

AFPC

Sample

2015-11

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	17.66	0.00
Ammoniacal Nitrogen, Other		001.99	8	17.38	0.17
Method Group 001.XX PCT			9	17.42	0.20
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	18.18	0.05
Total Nitrogen, Salicylic	955.04d	010.12	1	18.18	0.00
Total Nitrogen, Combustion	993.13	010.60	23	18.22	0.17
Total Nitrogen, Other		010.99	6	18.02	0.24
Method Group 010.XX PCT			33	18.18	0.17
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.80	0.20
Total Phosphate, Spectrometric	978.02	020.20	22	46.75	0.16
Total Phosphate, ICP	970.03	020.40	1	46.21	0.00
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.58	0.00
Method Group 020.XX PCT			26	46.73	0.26
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.23	0.05
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.10	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.27	0.03
Insoluble Phosphate, Other		030.99	2	0.12	0.00
Method Group 030.XX PCT			12	0.23	0.08
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	46.44	0.16
Indirect Available Phosphate, Other		040.99	1	46.50	0.00
Method Group 040.XX PCT			10	46.47	0.19
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	1	46.48	0.00
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	46.14	0.00
Direct Available Phosphate, Automated	978.01	041.40	2	45.99	0.53
Direct Available Phosphate, ICP		041.50	5	46.55	0.84
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	46.40	0.41
Direct Available Phosphate, Other		041.99	3	45.46	1.95
Method Group 041.XX PCT			17	46.40	1.13
POLYPHOSPHATE (% of total)					
Polyphosphate, Other		043.99	1	1.03	0.00
Method Group 043.XX PCT			1	1.03	0.00
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	41.57	0.24
Water Soluble Phosphate, Other		048.99	4	41.34	0.41
Method Group 048.XX PCT			18	41.52	0.31
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.24	0.01
Soluble Potash, ICP(Citrate)		050.51	1	0.17	0.00
Soluble Potash, Other		050.99	8	0.23	0.02
Method Group 050.XX PCT			12	0.23	0.02
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	13	1.48	0.23
Free Water, Other		060.99	5	1.44	0.19
Method Group 060.XX PCT			18	1.47	0.29
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.11	0.00
Acid Soluble Calcium, ICP		101.30	18	0.18	0.05
Method Group 101.XX PCT			19	0.17	0.06
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.19	0.00

Acid Soluble Magnesium, ICP	121.30	18	1.18	0.05	
Method Group 121.XX PCT		19	1.18	0.06	
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	2	2.07	0.01
Sulfur, Spectrometric		144.70	2	2.09	0.00
Sulfur, Other		144.99	13	2.03	0.04
Method Group 144.XX PCT			17	2.04	0.06
TOTAL SULFUR (S)					
Sulfur, Other		145.99	3	2.16	0.1
Method Group 145.XX PCT			3	2.16	0.1
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	6	11.3	2.7
Total Arsenic, Other		151.99	3	12.4	0.2
Method Group 151.XX PPM			9	12.1	2.0
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	69	0.0
Method Group 165.XX PPM			1	69	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	8	19.9	1.2
Total Cadmium, Other		181.99	1	18.5	0.0
Method Group 181.XX PPM			9	19.8	1.0
ALUMINUM AS Al₂O₃					
ICP, %			16	1.31	0.09
Water Soluble Chlorine, Other, %		190.99	2	1.28	0.01
Method Group 190.XX PCT			18	1.30	0.10
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	9	178	4.7
Total Chromium, Other		191.99	1	170	0.0
Method Group 191.XX PPM			10	178	9.5
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	3	0.4
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			6	3	0.7
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	6	1.4	1.6
Acid Soluble Copper, Other		221.99	1	0.0	0.0
Method Group 221.XX PPM			7	3.0	2.5
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	18	1.17	0.04
Method Group 241.XX PCT			19	1.18	0.05
TOTAL LEAD					
Total Lead, ICP		251.30	5	1	0.5
Total Lead, Other		251.99	1	0.2	0.0
Method Group 251.XX PPM			6	1	1.0
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	2	264	18.2
Acid Soluble Manganese, Other		261.99	6	252	11.7
Method Group 261.XX PPM			8	252	15.8
TOTAL MERCURY					
Total Mercury, ICP		281.30	1	0.00	0.00
Method Group 281.XX PPM			1	0.38	0.00
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	6	17	2.0
Total Molybdenum, Other		289.99	1	21	0.0
Method Group 289.XX PPM			7	18	2.3
TOTAL NICKEL					
Total Nickel, ICP		291.30	7	15.0	0.7
Total Nickel, icp		291.99	1	16.5	0.0
Method Group 291.XX PPM			8	15.2	1.4
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	0.9	0.0

