

AFPC

Sample

2015-06

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	14	11.32	0.04
Method Group 001.XX PCT			14	11.32	0.05
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.38	0.02
Total Nitrogen, Combustion	993.13	010.60	19	11.32	0.21
Total Nitrogen, Other		010.99	2	11.32	0.00
Method Group 010.XX PCT			24	11.33	0.14
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	53.37	0.04
Total Phosphate, Spectrometric	978.02	020.20	21	52.89	0.23
Total Phosphate, ICP	970.03	020.40	1	53.09	0.00
Method Group 020.XX PCT			24	52.93	0.32
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	9	0.55	0.07
Insoluble Phosphate, Automated	978.01	030.40	2	0.44	0.07
Insoluble Phosphate, Other		030.99	2	0.46	0.01
Method Group 030.XX PCT			13	0.53	0.10
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	52.42	0.25
Indirect Available Phosphate, Other		040.99	1	52.59	0.00
Method Group 040.XX PCT			11	52.51	0.31
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	1	51.65	0.00
Direct Available Phosphate, Spectrometric	960.03D	041.20	3	51.99	0.52
Direct Available Phosphate, Automated	978.01	041.40	1	52.72	0.00
Direct Available Phosphate, ICP		041.50	3	51.97	1.18
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	52.15	0.73
Method Group 041.XX PCT			12	51.98	0.86
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	47.64	0.36
Water Soluble Phosphate, Other		048.99	3	47.62	0.01
Method Group 048.XX PCT			17	47.62	0.37
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.19	0.01
Soluble Potash, Other		050.99	6	0.19	0.01
Method Group 050.XX PCT			9	0.19	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	11	0.72	0.07
Free Water, Karl Fisher	972.01	060.20	1	0.76	0.00
Free Water, Other		060.99	3	0.49	0.02
Method Group 060.XX PCT			15	0.67	0.15
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	14	0.27	0.02
Method Group 101.XX PCT			14	0.27	0.02
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	14	1.06	0.06
Method Group 121.XX PCT			14	1.06	0.07
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.66	3.04
Sulfur, Spectrometric		144.70	4	1.60	0.01
Sulfur, Other		144.99	8	1.62	0.03
Method Group 144.XX PCT			15	1.61	0.04
TOTAL SULFUR (S)					
Sulfur, Other		145.99	3	1.6	0.5
Method Group 145.XX PCT			3	1.6	0.6

TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	8	11	3.1
Method Group 151.XX PPM			8	11	3.7
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	54	0.0
Method Group 165.XX PPM			1	54	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	6	2.8	0.3
Total Cadmium, Other		181.99	1	2.8	0.0
Method Group 181.XX PPM			7	2.8	0.3
ALUMINUM AS Al₂O₃					
ICP, %			14	1.65	0.06
Method Group 190.XX PCT			14	1.65	0.07
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	6	83	1.2
Total Chromium, Other		191.99	1	83	0.0
Method Group 191.XX PPM			7	83	1.4
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	3	0.1
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			6	3	0.4
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	3	1.0	1.2
Acid Soluble Copper, Other		221.99	1	0.0	0.0
Method Group 221.XX PPM			4	1.0	0.8
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	14	1.29	0.02
Method Group 241.XX PCT			14	1.29	0.03
TOTAL LEAD					
Total Lead, ICP		251.30	3	1	0.1
Total Lead, Other		251.99	1	0.7	0.0
Method Group 251.XX PPM			4	1	0.1
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	3	339	10.6
Acid Soluble Manganese, Other		261.99	4	373	25.7
Method Group 261.XX PPM			7	357	28.0
TOTAL MERCURY					
Total Mercury, Atomic Absorbion		281.00	2	0	0.00
Total Mercury, ICP		281.30	1	0.00	0.00
Method Group 281.XX PPM			3	0.00	0.01
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	6	14	0.4
Total Molybdenum, Other		289.99	1	16	0.0
Method Group 289.XX PPM			7	14	1.2
TOTAL NICKEL					
Total Nickel, ICP		291.30	5	12.6	0.4
Total Nickel, icp		291.99	2	12.2	0.9
Method Group 291.XX PPM			7	12.6	0.9
TOTAL SELENIUM					
Total Selenium, ICP		301.30	3	0.4	0.1
Method Group 301.XX PPM			3	0.4	0.2
SODIUM AS Na₂O					
Sodium, Other		311.99	8	0.21	0.03
Method Group 311.XX PCT			8	0.21	0.03
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	6	85.0	7.5
Acid Soluble Zinc, Other		321.99	2	76.8	0.2
Method Group 321.XX %			8	80.5	9.4
FLUORIDE					
Volumentric		325.10	11	1.78	0.14
Distilled/Electrode		325.99	2	1.80	0.02

