

AFPC

Sample

2018-11

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	17.18	0.00
Ammoniacal Nitrogen, Other		001.99	8	17.19	0.28
Method Group 001.XX PCT			9	17.18	0.19
PERCENT UREA					
Percent UREA, Other		007.99	1	0.55	0.00
Method Group 007.XX PCT			1	0.55	0.00
AMMON & NITRATE N					
Ammon & Nitrate N, Other		009.99	2	17.06	0.01
Method Group 009.XX PCT			2	17.06	0.02
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	17.74	0.00
Total Nitrogen, Combustion	993.13	010.60	19	17.69	0.16
Total Nitrogen, Other		010.99	5	17.81	0.10
Method Group 010.XX PCT			25	17.72	0.20
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	46.99	0.00
Total Phosphate, Spectrometric	978.02	020.20	18	46.73	0.20
Total Phosphate, ICP	970.03	020.40	2	46.91	0.07
Total Phosphate, Other	993.13	020.99	1	46.60	0.00
Method Group 020.XX PCT			22	46.75	0.31
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	8	0.15	0.03
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.13	0.00
Insoluble Phosphate, Automated	978.01	030.40	3	0.18	0.02
Method Group 030.XX PCT			12	0.15	0.04
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	11	46.63	0.17
Indirect Available Phosphate, Other		040.99	1	47.28	0.00
Method Group 040.XX PCT			12	46.65	0.26
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	46.57	0.25
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	46.04	0.11
Direct Available Phosphate, ICP		041.50	3	46.14	0.40
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	46.51	0.44
Method Group 041.XX PCT			12	46.23	0.45
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	15	41.82	0.29
Water Soluble Phosphate, Other		048.99	2	41.83	0.21
Method Group 048.XX PCT			17	41.82	0.39
SOLUBLE POTASH AS K₂O					
Soluble Potash, Atomic Absorption(Citrate)		050.31	1	0.22	0.00
Soluble Potash, ICP(Oxalate)		050.50	2	0.26	0.00
Soluble Potash, Other		050.99	9	0.25	0.01
Method Group 050.XX PCT			12	0.25	0.02
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	13	2.03	0.32
Free Water, Other		060.99	3	2.78	0.02
Method Group 060.XX PCT			16	2.19	0.54
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.10	0.00
Acid Soluble Calcium, ICP		101.30	14	0.17	0.02
Method Group 101.XX PCT			15	0.16	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.20	0.00

AFPC Check Sample 11-2018	Acid Soluble Magnesium, ICP	121.30	12	1.29	0.05
	Acid Soluble Magnesium, Other	121.99	2	1.20	0.02
	Method Group 121.XX PCT		15	1.24	0.07
	WATER SOLUBLE MAGNESIUM				
	Water Soluble Magnesium, Other	131.99	1		0.00
	Method Group 131.XX PCT		1	0.00	0.00
	SULFATE SULFUR (S)				
	Sulfur, Gravimetric	980.02(a) 144.01	1	1.68	0.00
	Sulfur, Other	144.99	13	2.04	0.09
	Method Group 144.XX PCT		14	2.03	0.16
	TOTAL SULFUR (S)				
	Sulfur, Other	145.99	1	2.04	0.0
	Method Group 145.XX PCT		1	2.04	0.0
	TOTAL ARSENIC				
	Total Arsenic, ICP	980.02(b) 151.02	8	9.5	1.5
	Method Group 151.XX PPM		8	9.5	1.9
	ACID SOLUBLE BORON				
	Acid Soluble Boron, Other	165.99	2	85	12.9
	Method Group 165.XX PPM		2	85	15.7
	WATER SOLUBLE BORON				
	Water Soluble Boron, Other	171.99	1	33	0.0
	Method Group 171.XX PPM		1	33	0.0
	TOTAL CADMIUM				
	Total Cadmium, Atomic Absorbtion	181.00	1	21	0.0
	Total Cadmium, ICP	181.30	6	25.0	0.4
	Total Cadmium, Other	181.99	1	25.8	0.0
	Method Group 181.XX PPM		8	25.0	0.8
	ALUMINUM AS Al₂O₃				
	ICP, %		12	1.22	0.03
	Water Soluble Chlorine, Other, %	190.99	2	1.12	0.06
	Method Group 190.XX PCT		14	1.22	0.05
	TOTAL CHROMIUM				
	Total Chromium, Atomic Absorbtion	191.00	1	162	0.0
	Total Chromium, ICP	191.30	6	209	13.1
	Total Chromium, Other	191.99	1	200	0.0
	Method Group 191.XX PPM		8	203	15.8
	ACID SOLUBLE COBALT				
	Acid Soluble Cobalt, ICP	202.30	4	3	1.2
	Acid Soluble Cobalt, Other	202.99	1	1	0.0
	Method Group 202.XX PPM		5	2	0.9
	ACID SOLUBLE COPPER				
	Acid Soluble Copper, Other	221.99	1	0.9	0.0
	Method Group 221.XX PPM		4	4.6	1.8
	ACID SOLUBLE IRON AS Fe₂O₃				
	Acid Soluble Iron, ICP	241.30	13	1.10	0.02
	Acid Soluble Iron, Other	241.99	1	0.92	0.00
	Method Group 241.XX PCT		15	1.10	0.04
	TOTAL LEAD				
	Total Lead, Atomic Absorbtion	251.00	1	8	0.0
	Total Lead, ICP	251.30	4	1.5	0.9
	Total Lead, Other	251.99	1	0.1	0.0
	Method Group 251.XX PPM		6	1.5	2.3
	ACID SOLUBLE MANGANESE				
	Acid Soluble Manganese, ICP	972.02a 261.30	3	148	13.1
	Acid Soluble Manganese, Other	261.99	4	159	7.8
	Method Group 261.XX PPM		7	154	8.0
	TOTAL MERCURY				
	Total Mercury, ICP	281.30	1	0.00	0.00
	Total Mercury, Other	281.99	1	0	0.00
	Method Group 281.XX PPM		2	0.01	0.01

