PCT														
Water Soluble Phosph														
Spectrometric														
420	2.62	1.23										452	8.60	.90
Avg	2.49											055	8.57	.77
474	2.44	-.58										023	8.56	.74
096	2.41	-.80										007	8.52	.74
Meth: 048.50 PCT														
Water Soluble Phosph														
ICP														
393	2.26	.71										291	8.54	.66
Meth: 048.50 PCT														
Water Soluble Phosph														
Spectrometric														
420	2.62	1.35										406	8.54	.66
474	2.44	.25										028	8.53	.65
Avg	2.43											009	8.42	.60
096	2.41	-.32										131	8.52	.59
393	2.26	-1.22										131	8.52	.59
Meth: 050.00 PCT														
Soluble Potash														
STPB Oxalate														
114	8.98	1.88										086	8.51	.56
055	8.73	1.09										234	8.50	.55
009	8.42	.24										325	8.50	.52
211	8.44	.14										354	8.46	.41
470	8.43	.13										131	8.45	.39
Avg	8.40											137	8.46	.38
090	8.38	-.06										057	8.39	.37
057	8.39	-.32										360	8.46	.37
231	8.32	-.36										009	8.42	.60
397	8.29	-.39										131	8.52	.59
049	8.27	-.41										086	8.51	.56
102	7.70	-2.26										234	8.50	.55
022	6.75	-5.30										325	8.50	.52
Meth: 050.50 PCT														
Soluble Potash														
STPB Citrate														
030	7.93	-.71										474	8.21	-.53
254	6.62	-37.09										402	8.13	-.64
Meth: 050.50 PCT														
Soluble Potash														
ICP (Oxalate)														
422	8.56	1.41										232	8.18	-.54
055	8.57	.97										402	8.13	-.64
086	8.51	.75										255	8.08	-.77
354	8.46	.58										481	7.61	-1.85
106	8.35	.24										368	7.62	-1.99
292	8.33	.10										484	5.82	-5.98
Avg	8.31											Meth: 050.50 PCT		
426	8.20	-.56										Soluble Potash		
324	8.10	-.83										Other		
157	8.21	-.84										322	9.35	2.18
390	7.85	-1.97										451	9.22	2.09
Meth: 050.60 PCT														
Soluble Potash														
Flame (Oxalate)														
443	8.76	1.24										455	9.15	1.72
406	8.54	.47										450	8.97	1.47
Avg	8.40											027	8.64	.61
105	8.25	-.59										325	8.50	.21
169	8.07	-1.18										131	8.45	.15
Meth: 050.61 PCT														
Soluble Potash														
Flame (Citrate)														
095	8.66	1.57										137	8.46	.12
028	8.53	.97										360	8.46	.11
131	8.52	.90										Avg	8.41	
029	8.41	.37										177	8.32	-.20
Avg	8.34											474	8.19	-.51
456	8.33	-.10										402	8.13	-.64
105	8.25	-.44										232	8.18	-.54
034	8.15	-.90										402	8.13	-.64
041	8.15	-.92										255	8.08	-.77
035	8.03	-1.51										481	7.61	-1.85
Meth: 050.99 PCT														
Soluble Potash														
Other														
096	16.49	28.00										474	8.21	-.53
322	9.35	3.44										232	8.18	-.54
451	9.22	3.30										402	8.13	-.64
455	9.15	2.76										402	8.13	-.64
450	8.97	2.36										255	8.08	-.77
114	8.98	2.18										481	7.61	-1.85
443	8.76	1.42										368	7.62	-1.99
055	8.73	1.33										484	5.82	-5.98
432	8.73	1.32										Meth: 050.99 PCT		
422	8.56	1.21										Soluble Potash		
157	8.61	1.15										Other		
105	8.64	1.10										322	9.35	2.18
027	8.64	1.09										451	9.22	2.09
483	8.66	1.09										455	9.15	1.72
095	8.66	1.07										450	8.97	1.47
389	8.65	1.05										027	8.64	.61
035	8.03	-1.51										325	8.50	.21
Meth: 050.51 PCT														
Soluble Potash														
ICP (Citrate)														
096	16.49	37.79										131	8.45	.15
432	8.73	1.26										137	8.46	.12
483	8.66	.95										360	8.46	.11
389	8.65	.90										Avg	8.41	
452	8.60	.73										177	8.32	-.20
007	8.52	.68										474	8.19	-.51
023	8.56	.48										402	8.13	-.64
291	8.54	.35										232	8.18	-.54
Avg	8.47											402	8.13	-.64
377	8.40	-.33										255	8.08	-.77
009	8.42	-.78										481	7.61	-1.85
043	8.02	-.52										368	7.62	-1.99
351	7.56	-1.70										484	5.82	-5.98
Meth: 050.31 PCT														
Soluble Potash														
AA (Citrate)														
030	7.93	-.71										Meth: 050.99 PCT		
254	6.62	-37.09										Soluble Potash		
Meth: 050.50 PCT														
Soluble Potash														
ICP (Oxalate)														
422	8.56	1.41										Other		
055	8.57	.97										322	9.35	2.18
086	8.51	.75										451	9.22	2.09
354	8.46	.58										455	9.15	1.72
106	8.35	.24										450	8.97	1.47
292	8.33	.10										027	8.64	.61
Avg	8.31											325	8.50	.21
426	8.20	-.56										131	8.45	.15
324	8.10	-.83										137	8.46	.12
157	8.21	-.84										360	8.46	.11
390	7.85	-1.97										Avg	8.41	