Method Group 325.XX PCT	13	1.78	0.06
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001.99 Ammoniacal Nitrogen		
Lab	Other	
275	11.62	-8.107
275	11.40	-2.211
79	11.36	-1.005
Std Dev	11.35	-1.000
34	11.35	-0.871
23	11.34	-0.469
61	11.33	-0.335
24	11.32	-0.067
Median	11.32	0.000
23	11.32	0.067
32	11.32	0.067
32	11.32	0.067
24	11.29	0.737
Std Dev	11.28	1.000
61	11.28	1.139
310	11.08	6.365
38	10.73	15.638

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
275	11.62	-8.107
275	11.40	-2.211
79	11.36	-1.005
Std Dev	11.35	-1.000
34	11.35	-0.871
23	11.34	-0.469
61	11.33	-0.335
24	11.32	-0.067
Median	11.32	0.000
23	11.32	0.067
32	11.32	0.067
32	11.32	0.067
24	11.29	0.737
Std Dev	11.28	1.000
61	11.28	1.139
310	11.08	6.365
38	10.73	15.638

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
43	11.40	-1.072
Std Dev	11.40	-1.000

43	11.38	0.000
Median	11.38	0.000
Std Dev	11.36	1.000
219	11.35	1.608

010.60 Total Nitrogen		
Lab	Combustion	
14	11.86	-2.559
14	11.83	-2.393
47	11.64	-1.516
66	11.62	-1.397
49	11.55	-1.065
Std Dev	11.53	-1.000
80	11.50	-0.851
219	11.38	-0.259
315	11.37	-0.211
79	11.35	-0.116
64	11.32	0.000
Median	11.32	0.000
77	11.30	0.097
9	11.29	0.145
24	11.28	0.192
24	11.25	0.334
63	11.23	0.429
110	11.20	0.572
29	11.17	0.714
99	11.16	0.761
Std Dev	11.11	1.000
103	11.09	1.093

010.99 Total Nitrogen		
Lab	Other	
32	11.32	0.000
Median	11.32	0.000
32	11.32	0.000

010.XX Total Nitrogen		
Lab	Total Method	
14	11.86	-4.633
14	11.83	-4.325
47	11.64	-2.700
66	11.62	-2.480
49	11.55	-1.865
80	11.50	-1.470

Std Dev	11.45	-1.000
43	11.40	-0.591
43	11.38	-0.415
219	11.38	-0.371
315	11.37	-0.283
219	11.35	-0.152
79	11.35	-0.108
Median	11.33	0.000
64	11.32	0.108
32	11.32	0.156
32	11.32	0.156
77	11.30	0.288
9	11.29	0.376
24	11.28	0.464
24	11.25	0.727
63	11.23	0.903
Std Dev	11.22	1.000
110	11.20	1.166
29	11.17	1.430
99	11.16	1.518
103	11.09	2.133

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
241	53.43	-1.340
Std Dev	53.41	-1.000
Median	53.37	0.000
Std Dev	53.33	1.000
219	53.31	1.340