Total Selenium, Other	301.99	2	0	0.0
Method Group 301.XX PPM		3	0.1	0.4
SODIUM AS Na₂O				
Sodium, Other	311.99	9	0.29	0.03
Method Group 311.XX PCT		9	0.29	0.04
ACID SOLUBLE ZINC				
Acid Soluble Zinc, Atomic Absorption	975.02 321.00	1	239.9	0.0
Acid Soluble Zinc, ICP	321.30	5	243.5	12.0
Acid Soluble Zinc, Other	321.99	2	231.3	0.6
Method Group 321.XX %		8	238.2	9.5
FLUORIDE				
Volumetric	325.10	13	0.70	0.06
Distilled/Electrode	325.99	2	0.71	0.01
Method Group 325.XX PCT		15	0.70	0.06

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	17.66	0.000
Median	17.66	0.000

001.99 Ammoniacal Nitrogen		
Lab	Other	
34	17.48	-0.625
24	17.47	-0.536
24	17.44	-0.387
79	17.42	-0.268
Median	17.38	0.000
32	17.33	0.268
32	17.25	0.774
Std Dev	17.21	1.000
310	17.15	1.340
38	16.92	2.710

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
31	17.66	-1.462
Std Dev	17.58	-1.000
34	17.48	-0.365
24	17.47	-0.274
24	17.44	-0.122
79	17.42	0.000
Median	17.42	0.000
32	17.33	0.548
Std Dev	17.26	1.000
32	17.25	1.066
310	17.15	1.645
38	16.92	3.045

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
219	18.25	-1.489
Std Dev	18.23	-1.000
43	18.18	0.000
Median	18.18	0.000
Std Dev	18.12	1.000
43	18.12	1.191

010.12 Total Nitrogen		
Lab	Salicylic	

107	18.18	0.000
Median	18.18	0.000

010.60 Total Nitrogen		
Lab	Combustion	
110	18.75	-3.192
80	18.55	-1.987
Std Dev	18.39	-1.000
47	18.36	-0.828
29	18.35	-0.783
39	18.34	-0.702
49	18.31	-0.512
219	18.27	-0.271
61	18.26	-0.241
66	18.24	-0.120
63	18.24	-0.120
61	18.22	0.000
79	18.22	0.000
Median	18.22	0.000
24	18.18	0.241
14	18.14	0.512
14	18.13	0.542
64	18.11	0.662
137	18.07	0.933
9	18.06	0.964
99	18.06	0.994
Std Dev	18.05	1.000
24	18.05	1.054
77	17.98	1.445
111	17.87	2.138
103	17.83	2.379

010.99 Total Nitrogen		
Lab	Other	
32	18.24	-0.907
32	18.21	-0.783
23	18.07	-0.206
Median	18.02	0.000
23	17.97	0.206
275	17.81	0.866
Std Dev	17.78	1.000
275	17.72	1.237

010.XX Total Nitrogen		
Lab	Total Method	
110	18.75	-4.020
80	18.55	-2.609
47	18.36	-1.252
29	18.35	-1.199
39	18.34	-1.104
Std Dev	18.32	-1.000
49	18.31	-0.882
219	18.27	-0.599
61	18.26	-0.564
219	18.25	-0.494
32	18.24	-0.423
66	18.24	-0.423
63	18.24	-0.423
61	18.22	-0.282
79	18.22	-0.282
32	18.21	-0.212
24	18.18	0.000
107	18.18	0.000
Median	18.18	0.000
43	18.18	0.035
14	18.14	0.317
14	18.13	0.353
43	18.12	0.458
64	18.11	0.494
23	18.07	0.776
137	18.07	0.811
9	18.06	0.846
99	18.06	0.882
24	18.05	0.952
Std Dev	18.04	1.000
77	17.98	1.411
23	17.97	1.481
111	17.87	2.222
103	17.83	2.504
275	17.81	2.609
275	17.72	3.244

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
310	47.07	-1.340
Std Dev	47.00	-1.000
Median	46.80	0.000

