

AFPC

2016-04

Grade 11-40-0-10-1

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	10	11.84	0.03
Method Group 001.XX PCT			10	11.84	0.04
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	11.89	0.00
Total Nitrogen, Combustion	993.13	010.60	21	11.83	0.31
Total Nitrogen, Other		010.99	3	11.82	0.02
Method Group 010.XX PCT			25	11.83	0.22
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	41.34	0.00
Total Phosphate, Spectrometric	978.02	020.20	19	41.13	0.38
Total Phosphate, ICP	970.03	020.40	5	40.99	0.11
Method Group 020.XX PCT			25	41.11	0.41
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	6	0.44	0.17
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.32	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.33	0.08
Insoluble Phosphate, Other		030.99	3	0.42	0.03
Method Group 030.XX PCT			12	0.43	0.06
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	40.73	0.29
Indirect Available Phosphate, Other		040.99	1	40.78	0.00
Method Group 040.XX PCT			10	40.76	0.32
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	41.10	0.28
Direct Available Phosphate, Automated	978.01	041.40	2	38.32	0.91
Direct Available Phosphate, ICP		041.50	2	40.33	0.38
Direct Available Phosphate, EDTA Extract	993.01	041.60	6	40.30	0.17
Direct Available Phosphate, Other		041.99	2	40.20	0.03
Method Group 041.XX PCT			15	40.24	0.62
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	13	36.07	0.13

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Water Soluble Phosphorus		048.99	5	36.21	0.31
Method Group 048.XX PCT			18	36.08	0.20
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.12	0.04
Soluble Potash, ICP(Citrate)		050.51	1	0.13	0.00
Soluble Potash, Other		050.99	6	0.13	0.01
Method Group 050.XX PCT			10	0.13	0.02
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	11	0.68	0.07
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.38	0.02
Free Water, Other		060.99	2	0.56	0.00
Method Group 060.XX PCT			15	0.67	0.13
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.24	0.00
Acid Soluble Calcium, ICP		101.30	15	0.38	0.04
Method Group 101.XX PCT			16	0.38	0.04
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.71	0.00
Acid Soluble Magnesium, ICP		121.30	15	0.86	0.03
Method Group 121.XX PCT			16	0.86	0.03
SULFATE SULFUR (S)					
Sulfur, Spectrometric		144.70	2	8.38	0.01
Sulfur, Other		144.99	15	5.10	0.27
Method Group 144.XX PCT			17	5.17	0.37
TOTAL SULFUR (S)					
Sulfur, Other		145.99	16	10.29	0.2
Method Group 145.XX PCT			16	10.29	0.2
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	5	9.8	1.7
Total Arsenic, Other		151.99	2	11.9	0.1
Method Group 151.XX PPM			7	10.3	2.0
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	37	0.0
Method Group 165.XX PPM			1	37	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	9	3.3	0.3
Total Cadmium, Other		181.99	1	3.6	0.0
Method Group 181.XX PPM			10	3.3	0.4

ALUMINUM AS AL₂O₃ Sample 04-2016

ICP, %		14	1.46	0.04
Water Soluble Chlorine, Other, %	190.99	1	1.42	0.00
Method Group 190.XX PCT		15	1.45	0.06
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	7	69	3.0
Total Chromium, Other	191.99	1	70	0.0
Method Group 191.XX PPM		8	69	3.5
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	6	3	0.9
Acid Soluble Cobalt, Other	202.99	2	3	0.2
Method Group 202.XX PPM		8	3	0.8
ACID SOLUBLE COPPER				
Acid Soluble Copper, ICP	221.30	5	0.4	2.5
Method Group 221.XX PPM		3	0.4	3.0
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	15	1.22	0.02
Method Group 241.XX PCT		16	1.22	0.02
TOTAL LEAD				
Total Lead, ICP	251.30	7	3	1.5
Total Lead, Other	251.99	1	2.0	0.0
Method Group 251.XX PPM		8	3	2.4
ACID SOLUBLE MANGANESE				
Acid Soluble Manganese, ICP	972.02a 261.30	2	309	2.9
Acid Soluble Manganese, Other	261.99	6	321	37.3
Method Group 261.XX PPM		8	315	27.8
TOTAL MERCURY				
Total Mercury, ICP	281.30	1	0.00	0.00
Method Group 281.XX PPM		1	0.03	0.00
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	7	11	1.4
Total Molybdenum, Other	289.99	1	11	0.0
Method Group 289.XX PPM		8	11	1.3
TOTAL NICKEL				
Total Nickel, ICP	291.30	6	13.9	0.7
Total Nickel, icp	291.99	1	13.9	0.0
Method Group 291.XX PPM		7	13.9	0.7
TOTAL SELENIUM				