020.20 Total Phosphate		
Lab	Spectrometric	
9	53.33	-1.924
14	53.31	-1.837
14	53.27	-1.664
275	53.23	-1.506
275	53.17	-1.210
Std Dev	53.12	-1.000
34	53.11	-0.973
24	53.07	-0.800
79	53.06	-0.735
315	52.95	-0.281
23	52.91	-0.108
23	52.89	0.000

Median	52.89	0.000
61	52.88	0.043
32	52.87	0.086
310	52.85	0.151
32	52.84	0.216
24	52.80	0.367
61	52.74	0.627
99	52.68	0.908
Std Dev	52.65	1.000
43	52.57	1.383
110	52.55	1.448
43	52.49	1.729

020.40 Total Phosphate		
Lab	Automated	
219	53.09	0.000
Median	53.09	0.000

020.XX Total Phosphate		
Lab	Total Method	
241	53.43	-1.883
9	53.33	-1.506
14	53.31	-1.431
219	53.31	-1.431
14	53.27	-1.280
275	53.23	-1.143
Std Dev	53.20	-1.000
275	53.17	-0.885
34	53.11	-0.678
219	53.09	-0.602
24	53.07	-0.527
79	53.06	-0.471
315	52.95	-0.075
Median	52.93	0.000
23	52.91	0.075
23	52.89	0.169
61	52.88	0.207
32	52.87	0.245
310	52.85	0.301
32	52.84	0.358
24	52.80	0.489
61	52.74	0.715
99	52.68	0.960
Std Dev	52.66	1.000

43	52.57	1.374
110	52.55	1.431
43	52.49	1.676

030.20 Insoluble Phosphate Spectrometric		
Lab		
43	1.12	-8.047
43	1.01	-6.467
Std Dev	0.62	-1.000
61	0.59	-0.494
24	0.56	-0.141
24	0.55	0.000
Median	0.55	0.000
61	0.54	0.212
79	0.49	0.846
Std Dev	0.48	1.000
23	0.40	2.186
23	0.38	2.398

030.40 Insoluble Phosphate Automated		
Lab		
34	0.53	-1.340
Std Dev	0.51	-1.000
Median	0.44	0.000
Std Dev	0.37	1.000
9	0.35	1.340

030.99 Insoluble Phosphate Other		
Lab		
32	0.47	-1.340
Std Dev	0.47	-1.000
Median	0.46	0.000
Std Dev	0.46	1.000
32	0.46	1.340

030.XX Insoluble Phosphate Total Method		
Lab		
43	1.12	-7.536
43	1.01	-6.107
Std Dev	0.61	-1.000
61	0.59	-0.702
24	0.56	-0.383
24	0.55	-0.255
61	0.54	-0.064

34	0.53	0.000
Median	0.53	0.000
79	0.49	0.510
32	0.47	0.766
32	0.46	0.957
Std Dev	0.45	1.000
23	0.40	1.723
23	0.38	1.914
9	0.35	2.361

040.20 Indirect Available Phosphate Spectrometric		
Lab		
9	52.99	-2.250
Std Dev	52.67	-1.000
79	52.57	-0.570
23	52.52	-0.370
24	52.51	-0.350
23	52.51	-0.330
Median	52.42	0.000
61	52.34	0.330
24	52.25	0.690
Std Dev	52.17	1.000
61	52.16	1.070
43	51.56	3.470
43	51.37	4.230

040.99 Indirect Available Phosphate Other		
Lab		
34	52.59	0.000
Median	52.59	0.000

040.XX Indirect Available Phosphate Total Method		
Lab		
9	52.99	-1.906
Std Dev	52.76	-1.000
34	52.59	-0.337
79	52.57	-0.238
23	52.52	-0.040
24	52.51	-0.020
23	52.51	0.000
Median	52.51	0.000
61	52.34	0.655
Std Dev	52.25	1.000
24	52.25	1.012