Std Dev	46.60	1.000
241	46.53	1.340

020.20 Total Phosphate		
Lab	Spectrometric	
43	46.95	-1.188
275	46.94	-1.127
Std Dev	46.91	-1.000
14	46.91	-0.975
61	46.88	-0.761
43	46.86	-0.640
275	46.83	-0.487
14	46.83	-0.457
61	46.81	-0.365
24	46.80	-0.274
34	46.79	-0.244
111	46.77	-0.122
Median	46.75	0.000
9	46.73	0.122
32	46.73	0.122
32	46.72	0.183
24	46.64	0.670
99	46.64	0.700
110	46.60	0.914
Std Dev	46.59	1.000
79	46.54	1.310
23	46.46	1.766
23	46.42	2.010
31	46.42	2.040
38	44.98	10.811

020.40 Total Phosphate		
Lab	Automated	
137	46.21	0.000
Median	46.21	0.000

020.50 Total Phosphate		
Lab	ICP	
111	46.58	0.000
Median	46.58	0.000

020.XX Total Phosphate		
Lab	Total Method	
310	47.07	-1.613

43	46.95	-1.020
Std Dev	46.94	-1.000
275	46.94	-0.972
14	46.91	-0.854
61	46.88	-0.688
43	46.86	-0.593
275	46.83	-0.474
14	46.83	-0.451
61	46.81	-0.379
24	46.80	-0.308
34	46.79	-0.285
111	46.77	-0.190
9	46.73	0.000
32	46.73	0.000
Median	46.73	0.000
32	46.72	0.047
24	46.64	0.427
99	46.64	0.451
110	46.60	0.617
111	46.58	0.712
79	46.54	0.925
241	46.53	0.949
Std Dev	46.52	1.000
23	46.46	1.281
23	46.42	1.470
31	46.42	1.494
137	46.21	2.467
38	44.98	8.325

030.20 Insoluble Phosphate		
Lab		Spectrometric
61	0.32	-1.787
61	0.31	-1.588
Std Dev	0.28	-1.000
79	0.26	-0.496
23	0.23	0.000
Median	0.23	0.000
24	0.23	0.099
23	0.21	0.496
24	0.20	0.596

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.10	0.000

Median	0.10	0.000
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030.40 Insoluble Phosphate		
Lab		Automated
34	0.30	-1.340
Std Dev	0.29	-1.000
Median	0.27	0.000
Std Dev	0.24	1.000
9	0.23	1.340

030.99 Insoluble Phosphate		
Lab		Other
32	0.13	-1.340
Std Dev	0.12	-1.000
Median	0.12	0.000
Std Dev	0.12	1.000
32	0.12	1.340

030.XX Insoluble Phosphate		
Lab		Total Method
61	0.32	-1.458
61	0.31	-1.301
34	0.30	-1.143
Std Dev	0.29	-1.000
79	0.26	-0.434
9	0.23	-0.039
23	0.23	-0.039
Median	0.23	0.000
24	0.23	0.039
23	0.21	0.355
24	0.20	0.434
Std Dev	0.16	1.000
32	0.13	1.616
32	0.12	1.695
31	0.10	2.010

040.20 Indirect Available Phosphate		
Lab		Spectrometric
24	46.57	-0.792
61	46.54	-0.579
9	46.50	-0.365
61	46.49	-0.305
24	46.44	0.000
Median	46.44	0.000

31	46.32	0.731
79	46.28	0.975
Std Dev	46.28	1.000
23	46.23	1.279
23	46.22	1.370

040.99 Indirect Available Phosphate		
Lab		Other
34	46.50	0.000
Median	46.50	0.000

040.XX Indirect Available Phosphate		
Lab		Total Method
24	46.57	-0.670
61	46.54	-0.447
9	46.50	-0.223
34	46.50	-0.223
61	46.49	-0.160
Median	46.47	0.000
24	46.44	0.160
31	46.32	0.925
Std Dev	46.31	1.000
79	46.28	1.180
23	46.23	1.500
23	46.22	1.595

041.10 Direct Available Phosphate		
Lab		Gravimetric Quimociac
107	46.48	0.000
Median	46.48	0.000

041.20 Direct Available Phosphate		
Lab		Spectrometric
47	46.14	0.000
Median	46.14	0.000

041.40 Direct Available Phosphate		
Lab		Automated
49	46.71	-1.340
Std Dev	46.52	-1.000
Median	45.99	0.000
Std Dev	45.46	1.000
38	45.28	1.340

041.50 Direct Available Phosphate		
Lab		ICP
47	47.15	-0.718
63	46.94	-0.467
64	46.55	0.000
Median	46.55	0.000
66	45.82	0.873
Std Dev	45.71	1.000
80	42.60	4.726

