

AFPC

Sample

2015-07

Grade

10-50-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	11	10.79	0.05
Method Group 001.XX PCT			11	10.79	0.06
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	10.88	0.08
Total Nitrogen, Salicylic	955.04d	010.12	1	11.01	0.00
Total Nitrogen, Combustion	993.13	010.60	21	10.75	0.17
Total Nitrogen, Other		010.99	2	10.76	0.02
Method Group 010.XX PCT			27	10.79	0.16
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	50.66	0.00
Total Phosphate, Spectrometric	978.02	020.20	19	50.53	0.20
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	50.28	0.00
Total Phosphate, ICP	970.03	020.40	3	50.38	0.18
Total Phosphate, ICP, Lithium	970.02	020.50	1	48.55	0.00
Total Phosphate, Other	993.13	020.99	1	47.10	0.00
Method Group 020.XX PCT			26	50.52	0.30
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	8	0.28	0.10
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.21	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.38	0.01
Insoluble Phosphate, Other		030.99	2	0.14	0.04
Method Group 030.XX PCT			13	0.28	0.16
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	50.30	0.14
Indirect Available Phosphate, Other		040.99	3	50.23	0.03
Method Group 040.XX PCT			13	50.25	0.19
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	50.67	0.06
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	50.93	0.00
Direct Available Phosphate, Automated	978.01	041.40	3	49.43	0.35
Direct Available Phosphate, ICP		041.50	5	49.12	0.71
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	50.23	0.23
Method Group 041.XX PCT			15	50.20	1.24
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	12	44.18	0.30
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	42.48	0.00
Water Soluble Phosphate, Other		048.99	4	44.31	0.60
Method Group 048.XX PCT			17	44.17	0.41
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.26	0.01
Soluble Potash, ICP(Citrate)		050.51	1	0.26	0.00
Soluble Potash, Other		050.99	9	0.25	0.00
Method Group 050.XX PCT			13	0.25	0.00
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	12	2.49	0.14
Free Water, Other		060.99	4	2.32	0.14
Method Group 060.XX PCT			16	2.45	0.23
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.80	0.00
Acid Soluble Calcium, ICP		101.30	15	0.76	0.05
Acid Soluble Calcium, Other		101.99	2	0.45	0.26
Method Group 101.XX PCT			18	0.78	0.06
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.56	0.00
Acid Soluble Magnesium, ICP		121.30	15	1.50	0.13

Acid Soluble Magnesium, Other	121.99	2	0.83	0.48
Method Group 121.XX PCT		18	1.50	0.17
SULFATE SULFUR (S)				
Sulfur, Gravimetric	980.02(a) 144.01	1	1.61	0.00
Sulfur, Spectrometric	144.70	2	1.60	0.00
Sulfur, Other	144.99	11	1.64	0.05
Method Group 144.XX PCT		14	1.63	0.05
TOTAL SULFUR (S)				
Sulfur, Other	145.99	4	1.6	0.0
Method Group 145.XX PCT		4	1.6	0.0
TOTAL ARSENIC				
Total Arsenic, ICP	980.02(b) 151.02	7	18	3.2
Total Arsenic, Other	151.99	1	4	0.0
Method Group 151.XX PPM		8	17	6.1
ACID SOLUBLE BORON				
Acid Soluble Boron, Other	165.99	1	51	0.0
Method Group 165.XX PPM		1	51	0.0
TOTAL CADMIUM				
Total Cadmium, ICP	181.30	8	3.5	0.7
Total Cadmium, Other	181.99	2	2.3	1.0
Method Group 181.XX PPM		10	3.5	0.8
ALUMINUM AS Al₂O₃				
ICP, %		14	1.45	0.12
Water Soluble Chlorine, Other, %	190.99	1	1.50	0.00
Method Group 190.XX PCT		15	1.46	0.12
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	8	127	2.8
Total Chromium, Other	191.99	2	74	43.3
Method Group 191.XX PPM		10	127	5.7
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	8	4	0.5
Acid Soluble Cobalt, Other	202.99	1	4	0.0
Method Group 202.XX PPM		9	4	0.6
ACID SOLUBLE COPPER				
Acid Soluble Copper, ICP	221.30	4	1.1	1.5
Acid Soluble Copper, Other	221.99	1	0.0	0.0
Method Group 221.XX PPM		5	1.0	0.2
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	15	2.96	0.09
Acid Soluble Iron, Other	241.99	2	1.65	0.96
Method Group 241.XX PCT		18	2.95	0.11
TOTAL LEAD				
Total Lead, ICP	251.30	7	3	0.5
Total Lead, Other	251.99	2	1.7	0.6
Method Group 251.XX PPM		9	3	0.5
ACID SOLUBLE MANGANESE				
Acid Soluble Manganese, ICP	972.02a 261.30	3	285	8.9
Acid Soluble Manganese, Other	261.99	6	303	22.0
Method Group 261.XX PPM		9	299	23.2
WATER SOLUBLE MANGANESE				
Water Soluble Manganese, Other	271.99	2	306	1
Method Group 271.XX PCT		2	306	1.1
TOTAL MERCURY				
Total Mercury, ICP	281.30	1	0.00	0.00
Method Group 281.XX PPM		1	0.15	0.00
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	8	12	0.8
Total Molybdenum, Other	289.99	1	15	0.0
Method Group 289.XX PPM		9	12	1.4
TOTAL NICKEL				
Total Nickel, ICP	291.30	6	14.9	0.9