61	52.16	1.390
43	51.56	3.772
43	51.37	4.526

041.10 Direct Available Phosphate Gravimetric Quimociac		
Lab		
47	51.65	0.000
Median	51.65	0.000

041.20 Direct Available Phosphate Spectrometric		
Lab		
275	52.27	-0.531
275	51.99	0.000
Median	51.99	0.000
Std Dev	51.47	1.000
47	50.88	2.149

041.40 Direct Available Phosphate Automated		
Lab		
38	52.72	0.000
Median	52.72	0.000

041.50 Direct Available Phosphate ICP		
Lab		
63	54.41	-2.069
Std Dev	53.15	-1.000
66	51.97	0.000
Median	51.97	0.000
80	51.25	0.611

041.60 Direct Available Phosphate EDTA Extract		
Lab		
29	53.18	-1.417
Std Dev	52.88	-1.000
219	52.53	-0.519
Median	52.15	0.000
64	51.77	0.519
77	51.54	0.827

041.XX Direct Available Phosphate Total Method		
Lab		
63	54.41	-3.426
29	53.18	-1.694
38	52.72	-1.035

Std Dev	52.69	-1.000
219	52.53	-0.767
275	52.27	-0.404
275	51.99	-0.016
Median	51.98	0.000
66	51.97	0.016
64	51.77	0.305
47	51.65	0.467
77	51.54	0.622
Std Dev	51.27	1.000
80	51.25	1.031
47	50.88	1.553

048.20 Water Soluble Phosphate Spectrometric		
Lab		
61	48.35	-1.998
9	48.21	-1.604
Std Dev	47.99	-1.000
61	47.84	-0.577
24	47.73	-0.267
23	47.65	-0.028
23	47.64	-0.014
79	47.64	-0.014
Median	47.64	0.000
24	47.63	0.014
43	47.36	0.788
Std Dev	47.28	1.000
43	47.24	1.111
14	47.23	1.140
275	47.21	1.183
14	47.19	1.266
275	47.03	1.711

048.99 Water Soluble Phosphate Other		
Lab		
34	47.62	-0.670
32	47.62	0.000
Median	47.62	0.000
Std Dev	47.61	1.000
32	47.60	2.010

048.XX Water Soluble Phosphate Total Method		
Lab		
61	48.35	-2.399

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9	48.21	-1.936
Std Dev	47.92	-1.000
61	47.84	-0.728
24	47.73	-0.364
23	47.65	-0.083
23	47.64	-0.066
79	47.64	-0.066
24	47.63	-0.033
34	47.62	0.000
Median	47.62	0.000
32	47.62	0.017
32	47.60	0.066
43	47.36	0.877
Std Dev	47.32	1.000
43	47.24	1.257
14	47.23	1.290
275	47.21	1.342
14	47.19	1.439
275	47.03	1.962

050.50	%K ₂ O	Soluble Potash
Lab		ICP(Oxalate)
99	0.22	-2.680
Std Dev	0.20	-1.000
23	0.19	0.000
23	0.19	0.000
Median	0.19	0.000

050.99	%K ₂ O	Soluble Potash
Lab		Other
80	0.55	-62.607
24	0.20	-1.098
Std Dev	0.20	-1.000
43	0.19	-0.044
Median	0.19	0.000
43	0.19	0.044
24	0.19	0.659
61	0.19	0.659

050.XX	%K ₂ O	Soluble Potash
Lab		Total Method
80	0.55	-47.771
99	0.22	-3.551
Std Dev	0.20	-1.000

24	0.20	-0.871
43	0.19	-0.067
43	0.19	0.000
Median	0.19	0.000
23	0.19	0.469
23	0.19	0.469
24	0.19	0.469
61	0.19	0.469