041.60 Direct Available Phosphate		
Lab		EDTA Extract
29	47.09	-1.714
Std Dev	46.80	-1.000
219	46.42	-0.049
77	46.40	0.000
Median	46.40	0.000
Std Dev	45.99	1.000
137	45.87	1.291
103	44.87	3.762

041.99 Direct Available Phosphate		
Lab		Other
39	50.68	-2.678
Std Dev	47.41	-1.000
275	45.46	0.000
Median	45.46	0.000
275	45.46	0.002

041.XX Direct Available Phosphate		
Lab		Total Method
39	50.68	-4.623
Std Dev	47.32	-1.000
47	47.15	-0.815
29	47.09	-0.752
63	46.94	-0.588
49	46.71	-0.334
64	46.55	-0.167
107	46.48	-0.092
219	46.42	-0.022
77	46.40	0.000
Median	46.40	0.000
47	46.14	0.275
137	45.87	0.566

66	45.82	0.620
Std Dev	45.47	1.000
275	45.46	1.006
275	45.46	1.009
38	45.28	1.202
103	44.87	1.651
80	42.60	4.094

043.99 Polyphosphate		
Lab		Other
31	1.03	0.000
Median	1.03	0.000

043.XX Polyphosphate		
Lab		Total Method
31	1.03	0.000
Median	1.03	0.000

048.20 Water Soluble Phosphate		
Lab		Spectrometric
31	41.92	-1.467
9	41.87	-1.277
Std Dev	41.80	-1.000
79	41.78	-0.876
24	41.68	-0.475
61	41.59	-0.074
23	41.59	-0.074
23	41.59	-0.074
Median	41.57	0.000
24	41.55	0.074
61	41.51	0.243
14	41.41	0.665
Std Dev	41.33	1.000
14	41.32	1.066
275	40.86	3.001
275	40.39	4.959
111	39.86	7.206

048.99 Water Soluble Phosphate		
Lab		Other
34	41.52	-0.451
32	41.46	-0.292
Median	41.34	0.000
32	41.22	0.292

Std Dev	40.92	1.000
111	40.04	3.155

048.XX Water Soluble Phosphate		
Lab		Total Method
31	41.92	-1.554
9	41.87	-1.379
79	41.78	-1.010
Std Dev	41.77	-1.000
24	41.68	-0.641
61	41.59	-0.272
23	41.59	-0.272
23	41.59	-0.272
24	41.55	-0.136
34	41.52	-0.019
Median	41.52	0.000
61	41.51	0.019
32	41.46	0.233
14	41.41	0.408
14	41.32	0.777
Std Dev	41.26	1.000
32	41.22	1.165
275	40.86	2.558
275	40.39	4.360
111	40.04	5.729
111	39.86	6.428

050.50 %K ₂ O Soluble Potash		
Lab		ICP(Oxalate)
23	0.24	0.000
23	0.24	0.000
Median	0.24	0.000
Std Dev	0.23	1.000
99	0.21	2.680

050.51 %K ₂ O Soluble Potash		
Lab		ICP(Citrate)
137	0.17	0.000
Median	0.17	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
61	0.26	-1.372
80	0.25	-1.093

Std Dev	0.25	-1.000
61	0.25	-0.814
24	0.24	-0.256
Median	0.23	0.000
43	0.23	0.256
43	0.22	0.414
24	0.22	0.580
Std Dev	0.21	1.000
111	0.18	3.091

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
61	0.26	-1.388
80	0.25	-1.106
Std Dev	0.25	-1.000
61	0.25	-0.824
23	0.24	-0.542
23	0.24	-0.542
24	0.24	-0.259
Median	0.23	0.000
43	0.23	0.259
43	0.22	0.419
24	0.22	0.587
Std Dev	0.21	1.000
99	0.21	1.151
111	0.18	3.126
137	0.17	3.408

060.00 Free Water		
Lab		Vacuum Oven
61	6.37	-21.116
61	6.11	-19.992
31	2.90	-6.138
9	1.75	-1.145
Std Dev	1.71	-1.000
32	1.61	-0.562
23	1.50	-0.065
24	1.48	0.000
32	1.48	0.000
Median	1.48	0.000
23	1.45	0.130
24	1.44	0.195
79	1.38	0.432
111	1.38	0.454