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Total Selenium, ICP		301.30	4	1.8	1.3
Method Group 301.XX PPM			4	1.8	1.5
SODIUM AS Na₂O					
Sodium, Other		311.99	8	0.21	0.01
Method Group 311.XX PCT			8	0.21	0.01
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	3	1.0	0.0
Acid Soluble Zinc, ICP		321.30	18	1.0	0.0
Acid Soluble Zinc, Other		321.99	1	1.0	0.0
Method Group 321.XX %			22	1.0	0.0
FLUORIDE					
Volumetric		325.10	11	1.70	0.16
Distilled/Electrode		325.99	4	1.70	0.02
Method Group 325.XX PCT			15	1.70	0.09

001.99 Ammoniacal Nitrogen		
Lab		Other
24	11.91	-2.159
24	11.89	-1.414
Std Dev	11.87	-1.000
34	11.86	-0.670
32	11.85	-0.372
61	11.85	-0.223
Median	11.84	0.000
61	11.83	0.223
32	11.82	0.521
23	11.81	0.819
23	11.81	0.968
Std Dev	11.80	1.000
38	10.84	29.763

001.XX Ammoniacal Nitrogen		
Lab		Total Method
24	11.91	-2.159
24	11.89	-1.414
Std Dev	11.87	-1.000
34	11.86	-0.670
32	11.85	-0.372
61	11.85	-0.223
Median	11.84	0.000
61	11.83	0.223
32	11.82	0.521
23	11.81	0.819
23	11.81	0.968
Std Dev	11.80	1.000
38	10.84	29.763

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	11.89	0.000
Median	11.89	0.000

010.60 Total Nitrogen		
Lab		Combustion
24	12.03	-0.662
29	12.02	-0.630
47	12.02	-0.613
24	12.01	-0.597
66	11.98	-0.500

31	11.97	-0.468
219	11.90	-0.242
39	11.89	-0.211
9	11.88	-0.178
9	11.86	-0.105
77	11.83	0.000
Median	11.83	0.000
49	11.82	0.016
64	11.77	0.178
63	11.74	0.274
99	11.66	0.549
103	11.56	0.872
110	11.55	0.888
Std Dev	11.52	1.000
111	11.50	1.049
14	11.47	1.146
14	11.42	1.308
137	10.34	4.811

010.99 Total Nitrogen		
Lab		Other
32	11.85	-1.386
Std Dev	11.84	-1.000
32	11.82	0.000
Median	11.82	0.000
Std Dev	11.80	1.000
38	11.79	1.294

010.XX Total Nitrogen		
Lab		Total Method
24	12.03	-1.121
29	12.02	-1.067
47	12.02	-1.039
24	12.01	-1.012
Std Dev	12.01	-1.000
66	11.98	-0.848
31	11.97	-0.793
219	11.90	-0.410
39	11.89	-0.358
219	11.89	-0.328
9	11.88	-0.301
9	11.86	-0.178
32	11.85	-0.137
77	11.83	0.000

Median	11.83	0.000
32	11.82	0.027
49	11.82	0.027
38	11.79	0.180
64	11.77	0.301
63	11.74	0.465
99	11.66	0.930
Std Dev	11.64	1.000
103	11.56	1.477
110	11.55	1.504
111	11.50	1.778
14	11.47	1.942
14	11.42	2.215
137	10.34	8.149

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	41.34	0.000
Median	41.34	0.000

020.20 Total Phosphate		
Lab		Spectrometric
99	41.79	-1.752
275	41.54	-1.080
Std Dev	41.51	-1.000
61	41.45	-0.854
24	41.34	-0.551
61	41.34	-0.551
31	41.33	-0.537
24	41.24	-0.286
34	41.23	-0.273
9	41.20	-0.194
275	41.13	0.000
Median	41.13	0.000
9	41.11	0.044
14	41.05	0.215
32	40.96	0.453
23	40.83	0.796
111	40.83	0.796
32	40.81	0.836
23	40.81	0.849
14	40.77	0.955
Std Dev	40.75	1.000
110	40.74	1.021