TOTAL MOLYBDENUM					
Total Molybdenum, ICP	289.30		5	19	0.2
Total Molybdenum, Other	289.99		1	24	0.0
Method Group 289.XX PPM			6	19	3.2
TOTAL NICKEL					
Total Nickel, ICP	291.30		5	15.2	2.9
Total Nickel, icp	291.99		2	12.3	2.5
Method Group 291.XX PPM			7	15.2	2.1
TOTAL SELENIUM					
Total Selenium, ICP	301.30		4	1.1	0.4
Method Group 301.XX PPM			4	1.1	0.4
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.39	0.00
Sodium, Other		311.99	8	0.57	0.03
Method Group 311.XX PCT			9	0.56	0.03
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	157.3	0.0
Acid Soluble Zinc, ICP		321.30	6	167.2	50.8
Acid Soluble Zinc, Other		321.99	1	160.0	0.0
Method Group 321.XX %			8	158.6	32.9
FLUORIDE					
Volumetric	325.10		12	0.58	0.04
Distilled/Electrode	325.99		3	0.61	0.02
Method Group 325.XX PCT			15	0.59	0.05

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	17.18	0.000
Median	17.18	0.000

001.99 Ammoniacal Nitrogen		
Lab	Other	
335	18.12	-3.386
330	18.00	-2.952
Std Dev	17.46	-1.000
34	17.37	-0.652
24	17.20	-0.036
Median	17.19	0.000
140	17.18	0.036
79	17.16	0.109
24	17.15	0.127
Std Dev	16.91	1.000
38	16.83	1.269

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
335	18.12	-5.998
330	18.00	-5.232
34	17.37	-1.180
Std Dev	17.34	-1.000
24	17.20	-0.096
31	17.18	0.000
Median	17.18	0.000
140	17.18	0.032
79	17.16	0.160
24	17.15	0.191
Std Dev	17.02	1.000
38	16.83	2.205

007.99 Percent UREA		
Lab	Other	
335	0.55	0.000
Median	0.55	0.000

007.XX Percent UREA		
Lab	Total Method	
335	0.55	0.000
Median	0.55	0.000

009.99 Ammon & Nitrate N		
Lab	Other	
32	17.08	-1.340
Std Dev	17.08	-1.000
Median	17.06	0.000
Std Dev	17.05	1.000
32	17.05	1.340

009.XX Ammon & Nitrate N		
Lab	Total Method	
32	17.08	-1.340
Std Dev	17.08	-1.000
Median	17.06	0.000
Std Dev	17.05	1.000
32	17.05	1.340

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
219	17.74	0.000
Median	17.74	0.000