Std Dev	1.25	1.000
34	1.23	1.081

060.99 Free Water		
Lab		Other
47	7.90	-33.973
Std Dev	1.63	-1.000
275	1.45	-0.053
275	1.44	0.000
Median	1.44	0.000
Std Dev	1.24	1.000
14	1.19	1.287
14	1.19	1.287

060.XX Free Water		
Lab		Total Method
47	7.90	-27.159
61	6.37	-20.680
61	6.11	-19.583
31	2.90	-6.056
9	1.75	-1.182
Std Dev	1.70	-1.000
32	1.61	-0.612
23	1.50	-0.127
24	1.48	-0.063
32	1.48	-0.063
Median	1.47	0.000
23	1.45	0.063
275	1.45	0.084
24	1.44	0.127
275	1.44	0.127
79	1.38	0.359
111	1.38	0.380
34	1.23	0.992
Std Dev	1.23	1.000
14	1.19	1.161
14	1.19	1.161

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.11	0.000
Median	0.11	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
61	0.31	-2.781
31	0.30	-2.647
61	0.29	-2.266
32	0.24	-1.235
Std Dev	0.22	-1.000
24	0.22	-0.823
14	0.21	-0.616
14	0.20	-0.513
275	0.19	-0.275
275	0.18	-0.105
Median	0.18	0.000
24	0.17	0.105
32	0.17	0.105
34	0.17	0.105
111	0.16	0.414
9	0.15	0.621
43	0.14	0.689
43	0.14	0.728
Std Dev	0.13	1.000
23	0.12	1.136
23	0.12	1.136

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
61	0.31	-2.814
31	0.30	-2.683
61	0.29	-2.312
32	0.24	-1.307
Std Dev	0.22	-1.000
24	0.22	-0.905
14	0.21	-0.704
14	0.20	-0.603
275	0.19	-0.371
275	0.18	-0.205
24	0.17	0.000
32	0.17	0.000
34	0.17	0.000
Median	0.17	0.000
111	0.16	0.302
9	0.15	0.503
43	0.14	0.569
43	0.14	0.607

Std Dev	0.12	1.000
23	0.12	1.005
23	0.12	1.005
219	0.11	1.196

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	1.19	0.000
Median	1.19	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
31	1.47	-5.451
Std Dev	1.23	-1.000
24	1.23	-0.940
32	1.22	-0.846
32	1.22	-0.752
61	1.21	-0.658
275	1.21	-0.567
24	1.21	-0.564
275	1.19	-0.213
34	1.18	-0.094
Median	1.18	0.000
23	1.17	0.094
23	1.17	0.094
9	1.15	0.564
61	1.15	0.564
14	1.14	0.752
14	1.13	0.940
Std Dev	1.12	1.000
43	1.06	2.162
43	1.05	2.350
111	1.05	2.444

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
31	1.47	-5.651
Std Dev	1.23	-1.000
24	1.23	-0.892
32	1.22	-0.793
32	1.22	-0.694
61	1.21	-0.595
275	1.21	-0.499
24	1.21	-0.496

219	1.19	-0.178
275	1.19	-0.126
34	1.18	0.000
Median	1.18	0.000
23	1.17	0.198
23	1.17	0.198
9	1.15	0.694
61	1.15	0.694
14	1.14	0.892
Std Dev	1.13	1.000
14	1.13	1.091
43	1.06	2.380
43	1.05	2.578
111	1.05	2.677

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
241	2.09	-1.340
Std Dev	2.08	-1.000
Median	2.07	0.000
Std Dev	2.06	1.000
79	2.05	1.340

144.70 Sulfur		
Lab	Spectrometric	
14	2.09	-1.340
Std Dev	2.09	-1.000
Median	2.09	0.000
Std Dev	2.08	1.000
14	2.08	1.340

144.99 Sulfate Sulfur (S)		
Lab	Other	
23	2.11	-1.898
23	2.11	-1.898
Std Dev	2.07	-1.000
32	2.06	-0.782
32	2.06	-0.782
34	2.04	-0.335
61	2.03	-0.112
24	2.03	0.000
61	2.03	0.000
Median	2.03	0.000
9	2.01	0.335

24	2.00	0.558
Std Dev	1.98	1.000
275	1.92	2.403
275	1.92	2.430
31	1.04	22.110

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
23	2.11	-1.340
23	2.11	-1.340
Std Dev	2.09	-1.000
14	2.09	-0.957
241	2.09	-0.957
14	2.08	-0.766
32	2.06	-0.383
32	2.06	-0.383
79	2.05	-0.191
34	2.04	0.000
Median	2.04	0.000
61	2.03	0.191
24	2.03	0.287
61	2.03	0.287
9	2.01	0.574
24	2.00	0.766
Std Dev	1.99	1.000
275	1.92	2.347
275	1.92	2.370
31	1.04	19.239

