

AFPC

Sample

2014-10

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.13	0.00
Ammoniacal Nitrogen, Other		001.99	11	11.16	0.07
Method Group 001.XX PCT			12	11.15	0.07
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.19	0.04
Total Nitrogen, Salicylic	955.04d	010.12	1	11.13	0.00
Total Nitrogen, Combustion	993.13	010.60	21	11.19	0.13
Total Nitrogen, Other		010.99	3	11.07	0.09
Method Group 010.XX PCT			28	11.18	0.16
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	52.14	0.02
Total Phosphate, Spectrometric	978.02	020.20	18	51.85	0.28
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	51.53	0.00
Total Phosphate, ICP	970.03	020.40	4	51.95	0.50
Method Group 020.XX PCT			25	51.85	0.38
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	9	0.05	0.01
Insoluble Phosphate, Automated	978.01	030.40	2	0.05	0.00
Insoluble Phosphate, Other		030.99	2	0.05	0.00
Method Group 030.XX PCT			13	0.05	0.01
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	51.81	0.29
Indirect Available Phosphate, Automated	960.02	040.40	1	52.12	0.00
Indirect Available Phosphate, Other		040.99	4	51.64	0.25
Method Group 040.XX PCT			14	51.80	0.34
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	52.34	0.60
Direct Available Phosphate, Automated	978.01	041.40	2	51.59	0.15
Direct Available Phosphate, ICP		041.50	4	51.26	0.58
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	52.02	0.27
Method Group 041.XX PCT			14	51.78	0.79
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	10	47.39	0.19
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	45.48	0.00
Water Soluble Phosphate, Other		048.99	4	47.39	0.47
Method Group 048.XX PCT			15	47.38	0.25
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	4	0.30	0.03
Soluble Potash, ICP(Citrate)		050.51	1	0.17	0.00
Soluble Potash, Other		050.99	7	0.28	0.01
Method Group 050.XX PCT			12	0.28	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	14	2.26	0.21
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.77	0.03
Method Group 060.XX PCT			16	2.30	0.28
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.50	0.00
Acid Soluble Calcium, ICP		101.30	16	0.50	0.02
Acid Soluble Calcium, Other		101.99	1	0.52	0.00
Method Group 101.XX PCT			18	0.50	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	2.24	0.00
Acid Soluble Magnesium, ICP		121.30	16	2.17	0.22
Acid Soluble Magnesium, Other		121.99	1	2.04	0.00
Method Group 121.XX PCT			18	2.17	0.26

Sulfur, Gravimetric	980.02(a)	144.01	2	2.01	0.00
Sulfur, Spectrometric		144.70	2	1.99	0.00
Sulfur, Other		144.99	10	1.94	0.03
Method Group 144.XX PCT			14	1.95	0.05
TOTAL SULFUR (S)					
Sulfur, Other		145.99	4	1.89	0.10
Method Group 145.XX PCT			4	1.89	0.12
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	7	3	1.4
Method Group 151.XX PPM			7	3	1.7
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	1	114	0.0
Method Group 165.XX PPM			1	114	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	8	37	3.8
Total Cadmium, Other		181.99	1	36	0.0
Method Group 181.XX PPM			9	37	4.4
ALUMINUM AS Al₂O₃					
ICP, %			16	0.94	0.04
Method Group 190.XX PCT			16	0.94	0.05
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	8	364	11.5
Total Chromium, Other		191.99	1	374	0.0
Method Group 191.XX PPM			9	364	13.6
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	6	2	0.6
Acid Soluble Cobalt, Other		202.99	1	1	0.0
Method Group 202.XX PPM			7	2	0.8
ACID SOLUBLE COPPER					
Acid Soluble Copper, ICP		221.30	5	1.0	0.7
Acid Soluble Copper, Other		221.99	1	0.0	0.0
Method Group 221.XX PPM			6	1.0	0.8
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	16	1.60	0.06
Acid Soluble Iron, Other		241.99	1	1.59	0.00
Method Group 241.XX PCT			18	1.60	0.05
TOTAL LEAD					
Total Lead, ICP		251.30	6	2	0.7
Total Lead, Other		251.99	1	0.1	0.0
Method Group 251.XX PPM			7	2	1.2
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	71	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	4	70	10.1
Acid Soluble Manganese, Other		261.99	6	71	1.3
Method Group 261.XX PPM			11	71	1.7
TOTAL MERCURY					
Total Mercury, ICP		281.30	2	0.00	0.01
Method Group 281.XX PPM			2	0.02	0.01
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	7	11	0.6
Total Molybdenum, Other		289.99	1	13	0.0
Method Group 289.XX PPM			8	11	1.3
TOTAL NICKEL					
Total Nickel, ICP		291.30	7	37	2.1
Total Nickel, Other		291.99	2	25	8.8
Method Group 291.XX PPM			9	37	2.3
TOTAL SELENIUM					
Total Selenium, ICP		301.30	3	0.8	1.3
Method Group 301.XX PPM			3	0.8	1.6
SODIUM AS Na₂O					
Sodium, Other		311.99	10	0.36	0.03
Method Group 311.XX PCT			10	0.36	0.04

ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	570.2	0.0
Acid Soluble Zinc, ICP		321.30	7	562.5	19.5
Acid Soluble Zinc, Other		321.99	3	630.5	19.1
Method Group 321.XX PPM			11	571.4	24.6
FLUORIDE					
Volumetric		325.10	12	0.70	0.04
Distilled/Electrode		325.99	2	0.77	0.01
Method Group 325.XX PCT			14	0.70	0.08

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
310	11.13	0.000
Median	11.13	0.000

001.99 Ammoniacal Nitrogen		
Lab	Other	
79	11.24	-1.266
Std Dev	11.22	-1.000
24	11.21	-0.819
34	11.21	-0.819
24	11.18	-0.372
61	11.16	-0.074
23	11.16	0.000
Median	11.16	0.000
23	11.15	0.149
61	11.15	0.149
Std Dev	11.09	1.000
32	11.07	1.340
32	11.03	1.936
38	11.01	2.233

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
79	11.24	-1.635
24	11.21	-1.090
34	11.21	-1.090
Std Dev	11.21	-1.000
24	11.18	-0.545
61	11.16	-0.182
23	11.16	-0.091
Median	11.15	0.000
23	11.15	0.091
61	11.15	0.091
310	11.13	0.363
Std Dev	11.09	1.000
32	11.07	1.544
32	11.03	2.271
38	11.01	2.635

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
219	11.27	-2.010
Std Dev	11.23	-1.000

43	11.19	0.000
Median	11.19	0.000
43	11.17	0.670

010.12 Total Nitrogen		
Lab	Salicylic	
107	11.13	0.000
Median	11.13	0.000

010.60 Total Nitrogen		
Lab	Combustion	
66	11.38	-1.458
Std Dev	11.32	-1.000
24	11.31	-0.946
47	11.30	-0.828
79	11.28	-0.709
99	11.27	-0.591
315	11.25	-0.473
49	11.24	-0.394
14	11.23	-0.276
80	11.20	-0.079
219	11.19	0.000
14	11.19	0.000
Median	11.19	0.000
64	11.17	0.158
63	11.14	0.394
24	11.09	0.788
9	11.08	0.867
Std Dev	11.06	1.000
77	11.06	1.025
111	11.02	1.340
137	10.95	1.931
29	10.80	3.074

010.99 Total Nitrogen		
Lab	Other	
40	11.28	-2.251
Std Dev	11.16	-1.000
32	11.07	0.000
Median	11.07	0.000
32	11.03	0.429

010.XX Total Nitrogen		
Lab	Total Method	
66	11.38	-1.472
Std Dev	11.31	-1.000
24	11.31	-0.981
47	11.30	-0.868
79	11.28	-0.755
40	11.28	-0.717
99	11.27	-0.642
219	11.27	-0.642
315	11.25	-0.528
49	11.24	-0.453
14	11.23	-0.340
80	11.20	-0.151
219	11.19	-0.075
14	11.19	-0.075
43	11.19	-0.075
Median	11.18	0.000
64	11.17	0.075
43	11.17	0.113
63	11.14	0.302
107	11.13	0.415
24	11.09	0.679
9	11.08	0.679
32	11.07	0.868
77	11.06	0.906
Std Dev	11.05	1.000
32	11.03	1.170
111	11.02	1.208
137	10.95	1.774
29	10.80	2.869

64	11.17	0.075
43	11.17	0.113
63	11.14	0.302
107	11.13	0.415
24	11.09	0.679
9	11.08	0.679
32	11.07	0.868
77	11.06	0.906
Std Dev	11.05	1.000
32	11.03	1.170
111	11.02	1.208
137	10.95	1.774
29	10.80	2.869