Total Nickel, icp	291.99	3	14.1	5.4	
Method Group 291.XX PPM		9	14.8	1.7	
TOTAL SELENIUM					
Total Selenium, ICP	301.30	2	1.4	0.7	
Total Selenium, Other	301.99	1	1	0.0	
Method Group 301.XX PPM		3	0.8	0.8	
SODIUM AS Na₂O					
Sodium, Other	311.99	10	0.29	0.02	
Method Group 311.XX PCT		10	0.29	0.03	
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	45.1	0.0
Acid Soluble Zinc, ICP		321.30	7	44.8	15.7
Acid Soluble Zinc, Other		321.99	3	45.5	14.8
Method Group 321.XX %			11	45.1	3.3
FLUORIDE					
Volumentric	325.10	11	2.05	0.09	
Distilled/Electrode	325.99	2	2.10	0.01	
Method Group 325.XX PCT		13	2.05	0.12	

001.99 Ammoniacal Nitrogen		
Lab		Other
34	10.91	-2.393
Std Dev	10.84	-1.000
24	10.83	-0.861
23	10.82	-0.670
61	10.82	-0.574
61	10.82	-0.574
32	10.79	0.000
Median	10.79	0.000
23	10.78	0.191
79	10.77	0.383
Std Dev	10.73	1.000
32	10.73	1.053
310	10.66	2.393
38	9.88	17.296

001.XX Ammoniacal Nitrogen		
Lab		Total Method
34	10.91	-2.393
Std Dev	10.84	-1.000
24	10.83	-0.861
23	10.82	-0.670
61	10.82	-0.574
61	10.82	-0.574
32	10.79	0.000
Median	10.79	0.000
23	10.78	0.191
79	10.77	0.383
Std Dev	10.73	1.000
32	10.73	1.053
310	10.66	2.393
38	9.88	17.296

010.11 Total Nitrogen		
Lab		Modified Comprehensive
43	10.91	-0.447
43	10.88	0.000
Median	10.88	0.000
Std Dev	10.80	1.000
219	10.70	2.233

010.12 Total Nitrogen		
Lab		Salicylic

107	11.01	0.000
Median	11.01	0.000

010.60 Total Nitrogen		
Lab		Combustion
49	11.04	-1.660
47	10.97	-1.282
Std Dev	10.92	-1.000
42	10.92	-0.990
29	10.87	-0.699
31	10.84	-0.524
9	10.82	-0.408
24	10.81	-0.350
14	10.80	-0.291
219	10.80	-0.291
79	10.79	-0.233
77	10.75	0.000
Median	10.75	0.000
14	10.73	0.117
110	10.71	0.262
63	10.70	0.291
80	10.65	0.583
111	10.59	0.932
99	10.59	0.961
Std Dev	10.58	1.000
66	10.54	1.253
103	10.44	1.835
64	10.34	2.389
137	10.08	3.933

010.99 Total Nitrogen		
Lab		Other
32	10.79	-1.340
Std Dev	10.78	-1.000
Median	10.76	0.000
Std Dev	10.74	1.000
32	10.73	1.340

010.XX Total Nitrogen		
Lab		Total Method
49	11.04	-1.861
107	11.01	-1.638
47	10.97	-1.377
42	10.92	-1.005

Std Dev	10.92	-1.000
43	10.91	-0.931
43	10.88	-0.670
29	10.87	-0.633
31	10.84	-0.409
9	10.82	-0.261
24	10.81	-0.186
14	10.80	-0.112
219	10.80	-0.112
79	10.79	-0.037
32	10.79	0.000
Median	10.79	0.000
77	10.75	0.261
14	10.73	0.409
32	10.73	0.409
110	10.71	0.596
63	10.70	0.633
219	10.70	0.633
Std Dev	10.65	1.000
80	10.65	1.005
111	10.59	1.452
99	10.59	1.489
66	10.54	1.861
103	10.44	2.606
64	10.34	3.313
137	10.08	5.286

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	50.66	0.000
Median	50.66	0.000

