AFPC

Sample 2015-01 Grade 11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	12	11.38	0.08
Method Group 001.XX PCT			12	11.38	0.09
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.38	0.05
Total Nitrogen, Salicylic	955.04d	010.12	1	11.22	0.00
Total Nitrogen, Combustion	993.13	010.60	20	11.38	0.06
Total Nitrogen, Other		010.99	3	11.31	0.06
Method Group 010.XX PCT			27	11.38	0.10
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	53.17	0.11
Total Phosphate, Spectrometric	978.02	020.20	18	52.91	0.16
Total Phosphate, ICP	970.03	020.40	3	53.04	2.66
Total Phosphate, Other	993.13	020.99	1	52.14	0.00
Method Group 020.XX PCT			24	52.96	0.22
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	9	0.17	0.06
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.19	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.21	0.00
Insoluble Phosphate, Other		030.99	2	0.16	0.02
Method Group 030.XX PCT			13	0.17	0.05
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	52.68	0.15
Indirect Available Phosphate, Other		040.99	3	52.62	0.04
Method Group 040.XX PCT			13	52.67	0.15
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	52.45	0.10
Direct Available Phosphate, Automated	978.01	041.40	2	51.41	1.02
Direct Available Phosphate, ICP		041.50	3	52.15	1.36
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	52.66	1.65
Method Group 041.XX PCT			11	52.46	1.15
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	47.85	0.21
Water Soluble Phosphate, Other		048.99	3	47.74	0.17
Method Group 048.XX PCT			16	47.83	0.22
SOLUBLE POTASH AS K_2O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.12	0.01
Soluble Potash, ICP(Citrate)		050.51	1	0.27	0.00
Soluble Potash, Other		050.99	7	0.12	0.00
Method Group 050.XX PCT			11	0.12	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	12	0.90	0.12
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.07	0.12
Free Water, Other		060.99	4	1.06	0.05
Method Group 060.XX PCT			18	0.96	0.18
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.77	0.00
Acid Soluble Calcium, ICP		101.30	15	0.81	0.03
Method Group 101.XX PCT			16	0.80	0.05
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.23	0.00
Acid Soluble Magnesium, ICP		121.30	15	1.29	0.05
Method Group 121.XX PCT			16	1.29	0.06
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	1	1.70	0.00
Sulfur, Spectrometric		144.70	2	1.67	0.00

Sulfur, Other		144.99	12	1.61	0.10
Method Group 144.XX PCT			15	1.62	0.13
TOTAL SULFUR (S)					
Sulfur, Other		145.99	3	1.65	0.02
Method Group 145.XX PCT			3	1.65	0.03
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	8	22	2.3
Total Arsenic, Other		151.99	1	16	0.0
Method Group 151.XX PPM			9	22	3.7
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	34	0.0
Method Group 165.XX PPM			1	34	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	6	140	0.9
Total Cadmium, Other		181.99	1	127	0.0
Method Group 181.XX PPM			7	140	1.9
ALUMINUM AS Al_2O_3					
ICP, %			13	1.57	0.05
Water Soluble Chlorine, Other, %		190.99	2	1.60	0.00
Method Group 190.XX PCT			15	1.58	0.05
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	7	526	11.6
Total Chromium, Other		191.99	1	498	0.0
Method Group 191.XX PPM			8	521	16.6
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	5	0.0
Acid Soluble Cobalt, Other		202.99	1	4	0.0
Method Group 202.XX PPM			6	5	0.6
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	5	78.0	1.5
Acid Soluble Copper, Other		221.99	1	0.0	0.0
Method Group 221.XX PPM			7	78.0	2.7
ACID SOLUBLE IRON AS Fe_2O_3					
Acid Soluble Iron, ICP		241.30	14	1.14	0.02
Acid Soluble Iron, Other		241.99	1	1.17	0.00
Method Group 241.XX PCT			16	1.14	0.02
TOTAL LEAD					
Total Lead, ICP		251.30	5	3	1.2
Total Lead, Other		251.99	1	1.6	0.0
Method Group 251.XX PPM			6	3	1.5
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	193	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	3	187	2.4
Acid Soluble Manganese, Other		261.99	5	187	12.3
Method Group 261.XX PPM			9	187	7.8
TOTAL MERCURY					
Total Mercury, Atomic Absorbtion		281.00	1	0	0.00
Total Mercury, ICP		281.30	1	0.00	0.00
Method Group 281.XX PPM			2	0.03	0.02
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	16	0.7
Total Molybdenum, Other		289.99	1	18	0.0
Method Group 289.XX PPM			6	16	1.0
TOTAL NICKEL					
Total Nickel, ICP		291.30	5	256	1.8
Total Nickel, icp		291.99	2	256	2.8
Method Group 291.XX PPM			7	256	4.5
TOTAL SELENIUM					
Total Selenium, ICP		301.30	3	0.3	0.0
Method Group 301.XX PPM			3	0.3	0.0
SODIUM AS Na_2O					