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
219	52.17	-1.340
Std Dev	52.16	-1.000
Median	52.14	0.000
Std Dev	52.13	1.000
241	52.12	1.340

020.20 Total Phosphate		
Lab	Spectrometric	
310	52.84	-3.497

24	52.35	-1.775
Std Dev	52.13	-1.000
24	52.03	-0.650
9	52.02	-0.598
14	52.01	-0.580
14	52.00	-0.545
23	51.93	-0.281
34	51.87	-0.088
23	51.85	-0.018
Median	51.85	0.000
43	51.84	0.018
61	51.79	0.211
99	51.76	0.316
61	51.66	0.650
79	51.62	0.808
Std Dev	51.56	1.000
32	51.53	1.125
32	51.52	1.142
315	51.30	1.916
43	50.73	3.919

020.30 Total Phosphate		
Lab	Alka. Quimociac	
111	51.53	0.000
Median	51.53	0.000

020.40 Total Phosphate		
Lab	Automated	
137	52.63	-1.350
Std Dev	52.45	-1.000
9	52.17	-0.430
Median	51.95	0.000
219	51.74	0.430
Std Dev	51.45	1.000
111	51.24	1.430

020.XX Total Phosphate		
Lab	Total Method	
310	52.84	-3.197
137	52.63	-2.502
24	52.35	-1.614
9	52.17	-1.017
219	52.17	-1.017
Std Dev	52.16	-1.000

241	52.12	-0.872
24	52.03	-0.581
9	52.02	-0.533
14	52.01	-0.517
14	52.00	-0.484
23	51.93	-0.242
34	51.87	-0.065
23	51.85	0.000
Median	51.85	0.000
43	51.84	0.032
61	51.79	0.210
99	51.76	0.307
219	51.74	0.371
61	51.66	-0.613
79	51.62	0.759
Std Dev	51.54	1.000
111	51.53	1.033
32	51.53	1.049
32	51.52	1.066
315	51.30	1.776
111	51.24	1.986
43	50.73	3.616

030.20 Insoluble Phosphate Spectrometric		
Lab		
61	0.10	-4.467
61	0.10	-4.020
Std Dev	0.06	-1.000
23	0.06	-0.447
43	0.05	-0.402
24	0.05	0.000
Median	0.05	0.000
23	0.05	0.447
79	0.04	0.893
Std Dev	0.04	1.000
43	0.04	1.072
24	0.03	1.787

030.40 Insoluble Phosphate Automated		
Lab		
9	0.05	-1.340
Std Dev	0.05	-1.000
Median	0.05	0.000
Std Dev	0.04	1.000

34	0.04	1.340
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030.99 Insoluble Phosphate Other		
Lab		
32	0.05	-1.340
Std Dev	0.05	-1.000
Median	0.05	0.000
Std Dev	0.05	1.000
32	0.05	1.340

030.XX Insoluble Phosphate Total Method		
Lab		
61	0.10	-4.621
61	0.10	-4.159
Std Dev	0.06	-1.000
23	0.06	-0.462
43	0.05	-0.416
9	0.05	0.000
24	0.05	0.000
32	0.05	0.000
Median	0.05	0.000
23	0.05	0.462
32	0.05	0.462
34	0.04	0.924
79	0.04	0.924
Std Dev	0.04	1.000
43	0.04	1.109
24	0.03	1.848

040.20 Indirect Available Phosphate Spectrometric		
Lab		
24	52.32	-1.769
Std Dev	52.10	-1.000
24	51.98	-0.601
9	51.97	-0.550
23	51.87	-0.223
23	51.81	0.000
Median	51.81	0.000
61	51.69	0.412
79	51.58	0.790
61	51.57	0.825
Std Dev	51.51	1.000
43	50.68	3.881

040.40 Indirect Available Phosphate Automated		
Lab		
9	52.12	0.000
Median	52.12	0.000

040.99 Indirect Available Phosphate Other		
Lab		
34	51.87	-0.899
43	51.80	-0.632
Median	51.64	0.000
32	51.48	0.632
32	51.47	0.671

040.XX Indirect Available Phosphate Total Method		
Lab		
24	52.32	-1.852
9	52.12	-1.117
Std Dev	52.08	-1.000
24	51.98	-0.633
9	51.97	-0.579
23	51.87	-0.238
34	51.87	-0.238
23	51.81	-0.005
Median	51.80	0.000
43	51.80	0.005
61	51.69	0.425
79	51.58	0.819
61	51.57	0.855
Std Dev	51.52	1.000
32	51.48	1.160
32	51.47	1.196
43	50.68	4.044