\* 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	
Meth: 050.XX PCT												
<u>Soluble Potash</u>												
042	8.21	- .61										Meth: 144.99 PCT
393	8.17	- .62										Sulfur
034	8.15	- .69										Other
041	8.15	- .70										137
185	8.15	- .71										049
402	8.13	- .75										422
157	8.21 R	- .83										096
475	8.11	- .88										426
324	8.10	- .88										131
255	8.08	- .94										475
169	8.07	- .97										023
035	8.03	- 1.12										255
043	8.02	- 1.17										169
117	7.98	- 1.29										354
030	7.93	- 1.46										368
390	7.85 R	- 1.91										393
102	7.70	- 2.26										Meth: 144.XX PCT
481	7.61	- 2.55										<u>Sulfur</u>
351	7.56	- 2.73										360
368	7.62 s	- 2.77										055
022	6.75 s	- 5.50										157
254	6.62 s	- 5.97										102
484	5.82 s	- 8.68										300
Meth: 060.00 PCT												
<u>Free Water</u>												
007	1.76	1.52										481
405	1.65	.68										389
Avg	1.58											483
474	1.52	- .49										231
456	1.51	- .58										474
479	1.46	- 1.07										474
Meth: 101.30 PCT												
<u>Acid Soluble Calcium</u>												
035	2.76 s	79.10										324
035	2.39 s	106.35										043
422	0.30 s	7.44										479
041	0.19	2.51										452
106	0.16	1.04										037
483	0.14 R	.77										450
479	0.15	.74										452
057	0.14	.30										029
102	0.14	.28										037
354	0.14	.10										102
390	0.14	.09										102
Avg	0.14	.09										450
131	0.13	- .19										390
Avg	0.13	- .19										009
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
035	2.39 s	106.35										6.40
422	0.30 s	7.44										6.43
041	0.19	2.51										6.43
106	0.16	1.04										6.41
483	0.14 R	.77										6.38
479	0.15	.74										6.37
057	0.14	.30										351
102	0.14	.28										351
354	0.14	.10										351
390	0.14	.09										351
Avg	0.14	.09										351
131	0.13	- .19										351
Avg	0.13	- .19										351
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
035	2.39 s	35.32										6.61
105	0.33	2.61										6.61
422	0.30	2.13										6.61
041	0.19	.49										6.61
Avg	0.16	- .01										6.61
106	0.16	- .52										6.61
479	0.15	- .24										6.61
102	0.14	- .29										6.61
354	0.14	- .33										6.61
057	0.14	- .33										6.61
483	0.14 R	- .36										6.61
390	0.14	- .37										6.61
131	0.13	- .43										6.61
232	0.13	- .53										6.61
009	0.13	- .57										6.61
389	0.12	- .65										6.61
474	0.12	- .73										6.61
096	0.11	- .81										6.61
Meth: 144.01 PCT												
<u>Gravimetric</u>												
105	6.49	- .24										6.49
095	6.46	- .34										6.46
397	6.40	- .67										6.40
231	6.14	- 1.94										6.14
106	6.05 R	- 2.47										6.05 R
Meth: 144.02 PCT												
<u>Sulfur</u>												
292	5.57	.71										5.57
<u>Spectrometric</u>												
474	6.61	- .71										6.61
Meth: 144.99 PCT												
<u>Sulfur</u>												
360	9.07 s	7.03										9.07 s
157	7.03	1.70										7.43 A
102	7.01	1.67										7.03
300	7.00	1.63										7.01
481	6.90	1.35										7.00
389	6.85	1.23										6.90
483	6.76 R	1.21										6.85
231	6.65	.70										6.76 R
474	6.61	.68										6.65
324	6.62	.67										6.61
043	6.64	.67										6.61
479	6.64	.67										6.62
452	6.60	.58										6.61
037	6.55	.50										6.64
450	6.52	.45										6.64
390	6.52	.39										6.60
009	6.40	.34										6.58
232	6.43	.14										6.55
291	6.43	.13										6.55
027	6.41	.09										6.55
Avg	6.38											6.52
351	6.37	- .09										6.52
Avg	6.37	- .09										6.40
Meth: 144.99 PCT												
<u>Gravimetric</u>												
055	7.43 s	4.54										7.43 s
481	6.90	1.79										7.43 s
324	6.62	.66										6.90
043	6.64	.55										6.62
102	6.55	.31										6.64
029	6.58	.51										6.55
037	6.55	.48										6.55
102	6.55	.45										6.55
450	6.52	.43										6.55
390	6.52	.36										6.52
009	6.41	.09										6.52
Avg	6.38											6.40
351	6.37	- .09										6.40
Avg	6.37	- .09										6.49