020.20 Total Phosphate		
Lab		Spectrometric
110	50.78	-1.264
9	50.74	-1.087
Std Dev	50.72	-1.000
38	50.69	-0.819
31	50.68	-0.784
61	50.66	-0.683
79	50.64	-0.582
34	50.62	-0.480
24	50.57	-0.228
23	50.55	-0.101

14	50.53	0.000
23	50.53	0.000
Median	50.53	0.000
61	50.52	0.025
14	50.50	0.126
43	50.42	0.556
32	50.36	0.860
43	50.34	0.935
Std Dev	50.33	1.000
32	50.32	1.037
99	50.30	1.138
310	50.25	1.391

020.30 Total Phosphate		
Lab		Alka. Quimociac
111	50.28	0.000
Median	50.28	0.000

020.40 Total Phosphate		
Lab		Automated
137	50.71	-1.870
Std Dev	50.55	-1.000
219	50.38	0.000
Median	50.38	0.000
111	50.23	0.810

020.50 Total Phosphate		
Lab		ICP
42	48.55	0.000
Median	48.55	0.000

020.99 Total Phosphate		
Lab		Other
42	47.10	0.000
Median	47.10	0.000

020.XX Total Phosphate		
Lab		Total Method
110	50.78	-1.037
Std Dev	50.77	-1.000
9	50.74	-0.893
137	50.71	-0.770
38	50.69	-0.676
31	50.68	-0.647

61	50.66	-0.565
219	50.66	-0.544
79	50.64	-0.483
34	50.62	-0.400
24	50.57	-0.195
23	50.55	-0.092
14	50.53	-0.010
23	50.53	-0.010
Median	50.52	0.000
61	50.52	0.010
14	50.50	0.092
43	50.42	0.442
219	50.38	0.606
32	50.36	0.688
43	50.34	0.750
32	50.32	0.832
99	50.30	0.914
Std Dev	50.28	1.000
111	50.28	1.017
310	50.25	1.119
111	50.23	1.201
42	48.55	8.102
42	47.10	14.057

030.20 Insoluble Phosphate		
Lab		Spectrometric
43	0.45	-1.748
24	0.41	-1.353
Std Dev	0.37	-1.000
43	0.37	-0.952
23	0.28	0.000
23	0.28	0.000
Median	0.28	0.000
79	0.27	0.100
61	0.19	0.852
61	0.19	0.902

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.21	0.000
Median	0.21	0.000

030.40 Insoluble Phosphate		
Lab		Automated

34	0.39	-1.340
Std Dev	0.39	-1.000
Median	0.38	0.000
Std Dev	0.36	1.000
9	0.36	1.340

030.99 Insoluble Phosphate		
Lab		Other
32	0.19	-1.340
Std Dev	0.18	-1.000
Median	0.14	0.000
Std Dev	0.10	1.000
32	0.09	1.340

030.XX Insoluble Phosphate		
Lab		Total Method
43	0.45	-1.299
24	0.41	-1.005
Std Dev	0.41	-1.000
34	0.39	-0.856
43	0.37	-0.707
9	0.36	-0.633
23	0.28	0.000
23	0.28	0.000
Median	0.28	0.000
79	0.27	0.074
31	0.21	0.484
32	0.19	0.633
61	0.19	0.633
61	0.19	0.670
Std Dev	0.14	1.000
32	0.09	1.377

040.20 Indirect Available Phosphate		
Lab		Spectrometric
61	50.48	-1.242
31	50.47	-1.207
Std Dev	50.44	-1.000
9	50.38	-0.568
79	50.38	-0.532
61	50.33	-0.213
Median	50.30	0.000
23	50.27	0.213
23	50.25	0.355

24	50.17	0.923
Std Dev	50.16	1.000
43	50.05	1.810
43	49.89	2.911

040.99 Indirect Available Phosphate		
Lab		Other
34	50.24	-0.357
32	50.23	0.000
Median	50.23	0.000
Std Dev	50.20	1.000
32	50.17	2.323

040.XX Indirect Available Phosphate		
Lab		Total Method
61	50.48	-1.471
31	50.47	-1.438
Std Dev	50.40	-1.000
9	50.38	-0.850
79	50.38	-0.817
61	50.33	-0.523
23	50.27	-0.131
23	50.25	0.000
Median	50.25	0.000
34	50.24	0.065
32	50.23	0.131
24	50.17	0.523
32	50.17	0.556
Std Dev	50.10	1.000
43	50.05	1.340
43	49.89	2.353

041.10 Direct Available Phosphate		
Lab		Gravimetric Quimociac
219	50.74	-1.340
Std Dev	50.72	-1.000
Median	50.67	0.000
Std Dev	50.61	1.000
107	50.59	1.340