060.00	Free Water	
Lab	Vacuum Oven	
24	0.81	-1.273
Std Dev	0.79	-1.000
24	0.78	-0.871
61	0.74	-0.335
79	0.73	-0.201
32	0.72	-0.067
32	0.72	0.000
Median	0.72	0.000
34	0.67	0.603
Std Dev	0.64	1.000
9	0.64	1.005
61	0.63	1.139
23	0.59	1.675
23	0.56	2.144

060.20	Free Water	
Lab	Karl Fisher	
310	0.76	0.000
Median	0.76	0.000

060.99	Free Water	
Lab	Other	
275	0.53	-1.787
Std Dev	0.51	-1.000
14	0.49	0.000
Median	0.49	0.000
14	0.47	0.893

060.XX	Free Water	
Lab	Total Method	
24	0.81	-1.154
Std Dev	0.79	-1.000
24	0.78	-0.907

310	0.76	-0.742
61	0.74	-0.577
79	0.73	-0.495
32	0.72	-0.412
32	0.72	-0.371
34	0.67	0.000
Median	0.67	0.000
9	0.64	0.247
61	0.63	0.330
23	0.59	0.660
23	0.56	0.948
Std Dev	0.55	1.000
275	0.53	1.196
14	0.49	1.526
14	0.47	1.690

101.30	Acid Soluble Calcium	
Lab	%CaO ICP	
32	0.36	-4.594
61	0.36	-4.594
32	0.36	-4.339
24	0.29	-1.021
Std Dev	0.29	-1.000
24	0.28	-0.510
34	0.28	-0.510
23	0.28	-0.255
Median	0.27	0.000
9	0.27	0.255
14	0.27	0.255
23	0.27	0.255
14	0.26	0.510
43	0.25	0.970
43	0.25	0.970
Std Dev	0.25	1.000
315	0.25	1.021

101.XX	Acid Soluble Calcium	
Lab	%CaO Total Method	
32	0.36	-4.594
61	0.36	-4.594
32	0.36	-4.339
24	0.29	-1.021
Std Dev	0.29	-1.000
24	0.28	-0.510

34	0.28	-0.510
23	0.28	-0.255
Median	0.27	0.000
9	0.27	0.255
14	0.27	0.255
23	0.27	0.255
14	0.26	0.510
43	0.25	0.970
43	0.25	0.970
Std Dev	0.25	1.000
315	0.25	1.021

121.30	Acid Soluble Magnesium	
Lab	%MgO ICP	
24	1.09	-0.503
32	1.09	-0.503
61	1.09	-0.419
24	1.08	-0.335
32	1.08	-0.335
23	1.07	-0.084
23	1.06	0.000
34	1.06	0.000
Median	1.06	0.000
9	1.03	0.503
Std Dev	1.00	1.000
14	1.00	1.005
315	1.00	1.005
14	1.00	1.089
43	0.93	2.178
43	0.93	2.261

121.XX	Acid Soluble Magnesium	
Lab	%MgO Total Method	
24	1.09	-0.503
32	1.09	-0.503
61	1.09	-0.419
24	1.08	-0.335
32	1.08	-0.335
23	1.07	-0.084
23	1.06	0.000
34	1.06	0.000
Median	1.06	0.000
9	1.03	0.503
Std Dev	1.00	1.000

14	1.00	1.005
315	1.00	1.005
14	1.00	1.089
43	0.93	2.178
43	0.93	2.261

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
47	9.76	-2.664
Std Dev	4.70	-1.000
241	1.66	0.000
Median	1.66	0.000
79	1.61	0.016

144.70 Sulfur		
Lab	Spectrometric	
275	1.62	-1.812
Std Dev	1.61	-1.000
14	1.60	-0.213
Median	1.60	0.000
14	1.60	0.213
Std Dev	1.59	1.000
275	1.57	2.272