\* 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
Meth: 144.XX PCT											
<u>Sulfur</u>											
095	6.46	.19									
397	6.40	.11									
232	6.43	.11									
291	6.43	.09									
027	6.41	.06									
Avg	6.39										
351	6.37	-.10									
137	6.34	-.13									
049	6.31	-.27									
422	6.36	-.37									
096	6.17	-.60									
231	6.14	-.68									
426	6.14	-.69									
475	6.30	-.71									
131	6.12	-.73									
023	6.34	-.84									
255	6.04	-.97									
106	6.05	-.99									
169	5.98	-1.11									
354	5.84	-1.50									
368	5.70	-1.93									
292	5.57	-2.20									
393	5.48	-2.43									
Meth: 151.30 PPM											
<u>Arsenic</u>											
ICP	9.30	1.82									
368	7.75	1.36									
009	7.75	R									
Avg	5.03										
450	5.00	-.01									
102	3.99	-.44									
393	3.83	-.52									
474	3.05	-.85									
Meth: 151.99 PPM											
<u>Arsenic</u>											
Other	3.56	-.71									
231	3.56										
Meth: 151.XX PPM											
<u>Arsenic</u>											
368	9.30	2.05									
009	7.75	R									
450	5.00	.10									
Avg	4.79										
102	3.99	-.36									
393	3.83	-.44									
231	3.56	-.56									
474	3.05	-.79									
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
Other	0.015	8.41									
354	0.007	1.95									
483	0.005	.45									
106	0.004	-.36									
Avg	0.004	-.54									
232	0.004	-.69									
422	0.003	-.76									
009	0.003										
389	0.003										
Meth: 181.00 PPM											
<u>Cadmium</u>											
ICP	1.64	.71									
481	1.64										
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP	22.75	s	22.88								
009	3.50	2.00									
232	1.88	.24									
452	1.73	.16									
009	1.73	.16									
474	1.73	.16									
Meth: 181.99 PPM											
<u>Cadmium</u>											
ICP	22.75	s	26.57								
009	3.50	2.35									
232	1.88	.32									
231	1.75	.25									
452	1.73	.21									
474	1.75	.17									
481	1.64	.16									
102	1.70	.10									
393	1.64	.03									
Avg	1.63										
368	1.23	-.57									
450	1.00	-.79									
096	0.09	-1.93									
Meth: 190.00 PCT											
<u>Water Soluble Chlori</u>											
ICP	6.26	-.71									
422	6.26										
Meth: 190.99 PPM											
<u>Chromium</u>											
Other	17.69	.71									
231	17.69										
Meth: 191.30 PPM											
<u>Chromium</u>											
ICP	104.50	s	104.50								
035	104.50	s	4.76								
452	69.00	2.12									
481	55.00	R									
096	50.10	.72									
450	48.50	.61									
009	44.90	.34									
368	44.20	.30									
102	44.27	.29									
106	42.50	.19									
232	41.80	.10									
Avg	40.48										
393	39.70	-.12									
027	36.88	-.27									
037	30.75	-.72									
231	17.69	-1.69									
474	16.00	-1.82									
Meth: 202.00 PPM											
<u>Acid Soluble Cobalt</u>											
AA	5.00	.00									
474	5.00										
Meth: 202.30 PPM											
<u>Acid Soluble Cobalt</u>											
ICP	21.75	1.18									
450	21.10	1.07									
009	20.83	1.05									
057	19.35	.80									
096	17.61	.53									
452	17.50	.52									
368	16.50	.37									
106	14.20	.08									
102	14.18										
Avg	12.72	-.23									
049	12.47	-.27									
037	12.47	-.27									
232	12.65	-.27									
393	7.93	-.98									