Sodium, Other		311.99	8	0.17	0.02
Method Group 311.XX PCT			8	0.17	0.03
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	1808.5	0.0
Acid Soluble Zinc, ICP		321.30	4	1806.3	54.0
Acid Soluble Zinc, Other		321.99	2	1681.5	1.5
Method Group 321.XX PPM			7	1779.5	90.7
FLUORIDE					
Volumentric		325.10	10	1.48	0.11
Distilled/Electrode		325.99	3	1.65	0.09
Method Group 325.XX PCT			13	1.49	0.20

001.99 Lab		Ammoniacal Nitrogen Other
24	11.44	-0.794
23	11.40	-0.265
24	11.40	-0.265
23	11.40	-0.199
275	11.40	-0.199
34	11.38	0.000
32	11.38	0.000
Median	11.38	0.000
61	11.37	0.132
32	11.31	0.993
Std Dev	11.30	1.000
61	11.27	1.522
275	11.26	1.654
310	11.15	3.044

001.XX Lab		Ammoniacal Nitrogen Total Method
24	11.44	-0.794
23	11.40	-0.265
24	11.40	-0.265
23	11.40	-0.199
275	11.40	-0.199
34	11.38	0.000
32	11.38	0.000
Median	11.38	0.000
61	11.37	0.132
32	11.31	0.993
Std Dev	11.30	1.000
61	11.27	1.522
275	11.26	1.654
310	11.15	3.044

010.11 Lab		Total Nitrogen Modified Comprehensive
43	11.43	-1.072
Std Dev	11.42	-1.000
43	11.38	0.000
Median	11.38	0.000
Std Dev	11.33	1.000
219	11.30	1.608

010.12 Lab		Total Nitrogen Salicylic
107	11.22	0.000
Median	11.22	0.000

010.60 Lab		Total Nitrogen Combustion
137	17.45	-103.244
49	11.66	-4.722
42	11.55	-2.850
80	11.50	-2.084
Std Dev	11.44	-1.000
31	11.43	-0.893
14	11.43	-0.808
14	11.41	-0.553
79	11.41	-0.468
110	11.39	-0.128
24	11.38	-0.043
Median	11.38	0.000
9	11.38	0.043
275	11.37	0.128
24	11.37	0.128
275	11.36	0.298
219	11.36	0.383
77	11.33	0.893
Std Dev	11.32	1.000
66	11.28	1.659
9	11.28	1.744
99	10.98	6.849
103	10.97	7.019

010.99 Lab		Total Nitrogen Other
32	11.38	-1.297
Std Dev	11.36	-1.000
32	11.31	0.000
Median	11.31	0.000
Std Dev	11.25	1.000
40	11.23	1.383

010.XX Lab		Total Nitrogen Total Method
137	17.45	-70.729
49	11.66	-3.263
42	11.55	-1.981
80	11.50	-1.457
Std Dev	11.46	-1.000
31	11.43	-0.641
14	11.43	-0.583
43	11.43	-0.583
14	11.41	-0.408
79	11.41	-0.350
110	11.39	-0.117
24	11.38	-0.058
32	11.38	-0.058
9	11.38	0.000
43	11.38	0.000
Median	11.38	0.000
275	11.37	0.058
24	11.37	0.058
275	11.36	0.175
219	11.36	0.233
77	11.33	0.583
32	11.31	0.816
219	11.30	0.874
Std Dev	11.29	1.000
66	11.28	1.107
9	11.28	1.165
40	11.23	1.748
107	11.22	1.864
99	10.98	4.661
103	10.97	4.777

020.10 Lab		Total Phosphate Gravimetric Quimociac
219	53.32	-1.340
Std Dev	53.28	-1.000
Median	53.17	0.000
Std Dev	53.06	1.000
241	53.02	1.340