144.99 Sulfate Sulfur (S)		
Lab	Other	
32	1.69	-2.507
32	1.68	-2.161
Std Dev	1.65	-1.000
23	1.64	-0.605
23	1.63	-0.259
Median	1.62	0.000
24	1.61	0.259
24	1.61	0.259
34	1.60	0.605
Std Dev	1.59	1.000
9	1.58	1.470

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
47	9.76	-229.775
32	1.69	-2.257
32	1.68	-1.975
241	1.66	-1.411

Std Dev	1.65	-1.000
23	1.64	-0.705
23	1.63	-0.423
275	1.62	-0.248
24	1.61	0.000
24	1.61	0.000
79	1.61	0.000
Median	1.61	0.000
14	1.60	0.282
34	1.60	0.282
14	1.60	0.423
9	1.58	0.987
Std Dev	1.57	1.000
275	1.57	1.106

145.99 Total Sulfur (S)		
Lab	Other	
43	1.59	0.000
43	1.59	0.000
Median	1.59	0.000
Std Dev	1.06	1.000
315	0.17	2.680

145.XX Total Sulfur (S)		
Lab	Total Method	
43	1.59	0.000
43	1.59	0.000
Median	1.59	0.000
Std Dev	1.06	1.000
315	0.17	2.680

151.30 Total Arsenic		
Lab	ICP	
43	18.20	-2.383
43	18.05	-2.334
Std Dev	13.95	-1.000
315	12.85	-0.641
64	11.07	-0.059
Median	10.88	0.000
24	10.70	0.059
275	10.14	0.242
275	9.72	0.379
18	9.70	0.385

151.XX Total Arsenic		
Lab	Total Method	
43	18.20	-2.383
43	18.05	-2.334
Std Dev	13.95	-1.000
315	12.85	-0.641
64	11.07	-0.059
Median	10.88	0.000
24	10.70	0.059
275	10.14	0.242
275	9.72	0.379
18	9.70	0.385

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	53.70	0.000
Median	53.70	0.000

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	53.70	0.000
Median	53.70	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
315	3.65	-3.132
Std Dev	3.06	-1.000
64	2.99	-0.725
18	2.95	-0.583
Median	2.79	0.000
43	2.63	0.583
43	2.61	0.674
Std Dev	2.52	1.000
61	2.30	1.784

181.99 Total Cadmium		
Lab	Other	
24	2.83	0.000
Median	2.83	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
315	3.65	-3.122
Std Dev	3.09	-1.000

64	2.99	-0.605
18	2.95	-0.457
24	2.83	0.000
Median	2.83	0.000
43	2.63	0.761
43	2.61	0.857
Std Dev	2.57	1.000
61	2.30	2.018

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
14	1.74	-1.484
14	1.74	-1.484
32	1.73	-1.319
32	1.72	-1.072
Std Dev	1.71	-1.000
9	1.71	-0.907
61	1.67	-0.330
24	1.65	0.000
24	1.65	0.000
Median	1.65	0.000
34	1.64	0.165
23	1.64	0.247
23	1.63	0.330
43	1.60	0.825
43	1.59	0.990
Std Dev	1.59	1.000
315	1.50	2.474

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
14	1.74	-1.484
14	1.74	-1.484
32	1.73	-1.319
32	1.72	-1.072
Std Dev	1.71	-1.000
9	1.71	-0.907
61	1.67	-0.330
24	1.65	0.000
24	1.65	0.000
Median	1.65	0.000
34	1.64	0.165
23	1.64	0.247
23	1.63	0.330

43	1.60	0.825
43	1.59	0.990
Std Dev	1.59	1.000
315	1.50	2.474

191.30 Total Chromium		
Lab	PPM	ICP
18	88.30	-4.096
61	85.00	-1.402
Std Dev	84.51	-1.000
64	83.57	-0.231
Median	83.28	0.000
43	83.00	0.231
43	83.00	0.231
Std Dev	82.06	1.000
315	61.75	17.579