041.10 Direct Available Phosphate Gravimetric Quimociac		
Lab		
47	53.30	-1.588
Std Dev	52.94	-1.000
107	52.34	0.000
Median	52.34	0.000
Std Dev	51.73	1.000
219	51.68	1.092

041.40 Direct Available Phosphate Automated		
Lab		

49	51.79	-1.340
Std Dev	51.74	-1.000
Median	51.59	0.000
Std Dev	51.44	1.000
103	51.39	1.340

041.50 Direct Available Phosphate ICP		
Lab		
63	52.64	-2.393
Std Dev	51.84	-1.000
66	51.47	-0.361
Median	51.26	0.000
47	51.06	0.361
80	50.80	0.804

041.60 Direct Available Phosphate EDTA Extract		
Lab		
29	53.03	-3.771
Std Dev	52.28	-1.000
77	52.13	-0.428
219	52.02	0.000
Median	52.02	0.000
64	51.77	0.912
Std Dev	51.75	1.000
137	51.26	2.829

041.XX Direct Available Phosphate Total Method		
Lab		
47	53.30	-2.323
29	53.03	-1.914
63	52.64	-1.319
Std Dev	52.43	-1.000
107	52.34	-0.851
77	52.13	-0.537
219	52.02	-0.360
49	51.79	-0.015
Median	51.78	0.000
64	51.77	0.015
219	51.68	0.161
66	51.47	0.475
103	51.39	0.598
137	51.26	0.805
Std Dev	51.13	1.000
47	51.06	1.112

80	50.80	1.503
048.20 Water Soluble Phosphate Spectrometric		
Lab		
9	47.98	-3.151
Std Dev	47.58	-1.000
23	47.49	-0.539
24	47.43	-0.215
23	47.42	-0.135
61	47.40	-0.054
Median	47.39	0.000
24	47.38	0.054
61	47.22	0.943
Std Dev	47.20	1.000
79	47.17	1.212
43	46.72	3.609
43	46.64	4.040
048.30 Water Soluble Phosphate Alka. Quimociac		
Lab		
111	45.48	0.000
Median	45.48	0.000
048.99 Water Soluble Phosphate Other		
Lab		
111	48.70	-2.759
Std Dev	47.86	-1.000
32	47.56	-0.369
Median	47.39	0.000
32	47.21	0.369
34	47.20	0.390
048.XX Water Soluble Phosphate Total Method		
Lab		
111	48.70	-6.350
9	47.98	-2.873
Std Dev	47.59	-1.000
32	47.56	-0.869
23	47.49	-0.531
24	47.43	-0.241
23	47.42	-0.169
61	47.40	-0.097
24	47.38	0.000
Median	47.38	0.000

61	47.22	0.797
32	47.21	0.821
34	47.20	0.869
Std Dev	47.17	1.000
79	47.17	1.038
43	46.72	3.187
43	46.64	3.573
111	45.48	9.199
050.50 %K ₂ O Soluble Potash ICP(Oxalate)		
Lab		
111	0.40	-3.970
Std Dev	0.32	-1.000
99	0.30	-0.199
Median	0.30	0.000
23	0.29	0.199
23	0.29	0.199
050.51 %K ₂ O Soluble Potash ICP(Citrate)		
Lab		
137	0.17	0.000
Median	0.17	0.000
050.99 %K ₂ O Soluble Potash Other		
Lab		
61	0.29	-1.076
Std Dev	0.29	-1.000
43	0.28	-0.435
43	0.28	-0.092
24	0.28	0.000
61	0.28	0.000
Median	0.28	0.000
Std Dev	0.27	1.000
24	0.26	2.153
80	0.10	19.376
050.XX %K ₂ O Soluble Potash Total Method		
Lab		
111	0.40	-10.055
99	0.30	-1.568
Std Dev	0.29	-1.000
23	0.29	-0.675
23	0.29	-0.675
61	0.29	-0.675