\* 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: 202.30 PPM														
Acid Soluble Cobalt														
ICP			ICP			ICP			ICP			ICP		
035	3.94	-1.59	422	0.0620 s	5.24	422	0.0525	1.41	432	3.25	1.61	484	3.18	.73
422	0.00	-2.20	483	0.0597 s	4.35	028	0.0515	1.01	483	3.16	1.36	042	3.05	.53
			102	0.0525	1.61	452	0.0515	.96	422	3.06	1.09	234	2.93	.37
Meth: 202.99 PPM														
Acid Soluble Cobalt														
Other			402	0.0525	1.51	231	0.0503	.69	055	3.03	1.06	Avg	2.67	
231	4.95	.71	368	0.0508 R	1.11	390	0.0507	.65	106	3.03	1.02	137	1.52	-1.60
			452	0.0515	1.09	043	0.0505	.60	360	3.02	.99			
			390	0.0507	.79	354	0.0500	.36	324	2.98	.94			
			009	0.0491 R	.74	481	0.0500	.36	157	2.98	.90			
Meth: 202.XX PPM														
Acid Soluble Cobalt														
450	0.0500	.52	450	0.0500	.36	450	0.0500	.36	426	2.98	.90			
106	0.0500	.52	106	0.0500	.36	106	0.0500	.36	450	2.97	.86			
354	0.0500	.52	Avg	0.0491		Avg	0.0491		057	2.80	.54			
009	21.75	1.40	095	0.0487		095	0.0487	-.21	027	2.82	.48			
057	20.83 R	1.27	095	0.0487	-.06	131	0.0485	-.33	009	2.80	.41			
096	19.35	1.03	131	0.0485	-.21	057	0.0481	-.55	351	2.69	.39			
452	17.61	.77	057	0.0481	-.39	009	0.0491	-.77	390	2.76	.32			
368	17.50	.75	433	0.0474	-.60	433	0.0474	-.80	354	2.72	.20			
106	16.50	.60	389	0.0470	-.66	389	0.0470	-.88	131	2.68	.10			
102	14.20	.27	096	0.0468	-.74	096	0.0468	-.97	095	2.66	.04			
232	12.65	.13	232	0.0464	-.96	232	0.0464	-1.19	Avg	2.65				
049	12.72	.05	393	0.0453	-1.35	393	0.0453	-1.61	041	2.59	-.17			
Avg	12.51		255	0.0438	-1.93	255	0.0438	-2.23	255	2.59	-.18			
037	12.47	-.01	035	0.0036 s	-17.67	035	0.0036 s	-18.84	037	2.50	-.40			
393	7.93	-.70							452	2.40	-.67			
474	5.00	-1.13							291	2.37	-.76			
231	4.95	-1.14							402	2.35	-.80			
035	3.94	-1.29							368	2.33	-.86			
422	0.00	-1.88							102	2.31	-.91			
Meth: 221.99 PCT														
Acid Soluble Copper														
Other			484	4.5550 S	2548.35	028	3.12	1.02	102	2.31	-.91			
484	0.0503		Avg	0.0503		169	3.04	.85	433	2.29	-.98			
231	0.0503	-.71	029	2.98	.74	029	2.98	.74	479	2.28	-1.00			
Meth: 221.XX PCT														
Acid Soluble Copper														
Atomic Absorption			177	2.72	.21	177	2.72	.21	231	1.98	-1.82			
474	0.0518	1.79	043	2.65	.10	043	2.65	.10	232	1.97	-1.84			
028	0.0515	.31	Avg	2.61		Avg	2.61		389	1.79	-2.32			
Avg	0.0510		484	4.5550 s	1864.41	481	1.95	-1.33	475	0.84 s	-4.88			
043	0.0505	-.25	422	0.0620 s	5.34	397	1.84	-1.54	035	0.69 s	-5.27			
481	0.0500	-.36	483	0.0597 s	4.40	474	0.56 S	-4.07						
			474	0.0518 R	2.24				Avg	2.64				
			102	0.0525	1.52				041	2.59	-.13			
									255	2.59	-.15			