145.99 Total Sulfur (S)		
Lab	Other	
43	2.18	-0.381
43	2.16	0.000
Median	2.16	0.000
Std Dev	2.08	1.000
111	1.99	2.299

145.XX Total Sulfur (S)		
Lab	Total Method	
43	2.18	-0.381
43	2.16	0.000
Median	2.16	0.000
Std Dev	2.08	1.000
111	1.99	2.299

151.30 Total Arsenic		
Lab	ICP	
275	13.63	-0.882
31	13.15	-0.703
24	12.10	-0.308
Median	11.28	0.000
275	10.47	0.308
43	8.95	0.878
Std Dev	8.63	1.000
43	7.65	1.368

151.99 Total Arsenic		
Lab	Other	
61	12.65	-1.237
Std Dev	12.59	-1.000
61	12.35	0.000
Median	12.35	0.000
Std Dev	12.11	1.000
64	12.00	1.443

151.XX Total Arsenic		
Lab	Total Method	
275	13.63	-0.935
31	13.15	-0.644
61	12.65	-0.337
61	12.35	-0.153
24	12.10	0.000
Median	12.10	0.000
64	12.00	0.061
Std Dev	10.47	1.000
275	10.47	1.003
43	8.95	1.932
43	7.65	2.729

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	68.60	0.000
Median	68.60	0.000

65.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	68.60	0.000
Median	68.60	0.000

181.30 Total Cadmium			
Lab	PPM	ICP	
275	25.01		-4.379
275	22.09		-1.887
Std Dev	21.05		-1.000
43	20.07		-0.160
43	19.98		-0.083
Median	19.88		0.000
64	19.78		0.083
61	19.00		0.748
61	19.00		0.748
Std Dev	18.70		1.000
111	2.50		14.820

181.99 Total Cadmium		
Lab	Other	
24	18.50	0.000
Median	18.50	0.000

181.XX Total Cadmium			
Lab	PPM	Total Method	
275	25.01		-6.584
275	22.09		-2.906
Std Dev	20.57		-1.000
43	20.07		-0.359
43	19.98		-0.245
64	19.78		0.000
Median	19.78		0.000
61	19.00		0.981
61	19.00		0.981
Std Dev	18.99		1.000
24	18.50		1.611
111	2.50		21.742

190.00 Aluminum			
Lab	%Al ₂ O ₃	ICP	
275	2.58		-14.320
275	2.56		-14.066
32	1.41		-1.072
32	1.41		-1.072
14	1.40		-1.016
Std Dev	1.40		-1.000
9	1.37		-0.621

14	1.37	-0.621
24	1.31	0.000
34	1.31	0.000
Median	1.31	0.000
23	1.30	0.169
23	1.29	0.226
61	1.29	0.282
24	1.28	0.395
43	1.26	0.564
43	1.26	0.621
Std Dev	1.22	1.000
111	0.85	5.247

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.29	-1.340
Std Dev	1.28	-1.000
Median	1.28	0.000
Std Dev	1.27	1.000
61	1.27	1.340

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
275	2.58	-15.037
275	2.56	-14.772
32	1.41	-1.207
32	1.41	-1.207
14	1.40	-1.149
Std Dev	1.39	-1.000
9	1.37	-0.736
14	1.37	-0.736
24	1.31	-0.088
34	1.31	-0.088
Median	1.30	0.000
23	1.30	0.088
23	1.29	0.147
31	1.29	0.206
61	1.29	0.206
24	1.28	0.324
61	1.27	0.383
43	1.26	0.501
43	1.26	0.560
Std Dev	1.22	1.000
111	0.85	5.389

191.30 Total Chromium		
Lab	ICP	
43	187.50	-1.977
43	185.50	-1.554
Std Dev	182.88	-1.000
275	182.34	-0.884
64	179.37	-0.257
275	178.16	0.000
Median	178.16	0.000
61	178.00	0.033
61	176.00	0.456
Std Dev	173.43	1.000
111	166.50	2.465
31	111.20	14.163