020.20 Lab		Total Phosphate Spectrometric
110	54.60	-10.657
99	53.15	-1.482
Std Dev	53.07	-1.000
43	53.07	-0.977
9	53.03	-0.757
14	53.02	-0.694
61	53.01	-0.599
14	52.99	-0.504
24	52.97	-0.378
43	52.96	-0.284
Median	52.91	0.000
23	52.87	0.284
34	52.83	0.504
23	52.83	0.536
31	52.82	0.599
32	52.80	0.694
61	52.77	0.914
Std Dev	52.75	1.000
32	52.74	1.072
24	52.71	1.261
79	52.60	1.955

020.40 Lab		Total Phosphate Automated
219	53.30	-0.098
9	53.04	0.000
Median	53.04	0.000
Std Dev	50.38	1.000
137	46.17	2.582

020.99 Lab		Total Phosphate Other
310	52.14	0.000
Median	52.14	0.000

020.XX Lab		Total Phosphate Total Method
110	54.60	-9.095
219	53.32	-1.986
219	53.30	-1.875
99	53.15	-1.014
Std Dev	53.14	-1.000
43	53.07	-0.569
9	53.04	-0.430
9	53.03	-0.375
241	53.02	-0.319
14	53.02	-0.319
61	53.01	-0.236
14	52.99	-0.153

24	52.97	-0.042
Median	52.96	0.000
43	52.96	0.042
23	52.87	0.542
34	52.83	0.736
23	52.83	0.764
31	52.82	0.819
32	52.80	0.903
Std Dev	52.78	1.000
61	52.77	1.097
32	52.74	1.236
24	52.71	1.402
79	52.60	2.013
310	52.14	4.568
137	46.17	37.756

030.20 Lab		Insoluble Phosphate Spectrometric
61	0.33	-2.680
43	0.27	-1.750
61	0.23	-1.005
Std Dev	0.23	-1.000
43	0.17	-0.050
24	0.17	0.000
Median	0.17	0.000
24	0.16	0.168
79	0.15	0.335
23	0.14	0.503
23	0.14	0.586

030.30 Lab		Insoluble Phosphate Alka. Quimociac
31	0.19	0.000
Median	0.19	0.000

030.40 Lab		Insoluble Phosphate Automated
34	0.21	0.000
Median	0.21	0.000

030.99 Lab		Insoluble Phosphate Other
32	0.19	-1.340
Std Dev	0.18	-1.000
Median	0.16	0.000
Std Dev	0.14	1.000
32	0.13	1.340

030.XX Lab		Insoluble Phosphate Total Method
61	0.33	-3.506
43	0.27	-2.267
61	0.23	-1.273
Std Dev	0.22	-1.000
34	0.21	-0.826
31	0.19	-0.380
32	0.19	-0.268
43	0.17	0.000
Median	0.17	0.000
24	0.17	0.067
24	0.16	0.290
79	0.15	0.514
23	0.14	0.737
23	0.14	0.849
32	0.13	0.960

040.20 Lab		Indirect Available Phosphate Spectrometric
24	52.82	-0.939
43	52.80	-0.768
43	52.78	-0.666
23	52.73	-0.290
23	52.69	-0.051
Median	52.68	0.000
61	52.68	0.051
31	52.63	0.358
24	52.55	0.905
Std Dev	52.54	1.000
61	52.54	1.007
79	52.45	1.588

040.99 Lab		Indirect Available Phosphate Other
32	52.67	-1.165
Std Dev	52.66	-1.000
34	52.62	0.000
Median	52.62	0.000
Std Dev	52.58	1.000
32	52.56	1.515

040.XX Lab		Indirect Available Phosphate Total Method
24	52.82	-1.182
Std Dev	52.80	-1.000
43	52.80	-0.985
43	52.78	-0.867
23	52.73	-0.434
23	52.69	-0.158
61	52.68	-0.039
32	52.67	0.000
Median	52.67	0.000
31	52.63	0.315
34	52.62	0.394
32	52.56	0.906
24	52.55	0.946
Std Dev	52.54	1.000
61	52.54	1.064
79	52.45	1.734

041.10 Lab		Direct Available Phosphate Gravimetric Quimociac
219	52.58	-1.340
Std Dev	52.54	-1.000
Median	52.45	0.000
Std Dev	52.35	1.000
107	52.32	1.340

