

## AFPC

## Sample

2020-10

Grade

MAP-S

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	13.10	0.01
Ammoniacal Nitrogen, Other		001.99	12	12.98	0.07
Method Group 001.XX PCT			14	13.01	0.14
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Combustion	993.13	010.60	12	13.06	0.07
Total Nitrogen, Other		010.99	2	13.04	0.07
Method Group 010.XX PCT			14	13.06	0.12
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Spectrometric	978.02	020.20	18	34.30	0.32
Total Phosphate, ICP	970.03	020.40	1	34.79	0.00
Total Phosphate, Other	993.13	020.99	1	34.42	0.00
Method Group 020.XX PCT			20	34.33	0.39
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	10	0.13	0.07
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	2	0.12	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.16	0.04
Method Group 030.XX PCT			14	0.13	0.08
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	34.19	0.32
Indirect Available Phosphate, Other		040.99	1	34.26	0.00
Method Group 040.XX PCT			14	34.20	0.33
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, ICP		041.50	2	34.07	0.12
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	33.78	0.47
Method Group 041.XX PCT			7	33.90	0.50
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	15	30.07	0.11
Water Soluble Phosphate, Other		048.99	1	29.97	0.00
Method Group 048.XX PCT			16	30.07	0.14
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	2	0.13	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.11	0.00
Soluble Potash, Other		050.99	6	0.13	0.03
Method Group 050.XX PCT			9	0.13	0.01
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	14	0.64	0.18
Free Water, Vacuum Desiccate	965.08A	060.10	1	0.53	0.00
Free Water, Other		060.99	2	0.87	0.01
Method Group 060.XX PCT			17	0.65	0.20
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	15	0.23	0.02
Method Group 101.XX PCT			15	0.23	0.03
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.71	0.00
Acid Soluble Magnesium, ICP		121.30	16	0.69	0.03
Method Group 121.XX PCT			17	0.69	0.04
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	3	7.54	0.01
Sulfur, Other		144.99	14	7.60	2.49
Method Group 144.XX PCT			17	7.60	0.18
<b>TOTAL SULFUR (S)</b>					

Sulfur, Other		145.99	9	14.90	0.1
Method Group 145.XX PCT			9	14.90	0.1
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	3	5.2	0.3
Method Group 151.XX PPM			3	5.2	0.3
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	5	2.0	0.1
Method Group 181.XX PPM			5	2.0	0.1
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			15	1.11	0.03
Method Group 190.XX PCT			15	1.11	0.04
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	5	57	0.9
Method Group 191.XX PPM			5	57	1.0
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	3	2	0.3
Method Group 202.XX PPM			3	2	0.3
<b>ACID SOLUBLE COPPER</b>					
Method Group 221.XX PPM			3	3.0	0.0
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	16	1.36	0.03
Method Group 241.XX PCT			16	1.36	0.03
<b>TOTAL LEAD</b>					
Total Lead, ICP		251.30	3	1.5	0.6
Method Group 251.XX PPM			3	1.5	0.7
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a	261.30	4	228	8.5
Acid Soluble Manganese, Other		261.99	1	272	0.0
Method Group 261.XX PPM			5	234	12.0
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	5	6	0.8
Method Group 289.XX PPM			5	6	1.0
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	4	14.5	1.4
Total Nickel, icp		291.99	1	17.3	0.0
Method Group 291.XX PPM			5	15.0	3.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Flame Photometric	974.01	311.30	1	0.16	0.00
Sodium, Other		311.99	8	0.16	0.02
Method Group 311.XX PCT			9	0.16	0.02
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP		321.30	5	82.0	38.0
Method Group 321.XX %			5	82.0	46.3
<b>FLUORIDE</b>					
Volumetric		325.10	13	1.54	0.18
Distilled/Electrode		325.99	2	1.65	0.02
Method Group 325.XX PCT			15	1.55	0.20

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001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	13.11	-1.340
Std Dev	13.10	-1.000
Median	13.10	0.000
Std Dev	13.09	1.000
31	13.09	1.340

001.99 Ammoniacal Nitrogen		
Lab	Other	
32	13.14	-2.282
61	13.13	-2.137
275	13.10	-1.702
Std Dev	13.05	-1.000
24	13.02	-0.471
61	13.02	-0.471
24	13.01	-0.326
Median	12.98	0.000
23	12.96	0.326
79	12.96	0.326
23	12.95	0.543
32	12.94	0.616
34	12.92	0.905
Std Dev	12.91	1.000
79	12.87	1.630

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
32	13.14	-1.171
61	13.13	-1.081
Std Dev	13.12	-1.000
31	13.11	-0.856
275	13.10	-0.811
31	13.09	-0.721
24	13.02	-0.045
61	13.02	-0.045
Median	13.01	0.000
24	13.01	0.045
23	12.96	0.450
79	12.96	0.450
23	12.95	0.586
32	12.94	0.631
34	12.92	0.811
Std Dev	12.90	1.000

79 12.87 1.261

010.60 Total Nitrogen		
Lab	Combustion	
140	13.15	-1.253
Std Dev	13.13	-1.000
31	13.12	-0.905
77	13.12	-0.905
31	13.12	-0.835
63	13.12	-0.835
79	13.06	-0.070
Median	13.06	0.000
66	13.05	0.070
79	13.04	0.209
103	13.04	0.278
Std Dev	12.98	1.000
14	12.98	1.114
14	12.96	1.323
137	12.85	2.924

010.99 Total Nitrogen		
Lab	Other	
32	13.14	-1.340
Std Dev	13.11	-1.000
Median	13.04	0.000
Std Dev	12.97	1.000
32	12.94	1.340