191.99 Total Chromium		
Lab	PPM	Other
24	169.50	0.000
Median	169.50	0.000

191.XX Total Chromium			
Lab	PPM	Total Method	
43	187.50		-1.206
Std Dev	185.89		-1.000
43	185.50		-0.950
275	182.34		-0.545
64	179.37		-0.165
275	178.16		-0.010
Median	178.08		0.000
61	178.00		0.010
61	176.00		0.266
Std Dev	170.27		1.000
24	169.50		1.098
111	166.50		1.482
31	111.20		8.560

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
43		

202.99 Acid Soluble Cobalt		
Lab	Other	
24	2.19	0.000
Median	2.19	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
43	3.00	-0.455
43	3.00	-0.455
64	3.00	-0.455
Median	2.75	0.000
61	2.50	0.455
Std Dev	2.20	1.000
24	2.19	1.028
61	2.05	1.274

221.00	Acid Soluble Copper	
Lab	PPM	Atomic Absorption
219	1.24	0.000
Median	1.24	0.000

221.30	Acid Soluble Copper	
Lab	PPM	ICP
43	4.00	-1.652
43	3.00	-1.028
Std Dev	2.95	-1.000
61	1.35	0.000
Median	1.35	0.000
61	0.85	0.312
111	0.50	0.530

221.99	Acid Soluble Copper	
Lab	PPM	Other
24	3.75	0.000
Median	3.75	0.000

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
219	4.30	-0.629
43	4.00	-0.483
24	3.75	-0.360
43	3.00	0.000
Median	3.00	0.000
61	1.35	0.797
Std Dev	0.93	1.000
61	0.85	1.039
111	0.50	1.208

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP
31	1.73	-14.102
275	1.27	-2.416
275	1.27	-2.372
32	1.22	-1.085
Std Dev	1.21	-1.000
32	1.21	-0.957
24	1.21	-0.830
24	1.20	-0.574
34	1.19	-0.447
14	1.18	-0.191
Median	1.17	0.000

23	1.17	0.191
23	1.17	0.191
14	1.16	0.319
61	1.16	0.319
61	1.16	0.447
9	1.15	0.574
111	1.14	0.957
Std Dev	1.13	1.000
43	1.12	1.340
43	1.10	1.850

241.XX	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Total Method
31	1.73	-13.278
275	1.27	-2.123
275	1.27	-2.082
219	1.24	-1.364
Std Dev	1.22	-1.000
32	1.22	-0.853
32	1.21	-0.731
24	1.21	-0.609
24	1.20	-0.365
34	1.19	-0.244
14	1.18	0.000
Median	1.18	0.000
23	1.17	0.365
23	1.17	0.365
14	1.16	0.487
61	1.16	0.487
61	1.16	0.609
9	1.15	0.731

Std Dev	1.14	1.000
111	1.14	1.096
43	1.12	1.462
43	1.10	1.949

251.30	Total Lead	
Lab	PPM	ICP
61	<1.2	0.000
61	<1.2	0.000
275	2.15	-2.256
275	1.69	-1.340
Std Dev	1.51	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
111	0.00	1.956

251.99	Total Lead	
Lab	PPM	Other
24	0.22	0.000
Median	0.22	0.000

251.XX	Total Lead	
Lab	PPM	Total Method
61	<1.2	0.000
61	<1.2	0.000
275	2.15	-1.402
Std Dev	1.82	-1.000
275	1.69	-0.833
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
24	0.22	0.954
111	0.00	1.215

261.30	Acid Soluble Manganese	
Lab	PPM	ICP
31	288.20	-1.340
Std Dev	282.02	-1.000
Median	263.85	0.000
Std Dev	245.68	1.000
111	239.50	1.340

261.99	Acid Soluble Manganese	
Lab	PPM	Other
219	261.20	-0.810
43	259.50	-0.665
43	259.00	-0.622
Median	251.75	0.000
61	244.50	0.622
24	243.50	0.708
Std Dev	240.09	1.000
61	232.50	1.651

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
31	288.20	-2.803
Std Dev	264.75	-1.000
219	261.20	-0.727
43	259.50	-0.596
43	259.00	-0.558
Median	251.75	0.000
61	244.50	0.558
24	243.50	0.634
111	239.50	0.942
Std Dev	238.75	1.000
61	232.50	1.480

281.30	Total Mercury	
Lab	PPM	ICP
24	0.38	0.000
Median	0.38	0.000

281.XX	Total Mercury	
Lab	PPM	Total Method
24	0.38	0.000
Median	0.38	0.000

289.30	Total Molybdenum	
Lab	PPM	ICP
64		

289.99	Total Molybdenum	
Lab	PPM	Other
24	21.30	0.000
Median	21.30	0.000

289.XX		Total Molybdenum	
Lab	PPM	Total Method	
24	21.30	-1.869	
Std Dev	19.65	-1.000	
64	18.79	-0.548	
43	17.80	-0.026	
43	17.75	0.000	
Median	17.75	0.000	
61	17.00	0.395	
Std Dev	15.85	1.000	
61	14.50	1.711	
111	1.50	8.556	