43	0.28	-0.143
Median	0.28	0.000
43	0.28	0.143
24	0.28	0.219
61	0.28	0.219
Std Dev	0.27	1.000
24	0.26	2.005
137	0.17	10.045
80	0.10	16.299
060.00 Free Water Vacuum Oven		
Lab		
79	2.57	-1.473
32	2.54	-1.352
32	2.50	-1.159
Std Dev	2.47	-1.000
111	2.41	-0.724
24	2.37	-0.531
14	2.31	-0.241
24	2.28	-0.097
Median	2.26	0.000
23	2.24	0.097
23	2.24	0.097
9	2.24	0.121
14	2.09	0.845
34	2.07	0.917
Std Dev	2.05	1.000
43	1.98	1.376
219	1.92	1.656
060.10 Free Water Vacuum Desiccate		
Lab		
61	2.81	-1.340
Std Dev	2.80	-1.000
Median	2.77	0.000
Std Dev	2.74	1.000
61	2.73	1.340
060.XX Free Water Total Method		
Lab		
61	2.81	-2.208
61	2.73	-1.865
79	2.57	-1.158
32	2.54	-1.051

Std Dev	2.53	-1.000
32	2.50	-0.879
111	2.41	-0.493
24	2.37	-0.322
14	2.31	-0.064
Median	2.30	0.000
24	2.28	0.064
23	2.24	0.236
23	2.24	0.236
9	2.24	0.257
14	2.09	0.900
34	2.07	0.965
Std Dev	2.06	1.000
43	1.98	1.372
219	1.92	1.621
101.00 Acid Soluble Calcium Atomic Absorption		
Lab	%CaO	
219	0.50	0.000
Median	0.50	0.000
101.30 Acid Soluble Calcium ICP		
Lab	%CaO	
32	0.61	-5.783
32	0.57	-3.808
61	0.53	-1.269
Std Dev	0.52	-1.000
24	0.52	-0.987
14	0.51	-0.423
34	0.51	-0.423
43	0.51	-0.226
61	0.51	-0.141
Median	0.50	0.000
9	0.50	0.141
14	0.50	0.423
23	0.49	0.705
24	0.49	0.705
23	0.49	0.987
Std Dev	0.48	1.000
43	0.48	1.179
315	0.44	3.526
111	0.43	4.091

101.99 Acid Soluble Calcium		
Lab	%CaO	Other
219	0.52	0.000
Median	0.52	0.000

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
32	0.61	-4.995
32	0.57	-3.289
61	0.53	-1.096
Std Dev	0.52	-1.000

121.99 Acid Soluble Magnesium		
Lab	%MgO	Other
219	2.04	0.000
Median	2.04	0.000

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
9	0.50	0.122
219	0.50	0.171
14	0.50	0.365
23	0.49	0.609
24	0.49	0.609
23	0.49	0.853
Std Dev	0.48	1.000
43	0.48	1.018
315	0.44	3.045
111	0.43	3.533

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	2.24	0.000
Median	2.24	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
24	2.25	-0.381
32	2.24	-0.336
23	2.23	-0.292
24	2.23	-0.292
32	2.23	-0.269
23	2.22	-0.247
61	2.21	-0.202
61	2.20	-0.135

121.99 Acid Soluble Magnesium		
Lab	%MgO	Other
9	2.14	0.135
14	1.98	0.852
14	1.98	0.852
Std Dev	1.94	1.000

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
34	1.93	1.054
43	1.92	1.099
43	1.90	1.211
111	1.81	1.615
315	1.47	3.117

121.99 Acid Soluble Magnesium		
Lab	%MgO	Other
219	2.04	0.000
Median	2.04	0.000

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
24	2.25	-0.396
32	2.24	-0.350
219	2.24	-0.326
23	2.23	-0.303
24	2.23	-0.303
32	2.23	-0.280
23	2.22	-0.256
61	2.21	-0.210
61	2.20	-0.140
Median	2.17	0.000

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	2.04	0.564
14	1.98	0.886
14	1.98	0.886
Std Dev	1.95	1.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
34	1.93	1.095
43	1.92	1.142
43	1.90	1.258
111	1.81	1.678
315	1.47	3.239

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
241	2.01	-1.340
Std Dev	2.01	-1.000
Median	2.01	0.000

144.70 Sulfur Spectrometric		
Lab		
14	1.99	-1.340
Std Dev	1.99	-1.000
Median	1.99	0.000
Std Dev	1.99	1.000
14	1.99	1.340

144.99 Sulfate Sulfur (S)		
Lab	Other	
32	1.98	-0.942
24	1.96	-0.507
9	1.96	-0.362
23	1.95	-0.072
23	1.95	-0.072
Median	1.94	0.000
24	1.94	0.072
32	1.93	0.507
Std Dev	1.91	1.000
34	1.90	1.231
61	1.89	1.405
61	1.88	1.811