\* 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
Meth: 241.XX PCT											
<u>Acid Soluble Iron</u>											
037	2.50	-.34									
452	2.40	-.57									
291	2.37	-.65									
402	2.35	-.68									
368	2.33	-.73									
102	2.31	-.77									
433	2.29	-.84									
479	2.28	-.85									
231	1.98	-1.56									
232	1.97	-1.58									
481	1.95	-1.63									
397	1.84	-1.87									
389	1.79	-2.00									
137	1.52	-2.61									
475	0.84 A	-4.20									
035	0.69 s	-4.54									
474	0.56 s	-4.83									
Meth: 251.00 PPM											
<u>Lead</u>											
481	12.01 S	.00									
<u>Atomic Absorption</u>											
Meth: 251.30 PPM											
<u>Lead</u>											
ICP	009	18.70	1.35								
452	18.59	1.25									
450	18.00	1.06									
037	16.79	.87									
049	17.23	.51									
102	16.65	.19									
Avg	16.31	-.40									
368	15.90	-.71									
106	15.00	-1.04									
393	14.41	-1.04									
474	14.45	-1.04									
232	13.75	-1.45									
Meth: 261.30 PCT											
<u>Acid Soluble Manganese</u>											
ICP	106	0.040	2.15								
422	0.035 R	1.79									
057	0.035	.94									
041	0.035	.81									
102	0.035	.57									
390	0.035	.35									
009	0.034	.12									
Avg	0.034	-.38									
131	0.033	-.45									
389	0.033	-.58									
096	0.032	-.58									
232	0.031	-1.19									
354	0.030	-1.33									
035	0.014 s	-6.74									
450	9.50	1.04									
Meth: 261.99 PCT											
<u>Acid Soluble Manganese</u>											
106	0.040	2.01									
422	0.035 R	1.58									
057	0.035	.90									
041	0.035	.79									
102	0.035	.58									
390	0.035	.45									
009	0.034	.26									
Avg	0.033	-.21									
131	0.033	-.31									
389	0.033	-.33									
096	0.032	-.87									
232	0.031	-.97									
354	0.030	-.97									
474	0.027	-1.86									
483	0.022 s	-3.86									
035	0.014 s	-5.62									
Meth: 281.30 PPM											
<u>Mercury</u>											
ICP	393	0.89	.87								
Avg	0.48										
450	0.08	-.87									
Meth: 289.30 PPM											
<u>Molybdenum</u>											
ICP	035	7.63	-.24								
035	7.56	-.26									
009	7.20	-.26									
474	5.55	-1.04									
231	5.30	-1.17									
255	2.68	-2.47									
Meth: 289.99 PPM											
<u>Molybdenum</u>											
231	5.30	.71									
Meth: 289.99 PPM											
<u>Nickel</u>											
231	8.43	-.71									
Meth: 291.30 PPM											
<u>Nickel</u>											
ICP	450	28.50	1.76								
096	24.50	1.06									
009	22.60	.75									
102	21.50	.55									
035	20.45	.39									
368	20.00	.30									
049	19.67	.26									
232	19.25	.18									
Avg	18.24	-.04									
106	18.00	-.76									
037	13.74	-1.23									
393	11.00	-1.41									
452	9.98	-1.73									
474	8.00	-1.73									
Meth: 291.99 PPM											
<u>Nickel</u>											
231	8.43	-.71									
Meth: 291.XX PPM											
<u>Nickel</u>											
450	28.50	2.12									
096	24.50	1.39									
009	22.60	1.06									
102	21.50	.86									
035	20.45	.68									
368	20.00	.59									
049	19.67	.54									
232	19.25	.46									
106	18.00	.23									
Avg	16.70	-.53									
037	13.74	-1.02									
393	11.00	-1.21									
452	9.98	-1.47									
231	8.43	-1.55									
474	8.00	-1.55									