010.60 Total Nitrogen		
Lab	Combustion	
111	18.14	-2.806
Std Dev	17.85	-1.000
47	17.82	-0.820
61	17.82	-0.788
49	17.81	-0.725
79	17.79	-0.631
64	17.75	-0.378
66	17.73	-0.252
107	17.72	-0.189
219	17.72	-0.189
110	17.69	0.000
Median	17.69	0.000
31	17.62	0.441
80	17.60	0.568
99	17.59	0.631
140	17.57	0.757
77	17.55	0.914
Std Dev	17.53	1.000
14	17.47	1.419
14	17.46	1.450
103	17.46	1.450

38 17.45 1.513

010.99 Total Nitrogen		
Lab	Other	
330	18.12	-3.247
Std Dev	17.90	-1.000
23	17.81	0.000
23	17.81	0.000
Median	17.81	0.000
Std Dev	17.71	1.000
32	17.68	1.340
32	17.62	1.907

010.XX Total Nitrogen		
Lab	Total Method	
111	18.14	-2.587
330	18.12	-2.493
Std Dev	17.88	-1.000
47	17.82	-0.623
61	17.82	-0.592
23	17.81	-0.530
23	17.81	-0.530
49	17.81	-0.530
79	17.79	-0.436
64	17.75	-0.187
219	17.74	-0.125
66	17.73	-0.062
107	17.72	0.000
219	17.72	0.000
Median	17.72	0.000
110	17.69	0.187
32	17.68	0.280
31	17.62	0.623
32	17.62	0.623
80	17.60	0.748
99	17.59	0.810
140	17.57	0.935
Std Dev	17.56	1.000
77	17.55	1.091
14	17.47	1.589
14	17.46	1.620
103	17.46	1.620
38	17.45	1.683

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
219	46.99	0.000
Median	46.99	0.000

020.20 Total Phosphate		
Lab	Spectrometric	
34	47.48	-3.722
61	47.23	-2.481
61	47.22	-2.407
24	46.98	-1.216
Std Dev	46.93	-1.000
24	46.91	-0.893
32	46.81	-0.372
79	46.77	-0.199
31	46.76	-0.149
32	46.74	-0.050
Median	46.73	0.000
23	46.72	0.050
23	46.70	0.149
140	46.67	0.298
111	46.66	0.372
14	46.60	0.645
Std Dev	46.53	1.000
99	46.47	1.290
14	46.21	2.581
38	46.19	2.680
110	43.73	14.889

020.40 Total Phosphate		
Lab	Automated	
219	47.01	-1.340
Std Dev	46.99	-1.000
Median	46.91	0.000
Std Dev	46.84	1.000
111	46.82	1.340

020.99 Total Phosphate		
Lab	Other	
330	46.60	0.000
Median	46.60	0.000

020.XX Total Phosphate		
Lab	Total Method	

34	47.48	-2.835
61	47.23	-1.864
61	47.22	-1.806
219	47.01	-1.010
Std Dev	47.01	-1.000
219	46.99	-0.932
24	46.98	-0.874
24	46.91	-0.621
111	46.82	-0.252
32	46.81	-0.214
79	46.77	-0.078
31	46.76	-0.039
Median	46.75	0.000
32	46.74	0.039
23	46.72	0.117
23	46.70	0.194
140	46.67	0.311
111	46.66	0.369
14	46.60	0.583
330	46.60	0.602
Std Dev	46.49	1.000
99	46.47	1.088
14	46.21	2.097
38	46.19	2.175
110	43.73	11.730

030.20		Insoluble Phosphate
Lab		Spectrometric
61	0.25	-4.070
61	0.25	-3.871
Std Dev	0.17	-1.000
23	0.16	-0.298
24	0.15	-0.099
Median	0.15	0.000
23	0.15	0.099
24	0.15	0.099
140	0.14	0.298
79	0.14	0.496

030.30		Insoluble Phosphate
Lab		Alka. Quimociac
31	0.13	0.000
Median	0.13	0.000

030.40		Insoluble Phosphate
Lab		Automated
34	0.20	-1.031
Std Dev	0.20	-1.000
32	0.18	0.000
Median	0.18	0.000
Std Dev	0.15	1.000
32	0.14	1.649

030.XX		Insoluble Phosphate
Lab		Total Method
61	0.25	-3.232
61	0.25	-3.074
34	0.20	-1.655
Std Dev	0.18	-1.000
32	0.18	-0.867
23	0.16	-0.236
24	0.15	-0.079
Median	0.15	0.000
23	0.15	0.079
24	0.15	0.079
140	0.14	0.236
32	0.14	0.394
79	0.14	0.394
31	0.13	0.473