191.99 Total Chromium		
Lab	PPM	Other
24	82.50	0.000
Median	82.50	0.000

191.XX Total Chromium		
Lab	PPM	Total Method
18	88.30	-4.634
61	85.00	-1.748
Std Dev	84.14	-1.000
64	83.57	-0.494
43	83.00	0.000
43	83.00	0.000
Median	83.00	0.000
24	82.50	0.437
Std Dev	81.86	1.000
315	61.75	18.578

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
61		

202.99 Acid Soluble Cobalt		
Lab	PPM	Other
24	2.44	0.000
Median	2.44	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
61	3.30	-0.818
64	3.10	-0.260
43	3.00	0.000
43	3.00	0.000
Median	3.00	0.000
Std Dev	2.63	1.000
24	2.44	1.526
18	2.30	1.908

221.30 Acid Soluble Copper		
Lab	PPM	ICP
61	<0.4	0.000
18	4.15	-2.680
Std Dev	2.18	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000

221.99 Acid Soluble Copper		
Lab	PPM	Other
24	0.49	0.000
Median	0.49	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
61	<0.4	0.000
18	4.15	-4.613
Std Dev	1.68	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
24	0.49	0.747

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
32	1.36	-3.379
32	1.35	-2.680
34	1.32	-1.515
24	1.31	-1.049
Std Dev	1.31	-1.000
315	1.31	-0.816
61	1.30	-0.350

24	1.29	-0.117
Median	1.29	0.000
23	1.29	0.117
14	1.28	0.350
14	1.28	0.350
23	1.28	0.350
43	1.28	0.583
43	1.27	0.816
Std Dev	1.27	1.000
9	1.27	1.049

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
32	1.36	-3.379
32	1.35	-2.680
34	1.32	-1.515
24	1.31	-1.049
Std Dev	1.31	-1.000
315	1.31	-0.816
61	1.30	-0.350
24	1.29	-0.117
Median	1.29	0.000
23	1.29	0.117
14	1.28	0.350
14	1.28	0.350
23	1.28	0.350
43	1.28	0.583
43	1.27	0.816
Std Dev	1.27	1.000
9	1.27	1.049

251.30 Total Lead		
Lab	PPM	ICP
61	<1.8	0.000
18	<1	0.000
315	1.28	-2.680
Std Dev	1.10	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000

251.99 Total Lead		
Lab	PPM	Other
24	0.72	0.000

Median	0.72	0.000
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251.XX Total Lead		
Lab	PPM	Total Method
61	<1.8	0.000
18	<1	0.000
315	1.28	-2.656
Std Dev	1.10	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
24	0.72	2.704

261.30 Acid Soluble Manganese		
Lab	PPM	ICP
315	359.00	-1.900
Std Dev	349.45	-1.000
64	338.84	0.000
Median	338.84	0.000
18	330.55	0.780

261.99 Acid Soluble Manganese		
Lab	PPM	Other
43	390.50	-0.689
43	388.50	-0.612
Median	372.75	0.000
61	357.00	0.612
Std Dev	347.00	1.000
24	347.00	1.000

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
43	390.50	-1.456
43	388.50	-1.369
Std Dev	380.01	-1.000
315	359.00	-0.087
61	357.00	0.000
Median	357.00	0.000
24	347.00	0.435
64	338.84	0.789
Std Dev	333.99	1.000
18	330.55	1.150

281.00	Total Mercury	
Lab	PPM	Atomic Absorbtion
275	0.00	0.000
275	0.00	0.000
Median	0.00	0.000

281.30	Total Mercury	
Lab	PPM	ICP
24	0.02	0.000
Median	0.02	0.000

281.XX	Total Mercury	
Lab	PPM	Total Method
24	0.02	-2.680
Std Dev	0.01	-1.000
275	0.00	0.000
275	0.00	0.000
Median	0.00	0.000