020.40 Total Phosphate		
Lab		Automated
9	41.20	-1.941
219	41.11	-1.109
Std Dev	41.09	-1.000
137	40.99	0.000
Median	40.99	0.000
111	40.96	0.231
9	40.88	0.970

020.XX Total Phosphate		
Lab		Total Method
99	41.79	-2.025
275	41.54	-1.267
61	41.45	-1.012
Std Dev	41.45	-1.000
219	41.34	-0.685
24	41.34	-0.670
61	41.34	-0.670
31	41.33	-0.655
24	41.24	-0.372
34	41.23	-0.357
9	41.20	-0.268
9	41.20	-0.253
275	41.13	-0.049
9	41.11	0.000
Median	41.11	0.000
219	41.11	0.015
14	41.05	0.194
137	40.99	0.372
111	40.96	0.447
32	40.96	0.462
9	40.88	0.685
23	40.83	0.849
111	40.83	0.849
32	40.81	0.893
23	40.81	0.908
Std Dev	40.77	1.000
14	40.77	1.027
110	40.74	1.102

030.20 Insoluble Phosphate		
Lab		Spectrometric

61	0.76	-1.921
61	0.72	-1.682
Std Dev	0.61	-1.000
23	0.45	-0.045
Median	0.44	0.000
24	0.43	0.045
23	0.43	0.074
24	0.39	0.313

030.30 Insoluble Phosphate		
Lab Alka. Quimociac		
31	0.32	0.000
Median	0.32	0.000

030.40 Insoluble Phosphate		
Lab Automated		
9	0.44	-1.340
Std Dev	0.41	-1.000
Median	0.33	0.000
Std Dev	0.26	1.000
9	0.23	1.340

030.99 Insoluble Phosphate		
Lab Other		
34	0.46	-1.340
Std Dev	0.45	-1.000
32	0.42	0.000
Median	0.42	0.000
Std Dev	0.38	1.000
32	0.37	1.340

030.XX Insoluble Phosphate		
Lab Total Method		
61	0.76	-6.601
61	0.72	-5.807
Std Dev	0.48	-1.000
34	0.46	-0.645
23	0.45	-0.347
9	0.44	-0.149
24	0.43	-0.050
Median	0.43	0.000
23	0.43	0.050
32	0.42	0.248
24	0.39	0.844

Std Dev	0.38	1.000
32	0.37	1.141
31	0.32	2.134
9	0.23	3.871

040.20 Indirect Available Phosphate		
Lab Spectrometric		
31	41.01	-0.962
9	40.97	-0.825
24	40.95	-0.756
24	40.81	-0.258
61	40.73	0.000
Median	40.73	0.000
61	40.58	0.533
9	40.56	0.584
Std Dev	40.44	1.000
23	40.40	1.134
23	40.36	1.271

040.99 Indirect Available Phosphate		
Lab Other		
34	40.78	0.000
Median	40.78	0.000

040.XX Indirect Available Phosphate		
Lab Total Method		
31	41.01	-0.976
9	40.97	-0.823
24	40.95	-0.747
24	40.81	-0.191
34	40.78	-0.096
Median	40.76	0.000
61	40.73	0.096
61	40.58	0.689
9	40.56	0.747
Std Dev	40.49	1.000
23	40.40	1.359
23	40.36	1.512

041.10 Direct Available Phosphate		
Lab Gravimetric Quimociac		
219	41.25	-0.543
47	41.10	0.000
Median	41.10	0.000

Std Dev	40.82	1.000
107	40.51	2.137

041.40 Direct Available Phosphate		
Lab Automated		
49	39.54	-1.340
Std Dev	39.23	-1.000
Median	38.32	0.000
Std Dev	37.41	1.000
39	37.11	1.340

041.50 Direct Available Phosphate		
Lab ICP		
63	40.84	-1.340
Std Dev	40.71	-1.000
Median	40.33	0.000
Std Dev	39.95	1.000
66	39.83	1.340

041.60 Direct Available Phosphate		
Lab EDTA Extract		
29	42.27	-11.325
219	40.48	-1.009
Std Dev	40.47	-1.000
64	40.36	-0.346
Median	40.30	0.000
137	40.24	0.346
77	40.21	0.548
Std Dev	40.13	1.000
103	38.80	8.674