041.20 Direct Available Phosphate		
Lab		Spectrometric
47	50.93	0.000
Median	50.93	0.000

041.40 Direct Available Phosphate		
Lab		Automated
49	49.58	-0.430
38	49.43	0.000
Median	49.43	0.000
Std Dev	49.08	1.000
103	48.64	2.250

041.50 Direct Available Phosphate		
Lab		ICP
63	50.67	-2.182
64	50.01	-1.249
Std Dev	49.83	-1.000
47	49.12	0.000
Median	49.12	0.000
66	49.05	0.091
80	49.05	0.091

041.60 Direct Available Phosphate		
Lab		EDTA Extract
29	51.35	-4.912
Std Dev	50.46	-1.000
137	50.24	-0.055
Median	50.23	0.000
219	50.22	0.055
77	50.20	0.120

041.XX Direct Available Phosphate		
Lab		Total Method
29	51.35	-1.133
Std Dev	51.21	-1.000
47	50.93	-0.714
219	50.74	-0.532
63	50.67	-0.463
107	50.59	-0.384
137	50.24	-0.039
219	50.22	-0.015
77	50.20	0.000
Median	50.20	0.000

64	50.01	0.192
49	49.58	0.616
38	49.43	0.764
Std Dev	49.19	1.000

47	49.12	1.069
66	49.05	1.133
80	49.05	1.133
103	48.64	1.537

048.20 Water Soluble Phosphate Spectrometric		
Lab		
9	44.56	-1.237
Std Dev	44.48	-1.000
14	44.35	-0.544
14	44.33	-0.495
79	44.32	-0.462
61	44.30	-0.396
23	44.19	-0.033
Median	44.18	0.000
31	44.17	0.033
23	43.98	0.676
61	43.93	0.825
Std Dev	43.88	1.000
43	43.88	1.006
24	43.77	1.352
43	43.74	1.468

048.30 Water Soluble Phosphate Alka. Quimociac		
Lab		
111	42.48	0.000
Median	42.48	0.000

048.99 Water Soluble Phosphate Other		
Lab		
32	44.78	-0.779
32	44.50	-0.313
Median	44.31	0.000
34	44.12	0.313
Std Dev	43.71	1.000
111	42.69	2.705

048.XX Water Soluble Phosphate Total Method		
Lab		
32	44.78	-1.782
9	44.56	-1.134
Std Dev	44.51	-1.000
32	44.50	-0.957
14	44.35	-0.515

14	44.33	-0.471
79	44.32	-0.442
61	44.30	-0.383
23	44.19	-0.059
31	44.17	0.000
Median	44.17	0.000
34	44.12	0.147
23	43.98	0.574
61	43.93	0.707
43	43.88	0.869
Std Dev	43.83	1.000
24	43.77	1.178
43	43.74	1.281
111	42.69	4.373
111	42.48	4.977

050.50 %K ₂ O Soluble Potash ICP(Oxalate)		
Lab		
23	0.26	-0.893
23	0.26	0.000
Median	0.26	0.000
Std Dev	0.25	1.000
99	0.25	1.787

050.51 %K ₂ O Soluble Potash ICP(Citrate)		
Lab		
137	0.26	0.000
Median	0.26	0.000

050.99 Soluble Potash Other		
Lab	%K ₂ O	
107	0.27	-17.592
61	0.27	-13.194
43	0.25	-1.340
Std Dev	0.25	-1.000
31	0.25	0.000
61	0.25	0.000
80	0.25	0.000
111	0.25	0.000
Median	0.25	0.000
Std Dev	0.25	1.000
43	0.25	2.475
24	0.24	8.796

050.XX Soluble Potash Total Method		
Lab	%K ₂ O	
107	0.27	-5.360
61	0.27	-4.020
23	0.26	-2.680
23	0.26	-1.340
137	0.26	-1.340
Std Dev	0.25	-1.000
43	0.25	-0.408
31	0.25	0.000
61	0.25	0.000
80	0.25	0.000
111	0.25	0.000
Median	0.25	0.000
43	0.25	0.754
Std Dev	0.25	1.000
99	0.25	1.340
24	0.24	2.680

060.00 Free Water Vacuum Oven		
Lab		
24	2.75	-1.851
79	2.71	-1.534
Std Dev	2.63	-1.000
111	2.61	-0.864
9	2.58	-0.617
23	2.54	-0.370
32	2.50	-0.088
Median	2.49	0.000
23	2.48	0.088
34	2.43	0.406
32	2.42	0.476
Std Dev	2.35	1.000
31	2.32	1.217
61	2.30	1.358
61	2.01	3.403