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
241	2.01	-1.496
79	2.01	-1.371
Std Dev	1.99	-1.000
14	1.99	-0.997
14	1.99	-0.873
32	1.98	-0.623
24	1.96	-0.249
9	1.96	-0.125
Median	1.95	0.000
23	1.95	0.125
23	1.95	0.125
24	1.94	0.249
32	1.93	0.623
Std Dev	1.91	1.000
34	1.90	1.247
61	1.89	1.396

145.99 Total Sulfur (S)		
Lab	Other	
43	1.98	-0.910
43	1.94	-0.506
Median	1.89	0.000
111	1.84	0.506
Std Dev	1.79	1.000
315	1.75	1.416

145.XX Total Sulfur (S)		
Lab	Total Method	
43	1.98	-0.910
43	1.94	-0.506
Median	1.89	0.000
111	1.84	0.506
Std Dev	1.79	1.000
315	1.75	1.416

151.30 Total Arsenic ICP		
Lab		
9	<4.	0.000
43	5.40	-1.557
43	5.20	-1.410
18	4.80	-1.116
Std Dev	4.64	-1.000
24	3.28	0.000
Median	3.28	0.000
315	3.20	0.059
61	3.15	0.095
61	3.10	0.132

151.XX Total Arsenic Total Method		
Lab		
9	<4.	0.000
43	5.40	-1.557
43	5.20	-1.410
18	4.80	-1.116
Std Dev	4.64	-1.000
24	3.28	0.000
Median	3.28	0.000
315	3.20	0.059
61	3.15	0.095

61	3.10	0.132
165.99 Acid Soluble Boron		
Lab	PPM	Other
24	114.00	0.000
Median	114.00	0.000
65.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	114.00	0.000
Median	114.00	0.000
181.30 Total Cadmium		
Lab	PPM	ICP
315	40.75	-1.059
Std Dev	40.53	-1.000
9	39.10	-0.622
18	38.45	-0.450
61	37.00	-0.066
Median	36.75	0.000
61	36.50	0.066
43	33.59	0.836
43	33.43	0.879
Std Dev	32.97	1.000
111	31.00	1.522
181.99 Total Cadmium		
Lab	PPM	Other
24	36.40	0.000
Median	36.40	0.000
181.XX Total Cadmium		
Lab	PPM	Total Method
315	40.75	-1.172
Std Dev	40.13	-1.000
9	39.10	-0.717
18	38.45	-0.538
61	37.00	-0.138
61	36.50	0.000
Median	36.50	0.000
24	36.40	0.028
43	33.59	0.802
43	33.43	0.846
Std Dev	32.87	1.000

111	31.00	1.516
190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
32	1.04	-2.281
32	1.00	-1.483
14	1.00	-1.369
14	0.99	-1.140
Std Dev	0.98	-1.000
9	0.97	-0.798
24	0.97	-0.798
34	0.94	-0.114
61	0.94	-0.114
Median	0.94	0.000
24	0.93	0.114
23	0.93	0.228
43	0.92	0.342
43	0.92	0.456
61	0.92	0.456
23	0.91	0.570
Std Dev	0.89	1.000
315	0.86	1.711
111	0.59	7.983
190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
32	1.04	-2.281
32	1.00	-1.483
14	1.00	-1.369
14	0.99	-1.140
Std Dev	0.98	-1.000
9	0.97	-0.798
24	0.97	-0.798
34	0.94	-0.114
61	0.94	-0.114
Median	0.94	0.000
24	0.93	0.114
23	0.93	0.228
43	0.92	0.342
43	0.92	0.456
61	0.92	0.456
23	0.91	0.570
Std Dev	0.89	1.000
315	0.86	1.711

111	0.59	7.983
191.30 Total Chromium		
Lab	PPM	ICP
61	381.00	-1.504
61	380.00	-1.417
Std Dev	375.19	-1.000
18	371.45	-0.676
9	364.30	-0.056
Median	363.65	0.000
315	363.00	0.056
43	359.00	0.403
43	355.50	0.706
Std Dev	352.11	1.000
111	312.00	4.476
191.99 Total Chromium		
Lab	PPM	Other
24	374.00	0.000
Median	374.00	0.000
191.XX Total Chromium		
Lab	PPM	Total Method
61	381.00	-1.492
61	380.00	-1.403
Std Dev	375.49	-1.000
24	374.00	-0.867
18	371.45	-0.639
9	364.30	0.000
Median	364.30	0.000
315	363.00	0.116
43	359.00	0.473
43	355.50	0.786
Std Dev	353.11	1.000
111	312.00	4.672
202.99 Acid Soluble Cobalt		
Lab	PPM	Other
24	1.35	0.000
Median	1.35	0.000