041.99 Direct Available Phosphate		
Lab Other		
275	40.24	-1.340
Std Dev	40.23	-1.000
Median	40.20	0.000
Std Dev	40.17	1.000
275	40.15	1.340

041.XX Direct Available Phosphate		
Lab Total Method		
29	42.27	-3.960
219	41.25	-1.975
47	41.10	-1.682

63	40.84	-1.173
Std Dev	40.75	-1.000
107	40.51	-0.528
219	40.48	-0.460
64	40.36	-0.235
275	40.24	0.000
Median	40.24	0.000
137	40.24	0.000
77	40.21	0.068
275	40.15	0.167
66	39.83	0.812
Std Dev	39.73	1.000
49	39.54	1.379
103	38.80	2.826
39	37.11	6.130

048.20 Water Soluble Phosphate		
Lab Spectrometric		
9	36.31	-1.911
9	36.23	-1.261
31	36.23	-1.222
61	36.21	-1.104
Std Dev	36.20	-1.000
24	36.17	-0.749
61	36.09	-0.118
34	36.07	0.000
Median	36.07	0.000
23	36.05	0.158
23	36.05	0.197
24	36.04	0.236
14	36.00	0.591
Std Dev	35.94	1.000
14	35.87	1.576
111	35.75	2.562

048.99 Water Soluble Phosphate		
Lab Other		
32	36.51	-0.967
32	36.36	-0.473
275	36.21	0.000
Median	36.21	0.000
275	35.93	0.867
Std Dev	35.89	1.000
111	35.78	1.359

048.XX Water Soluble Phosphate		
Lab	Total Method	
32	36.51	-2.696
32	36.36	-1.730
9	36.31	-1.465
Std Dev	36.24	-1.000
9	36.23	-0.950
31	36.23	-0.919
61	36.21	-0.826
275	36.21	-0.804
24	36.17	-0.545
61	36.09	-0.047
Median	36.08	0.000
34	36.07	0.047
23	36.05	0.171
23	36.05	0.203
24	36.04	0.234
14	36.00	0.514
275	35.93	0.891
Std Dev	35.92	1.000
14	35.87	1.293
111	35.78	1.854
111	35.75	2.072

050.50 %K ₂ O Soluble Potash		
Lab	ICP(Oxalate)	
99	0.24	-2.680
Std Dev	0.16	-1.000
23	0.12	0.000
23	0.12	0.000
Median	0.12	0.000

050.51 %K ₂ O Soluble Potash		
Lab	ICP(Citrate)	
137	0.13	0.000
Median	0.13	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
61	0.15	-1.340
Std Dev	0.14	-1.000
61	0.14	-0.893
24	0.13	0.000

111	0.13	0.000
Median	0.13	0.000
24	0.12	0.893
31	0.12	0.893

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
99	0.24	-8.423
61	0.15	-1.149
Std Dev	0.14	-1.000
61	0.14	-0.766
24	0.13	0.000
111	0.13	0.000
137	0.13	0.000
Median	0.13	0.000
23	0.12	0.766
23	0.12	0.766
24	0.12	0.766
31	0.12	0.766

060.00 Free Water		
Lab	Vacuum Oven	
31	0.98	-4.392
24	0.81	-1.936
24	0.80	-1.712
Std Dev	0.75	-1.000
9	0.71	-0.447
32	0.71	-0.372
32	0.68	0.000
Median	0.68	0.000
34	0.67	0.149
9	0.67	0.223
23	0.66	0.298
Std Dev	0.61	1.000
23	0.61	1.042
111	0.41	4.020

060.10 Free Water		
Lab	Vacuum Desiccate	
61	0.40	-1.340
Std Dev	0.39	-1.000
Median	0.38	0.000
Std Dev	0.36	1.000
61	0.35	1.340

060.99 Free Water		
Lab	Other	
14	0.56	0.000
14	0.56	0.000
Median	0.56	0.000

060.XX Free Water		
Lab	Total Method	
31	0.98	-2.816
24	0.81	-1.317
24	0.80	-1.181
Std Dev	0.78	-1.000
9	0.71	-0.409
32	0.71	-0.363
32	0.68	-0.136
34	0.67	-0.045
9	0.67	0.000
Median	0.67	0.000
23	0.66	0.045
23	0.61	0.500
14	0.56	0.954
14	0.56	0.954
Std Dev	0.55	1.000
111	0.41	2.317
61	0.40	2.407
61	0.35	2.862