060.99 Free Water Other		
Lab		
275	2.57	-1.694
Std Dev	2.46	-1.000
275	2.40	-0.519
Median	2.32	0.000
14	2.25	0.519

14	2.24	0.553
----	------	-------

060.XX Free Water Total Method		
Lab		
24	2.75	-1.548
79	2.71	-1.314
Std Dev	2.64	-1.000
111	2.61	-0.820
9	2.58	-0.637
275	2.57	-0.585
23	2.54	-0.455
32	2.50	-0.247
23	2.48	-0.117
Median	2.45	0.000
34	2.43	0.117
32	2.42	0.169
275	2.40	0.299
31	2.32	0.716
61	2.30	0.820
Std Dev	2.26	1.000
14	2.25	1.080
14	2.24	1.106
61	2.01	2.329

101.00 Acid Soluble Calcium Atomic Absorption		
Lab	%CaO	
219	0.80	0.000
Median	0.80	0.000

101.30 Acid Soluble Calcium ICP		
Lab	%CaO	
32	1.01	-5.025
32	1.00	-4.828
24	0.81	-1.084
34	0.81	-1.084
Std Dev	0.81	-1.000
61	0.81	-0.985
14	0.80	-0.887
14	0.80	-0.887
9	0.76	0.000
23	0.76	0.000
Median	0.76	0.000
111	0.75	0.099
23	0.75	0.197

AFPC Check Sample 07-2015

31	0.73	0.414
61	0.73	0.591
43	0.72	0.641
43	0.72	0.702

101.99 Acid Soluble Calcium		
Lab	%CaO	Other
219	0.80	-1.340
Std Dev	0.71	-1.000
Median	0.45	0.000
Std Dev	0.19	1.000
42	0.10	1.340

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
32	1.01	-4.670
32	1.00	-4.470
Std Dev	0.83	-1.000
24	0.81	-0.670
34	0.81	-0.670
61	0.81	-0.570
14	0.80	-0.470
14	0.80	-0.470
219	0.80	-0.460
219	0.80	-0.430
Median	0.78	0.000
9	0.76	0.430
23	0.76	0.430
111	0.75	0.530
23	0.75	0.630
31	0.73	0.850
Std Dev	0.73	1.000
61	0.73	1.030
43	0.72	1.080
43	0.72	1.142
42	0.10	13.547

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	1.56	0.000
Median	1.56	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
219	1.56	0.000
Median	1.56	0.000

23	1.62	-0.893
32	1.62	-0.893
32	1.61	-0.782
23	1.60	-0.744
34	1.58	-0.596
61	1.57	-0.484
9	1.54	-0.261
14	1.50	0.000
Median	1.50	0.000
14	1.49	0.074
31	1.47	0.261
61	1.45	0.372
111	1.37	0.968
Std Dev	1.37	1.000
43	1.33	1.266
43	1.33	1.303
24	0.61	6.626

121.99 Acid Soluble Magnesium		
Lab	%MgO	Other
219	1.48	-1.340
Std Dev	1.31	-1.000
Median	0.83	0.000
Std Dev	0.35	1.000
42	0.18	1.340

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
23	1.62	-0.899
32	1.62	-0.899
32	1.61	-0.791
23	1.60	-0.755
34	1.58	-0.612
61	1.57	-0.504
219	1.56	-0.486
9	1.54	-0.288
14	1.50	-0.036
Median	1.50	0.000
14	1.49	0.036
219	1.48	0.126
31	1.47	0.216
61	1.45	0.324
111	1.37	0.899
Std Dev	1.36	1.000

43	1.33	1.187
43	1.33	1.223
24	0.61	6.367
42	0.18	9.456

144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
79	1.61	0.000
Median	1.61	0.000

144.70 Sulfur		
Lab		Spectrometric
14	1.61	-1.340
Std Dev	1.60	-1.000
Median	1.60	0.000
Std Dev	1.60	1.000
14	1.60	1.340

144.99 Sulfate Sulfur (S)		
Lab		Other
275	1.87	-4.596
275	1.84	-4.050
32	1.71	-1.390
Std Dev	1.69	-1.000
32	1.68	-0.695
23	1.65	-0.099
9	1.64	0.000
Median	1.64	0.000
34	1.63	0.199
61	1.63	0.199
24	1.62	0.397
23	1.62	0.496
Std Dev	1.59	1.000
61	1.46	3.673

144.XX Sulfate Sulfur (S)		
Lab		Total Method
275	1.87	-5.753
275	1.84	-5.098
32	1.71	-1.906
32	1.68	-1.072
Std Dev	1.67	-1.000
23	1.65	-0.357
9	1.64	-0.238

34	1.63	0.000
61	1.63	0.000
Median	1.63	0.000
24	1.62	0.238
23	1.62	0.357
79	1.61	0.476
14	1.61	0.596
14	1.60	0.715
Std Dev	1.59	1.000
61	1.46	4.169