291.30		Total Nickel	
Lab	PPM	ICP	
275			

291.99		Total Nickel	
Lab	PPM	Other	
24	16.50	0.000	
Median	16.50	0.000	

291.XX		Total Nickel	
Lab	PPM	Total Method	
275	19.93	-4.212	
275	16.53	-1.183	
24	16.50	-1.161	
Std Dev	16.32	-1.000	
64	15.39	-0.173	
Median	15.20	0.000	
43	15.00	0.173	
43	15.00	0.173	
61	15.00	0.173	
61	14.50	0.618	

301.30		Total Selenium	
Lab	PPM	ICP	
24	0.86	0.000	
Median	0.86	0.000	

301.99		Total Selenium	
Lab	PPM	Other	
61	0.06	-1.340	
Std Dev	0.05	-1.000	
Median	0.05	0.000	

Std Dev	0.04	1.000
61	0.04	1.340

301.XX		Total Selenium	
Lab	PPM	Total Method	
24	0.86	-2.631	
Std Dev	0.36	-1.000	
61	0.06	0.000	
Median	0.06	0.000	
61	0.04	0.049	

311.99		Sodium	
Lab	%Na ₂ O	Other	
24	0.31	-0.857	
23	0.31	-0.686	
23	0.30	-0.343	
61	0.29	0.000	
111	0.29	0.000	
Median	0.29	0.000	
61	0.28	0.343	
43	0.26	0.997	
Std Dev	0.26	1.000	
24	0.26	1.029	
43	0.25	1.092	

311.XX		Sodium	
Lab	%Na ₂ O	Total Method	
24	0.31	-0.857	
23	0.31	-0.686	
23	0.30	-0.343	
61	0.29	0.000	
111	0.29	0.000	
Median	0.29	0.000	
61	0.28	0.343	
43	0.26	0.997	
Std Dev	0.26	1.000	
24	0.26	1.029	
43	0.25	1.092	

321.00		Acid Soluble Zinc	
Lab	PPM	Atomic Absorption	
219	239.85	0.000	
Median	239.85	0.000	

321.30		Acid Soluble Zinc	
Lab	PPM	ICP	
111	285.50	-3.487	
Std Dev	255.54	-1.000	
64	252.64	-0.759	
24	243.50	0.000	
Median	243.50	0.000	
61	236.50	0.581	
61	236.50	0.581	

321.99		Acid Soluble Zinc	
Lab	PPM	Other	
43	232.00	-1.340	
Std Dev	231.81	-1.000	
Median	231.25	0.000	
Std Dev	230.69	1.000	
43	230.50	1.340	

321.XX		Acid Soluble Zinc	
Lab	PPM	Total Method	
111	285.50	-6.092	
64	252.64	-1.862	
Std Dev	245.94	-1.000	
24	243.50	-0.685	
219	239.85	-0.216	
Median	238.18	0.000	
61	236.50	0.216	
61	236.50	0.216	
43	232.00	0.795	
43	230.50	0.988	

325.10		Fluoride	
Lab	%	Electrode	
31	2.03	-20.967	
111	1.23	-8.355	
32	0.82	-1.813	
32	0.76	-0.867	
24	0.72	-0.315	
23	0.70	0.000	
34	0.70	0.000	
Median	0.70	0.000	
23	0.69	0.236	
79	0.69	0.236	
24	0.67	0.473	

9	0.65	0.867
14	0.64	0.946
14	0.63	1.104

325.99		Fluoride	
Lab	%	Other	
61	0.73	-1.340	
Median	0.71	0.000	
61	0.70	1.340	

325.XX		Fluoride	
Lab	%	Total Method	
31	2.03	-28.515	
111	1.23	-11.363	
32	0.82	-2.466	
32	0.76	-1.179	
61	0.73	-0.536	
24	0.72	-0.429	
23	0.70	0.000	
34	0.70	0.000	
Median	0.70	0.000	
61	0.70	0.107	
23	0.69	0.322	
79	0.69	0.322	
24	0.67	0.643	
9	0.65	1.179	
14	0.64	1.286	
14	0.63	1.501	