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.24	0.000
Median	0.24	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
32	0.48	-2.638
61	0.45	-1.944
61	0.43	-1.389
32	0.42	-1.111
Std Dev	0.42	-1.000
24	0.42	-0.972
24	0.41	-0.833
34	0.40	-0.555
14	0.38	0.000

Median	0.38	0.000
9	0.38	0.139
14	0.38	0.139
23	0.37	0.278
31	0.37	0.319
23	0.37	0.417
111	0.37	0.417
9	0.36	0.555

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
32	0.48	-2.687
61	0.45	-1.998
61	0.43	-1.447
32	0.42	-1.171
24	0.42	-1.033
Std Dev	0.41	-1.000
24	0.41	-0.896
34	0.40	-0.620
14	0.38	-0.069
Median	0.38	0.000
9	0.38	0.069
14	0.38	0.069
23	0.37	0.207
31	0.37	0.248
23	0.37	0.344
111	0.37	0.344
9	0.36	0.482
Std Dev	0.34	1.000
219	0.24	3.762

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	0.71	0.000
Median	0.71	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
61	0.91	-2.184
61	0.89	-1.390
9	0.89	-1.390
Std Dev	0.88	-1.000
34	0.88	-0.993
24	0.87	-0.596

24	0.87	-0.397
32	0.87	-0.397
23	0.86	0.000
32	0.86	0.000
Median	0.86	0.000
23	0.85	0.199
9	0.84	0.496
14	0.84	0.596
14	0.84	0.794
Std Dev	0.83	1.000
31	0.81	1.985
111	0.76	3.772

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
61	0.91	-2.184
61	0.89	-1.390
9	0.89	-1.390
Std Dev	0.88	-1.000
34	0.88	-0.993
24	0.87	-0.596
24	0.87	-0.397
32	0.87	-0.397
23	0.86	0.000
32	0.86	0.000
Median	0.86	0.000
23	0.85	0.199
9	0.84	0.496
14	0.84	0.596
14	0.84	0.794
Std Dev	0.83	1.000
31	0.81	1.985
111	0.76	3.772
219	0.71	5.717

144.70 Sulfur Spectrometric		
Lab	PPM	Total Method
14	8.40	-1.340
Std Dev	8.40	-1.000
Median	8.38	0.000
Std Dev	8.37	1.000
14	8.37	1.340

144.99 Sulfate Sulfur (S)		
Lab	PPM	Other
103	10.30	-18.961
77	10.27	-18.851
32	5.48	-1.367
32	5.47	-1.331
Std Dev	5.37	-1.000
31	5.30	-0.729
24	5.23	-0.474
38	5.17	-0.255
23	5.10	0.000
34	5.10	0.000
Median	5.10	0.000
23	5.09	0.036
24	5.07	0.109
9	4.96	0.510
9	4.96	0.510
275	4.93	0.613
Std Dev	4.83	1.000
275	4.82	1.022

144.XX Sulfate Sulfur (S)		
Lab	PPM	Total Method
103	10.30	-16.973
77	10.27	-16.874
14	8.40	-10.687
14	8.37	-10.571
32	5.48	-1.009
Std Dev	5.47	-1.000
32	5.47	-0.976
31	5.30	-0.430
24	5.23	-0.199
38	5.17	0.000
Median	5.17	0.000
23	5.10	0.232
34	5.10	0.232
23	5.09	0.265
24	5.07	0.331
9	4.96	0.695
9	4.96	0.695
275	4.93	0.787
Std Dev	4.87	1.000
275	4.82	1.159

145.99 Total Sulfur (S)		
Lab	PPM	Other
63	10.74	-2.526
Std Dev	10.47	-1.000
32	10.44	-0.851
32	10.44	-0.824
39	10.43	-0.768
34	10.37	-0.461
66	10.35	-0.321
24	10.31	-0.098
24	10.30	-0.070
Median	10.29	0.000
49	10.28	0.070
23	10.28	0.070
23	10.27	0.098
275	10.15	0.796
64	10.14	0.824
Std Dev	10.11	1.000
275	10.08	1.159
99	9.04	6.965
111	5.88	24.636