145.99 Total Sulfur (S)		
Lab		Other
99	1.61	-1.675
Std Dev	1.59	-1.000
43	1.58	-0.335
Median	1.57	0.000
111	1.56	0.335
Std Dev	1.55	1.000
43	1.53	1.675

145.XX Total Sulfur (S)		
Lab		Total Method
99	1.61	-1.675
Std Dev	1.59	-1.000
43	1.58	-0.335
Median	1.57	0.000
111	1.56	0.335
Std Dev	1.55	1.000
43	1.53	1.675

151.30 Total Arsenic		
Lab		ICP
275	21.70	-1.214
Std Dev	21.01	-1.000
18	19.30	-0.467
24	18.30	-0.156
64	17.80	0.000
Median	17.80	0.000
31	17.05	0.234
Std Dev	14.59	1.000
43	11.95	1.823
43	11.40	1.994

151.99	Total Arsenic	
Lab	Other	
42	4.07	0.000
Median	4.07	0.000

151.XX	Total Arsenic	
Lab	Total Method	
275	21.70	-0.849
18	19.30	-0.373
24	18.30	-0.174
64	17.80	-0.075
Median	17.43	0.000
31	17.05	0.075
Std Dev	12.40	1.000
43	11.95	1.089
43	11.40	1.198
42	4.07	2.656

165.99	Acid Soluble Boron	
Lab	PPM	Other
24	51.40	0.000
Median	51.40	0.000

65.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method
24	51.40	0.000
Median	51.40	0.000

181.30	Total Cadmium	
Lab	PPM	ICP
111	9.50	-8.808
Std Dev	4.14	-1.000
64	3.98	-0.768
18	3.90	-0.652
43	3.46	-0.004
Median	3.45	0.000
43	3.45	0.004
61	3.00	0.659
61	3.00	0.659
31	2.90	0.805

181.99	Total Cadmium	
Lab	Other	
24	3.66	-1.340

Std Dev	3.32	-1.000
Median	2.33	0.000
Std Dev	1.33	1.000
42	0.99	1.340

181.XX	Total Cadmium	
Lab	PPM	Total Method
111	9.50	-9.647
Std Dev	4.08	-1.000
64	3.98	-0.841
18	3.90	-0.714
24	3.66	-0.331
43	3.46	-0.004
Median	3.45	0.000
43	3.45	0.004
61	3.00	0.722
61	3.00	0.722
31	2.90	0.881
Std Dev	2.83	1.000
42	0.99	3.925

190.00	Aluminum	
Lab	%Al ₂ O ₃	ICP
14	1.58	-1.010
Std Dev	1.57	-1.000
14	1.57	-0.969
9	1.52	-0.557
32	1.52	-0.557
32	1.52	-0.515
34	1.46	-0.062
23	1.46	-0.021
Median	1.45	0.000
23	1.45	0.021
24	1.45	0.021
61	1.45	0.021
Std Dev	1.33	1.000
61	1.33	1.051
43	1.32	1.134
43	1.29	1.340
111	0.96	4.102

190.99	Aluminum	
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.50	0.000

Median	1.50	0.000
---------------	-------------	--------------

190.XX	Aluminum	
Lab	%Al ₂ O ₃	Total Method
14	1.58	-1.237
14	1.57	-1.185
Std Dev	1.55	-1.000
9	1.52	-0.670
32	1.52	-0.670
32	1.52	-0.618
31	1.50	-0.464
34	1.46	-0.052
23	1.46	0.000
Median	1.46	0.000
23	1.45	0.052
24	1.45	0.052
61	1.45	0.052
Std Dev	1.36	1.000
61	1.33	1.340
43	1.32	1.443
43	1.29	1.701
111	0.96	5.154

191.30	Total Chromium	
Lab	ICP	
18	133.20	-2.098
61	130.50	-1.146
Std Dev	130.09	-1.000
31	128.05	-0.282
43	127.50	-0.088
Median	127.25	0.000
43	127.00	0.088
111	125.50	0.617
Std Dev	124.41	1.000
64	122.95	1.516
61	122.00	1.851

191.99	Total Chromium	
Lab	PPM	Other
24	132.00	-1.340
Std Dev	117.27	-1.000
Median	73.95	0.000
Std Dev	30.63	1.000
42	15.90	1.340

191.XX	Total Chromium	
Lab	PPM	Total Method
18	133.20	-1.266
24	132.00	-1.010
Std Dev	131.95	-1.000
61	130.50	-0.691
31	128.05	-0.170
43	127.50	-0.053
Median	127.25	0.000
43	127.00	0.053
111	125.50	0.372
64	122.95	0.915
Std Dev	122.55	1.000
61	122.00	1.117
42	15.90	23.684