289.30	Total Molybdenum	
Lab	PPM	ICP
315		

289.99	Total Molybdenum	
Lab	PPM	Other
24	16.00	0.000
Median	16.00	0.000

289.XX	Total Molybdenum	
Lab	PPM	Total Method
24	16.00	-1.965
315	15.90	-1.862
Std Dev	15.07	-1.000
64	14.49	-0.404
43	14.10	0.000
Median	14.10	0.000
43	14.05	0.052
61	13.75	0.362
18	13.50	0.621

291.30	Total Nickel	
Lab	ICP	
61		

291.99	Total Nickel	
Lab	PPM	Other

24	13.40	-1.340
Std Dev	13.10	-1.000
Median	12.23	0.000
Std Dev	11.35	1.000
18	11.05	1.340

291.XX	Total Nickel	
Lab	PPM	Total Method
24	13.40	-1.218
61	13.30	-1.075
Std Dev	13.25	-1.000
64	12.57	-0.029
315	12.55	0.000
Median	12.55	0.000
43	12.00	0.788
43	12.00	0.788
Std Dev	11.85	1.000
18	11.05	2.150

301.30	Total Selenium	
Lab	PPM	ICP
18	0.38	-0.122
315	0.37	0.000
Median	0.37	0.000
Std Dev	0.24	1.000
24	0.05	2.558

301.XX	Total Selenium	
Lab	PPM	Total Method
18	0.38	-0.122
315	0.37	0.000
Median	0.37	0.000
Std Dev	0.24	1.000
24	0.05	2.558

311.99	Sodium	
Lab	%Na ₂ O	Other
24	0.23	-0.800
61	0.23	-0.800
23	0.23	-0.600
23	0.22	-0.400
Median	0.21	0.000
24	0.20	0.400
43	0.19	0.680

43	0.19	0.720
Std Dev	0.19	1.000
315	0.18	1.200

311.XX	Sodium	
Lab	%Na ₂ O	Total Method
24	0.23	-0.800
61	0.23	-0.800
23	0.23	-0.600
23	0.22	-0.400
Median	0.21	0.000
24	0.20	0.400
43	0.19	0.680
43	0.19	0.720
Std Dev	0.19	1.000
315	0.18	1.200

321.30	Acid Soluble Zinc	
Lab	PPM	ICP
24	86.70	-0.223
61	86.00	-0.130
315	86.00	-0.130
Median	85.03	0.000
18	84.05	0.130
Std Dev	77.50	1.000
64	73.20	1.571
47	1.05	11.156

321.99	Acid Soluble Zinc	
Lab	Other	
43	77.00	-1.340
Std Dev	76.94	-1.000
Median	76.75	0.000
Std Dev	76.56	1.000
43	76.50	1.340

321.XX	Acid Soluble Zinc	
Lab	PPM	Total Method
24	86.70	-0.801
61	86.00	-0.711
315	86.00	-0.711
18	84.05	-0.457
Median	80.53	0.000
43	77.00	0.457

43	76.50	0.522
64	73.20	0.951
Std Dev	72.82	1.000
47	1.05	10.315

325.10	Fluoride	
Lab	%	Electrode
32	2.00	-1.594
32	1.98	-1.412
23	1.82	-0.290
79	1.82	-0.290
24	1.81	-0.217
24	1.78	0.000
34	1.78	0.000
Median	1.78	0.000
23	1.75	0.217
9	1.52	1.883
14	1.41	2.680
14	1.40	2.789

325.99	Fluoride	
Lab	%	Other
61	1.82	-1.340
Median	1.80	0.000
61	1.78	1.340

325.XX	Fluoride	
Lab	%	Total Method
32	2.00	-4.211
32	1.98	-3.733
23	1.82	-0.766
61	1.82	-0.766
79	1.82	-0.766
24	1.81	-0.574
24	1.78	0.000
34	1.78	0.000
Median	1.78	0.000
61	1.78	0.096
23	1.75	0.574
9	1.52	4.977
14	1.41	7.083
14	1.40	7.370