041.40 Lab		Direct Available Phosphate Automated
49	52.78	-1.340
Std Dev	52.43	-1.000
Median	51.41	0.000
Std Dev	50.38	1.000
103	50.04	1.340

041.50 Lab		Direct Available Phosphate ICP
42	54.60	-1.803
Std Dev	53.51	-1.000
66	52.15	0.000
Median	52.15	0.000
80	50.95	0.877

041.60 Lab		Direct Available Phosphate EDTA Extract
29	53.52	-0.526
219	52.85	-0.118
Median	52.66	0.000
77	52.46	0.118
Std Dev	51.01	1.000
137	45.86	4.124

041.XX Lab		Direct Available Phosphate Total Method
42	54.60	-2.262
29	53.52	-1.124
Std Dev	53.41	-1.000
219	52.85	-0.412
49	52.78	-0.338
219	52.58	-0.122
77	52.46	0.000
Median	52.46	0.000
107	52.32	0.153
66	52.15	0.333
Std Dev	51.51	1.000
80	50.95	1.596
103	50.04	2.564
137	45.86	6.983

048.20 Lab		Water Soluble Phosphate Spectrometric
9	48.20	-1.675
23	48.15	-1.436
23	48.12	-1.268
Std Dev	48.06	-1.000
79	48.01	-0.766
14	47.89	-0.191
14	47.88	-0.120
31	47.85	0.000
Median	47.85	0.000
61	47.85	0.024
61	47.82	0.167
24	47.73	0.574
Std Dev	47.64	1.000
43	47.51	1.651
43	47.34	2.465

24	47.33	2.489

048.99 Lab		Water Soluble Phosphate Other
34	47.81	-0.437
32	47.74	0.000
Median	47.74	0.000
Std Dev	47.56	1.000
32	47.35	2.243

048.XX Lab		Water Soluble Phosphate Total Method
9	48.20	-2.013
23	48.15	-1.741
23	48.12	-1.551
Std Dev	48.01	-1.000
79	48.01	-0.979
14	47.89	-0.326
14	47.88	-0.245
31	47.85	-0.109
61	47.85	-0.082
Median	47.83	0.000
61	47.82	0.082
34	47.81	0.109
32	47.74	0.517
24	47.73	0.544
Std Dev	47.65	1.000
43	47.51	1.769
32	47.35	2.612
43	47.34	2.694
24	47.33	2.721

050.50 Lab	%K_2O	Soluble Potash ICP(Oxalate)
99	0.14	-2.144
Std Dev	0.13	-1.000
23	0.12	0.000
Median	0.12	0.000
23	0.12	0.536

050.51 Lab	%K_2O	Soluble Potash ICP(Citrate)
137	0.27	0.000
Median	0.27	0.000

050.99 Lab	%K_2O	Soluble Potash Other
80	0.30	-189.458
43	0.12	-1.752
Std Dev	0.12	-1.000
43	0.12	-0.928
24	0.12	0.000
24	0.12	0.000
61	0.12	0.000
61	0.12	0.000
Median	0.12	0.000

050.XX Lab	%K_2O	Soluble Potash Total Method
80	0.30	-22.267
137	0.27	-18.556
99	0.14	-2.474
Std Dev	0.13	-1.000
43	0.12	-0.206
43	0.12	-0.109
23	0.12	0.000
24	0.12	0.000
24	0.12	0.000
61	0.12	0.000
61	0.12	0.000
Median	0.12	0.000
23	0.12	0.619

060.00 Lab		Free Water Vacuum Oven
32	1.13	-1.984
32	1.07	-1.435
Std Dev	1.01	-1.000
24	0.99	-0.802
79	0.98	-0.675
24	0.95	-0.464
31	0.92	-0.211
Median	0.90	0.000
34	0.87	0.211
9	0.86	0.295
23	0.83	0.549
23	0.79	0.886
43	0.79	0.886
43	0.79	0.929

060.10 Lab		Free Water Vacuum Desiccate
61	1.24	-1.340
Std Dev	1.19	-1.000
Median	1.07	0.000
Std Dev	0.95	1.000
61	0.91	1.340

060.99 Lab		Free Water Other
275	1.09	-0.585
275	1.09	-0.585
Median	1.06	0.000
14	1.03	0.585
Std Dev	1.00	1.000
14	0.99	1.267