145.XX Total Sulfur (S)		
Lab	PPM	Total Method
63	10.74	-2.526
Std Dev	10.47	-1.000
32	10.44	-0.851
32	10.44	-0.824
39	10.43	-0.768
34	10.37	-0.461
66	10.35	-0.321
24	10.31	-0.098
24	10.30	-0.070
Median	10.29	0.000
49	10.28	0.070
23	10.28	0.070
23	10.27	0.098
275	10.15	0.796
64	10.14	0.824
Std Dev	10.11	1.000
275	10.08	1.159
99	9.04	6.965
111	5.88	24.636

151.30 Total Arsenic ICP		
Lab	PPM	Total Method
24	10.45	-0.374
64	10.33	-0.305
61	9.80	0.000
Median	9.80	0.000
Std Dev	8.06	1.000
31	8.00	1.035
111	0.50	5.348

151.99 Total Arsenic ICP		
Lab	PPM	Total Method
18	12.10	-1.340
Std Dev	12.05	-1.000
Median	11.90	0.000
Std Dev	11.75	1.000
18	11.70	1.340

151.XX Total Arsenic ICP		
Lab	PPM	Total Method
18	12.10	-1.090
Std Dev	11.95	-1.000
18	11.70	-0.844
24	10.45	-0.074
64	10.33	0.000
Median	10.33	0.000
61	9.80	0.327
Std Dev	8.71	1.000
31	8.00	1.435
111	0.50	6.056

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	37.30	0.000
Median	37.30	0.000

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	37.30	0.000
Median	37.30	0.000

181.30 Total Cadmium ICP		
Lab	PPM	Total Method
18	3.55	-1.065

Std Dev	3.53	-1.000
18	3.50	-0.877
275	3.36	-0.339
64	3.33	-0.239
275	3.27	0.000
Median	3.27	0.000
Std Dev	3.00	1.000
61	3.00	1.001
61	3.00	1.001
31	2.50	2.880
111	2.00	4.758

181.99	Total Cadmium	
Lab		Other
24	3.56	0.000
Median	3.56	0.000

181.XX	Total Cadmium	
Lab	PPM	Total Method
24	3.56	-0.756
18	3.55	-0.727
18	3.50	-0.583
275	3.36	-0.169
64	3.33	-0.092
Median	3.30	0.000
275	3.27	0.092
61	3.00	0.861
61	3.00	0.861
Std Dev	2.95	1.000
31	2.50	2.304
111	2.00	3.748

190.00	Aluminum	
Lab	%Al ₂ O ₃	ICP
9	1.51	-1.165
9	1.51	-1.049
Std Dev	1.50	-1.000
14	1.50	-0.816
32	1.50	-0.816
32	1.50	-0.816
14	1.49	-0.699
61	1.47	-0.233
Median	1.46	0.000
24	1.45	0.233

34	1.45	0.233
23	1.45	0.350
24	1.44	0.583
61	1.43	0.699
23	1.43	0.816
Std Dev	1.42	1.000
111	0.94	12.118

190.99	Aluminum	
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.42	0.000
Median	1.42	0.000

190.XX	Aluminum	
Lab	%Al ₂ O ₃	Total Method
9	1.51	-1.286
9	1.51	-1.179
Std Dev	1.50	-1.000
14	1.50	-0.965
32	1.50	-0.965
32	1.50	-0.965
14	1.49	-0.858
61	1.47	-0.429
24	1.45	0.000
34	1.45	0.000
Median	1.45	0.000
23	1.45	0.107
24	1.44	0.322
61	1.43	0.429
23	1.43	0.536
31	1.42	0.643
Std Dev	1.40	1.000
111	0.94	10.934

191.30	Total Chromium	
Lab		ICP
61	77.00	-2.817
61	72.50	-1.317
Std Dev	71.55	-1.000
64	69.54	-0.330
31	68.55	0.000
Median	68.55	0.000
18	67.00	0.517
18	67.00	0.517

111	66.00	0.850
191.99	Total Chromium	
Lab	PPM	Other
24	70.30	0.000
Median	70.30	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
61	77.00	-2.769
61	72.50	-1.203
Std Dev	71.92	-1.000
24	70.30	-0.437
64	69.54	-0.172
Median	69.05	0.000
31	68.55	0.172
18	67.00	0.712
18	67.00	0.712
Std Dev	66.17	1.000
111	66.00	1.060

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
18		

202.99	Acid Soluble Cobalt	
Lab		Other
64	3.16	-1.340
Std Dev	3.08	-1.000
Median	2.86	0.000
Std Dev	2.64	1.000
24	2.56	1.340