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
111		

202.99	Acid Soluble Cobalt	
Lab	Other	
24	3.81	0.000
Median	3.81	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
111	7.00	-6.000
18	4.80	-1.600
64	4.67	-1.340
61	4.50	-1.000
Std Dev	4.50	-1.000
43	4.00	0.000
43	4.00	0.000
61	4.00	0.000
Median	4.00	0.000
24	3.81	0.380
Std Dev	3.50	1.000
31	2.87	2.260

221.00	Acid Soluble Copper	
Lab	Atomic Absorption	
219	3.09	0.000
Median	3.09	0.000

221.30 Acid Soluble Copper		
Lab	PPM	ICP
61	<0.4	0.000
61	<0.4	0.000
111	8.50	-4.792
Std Dev	2.66	-1.000
18	1.25	-0.081
Median	1.13	0.000
43	1.00	0.081
43	1.00	0.081

221.99 Acid Soluble Copper		
Lab		Other
24	0.57	0.000
Median	0.57	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
61	<0.4	0.000
61	<0.4	0.000
111	8.50	-40.200
18	1.25	-1.340
Std Dev	1.19	-1.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
24	0.57	2.305

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
32	3.10	-1.477
32	3.09	-1.422
Std Dev	3.05	-1.000
24	3.00	-0.438
34	3.00	-0.438
23	2.99	-0.328
111	2.97	-0.109
61	2.97	-0.055
23	2.96	0.000
Median	2.96	0.000
9	2.94	0.273
31	2.94	0.273
14	2.88	0.930

14	2.87	0.984
Std Dev	2.87	1.000
43	2.85	1.258
43	2.83	1.477
61	2.74	2.407

241.99 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Other
219	2.94	-1.340
Std Dev	2.61	-1.000
Median	1.65	0.000
Std Dev	0.68	1.000
42	0.36	1.340

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
32	3.10	-1.536
32	3.09	-1.483
219	3.09	-1.441
Std Dev	3.04	-1.000
24	3.00	-0.528
34	3.00	-0.528
23	2.99	-0.422
111	2.97	-0.210
61	2.97	-0.157
23	2.96	-0.103
Median	2.95	0.000
219	2.94	0.103
9	2.94	0.162
31	2.94	0.162
14	2.88	0.799
14	2.87	0.852
Std Dev	2.86	1.000
43	2.85	1.117
43	2.83	1.329
61	2.74	2.232
42	0.36	27.533

251.30 Total Lead		
Lab	PPM	ICP
43	4.35	-2.495
43	3.85	-1.571
Std Dev	3.54	-1.000
61	3.00	0.000

111	3.00	0.000
Median	3.00	0.000
31	2.90	0.185
61	2.50	0.924
64	2.49	0.952

251.99 Total Lead		
Lab		Other
24	2.45	-1.340
Std Dev	2.25	-1.000
Median	1.68	0.000
Std Dev	1.10	1.000
42	0.90	1.340

251.XX Total Lead		
Lab	PPM	Total Method
43	4.35	-3.773
43	3.85	-2.472
Std Dev	3.28	-1.000
61	3.00	-0.260
111	3.00	-0.260
31	2.90	0.000
Median	2.90	0.000
Std Dev	2.52	1.000
61	2.50	1.041
64	2.49	1.080
24	2.45	1.171
42	0.90	5.195

261.30 Acid Soluble Manganese		
Lab		ICP
31	305.25	-2.341
Std Dev	293.36	-1.000
18	284.50	0.000
Median	284.50	0.000
111	281.50	0.339

261.99 Acid Soluble Manganese		
Lab	PPM	Other
43	312.50	-0.443
43	311.50	-0.397
24	307.00	-0.193
Median	302.75	0.000
61	298.50	0.193

Std Dev	280.74	1.000
61	275.00	1.261
42	37.03	12.070

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
43	312.50	-0.736
43	311.50	-0.683
24	307.00	-0.447
31	305.25	-0.355
61	298.50	0.000
Median	298.50	0.000
18	284.50	0.736
111	281.50	0.893
Std Dev	279.47	1.000
61	275.00	1.235
42	37.03	13.740

271.99 Water Soluble Manganese		
Lab		Other
219	307.15	-1.340
Std Dev	306.85	-1.000
Median	305.98	0.000
Std Dev	305.10	1.000
219	304.80	1.340

271.XX Water Soluble Manganese		
Lab	PPM	Total Method
219	307.15	-1.340
Std Dev	306.85	-1.000
Median	305.98	0.000
Std Dev	305.10	1.000
219	304.80	1.340

281.30 Total Mercury		
Lab	PPM	ICP
24	0.15	0.000
Median	0.15	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
24	0.15	0.000
Median	0.15	0.000