040.20		Indirect Available Phosphate
Lab		Spectrometric
61	46.98	-2.108
61	46.97	-2.048
24	46.83	-1.204
Std Dev	46.80	-1.000
24	46.76	-0.783
32	46.67	-0.241
79	46.63	0.000
Median	46.63	0.000
31	46.63	0.015
23	46.58	0.331
32	46.57	0.361
23	46.55	0.512
140	46.53	0.602

040.99		Indirect Available Phosphate
Lab		Other

34	47.28	0.000
Median	47.28	0.000

040.XX		Indirect Available Phosphate
Lab		Total Method
34	47.28	-2.899
61	46.98	-1.518
61	46.97	-1.472
Std Dev	46.87	-1.000
24	46.83	-0.828
24	46.76	-0.506
32	46.67	-0.092
Median	46.65	0.000
79	46.63	0.092
31	46.63	0.104
23	46.58	0.345
32	46.57	0.368
23	46.55	0.483
140	46.53	0.552

041.10		Direct Available Phosphate
Lab		Gravimetric Quimociac
107	46.94	-1.480
Std Dev	46.82	-1.000
219	46.57	0.000
Median	46.57	0.000
Std Dev	46.32	1.000
47	46.27	1.200

041.20		Direct Available Phosphate
Lab		Spectrometric
47	46.20	-1.340
Std Dev	46.16	-1.000
Median	46.04	0.000
Std Dev	45.93	1.000
38	45.89	1.340

041.50		Direct Available Phosphate
Lab		ICP
64	46.19	-0.111
66	46.14	0.000
Median	46.14	0.000
Std Dev	45.74	1.000
80	45.10	2.569

041.60		Direct Available Phosphate
Lab		EDTA Extract
49	47.37	-1.950
Std Dev	46.95	-1.000
77	46.60	-0.205
Median	46.51	0.000
219	46.42	0.205
Std Dev	46.07	1.000
103	45.56	2.178

041.XX		Direct Available Phosphate
Lab		Total Method
49	47.37	-3.035
107	46.94	-1.896
Std Dev	46.61	-1.000
77	46.60	-0.985
219	46.57	-0.904
219	46.42	-0.503
47	46.27	-0.100
Median	46.23	0.000
47	46.20	0.101
64	46.19	0.127
66	46.14	0.248
38	45.89	0.918
Std Dev	45.86	1.000
103	45.56	1.816
80	45.10	3.035

048.20		Water Soluble Phosphate
Lab		Spectrometric
23	42.16	-1.185
32	42.15	-1.151
Std Dev	42.11	-1.000
32	42.05	-0.807
23	42.04	-0.756
61	42.03	-0.739
31	41.86	-0.163
61	41.82	0.000
330	41.82	0.000
Median	41.82	0.000
79	41.76	0.206
140	41.73	0.309
24	41.68	0.481

14	41.61	0.704
14	41.61	0.704
111	41.57	0.859
24	41.56	0.876

048.99 Water Soluble Phosphate		
Lab		Other
34	42.12	-1.340
Std Dev	42.04	-1.000
Median	41.83	0.000
Std Dev	41.62	1.000
111	41.55	1.340

048.XX Water Soluble Phosphate		
Lab		Total Method
23	42.16	-1.088
32	42.15	-1.056
Std Dev	42.13	-1.000
34	42.12	-0.946
32	42.05	-0.741
23	42.04	-0.694
61	42.03	-0.678
31	41.86	-0.150
61	41.82	0.000
330	41.82	0.000
Median	41.82	0.000
79	41.76	0.189
140	41.73	0.284
24	41.68	0.441
14	41.61	0.646
14	41.61	0.646
111	41.57	0.788
24	41.56	0.804
111	41.55	0.836

050.31 Soluble Potash		
Lab		Atomic Absorption(Citrate)
107	0.22	0.000
Median	0.22	0.000

050.50 %K ₂ O Soluble Potash		
Lab		ICP(Oxalate)
23	0.26	0.000
23	0.26	0.000

Median	0.26	0.000
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050.99 Soluble Potash		
Lab	%K ₂ O	Other
111	0.27	-2.010
Std Dev	0.26	-1.000
61	0.26	-0.670
61	0.26	-0.670
24	0.25	0.000
24	0.25	0.000
Median	0.25	0.000
31	0.25	0.335
31	0.25	0.670
Std Dev	0.24	1.000
330	0.20	6.700
80	0.10	20.100