\* 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

Meth: 301.30 PPM

Selenium	
ICP	
393	0.53 .87
Avg	0.27
450	0.00 -.87

Meth: 311.30 PCT

Sodium	
Flame Photometric	
105	0.07 .71

Meth: 311.99 PCT

Sodium	
Other	
035	0.54 S 6.43
422	0.24 1.89
Avg	0.11
102	0.08 -.39
057	0.08 R -.44
232	0.08 -.46
474	0.08 -.49
009	0.07 -.55

Meth: 311.XX PCT

Sodium	
035	0.54 s 7.04
422	0.24 2.14
Avg	0.10
102	0.08 -.33
057	0.08 R -.39
232	0.08 -.41
474	0.08 -.44
105	0.07 -.45
009	0.07 -.51

Meth: 321.30 PCT

Acid Soluble Zinc	
ICP	
037	0.896 s 49.24
035	0.633 s 31.16
106	0.250 s 6.86
422	0.215 2.52
041	0.197 1.36
483	0.196 1.20
450	0.180 .69
389	0.188 .66
402	0.180 .25
452	0.181 .22
Avg	0.179
049	0.176 -.18
102	0.178 -.28
009	0.174 -.37
095	0.173 -.43
057	0.172 -.43
390	0.174 -.57
354	0.170 -.59
433	0.164 -1.02
232	0.162 -1.17
368	0.171 R -1.18
131	0.158 -1.45

Meth: 321.99 PCT

Acid Soluble Zinc	
Other	
474	0.170 1.23
Avg	0.155
231	0.154 -.05
481	0.140 -.99

Meth: 321.XX PCT

Acid Soluble Zinc	
037	0.896 s 43.74
035	0.633 s 27.76
106	0.250 s 6.24
422	0.215 2.47

Meth: 321.XX PCT

Acid Soluble Zinc	
041	0.197 1.43
483	0.196 1.31
389	0.188 .82
450	0.180 .69
452	0.181 .41
402	0.180 .37
102	0.178 .32
049	0.176 .15
Avg	0.175
057	0.172 -.14
095	0.173 -.15
009	0.174 -.19
354	0.170 -.28
390	0.174 -.40
043	0.166 -.53
433	0.164 -.66
474	0.170 -.67
232	0.162 -.79
368	0.171 R -.96
131	0.158 -1.04
231	0.154 -1.23
481	0.140 -2.10