AFPC Check Sample 07-2015

289.30	Total Molybdenum	
Lab	PPM	ICP
111		

18	14.10	0.490
61	14.00	0.561
Std Dev	13.38	1.000
42	2.01	9.017

289.99	Total Molybdenum	
Lab	PPM	Other
24	14.80	0.000
Median	14.80	0.000

301.30	Total Selenium	
Lab	PPM	ICP
18	2.25	-1.340
Std Dev	2.02	-1.000
Median	1.36	0.000
Std Dev	0.69	1.000
24	0.46	1.340

289.XX	Total Molybdenum	
Lab	PPM	Total Method
111	17.00	-4.243
24	14.80	-2.278
31	13.50	-1.117
Std Dev	13.37	-1.000
18	12.60	-0.313
43	12.25	0.000
Median	12.25	0.000
43	12.15	0.089
61	12.00	0.223
Std Dev	11.13	1.000
64	10.88	1.224
61	10.50	1.563

301.99	Total Selenium	
Lab	PPM	Other
42	0.83	0.000
Median	0.83	0.000

291.30	Total Nickel	
Lab	ICP	
43		

301.XX	Total Selenium	
Lab	PPM	Total Method
18	2.25	-2.129
Std Dev	1.50	-1.000
42	0.83	0.000
Median	0.83	0.000
24	0.46	0.551

291.99	Total Nickel	
Lab	PPM	Other
24	16.50	-0.444
18	14.10	0.000
Median	14.10	0.000
Std Dev	8.69	1.000
42	2.01	2.236

311.99	Sodium	
Lab	%Na ₂ O	Other
24	0.30	-0.434
111	0.30	-0.434
61	0.30	-0.217
23	0.29	0.000
23	0.29	0.000
31	0.29	0.000
Median	0.29	0.000
61	0.27	0.868
Std Dev	0.27	1.000
43	0.26	1.280
43	0.26	1.482
42	0.04	11.040

291.XX	Total Nickel	
Lab	PPM	Total Method
24	16.50	-1.202
Std Dev	16.21	-1.000
43	16.00	-0.850
43	16.00	-0.850
31	15.10	-0.215
64	14.80	0.000
Median	14.80	0.000
61	14.50	0.208

311.XX	Sodium	
Lab	%Na ₂ O	Total Method
24	0.30	-0.434

111	0.30	-0.434
61	0.30	-0.217
23	0.29	0.000
23	0.29	0.000
31	0.29	0.000
Median	0.29	0.000
61	0.27	0.868
Std Dev	0.27	1.000
43	0.26	1.280
43	0.26	1.482
42	0.04	11.040

43	45.50	-0.160
219	45.07	0.000
Median	45.07	0.000
64	44.80	0.099
18	44.40	0.244
Std Dev	42.34	1.000
61	42.00	1.125
61	38.50	2.410
42	5.92	14.373

321.00	Acid Soluble Zinc	
Lab	Atomic Absorption	
219	45.07	0.000
Median	45.07	0.000

325.10	Fluoride	
Lab	%	Electrode
32	2.16	-1.179
32	2.15	-1.072
24	2.08	-0.375
23	2.06	-0.107
79	2.05	-0.054
23	2.05	0.000
Median	2.05	0.000
34	2.02	0.268
14	1.96	0.965
14	1.93	1.233
31	1.78	2.841
111	1.06	10.613

321.30	Acid Soluble Zinc	
Lab	PPM	ICP
111	102.00	-3.650
31	80.20	-2.259
Std Dev	60.47	-1.000
24	48.20	-0.217
64	44.80	0.000
Median	44.80	0.000
18	44.40	0.025
61	42.00	0.178
61	38.50	0.402

325.99	Fluoride	
Lab	%	Other
61	2.11	-1.340
Median	2.10	0.000
61	2.09	1.340

321.99	Acid Soluble Zinc	
Lab	Other	
43	45.50	0.000
43	45.50	0.000
Median	45.50	0.000
Std Dev	30.73	1.000
42	5.92	2.680

325.XX	Fluoride	
Lab	%	Total Method
32	2.16	-1.082
32	2.15	-0.979
61	2.11	-0.567
61	2.09	-0.361
24	2.08	-0.309
23	2.06	-0.052
79	2.05	0.000
Median	2.05	0.000
23	2.05	0.052
34	2.02	0.309
14	1.96	0.979

321.XX	Acid Soluble Zinc	
Lab	PPM	Total Method
111	102.00	-20.902
31	80.20	-12.899
24	48.20	-1.151
Std Dev	47.79	-1.000
43	45.50	-0.160

14	1.93	1.237
31	1.78	2.783
111	1.06	10.256