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
111	0.27	-1.149
Std Dev	0.26	-1.000
23	0.26	-0.766
23	0.26	-0.766
61	0.26	-0.383
61	0.26	-0.383
24	0.25	0.000
24	0.25	0.000
Median	0.25	0.000
31	0.25	0.191
31	0.25	0.383
Std Dev	0.24	1.000
107	0.22	2.297
330	0.20	3.829
80	0.10	11.486

060.00 Free Water		
Lab		Vacuum Oven
31	2.53	-1.548
24	2.52	-1.494
24	2.42	-1.186
Std Dev	2.35	-1.000
79	2.33	-0.924
32	2.28	-0.755
140	2.10	-0.200

23	2.03	0.000
Median	2.03	0.000
23	1.99	0.139
32	1.94	0.277
111	1.90	0.416
Std Dev	1.71	1.000
61	1.36	2.079
61	1.36	2.079
34	1.15	2.726

060.99 Free Water		
Lab		Other
330	2.79	-0.412
14	2.78	0.000
Median	2.78	0.000
Std Dev	2.75	1.000
14	2.72	2.268

060.XX Free Water		
Lab		Total Method
330	2.79	-1.361
14	2.78	-1.339
14	2.72	-1.214
Std Dev	2.63	-1.000
31	2.53	-0.788
24	2.52	-0.749
24	2.42	-0.522
79	2.33	-0.329
32	2.28	-0.204
Median	2.19	0.000
140	2.10	0.204
23	2.03	0.352
23	1.99	0.454
32	1.94	0.556
111	1.90	0.658
Std Dev	1.74	1.000
61	1.36	1.883
61	1.36	1.883
34	1.15	2.360

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.10	0.000
Median	0.10	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
14	0.23	-3.318
61	0.20	-1.531
330	0.19	-1.276
61	0.19	-1.021
Std Dev	0.18	-1.000
24	0.18	-0.510
32	0.18	-0.510
24	0.17	-0.255
Median	0.17	0.000
23	0.16	0.255
23	0.16	0.255
32	0.16	0.255
34	0.16	0.510
31	0.15	0.842
Std Dev	0.15	1.000
14	0.15	1.021
111	0.14	1.531

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
14	0.23	-3.320
61	0.20	-1.660
330	0.19	-1.423
61	0.19	-1.186
Std Dev	0.18	-1.000
24	0.18	-0.712
32	0.18	-0.712
24	0.17	-0.474
23	0.16	0.000
23	0.16	0.000
32	0.16	0.000
Median	0.16	0.000
34	0.16	0.237
31	0.15	0.545
14	0.15	0.712
Std Dev	0.14	1.000
111	0.14	1.186
219	0.10	2.799

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	0.10	0.000
Median	0.10	0.000

219	1.20	0.000
Median	1.20	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
34	1.35	-1.042
Std Dev	1.34	-1.000
32	1.32	-0.546
24	1.31	-0.347
23	1.30	-0.149
23	1.30	-0.050
24	1.30	-0.050
Median	1.29	0.000
32	1.29	0.050
31	1.24	0.993
Std Dev	1.24	1.000
14	1.24	1.141
14	1.24	1.141
61	1.22	1.539
61	1.20	1.836

121.99 Acid Soluble Magnesium		
Lab	%MgO	Other
111	1.23	-1.340
Std Dev	1.22	-1.000
Median	1.20	0.000
Std Dev	1.19	1.000
330	1.18	1.340

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
34	1.35	-1.772
32	1.32	-1.340
24	1.31	-1.167
Std Dev	1.30	-1.000
23	1.30	-0.994
23	1.30	-0.908
24	1.30	-0.908
32	1.29	-0.821
31	1.24	0.000
Median	1.24	0.000
14	1.24	0.130
14	1.24	0.130
111	1.23	0.303

61	1.22	0.475
61	1.20	0.735
219	1.20	0.804
Std Dev	1.18	1.000
330	1.18	1.081

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
79	1.68	0.000
Median	1.68	0.000