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
18	3.80	-1.232
18	3.70	-1.078
Std Dev	3.65	-1.000
64	3.16	-0.239
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000
24	2.56	0.678
Std Dev	2.35	1.000
31	2.01	1.533

111	1.00	3.080
221.00	Acid Soluble Copper	
Lab		Atomic Absorption
219	1.23	0.000
Median	1.23	0.000

221.30	Acid Soluble Copper	
Lab	PPM	ICP
61	<1.1	0.000
61	<1.1	0.000
111	7.00	-2.660
Std Dev	2.85	-1.000
18	0.35	0.000
Median	0.35	0.000
18	0.30	0.020

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
61	<1.1	0.000
61	<1.1	0.000
111	7.00	-2.660
Std Dev	2.85	-1.000
18	0.35	0.000
Median	0.35	0.000
18	0.30	0.020

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP
32	1.27	-2.680
24	1.24	-1.218
Std Dev	1.24	-1.000
32	1.23	-0.731
34	1.23	-0.731
61	1.23	-0.731
61	1.23	-0.487
24	1.22	-0.244
23	1.22	0.000
111	1.22	0.000
Median	1.22	0.000
23	1.21	0.244
14	1.21	0.487
14	1.20	0.731
Std Dev	1.19	1.000

9	1.19	1.096
9	1.19	1.218
31	1.17	2.436

241.XX Lab	%Fe ₂ O ₃	Acid Soluble Iron Total Method
32	1.27	-2.680
24	1.24	-1.149
Std Dev	1.24	-1.000
219	1.23	-0.689
32	1.23	-0.638
34	1.23	-0.638
61	1.23	-0.638
61	1.23	-0.383
24	1.22	-0.128
Median	1.22	0.000
23	1.22	0.128
111	1.22	0.128
23	1.21	0.383
14	1.21	0.638
14	1.20	0.893
Std Dev	1.20	1.000
9	1.19	1.276
9	1.19	1.404
31	1.17	2.680

251.30 Lab	PPM	Total Lead ICP
18	5.30	-1.179
18	5.10	-1.048
Std Dev	5.03	-1.000
61	4.50	-0.657
275	3.49	0.000
Median	3.49	0.000
275	3.49	0.000
61	2.00	0.975
Std Dev	1.96	1.000
111	0.00	2.280

251.99 Lab	Total Lead Other
24	2.03 0.000
Median	2.03 0.000

251.XX Lab	PPM	Total Lead Total Method
18	5.30	-0.921
18	5.10	-0.819
61	4.50	-0.513
275	3.49	0.000
Median	3.49	0.000
275	3.49	0.000
24	2.03	0.746
61	2.00	0.762
Std Dev	1.53	1.000
111	0.00	1.782

261.30 Lab	Acid Soluble Manganese ICP
31	313.25 -1.340
Std Dev	312.27 -1.000
Median	309.38 0.000
Std Dev	306.48 1.000
111	305.50 1.340

261.99 Lab	PPM	Acid Soluble Manganese Other
18	358.50	-1.007
Std Dev	358.26	-1.000
219	326.90	-0.158
18	325.00	-0.107
Median	321.00	0.000
24	317.00	0.107
Std Dev	283.74	1.000
61	263.00	1.557
61	241.00	2.147

261.XX Lab	PPM	Acid Soluble Manganese Total Method
18	358.50	-1.899
Std Dev	337.96	-1.000
219	326.90	-0.516
18	325.00	-0.432
24	317.00	-0.082
Median	315.13	0.000
31	313.25	0.082
111	305.50	0.421
Std Dev	292.29	1.000

61	263.00	2.283
61	241.00	3.246

281.30 Lab	PPM	Total Mercury ICP
24	0.03	0.000
Median	0.03	0.000

281.XX Lab	PPM	Total Mercury Total Method
24	0.03	0.000
Median	0.03	0.000

289.30 Lab	PPM	Total Molybdenum ICP
18		

289.99 Lab	PPM	Total Molybdenum Other
24	11.30	0.000
Median	11.30	0.000

289.XX Lab	PPM	Total Molybdenum Total Method
18	12.40	-1.210
18	12.20	-1.017
Std Dev	12.18	-1.000
64	11.60	-0.431
24	11.30	-0.145
Median	11.15	0.000
111	11.00	0.145
31	10.65	0.484
Std Dev	10.12	1.000
61	9.50	1.598
61	8.00	3.050