Meth: 325.30 PCT

Water Soluble Zinc	
ICP	
393	0.150 .00

Meth: 325.99 PCT

Water Soluble Zinc	
Other	
450	0.180 .71

Meth: 325.XX PCT

Water Soluble Zinc	
450	0.180 .94
Avg	0.165
393	0.150 -.78

\* 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	5	- 0.39	1.27	0.58	050.99	18	- 0.26	1.82	0.35
001.99	8	7.04	19.93	0.09	050.XX	69	0.18	3.86	0.37
001.XX	13	5.20	19.01	0.19	060.00	5	0.00	1.03	0.22
002.99	2	0.00	1.22	0.01	060.XX	5	0.00	1.03	0.22
002.XX	2	0.00	1.22	0.01	101.30	16	7.02	20.43	0.40
003.10	2	0.00	0.92	0.57	101.XX	16	7.02	20.43	0.40
003.99	2	0.00	1.21	0.12	121.30	16	7.13	26.54	0.33
003.XX	4	0.00	1.05	0.22	121.XX	17	2.06	8.62	0.11
005.00	2	0.00	1.22	0.09	144.01	11	0.19	1.81	0.43
005.99	4	0.00	1.08	0.04	144.99	30	0.26	1.59	0.30
005.XX	6	0.00	1.05	0.04	144.XX	41	0.23	1.51	0.33
010.11	8	- 0.56	1.83	0.32	151.30	6	0.19	1.06	0.29
010.12	6	- 2.40	13.23	2.03	151.XX	7	0.19	1.08	0.29
010.60	57	0.02	2.01	0.55	165.99	7	1.093	3.037	1.341
010.99	7	- 0.76	1.69	0.13	165.XX	7	1.093	3.037	1.341
010.XX	76	- 0.23	3.33	0.70	181.30	10	2.24	7.31	0.10
020.10	5	0.00	0.88	0.53	181.XX	12	2.21	7.73	0.13
020.20	16	- 0.05	0.96	0.42	190.XX	2	0.00	0.81	0.65
020.40	7	0.03	0.95	0.59	191.30	13	0.39	1.72	0.08
020.50	15	0.00	0.92	0.42	191.XX	15	0.39	1.56	0.12
020.99	4	0.00	0.85	0.57	202.30	14	0.00	1.01	0.10
020.XX	45	0.04	1.06	0.55	202.XX	16	0.08	1.03	0.09
030.50	2	0.00	1.12	0.35	221.00	4	0.0000	0.3164	0.8944
030.XX	4	0.00	1.08	0.08	221.30	21	- 0.341	4.3085	0.3310
040.XX	5	0.00	0.42	0.87	221.99	2	1274.1	1801.9	14.008
041.10	12	0.33	1.07	1.17	221.XX	27	68.752	358.87	2.8313
041.40	3	0.00	0.63	0.75	241.00	8	- 0.51	1.73	0.11
041.50	13	- 0.82	2.86	0.44	241.30	33	- 0.31	1.56	0.15
041.60	9	- 0.49	1.64	0.60	241.99	4	0.00	1.07	0.10
041.XX	33	- 0.43	2.36	0.75	241.XX	45	- 0.30	1.49	0.13
048.20	3	0.00	1.04	0.34	251.30	11	0.00	0.95	0.37
048.XX	4	0.00	1.05	0.23	251.XX	13	- 0.15	1.07	0.78
050.00	12	- 0.44	1.80	0.19	261.30	13	- 0.487	2.066	0.609
050.30	6	0.00	1.01	0.25	261.99	2	- 1.925	2.722	3.756
050.31	2	- 18.53	26.20	1.21	261.XX	15	- 0.560	1.855	0.713
050.50	10	0.00	0.86	0.53	281.30	2	0.00	1.22	0.07
050.51	13	2.91	10.52	0.40	281.XX	2	0.00	1.22	0.07
050.60	4	0.00	1.06	0.17	289.30	14	0.39	3.04	0.24
050.61	9	0.00	1.02	0.13	289.XX	15	0.44	1.97	0.15

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
291.30	13	0.00	1.01	0.10					
291.XX	14	0.15	1.13	0.10					
301.30	2	0.00	1.22	0.00					
301.XX	2	0.00	1.22	0.00					
311.99	7	0.86	2.60	0.16					
311.XX	8	0.83	2.66	0.17					
321.30	21	4.037	12.435	1.109					
321.99	3	0.000	1.011	0.390					
321.XX	25	3.034	10.193	0.907					