144.99 Sulfate Sulfur (S)		
Lab	Other	
330	2.38	-3.688
Std Dev	2.13	-1.000
23	2.12	-0.804
32	2.12	-0.804
23	2.11	-0.750
34	2.10	-0.590
24	2.06	-0.161
24	2.04	0.000
Median	2.04	0.000
14	2.03	0.161
14	2.01	0.375
32	1.99	0.590
Std Dev	1.95	1.000
61	1.91	1.394
31	1.90	1.528
61	1.89	1.608

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
330	2.38	-2.654
Std Dev	2.16	-1.000
23	2.12	-0.623
32	2.12	-0.623
23	2.11	-0.585
34	2.10	-0.472
24	2.06	-0.170
24	2.04	-0.057
Median	2.03	0.000
14	2.03	0.057
14	2.01	0.208
32	1.99	0.359

61	1.91	0.925
Std Dev	1.90	1.000
31	1.90	1.019
61	1.89	1.076
79	1.68	2.699

145.99 Total Sulfur (S)		
Lab	Other	
111	2.04	0.000
Median	2.04	0.000

145.XX Total Sulfur (S)		
Lab	Total Method	
111	2.04	0.000
Median	2.04	0.000

151.30 Total Arsenic		
Lab	ICP	
330	39.03	-19.428
Std Dev	11.03	-1.000
335	10.91	-0.923
61	10.00	-0.324
140	9.70	-0.123
Median	9.51	0.000
64	9.32	0.123
24	8.58	0.610
Std Dev	7.99	1.000
31	7.03	1.634
111	0.50	5.928

151.XX Total Arsenic		
Lab	Total Method	
330	39.03	-19.428
Std Dev	11.03	-1.000
335	10.91	-0.923
61	10.00	-0.324
140	9.70	-0.123
Median	9.51	0.000
64	9.32	0.123
24	8.58	0.610
Std Dev	7.99	1.000
31	7.03	1.634
111	0.50	5.928

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	102.00	-1.340
Std Dev	97.61	-1.000
Median	84.70	0.000
Std Dev	71.79	1.000
330	67.41	1.340

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	102.00	-1.340
Std Dev	97.61	-1.000
Median	84.70	0.000
Std Dev	71.79	1.000
330	67.41	1.340

171.99 Water Soluble Boron		
Lab	PPM	Other
330	32.96	0.000
Median	32.96	0.000

171.XX Water Soluble Boron		
Lab	PPM	Total Method
330	32.96	0.000
Median	32.96	0.000

181.00 Total Cadmium		
Lab	Atomic Absorbion	
330	21.10	0.000
Median	21.10	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
61	27.50	-6.724
64	25.57	-1.433
Std Dev	25.41	-1.000
335	25.10	-0.130
Median	25.05	0.000
61	25.00	0.130
31	24.95	0.267
Std Dev	24.68	1.000
111	24.00	2.872

181.99 Total Cadmium		
Lab		Other
24	25.80	0.000
Median	25.80	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
61	27.50	-3.592
24	25.80	-1.102
Std Dev	25.73	-1.000
64	25.57	-0.765
335	25.10	-0.070
Median	25.05	0.000
61	25.00	0.070
31	24.95	0.143
Std Dev	24.36	1.000
111	24.00	1.534
330	21.10	5.781

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
14	1.28	-1.838
14	1.28	-1.838
Std Dev	1.25	-1.000
34	1.24	-0.613
24	1.23	-0.306
23	1.22	0.000
24	1.22	0.000
32	1.22	0.000
Median	1.22	0.000
23	1.22	0.153
32	1.20	0.766
Std Dev	1.19	1.000
61	1.17	1.531
111	1.17	1.531
61	1.14	2.450

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.20	-1.340
Std Dev	1.18	-1.000
Median	1.12	0.000
Std Dev	1.05	1.000
330	1.03	1.340

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
14	1.28	-1.634
14	1.28	-1.634
Std Dev	1.26	-1.000
34	1.24	-0.588
24	1.23	-0.327
23	1.22	-0.065
24	1.22	-0.065
32	1.22	-0.065
Median	1.22	0.000
23	1.22	0.065
31	1.20	0.392
32	1.20	0.588
Std Dev	1.18	1.000
61	1.17	1.242
111	1.17	1.242
61	1.14	2.026
330	1.03	4.902

191.00 Total Chromium		
Lab		Atomic Absorption
330	162.45	0.000
Median	162.45	0.000

191.30 Total Chromium		
Lab		ICP
111	220.50	-0.901
335	219.65	-0.836
61	212.00	-0.253
Median	208.68	0.000
31	205.35	0.253
64	198.41	0.782
Std Dev	195.54	1.000
61	191.00	1.346