060.XX Lab		Free Water Total Method
61	1.24	-1.897
32	1.13	-1.166
Std Dev	1.11	-1.000
275	1.09	-0.853
275	1.09	-0.853
32	1.07	-0.714
14	1.03	-0.435
14	0.99	-0.191
24	0.99	-0.191
79	0.98	-0.087
Median	0.96	0.000
24	0.95	0.087
31	0.92	0.296
61	0.91	0.365
34	0.87	0.644
9	0.86	0.714
23	0.83	0.922
Std Dev	0.82	1.000
23	0.79	1.201
43	0.79	1.201
43	0.79	1.236

101.00 Lab	%CaO	Acid Soluble Calcium Atomic Absorption
219	0.77	0.000
Median	0.77	0.000

101.30 Lab	%CaO	Acid Soluble Calcium ICP
32	1.04	-6.849
32	0.94	-3.871
Std Dev	0.84	-1.000
61	0.83	-0.596
24	0.83	-0.596
61	0.83	-0.596
43	0.82	-0.264
31	0.81	-0.134
34	0.81	0.000
Median	0.81	0.000
14	0.80	0.447
23	0.80	0.447
23	0.80	0.447
Std Dev	0.78	1.000
14	0.78	1.042
9	0.77	1.191
24	0.77	1.191
43	0.71	2.867

101.XX Lab	%CaO	Acid Soluble Calcium Total Method
32	1.04	-5.773
32	0.94	-3.342
Std Dev	0.84	-1.000
61	0.83	-0.668
24	0.83	-0.668
61	0.83	-0.668
43	0.82	-0.398
31	0.81	-0.292
34	0.81	-0.182
Median	0.80	0.000
14	0.80	0.182
23	0.80	0.182
23	0.80	0.182
14	0.78	0.668
219	0.77	0.681
9	0.77	0.790

24	0.77	0.790
Std Dev	0.76	1.000
43	0.71	2.158

121.00		Acid Soluble Magnesium
Lab	%MgO	Atomic Absorption
219	1.23	0.000
Median	1.23	0.000

121.30		Acid Soluble Magnesium
Lab	%MgO	ICP
14	1.66	-7.826
14	1.65	-7.718
Std Dev	1.34	-1.000
32	1.32	-0.536
61	1.30	-0.107
61	1.30	-0.107
23	1.29	0.000
24	1.29	0.000
24	1.29	0.000
Median	1.29	0.000
23	1.28	0.214
Std Dev	1.24	1.000
34	1.24	1.072
9	1.24	1.179
31	1.23	1.286
32	1.21	1.822
43	1.10	4.181
43	1.08	4.502

121.XX		Acid Soluble Magnesium
Lab	%MgO	Total Method
14	1.66	-7.526
14	1.65	-7.425
Std Dev	1.33	-1.000
32	1.32	-0.610
61	1.30	-0.203
61	1.30	-0.203
23	1.29	-0.102
24	1.29	-0.102
24	1.29	-0.102
Median	1.29	0.000
23	1.28	0.102
34	1.24	0.915

Std Dev	1.24	1.000
9	1.24	1.017
31	1.23	1.119
219	1.23	1.190
32	1.21	1.627
43	1.10	3.865
43	1.08	4.170

144..01		Sulfate Sulfur (S)
Lab		Gravimetric
241	1.70	0.000
Median	1.70	0.000

144.70		Sulfur
Lab		Spectrometric
14	1.67	-1.340
Std Dev	1.67	-1.000
Median	1.67	0.000
Std Dev	1.67	1.000
14	1.67	1.340

144.99		Sulfate Sulfur (S)
Lab		Other
32	1.75	-1.364
Std Dev	1.71	-1.000
34	1.70	-0.877
32	1.69	-0.780
23	1.64	-0.292
9	1.62	-0.049
24	1.61	0.000
24	1.61	0.000
Median	1.61	0.000
31	1.56	0.536
61	1.52	0.926
61	1.52	0.926
Std Dev	1.51	1.000
275	1.21	3.898
275	1.20	4.030

144.XX		Sulfate Sulfur (S)
Lab		Total Method
32	1.75	-1.248
Std Dev	1.72	-1.000
34	1.70	-0.786
241	1.70	-0.786
32	1.69	-0.693
14	1.67	-0.508
14	1.67	-0.462
23	1.64	-0.231
9	1.62	0.000
Median	1.62	0.000
24	1.61	0.046
24	1.61	0.046
31	1.56	0.554
61	1.52	0.924
61	1.52	0.924
Std Dev	1.51	1.000
275	1.21	3.743
275	1.20	3.868