202.XX Acid Soluble Cobalt	
Lab	Total Method
61	3.00 -1.576
61	3.00 -1.576
Std Dev	2.63 -1.000
18	2.05 -0.079
43	2.00 0.000
43	2.00 0.000
Median	2.00 0.000
Std Dev	1.37 1.000
24	1.35 1.025
111	1.00 1.576
221.30 Acid Soluble Copper	
Lab	ICP
61	<0.4 0.000
61	<0.4 0.000
111	4.50 -4.690
18	2.00 -1.340
Std Dev	1.75 -1.000
43	1.00 0.000
43	1.00 0.000
Median	1.00 0.000
315	0.78 0.302
221.99 Acid Soluble Copper	
Lab	Other
24	0.70 0.000
Median	0.70 0.000
221.XX Acid Soluble Copper	
Lab	Total Method
61	<0.4 0.000
61	<0.4 0.000
111	4.50 -5.105
18	2.00 -1.459
Std Dev	1.69 -1.000
43	1.00 0.000
43	1.00 0.000

Median	1.00	0.000
315	0.78	0.328
24	0.70	0.438

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
32	1.68	-1.274
32	1.68	-1.274
Std Dev	1.66	-1.000
14	1.65	-0.747
14	1.64	-0.659
34	1.63	-0.483
24	1.62	-0.308
24	1.61	-0.132
61	1.61	-0.132
Median	1.60	0.000
23	1.60	0.132
23	1.59	0.220
61	1.59	0.220
9	1.58	0.483
Std Dev	1.55	1.000
43	1.50	1.801
43	1.50	1.889
315	1.47	2.329
111	1.38	3.998

241.99 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Other
219	1.59	0.000
Median	1.59	0.000

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
32	1.68	-1.623
32	1.68	-1.623
Std Dev	1.65	-1.000
14	1.65	-0.951
219	1.64	-0.873
14	1.64	-0.839
34	1.63	-0.615
24	1.62	-0.392
24	1.61	-0.168
61	1.61	-0.168
Median	1.60	0.000

23	1.60	0.168
23	1.59	0.280
61	1.59	0.280
219	1.59	0.380
9	1.58	0.615
Std Dev	1.56	1.000
43	1.50	2.294
43	1.50	2.406
315	1.47	2.965
111	1.38	5.091

251.30 Total Lead		
Lab	PPM	ICP
18	3.65	-2.910
Std Dev	2.40	-1.000
43	2.00	-0.383
43	2.00	-0.383
Median	1.75	0.000
61	1.50	0.383
Std Dev	1.10	1.000
61	1.00	1.149
315	0.28	2.259

251.99 Total Lead		
Lab	PPM	Other
24	0.14	0.000
Median	0.14	0.000

251.XX Total Lead		
Lab	PPM	Total Method
18	3.65	-2.114
Std Dev	2.52	-1.000
43	2.00	-0.492
43	2.00	-0.492
61	1.50	0.000
Median	1.50	0.000
61	1.00	0.492
Std Dev	0.48	1.000
315	0.28	1.205
24	0.14	1.338

261.11 Acid Soluble Manganese		
Lab	PPM	Atomic Absorption
219	70.81	0.000

Median	70.81	0.000
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261.30 Acid Soluble Manganese		
Lab	PPM	ICP
111	109.50	-3.866
Std Dev	80.50	-1.000
9	71.25	-0.086
Median	70.38	0.000
315	69.50	0.086
18	60.50	0.976

261.99 Acid Soluble Manganese		
Lab	PPM	Other
24	71.60	-0.767
43	71.50	-0.687
43	71.00	-0.289
Median	70.64	0.000
219	70.28	0.289
61	69.50	0.907
Std Dev	69.38	1.000
61	68.50	1.704

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
111	109.50	-27.650
Std Dev	72.21	-1.000
24	71.60	-0.565
43	71.50	-0.493
9	71.25	-0.314
43	71.00	-0.136
219	70.81	0.000
Median	70.81	0.000
219	70.28	0.382
61	69.50	0.936
315	69.50	0.936
Std Dev	69.41	1.000
61	68.50	1.651
18	60.50	7.368