191.99 Total Chromium		
Lab	PPM	Other
24	200.00	0.000
Median	200.00	0.000

191.XX Total Chromium		
Lab	PPM	Total Method
64	4.29	1.114

111	220.50	-1.376
335	219.65	-1.310
Std Dev	215.63	-1.000
61	212.00	-0.720
31	205.35	-0.206
Median	202.68	0.000
24	200.00	0.206
64	198.41	0.330
61	191.00	0.901
Std Dev	189.72	1.000
330	162.45	3.105

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
111		

202.99 Acid Soluble Cobalt		
Lab		Other
24	1.26	0.000
Median	1.26	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
111	6.00	-5.014
61	3.00	-1.073
Std Dev	2.94	-1.000
64	2.18	0.000
Median	2.18	0.000
335	1.98	0.267
Std Dev	1.42	1.000
24	1.26	1.219

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
111	6.00	-1.566
Std Dev	5.64	-1.000
61	5.00	0.000
Median	5.00	0.000
Std Dev	4.36	1.000
64	4.29	1.114

221.99 Acid Soluble Copper		
Lab		Other
24	0.36	0.000
Median	0.36	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
111	6.00	-0.935
61	5.00	-0.245
Median	4.64	0.000
64	4.29	0.245
Std Dev	3.19	1.000
24	0.36	2.954

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
14	1.77	-30.150
14	1.76	-29.703
34	1.12	-1.117
Std Dev	1.12	-1.000
111	1.11	-0.447
32	1.10	-0.223
23	1.10	0.000
24	1.10	0.000
Median	1.10	0.000
23	1.09	0.223
24	1.09	0.447
32	1.08	0.893
Std Dev	1.07	1.000
61	1.06	1.787
31	1.05	2.010
61	1.03	3.127

241.99 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Other
330	0.92	0.000
Median	0.92	0.000

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
14	1.77	-19.042
14	1.76	-18.760
219	1.23	-3.794

Std Dev	1.13	-1.000
34	1.12	-0.705
111	1.11	-0.282
32	1.10	-0.141
23	1.10	0.000
24	1.10	0.000
Median	1.10	0.000
23	1.09	0.141
24	1.09	0.282
32	1.08	0.564
Std Dev	1.06	1.000
61	1.06	1.128
31	1.05	1.269
61	1.03	1.975
330	0.92	5.078

251.00 Total Lead		
Lab		Atomic Absorbtion
330	7.74	0.000
Median	7.74	0.000

251.30 Total Lead		
Lab	PPM	ICP
111	3.50	-2.181
Std Dev	2.42	-1.000
61	1.80	-0.327
Median	1.50	0.000
61	1.20	0.327
Std Dev	0.58	1.000
335	0.39	1.216

251.99 Total Lead		
Lab		Other
24	0.14	0.000
Median	0.14	0.000

251.XX Total Lead		
Lab	PPM	Total Method
330	7.74	-3.363
111	3.50	-1.078
Std Dev	3.36	-1.000
61	1.80	-0.162
Median	1.50	0.000
61	1.20	0.162

335	0.39	0.601
24	0.14	0.733

261.30 Acid Soluble Manganese		
Lab		ICP
31	155.53	-0.576
111	148.00	0.000
Median	148.00	0.000
Std Dev	134.93	1.000
330	120.50	2.104

261.99 Acid Soluble Manganese		
Lab	PPM	Other
219	165.40	-0.883
61	163.50	-0.640
Median	158.50	0.000
24	153.50	0.640
61	153.50	0.640

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
219	165.40	-1.820
61	163.50	-1.529
Std Dev	160.04	-1.000
31	155.53	-0.310
24	153.50	0.000
61	153.50	0.000
Median	153.50	0.000
111	148.00	0.841
Std Dev	146.96	1.000
330	120.50	5.047

281.30 Total Mercury		
Lab	PPM	ICP
24	<0.0001	0.000
335	0.02	0.000
Median	0.02	0.000

281.99 Total Mercury		
Lab	PPM	Other
330	0.00	0.000
Median	0.00	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
24	<0.0001	0.000
335	0.02	-1.340
Std Dev	0.02	-1.000
Median	0.01	0.000
Std Dev	0.00	1.000
330	0.00	1.340