145.99		Total Sulfur (S)
Lab		Other
219	1.71	-2.268
Std Dev	1.67	-1.000
43	1.65	0.000
Median	1.65	0.000
43	1.64	0.412

145.XX		Total Sulfur (S)
Lab		Total Method
219	1.71	-2.268
Std Dev	1.67	-1.000
43	1.65	0.000
Median	1.65	0.000
43	1.64	0.412

151.30		Total Arsenic
Lab		ICP
18	25.25	-1.507
Std Dev	24.07	-1.000
43	22.30	-0.237
43	22.00	-0.108
61	21.95	-0.086
Median	21.75	0.000
61	21.55	0.086
Std Dev	19.43	1.000
24	19.30	1.055
9	17.95	1.636
31	16.10	2.432

151.99		Total Arsenic
Lab		Other
275	16.00	0.000
Median	16.00	0.000

151.XX		Total Arsenic
Lab		Total Method
18	25.25	-1.224
Std Dev	24.57	-1.000
43	22.30	-0.248
43	22.00	-0.149
61	21.95	-0.132
61	21.55	0.000
Median	21.55	0.000
24	19.30	0.744
Std Dev	18.53	1.000
9	17.95	1.191
31	16.10	1.803
275	16.00	1.836

165.99		Acid Soluble Boron
Lab	PPM	Other
24	34.20	0.000
Median	34.20	0.000

165.XX, ppm		Acid Soluble Boron
Lab	PPM	Total Method
24	34.20	0.000
Median	34.20	0.000

181.30		Total Cadmium
Lab	PPM	ICP
9	140.55	-0.161
61	140.50	-0.107
61	140.50	-0.107
Median	140.40	0.000
43	140.30	0.107
Std Dev	139.47	1.000
18	138.90	1.608
43	137.85	2.739

181.99 Lab		Total Cadmium Other
24	127.00	0.000
Median	127.00	0.000

181.XX Lab	PPM	Total Cadmium Total Method
9	140.55	-0.157
61	140.50	-0.126
61	140.50	-0.126
43	140.30	0.000
Median	140.30	0.000
18	138.90	0.882
Std Dev	138.71	1.000
43	137.85	1.546
24	127.00	8.377

190.00 Lab	$\%Al_2O_3$	Aluminum ICP
32	1.69	-2.474
14	1.68	-2.268
14	1.67	-2.165
9	1.62	-1.031
Std Dev	1.61	-1.000
61	1.59	-0.412
24	1.58	-0.309
23	1.57	0.000
Median	1.57	0.000
23	1.56	0.206
61	1.56	0.206
24	1.55	0.309
32	1.55	0.412
Std Dev	1.52	1.000
43	1.48	1.752
43	1.48	1.855

190.99 Lab	$\%Al_2O_3$	Aluminum Atomic Absorption
31	1.60	0.000
34	1.60	0.000
Median	1.60	0.000

190.XX Lab	$\%Al_2O_3$	Aluminum Total Method
32	1.69	-2.558
14	1.68	-2.315
14	1.67	-2.193
Std Dev	1.62	-1.000
9	1.62	-0.853
31	1.60	-0.487
34	1.60	-0.487
61	1.59	-0.122
24	1.58	0.000
Median	1.58	0.000
23	1.57	0.365
23	1.56	0.609
61	1.56	0.609
24	1.55	0.731
32	1.55	0.853
Std Dev	1.54	1.000
43	1.48	2.436
43	1.48	2.558

191.30 Lab		Total Chromium ICP
61	537.00	-0.994
61	535.00	-0.821
18	528.50	-0.259
31	525.50	0.000
Median	525.50	0.000
43	517.00	0.735
43	515.50	0.865
Std Dev	513.93	1.000
9	501.10	2.109

191.99 Lab	PPM	Total Chromium Other
24	498.00	0.000
Median	498.00	0.000

191.XX Lab	PPM	Total Chromium Total Method
61	537.00	-1.158
61	535.00	-1.011
Std Dev	534.85	-1.000
18	528.50	-0.533
31	525.50	-0.312
Median	521.25	0.000
43	517.00	0.312
43	515.50	0.423
Std Dev	507.65	1.000
9	501.10	1.482
24	498.00	1.709