291.30 Lab	Total Nickel ICP
61	

291.99 Lab	PPM	Total Nickel Other
24	13.90	0.000
Median	13.90	0.000

291.XX Lab	PPM	Total Nickel Total Method
61	15.50	-2.967
64	14.80	-1.660
Std Dev	14.44	-1.000
61	14.00	-0.185
24	13.90	0.000
Median	13.90	0.000
18	13.70	0.371
18	13.65	0.464
Std Dev	13.36	1.000
31	12.50	2.597

301.30 Lab	PPM	Total Selenium ICP
18	3.00	-0.991
18	2.50	-0.595
Median	1.75	0.000
111	1.00	0.595
24	0.74	0.801

301.99 Lab	PPM	Total Selenium Other
61	<1	0.000
Median	0.00	0.000

301.XX Lab	PPM	Total Selenium Total Method
61	<1	0.000
18	3.00	-0.991
18	2.50	-0.595
Median	1.75	0.000
111	1.00	0.595
24	0.74	0.801

311.99 Lab	%Na ₂ O	Sodium Other
24	0.22	-0.893
24	0.22	-0.893
23	0.21	-0.298
23	0.21	-0.298
Median	0.21	0.000
111	0.21	0.298
61	0.20	0.893

61	0.20	0.893
Std Dev	0.20	1.000
31	0.20	1.489

311.XX		Sodium
Lab	%Na ₂ O	Total Method
24	0.22	-0.893
24	0.22	-0.893
23	0.21	-0.298
23	0.21	-0.298
Median	0.21	0.000
111	0.21	0.298
61	0.20	0.893
61	0.20	0.893
Std Dev	0.20	1.000
31	0.20	1.489

321.00		Acid Soluble Zinc
Lab		Atomic Absorption
77	1.02	-1.328
Std Dev	1.00	-1.000
219	0.97	0.000
Median	0.97	0.000
Std Dev	0.94	1.000
49	0.92	1.352

321.30		Acid Soluble Zinc
Lab	PPM	ICP
63	1.11	-2.880
31	1.06	-1.630
275	1.05	-1.281
Std Dev	1.04	-1.000
23	1.03	-0.548
23	1.02	-0.411
47	1.02	-0.329
34	1.01	-0.137
275	1.01	-0.071
24	1.01	0.000
99	1.01	0.000
Median	1.01	0.000
61	1.00	0.025
61	0.99	0.298
24	0.99	0.411
Std Dev	0.97	1.000

111	0.96	1.128
64	0.94	1.783
18	0.93	2.057
18	0.92	2.331
66	0.86	3.963

321.99		Acid Soluble Zinc
Lab		Other
38	0.98	0.000
Median	0.98	0.000

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
63	1.11	-2.765
31	1.06	-1.570
275	1.05	-1.236
Std Dev	1.04	-1.000

23	1.03	-0.536
23	1.02	-0.405
47	1.02	-0.326
77	1.02	-0.287
34	1.01	-0.143
275	1.01	-0.080
24	1.01	-0.012
99	1.01	-0.012
Median	1.00	0.000
61	1.00	0.012
61	0.99	0.273
24	0.99	0.381
38	0.98	0.552
219	0.97	0.893
Std Dev	0.97	1.000
111	0.96	1.067
64	0.94	1.692
18	0.93	1.954
49	0.92	2.093
18	0.92	2.217
66	0.86	3.777

325.10		Fluoride
Lab	%	Electrode
32	1.83	-0.851
32	1.83	-0.820
24	1.77	-0.473

24	1.74	-0.284
23	1.72	-0.126
23	1.70	0.000
Median	1.70	0.000
34	1.68	0.095
31	1.59	0.694
14	1.50	1.230
14	1.48	1.387
111	1.02	4.288

325.99		Fluoride
Lab	%	Other
9	1.72	-0.825
61	1.71	-0.412
Median	1.70	0.000
9	1.70	0.412
61	1.67	2.062

325.XX		Fluoride
Lab	%	Total Method
32	1.83	-1.744
32	1.83	-1.679
24	1.77	-0.969
24	1.74	-0.581
9	1.72	-0.291
23	1.72	-0.258
61	1.71	-0.194
9	1.70	0.000
23	1.70	0.000
Median	1.70	0.000
34	1.68	0.194
61	1.67	0.387
31	1.59	1.421
14	1.50	2.519
14	1.48	2.841
111	1.02	8.783