289.30 Total Molybdenum		
Lab	PPM	ICP
111		

289.99 Total Molybdenum		
Lab	PPM	Other
24	24.40	0.000
Median	24.40	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
24	24.40	-2.025
111	23.50	-1.687
Std Dev	21.67	-1.000
64	19.02	-0.004
Median	19.01	0.000
61	19.00	0.004
31	18.75	0.098
Std Dev	16.35	1.000
330	16.00	1.131

291.30 Total Nickel		
Lab		ICP
31		

291.99 Total Nickel		
Lab	PPM	Other
24	15.60	-1.340
Std Dev	14.76	-1.000
Median	12.30	0.000
Std Dev	9.84	1.000
111	9.00	1.340

291.XX Total Nickel		
Lab	PPM	Total Method
31	22.93	-4.587
61	19.00	-2.270

Std Dev	16.85	-1.000
24	15.60	-0.263
335	15.16	0.000
Median	15.16	0.000
64	15.06	0.056
330	15.00	0.091
Std Dev	13.46	1.000
111	9.00	3.633

301.30 Total Selenium		
Lab	PPM	ICP
24	<0.0002	0.000
140	1.59	-1.483
Std Dev	1.42	-1.000
330	1.12	-0.160
Median	1.06	0.000
111	1.00	0.160
Std Dev	0.70	1.000
335	0.01	2.917

301.XX Total Selenium		
Lab	PPM	Total Mthod
24	<0.0002	0.000
140	1.59	-1.483
Std Dev	1.42	-1.000
330	1.12	-0.160
Median	1.06	0.000
111	1.00	0.160
Std Dev	0.70	1.000
335	0.01	2.917

311.00 Sodium		
Lab	%Na ₂ O	Atomic Absorbtion
330	0.39	0.000
Median	0.39	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other
24	0.62	-1.772
24	0.62	-1.599
Std Dev	0.60	-1.000
61	0.59	-0.562
111	0.58	-0.389
Median	0.57	0.000

31	0.56	0.389
61	0.56	0.475
23	0.55	0.648
23	0.55	0.648

311.XX		
Lab	%Na ₂ O	Sodium Total Method
24	0.62	-2.393
24	0.62	-2.201
61	0.59	-1.053
Std Dev	0.58	-1.000
111	0.58	-0.861
31	0.56	0.000
Median	0.56	0.000
61	0.56	0.096
23	0.55	0.287
23	0.55	0.287
Std Dev	0.53	1.000
330	0.39	6.413

321.00		
Lab		Acid Soluble Zinc Atomic Absorption
219	157.25	0.000
Median	157.25	0.000

321.30		
Lab	PPM	Acid Soluble Zinc ICP
24	259.00	-1.807
111	240.00	-1.433
Std Dev	217.99	-1.000
31	177.35	-0.200
Median	167.19	0.000
64	157.03	0.200
61	156.00	0.220
61	147.50	0.387

321.99		
Lab		Acid Soluble Zinc Other
330	160.00	0.000
Median	160.00	0.000

321.XX		
Lab	PPM	Acid Soluble Zinc Total Method
24	259.00	-3.711

111	240.00	-3.009
Std Dev	185.67	-1.000
31	177.35	-0.692
330	160.00	-0.051
Median	158.63	0.000
219	157.25	0.051
64	157.03	0.059
61	156.00	0.097
61	147.50	0.411

325.10		
Lab	%	Fluoride Electrode
111	1.05	-11.018
32	0.64	-1.251
79	0.63	-1.132
32	0.61	-0.536
23	0.60	-0.298
23	0.59	-0.179
Median	0.58	0.000
31	0.58	0.179
24	0.56	0.655
24	0.56	0.655
34	0.56	0.655
14	0.55	0.893
14	0.53	1.251

325.99		
Lab	%	Fluoride Other
61	0.61	-0.223
61	0.61	0.000
Median	0.61	0.000
330	0.55	2.457

325.XX		
Lab	%	Fluoride Total Method
111	1.05	-11.613
32	0.64	-1.149
79	0.63	-1.021
61	0.61	-0.510
32	0.61	-0.383
61	0.61	-0.383
23	0.60	-0.128
23	0.59	0.000
Median	0.59	0.000

31	0.58	0.383
24	0.56	0.893
24	0.56	0.893
34	0.56	0.893
330	0.55	1.021
14	0.55	1.149
14	0.53	1.531