202.30 Lab	PPM	Acid Soluble Cobalt ICP
43		

202.99 Lab		Acid Soluble Cobalt Other
24	4.17	0.000
Median	4.17	0.000

202.XX Lab	PPM	Acid Soluble Cobalt Total Method
43	5.00	-0.053
43	5.00	-0.053
61	5.00	-0.053
Median	4.98	0.000
18	4.95	0.053
Std Dev	4.50	1.000
24	4.17	1.699
61	4.00	2.057

221.00 Lab		Acid Soluble Copper Atomic Absorption
219	1.13	0.000
Median	1.13	0.000

221.30 Lab	PPM	Acid Soluble Copper ICP
18	78.95	-0.636
43	78.50	-0.335
43	78.00	0.000
Median	78.00	0.000
Std Dev	76.51	1.000
61	76.50	1.005
61	75.00	2.010

221.99 Lab		Acid Soluble Copper Other
24	73.50	0.000
Median	73.50	0.000

221.XX Lab	PPM	Acid Soluble Copper Total Method
219	79.97	-0.885
18	78.95	-0.428
43	78.50	-0.225
43	78.00	0.000
Median	78.00	0.000
61	76.50	0.676
Std Dev	75.78	1.000
61	75.00	1.351
24	73.50	2.027

241.30 Lab	$\%Fe_2O_3$	Acid Soluble Iron ICP
32	1.23	-4.264
32	1.21	-3.289
Std Dev	1.16	-1.000
24	1.15	-0.609
61	1.15	-0.365
23	1.14	-0.122
24	1.14	-0.122
61	1.14	-0.122
Median	1.14	0.000
23	1.14	0.122
31	1.14	0.122
14	1.12	0.853
Std Dev	1.12	1.000
14	1.12	1.096
9	1.11	1.340
43	1.09	2.558
43	1.08	2.802

241.99 Lab	$\%Fe_2O_3$	Acid Soluble Iron Other
34	1.17	0.000
Median	1.17	0.000

241.XX Lab	$\%Fe_2O_3$	Acid Soluble Iron Total Method
32	1.23	-4.264
32	1.21	-3.289
34	1.17	-1.584
Std Dev	1.16	-1.000

24	1.15	-0.609
61	1.15	-0.365
23	1.14	-0.122
24	1.14	-0.122
61	1.14	-0.122
Median	1.14	0.000
23	1.14	0.122
31	1.14	0.122
219	1.13	0.244
14	1.12	0.853
Std Dev	1.12	1.000
14	1.12	1.096
9	1.11	1.340
43	1.09	2.558
43	1.08	2.802

251.30		Total Lead
Lab	PPM	ICP
43	4.15	-1.047
43	4.10	-1.005
Std Dev	4.09	-1.000
9	2.90	0.000
Median	2.90	0.000
61	2.50	0.335
61	2.00	0.754

251.99		Total Lead
Lab		Other
24	1.63	0.000
Median	1.63	0.000

251.XX		Total Lead
Lab	PPM	Total Method
43	4.15	-1.160
43	4.10	-1.120
Std Dev	3.95	-1.000
9	2.90	-0.160
Median	2.70	0.000
61	2.50	0.160
61	2.00	0.560
24	1.63	0.856

261.11		Acid Soluble Manganese
Lab		Atomic Absorption
219	193.05	0.000
Median	193.05	0.000

261.30		Acid Soluble Manganese
Lab		ICP
31	188.30	-0.348
9	187.45	0.000
Median	187.45	0.000
Std Dev	185.01	1.000
18	181.75	2.332

261.99		Acid Soluble Manganese
Lab	PPM	Other
43	201.00	-1.137
43	201.00	-1.137
Std Dev	199.31	-1.000
61	187.00	0.000
Median	187.00	0.000
61	184.50	0.203
24	178.00	0.731

261.XX		Acid Soluble Manganese
Lab	PPM	Total Method
43	201.00	-2.124
43	201.00	-2.124
Std Dev	193.83	-1.000
219	193.05	-0.878
31	188.30	-0.133
9	187.45	0.000
Median	187.45	0.000
61	187.00	0.071
61	184.50	0.462
18	181.75	0.893
Std Dev	181.07	1.000
24	178.00	1.481