281.30 Total Mercury		
Lab	PPM	ICP
24	0.03	-1.340
Std Dev	0.03	-1.000
Median	0.02	0.000

Std Dev	0.01	1.000
315	0.01	1.340

281.XX Total Mercury		
Lab	PPM	Total Method
24	0.03	-1.340
Std Dev	0.03	-1.000
Median	0.02	0.000
Std Dev	0.01	1.000
315	0.01	1.340

289.30 Total Molybdenum		
Lab	PPM	ICP
315		

289.99 Total Molybdenum		
Lab	PPM	Other
24	13.00	0.000
Median	13.00	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
24	13.00	-1.881
315	12.60	-1.505
18	12.20	-1.128
Std Dev	12.06	-1.000
43	11.00	0.000
43	11.00	0.000
61	11.00	0.000
Median	11.00	0.000
61	10.50	0.470
111	10.00	0.940

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301.30		Total Selenium
Lab	PPM	ICP
18	3.90	-2.281
Std Dev	2.18	-1.000
24	0.84	0.000
Median	0.84	0.000
315	0.31	0.399

301.XX		Total Selenium
Lab	PPM	Total Mthod
18	3.90	-2.281
Std Dev	2.18	-1.000
24	0.84	0.000
Median	0.84	0.000
315	0.31	0.399

311.99		Sodium
Lab	%Na ₂ O	Other
24	0.39	-1.144
Std Dev	0.39	-1.000
24	0.38	-0.817
61	0.38	-0.817
61	0.37	-0.327
23	0.36	-0.163
Median	0.36	0.000
23	0.35	0.163
43	0.34	0.526
43	0.33	0.685
315	0.33	0.981
Std Dev	0.32	1.000
111	0.20	5.231

311.XX		Sodium
Lab	%Na ₂ O	Total Method
24	0.39	-1.144
Std Dev	0.39	-1.000
24	0.38	-0.817
61	0.38	-0.817
61	0.37	-0.327
23	0.36	-0.163

Median	0.36	0.000
23	0.35	0.163
43	0.34	0.526
43	0.33	0.685
315	0.33	0.981
Std Dev	0.32	1.000
111	0.20	5.231

321.00		Acid Soluble Zinc
Lab		Atomic Absorption
219	570.20	0.000
Median	570.20	0.000

321.30		Acid Soluble Zinc
Lab	PPM	ICP
9	579.80	-0.886
24	577.00	-0.742
18	571.35	-0.453
315	562.50	0.000
Median	562.50	0.000
61	552.00	0.538
61	544.00	0.947
Std Dev	542.97	1.000
111	511.50	2.611

321.99		Acid Soluble Zinc
Lab		Other
43	640.00	-0.498
43	630.50	0.000
Median	630.50	0.000
Std Dev	611.41	1.000
219	588.85	2.182

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
43	640.00	-3.398
43	630.50	-2.927
Std Dev	591.56	-1.000
219	588.85	-0.866
9	579.80	-0.418
24	577.00	-0.280
18	571.35	0.000
Median	571.35	0.000
219	570.20	0.057

315	562.50	0.438
61	552.00	0.958
Std Dev	551.14	1.000
61	544.00	1.354
111	511.50	2.962

325.10		Fluoride
Lab	%	Electrode
111	1.31	-16.767
32	0.81	-2.886
32	0.81	-2.886
79	0.71	-0.275
23	0.71	-0.137
24	0.70	0.000
24	0.70	0.000
Median	0.70	0.000
23	0.70	0.137
9	0.69	0.275
34	0.67	0.825
14	0.61	2.611
14	0.60	2.749

325.99		Fluoride
Lab	%	Other
61	0.79	-1.340
Median	0.77	0.000
61	0.76	1.340

325.XX		Fluoride
Lab	%	Total Method
111	1.31	-9.045
32	0.81	-1.526
32	0.81	-1.526
61	0.79	-1.303
61	0.76	-0.782
79	0.71	-0.112
23	0.71	-0.037
Median	0.70	0.000
24	0.70	0.037
24	0.70	0.037
23	0.70	0.112
9	0.69	0.186
34	0.67	0.484
14	0.61	1.452

14	0.60	1.526
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291.XX		Total Nickel
Lab	PPM	Total Method
9	38.1	-0.6
61	38.0	-0.6
61	37.5	-0.3
24	37.0	-0.1
18	36.8	0.0
median	36.8	0.0
43	35.0	0.8
43	35.0	0.8
StdDev	34.5	1.0
315	33.3	1.5
111	13.5	10.2