281.00		Total Mercury
Lab	PPM	Atomic Absorbtion
275	0.01	0.000
Median	0.01	0.000

281.30		Total Mercury
Lab	PPM	ICP
24	0.05	0.000
Median	0.05	0.000

281.XX		Total Mercury
Lab	PPM	Total Method
24	0.05	-1.340
Std Dev	0.05	-1.000
Median	0.03	0.000
Std Dev	0.02	1.000
275	0.01	1.340

289.30		Total Molybdenum
Lab	PPM	ICP
18		

289.99		Total Molybdenum
Lab	PPM	Other
24	18.00	0.000
Median	18.00	0.000

289.XX		Total Molybdenum
Lab	PPM	Total Method
24	18.00	-2.132
Std Dev	17.07	-1.000
18	16.90	-0.792
61	16.50	-0.305
Median	16.25	0.000
61	16.00	0.305
43	15.60	0.792
43	15.55	0.853

291.30		Total Nickel
Lab		ICP
61		

291.99		Total Nickel
Lab	PPM	Other
24	260.00	-1.340
Std Dev	259.05	-1.000
Median	256.28	0.000
Std Dev	253.50	1.000
18	252.55	1.340

291.XX		Total Nickel
Lab	PPM	Total Method

301.30		Total Selenium
Lab	PPM	ICP
24	0.33	-2.042
Std Dev	0.29	-1.000
61	0.25	0.000
Median	0.25	0.000
61	0.23	0.638

301.XX		Total Selenium
Lab	PPM	Total Mthod
24	0.33	-2.042
Std Dev	0.29	-1.000
61	0.25	0.000
Median	0.25	0.000
61	0.23	0.638

311.99		Sodium
Lab	$\%Na_2O$	Other
61	0.21	-1.621
61	0.20	-1.418
Std Dev	0.19	-1.000
24	0.18	-0.608
24	0.17	-0.203
Median	0.17	0.000
23	0.16	0.203
23	0.16	0.203
Std Dev	0.14	1.000
43	0.13	1.511
43	0.13	1.547

311.XX		Sodium
Lab	$\%Na_2O$	Total Method
61	0.21	-1.621
61	0.20	-1.418
Std Dev	0.19	-1.000
24	0.18	-0.608
24	0.17	-0.203
Median	0.17	0.000
23	0.16	0.203
23	0.16	0.203
Std Dev	0.14	1.000
43	0.13	1.511
43	0.13	1.547

321.00		Acid Soluble Zinc
Lab		Atomic Absorption
219	1808.50	0.000
Median	1808.50	0.000

321.30		Acid Soluble Zinc
Lab	PPM	ICP
24	1887.00	-1.496
Std Dev	1860.23	-1.000
275	1833.06	-0.496
Median	1806.28	0.000
61	1779.50	0.496
61	1758.50	0.886

321.99		Acid Soluble Zinc
Lab		Other
43	1683.50	-1.340
Std Dev	1682.99	-1.000
Median	1681.50	0.000
Std Dev	1680.01	1.000
43	1679.50	1.340

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
24	1887.00	-1.444
Std Dev	1853.96	-1.000
275	1833.06	-0.719
219	1808.50	-0.389
61	1779.50	0.000
Median	1779.50	0.000
61	1758.50	0.282
Std Dev	1705.04	1.000
43	1683.50	1.289
43	1679.50	1.343

325.10		Fluoride
Lab	%	Electrode
32	1.68	-1.864
32	1.66	-1.678
9	1.56	-0.746
24	1.53	-0.466
24	1.49	-0.093
Median	1.48	0.000
23	1.47	0.093
23	1.47	0.140
31	1.39	0.839
14	1.32	1.538
14	1.31	1.631

325.99		Fluoride
Lab	%	Other
61	1.68	-0.322
61	1.65	0.000
Median	1.65	0.000
34	1.43	2.358

325.XX		Fluoride
Lab	%	Total Method
32	1.68	-1.157
61	1.68	-1.157
32	1.66	-1.035
61	1.65	-0.975
9	1.56	-0.426
24	1.53	-0.244
24	1.49	0.000
Median	1.49	0.000
23	1.47	0.122
23	1.47	0.152
34	1.43	0.365
31	1.39	0.609
14	1.32	1.066
14	1.31	1.127

291.XX		Total Nickel	
Lab	PPM	Total Method	
61	263		
StDev	260.45		
24	260		
9	258.35		
43	256		Median
43	256		
18	252.55		
61	251.5		