010.XX Total Nitrogen		
Lab	Total Method	
140	13.15	-0.937
32	13.14	-0.885
31	13.12	-0.677
77	13.12	-0.677
31	13.12	-0.624
63	13.12	-0.624
79	13.06	-0.052
Median	13.06	0.000
66	13.05	0.052
79	13.04	0.156
103	13.04	0.208
14	12.98	0.833
14	12.96	0.989
Std Dev	12.96	1.000

32 12.94 1.197  
137 12.85 2.186

020.20 Total Phosphate		
Lab	Spectrometric	
79	34.62	-0.989
31	34.52	-0.678
79	34.52	-0.678
31	34.49	-0.584
32	34.44	-0.413
34	34.37	-0.210
140	34.35	-0.132
24	34.34	-0.117
24	34.32	-0.055
Median	34.30	0.000
32	34.29	0.055
61	34.16	0.460
16	34.12	0.569
237	34.03	0.849
Std Dev	33.98	1.000
14	33.98	1.021
61	33.96	1.067
14	33.90	1.270
23	33.79	1.597
23	33.78	1.644

020.40 Total Phosphate		
Lab	Automated	
137	34.79	0.000
Median	34.79	0.000

020.99 Total Phosphate		
Lab	Other	
275	34.42	0.000
Median	34.42	0.000

020.XX Total Phosphate		
Lab	Total Method	
137	34.79	-1.410
Std Dev	34.65	-1.000
79	34.62	-0.898
31	34.52	-0.589
79	34.52	-0.589
31	34.49	-0.496

32	34.44	-0.325
275	34.42	-0.283
34	34.37	-0.124
140	34.35	-0.046
24	34.34	-0.031
Median	34.33	0.000
24	34.32	0.031
32	34.29	0.139
61	34.16	0.542
16	34.12	0.651
237	34.03	0.929
Std Dev	34.01	1.000
14	33.98	1.100
61	33.96	1.146
14	33.90	1.348
23	33.79	1.673
23	33.78	1.720

030.20 Insoluble Phosphate		
Lab	Spectrometric	
32	0.23	-1.531
61	0.21	-1.225
61	0.21	-1.225
Std Dev	0.20	-1.000
140	0.19	-0.842
23	0.13	0.000
24	0.13	0.000
Median	0.13	0.000
23	0.12	0.153
24	0.12	0.230
79	0.09	0.613
79	0.08	0.766

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
31	0.13	-1.340
Std Dev	0.12	-1.000
Median	0.12	0.000
Std Dev	0.12	1.000
31	0.12	1.340

030.40 Insoluble Phosphate		
Lab	Automated	
32	0.21	-1.340

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Std Dev	0.19	-1.000
Median	0.16	0.000
Std Dev	0.12	1.000
34	0.11	1.340

030.XX Insoluble Phosphate		
Lab	Total Method	
32	0.23	-1.616
61	0.21	-1.301
61	0.21	-1.301
32	0.21	-1.222
Std Dev	0.19	-1.000
140	0.19	-0.906
23	0.13	-0.039
24	0.13	-0.039
Median	0.13	0.000
31	0.13	0.039
23	0.12	0.118
24	0.12	0.197
31	0.12	0.197
34	0.11	0.276
79	0.09	0.591
79	0.08	0.749

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
79	34.53	-1.072
Std Dev	34.51	-1.000
79	34.44	-0.788
31	34.40	-0.646
31	34.38	-0.583
24	34.23	-0.110
32	34.21	-0.047
24	34.19	0.000
Median	34.19	0.000
140	34.16	0.095
32	34.08	0.347
61	33.95	0.757
Std Dev	33.87	1.000
61	33.75	1.387
23	33.66	1.671
23	33.66	1.687

040.99 Indirect Available Phosphate		
Lab	Other	
34	34.26	0.000
Median	34.26	0.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
79	34.53	-1.225
Std Dev	34.47	-1.000
79	34.44	-0.893
31	34.40	-0.728
31	34.38	-0.654
34	34.26	-0.230
24	34.23	-0.101
32	34.21	-0.028
Median	34.20	0.000
24	34.19	0.028
140	34.16	0.138
32	34.08	0.433
61	33.95	0.912
Std Dev	33.93	1.000
61	33.75	1.649
23	33.66	1.980
23	33.66	1.998

041.50 Direct Available Phosphate		
Lab	ICP	
63	34.24	-1.340
Std Dev	34.19	-1.000
Median	34.07	0.000
Std Dev	33.94	1.000
66	33.90	1.340

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
137	34.57	-1.667
77	34.34	-1.171
Std Dev	34.25	-1.000
79	33.78	0.000
Median	33.78	0.000
79	33.70	0.169
Std Dev	33.31	1.000
103	33.23	1.171

041.XX Direct Available Phosphate		
Lab	Total Method	
137	34.57	-1.647
77	34.34	-1.070
Std Dev	34.31	-1.000
63	34.24	-0.824
66	33.90	0.000
Median	33.90	0.000
79	33.78	0.295
79	33.70	0.492
Std Dev	33.49	1.000
103	33.23	1.660

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
79	30.25	-1.693
32	30.25	-1.646
79	30.21	-1.316
24	30.20	-1.222
Std Dev	30.18	-1.000
24	30.17	-0.893
32	30.12	-0.470
31	30.08	-0.047
14	30.07	0.000
61	30.07	0.000
Median	30.07	0.000
14	30.06	0.141
31	30.05	0.188
61	30.03	0.376
140	29.98	0.846
Std Dev	29.96	1.000
23	29.61	4.326
23	29.60	4.420

048.99 Water Soluble Phosphate		
Lab	Other	
34	29.97	0.000
Median	29.97	0.000

048.XX Water Soluble Phosphate		
Lab	Total Method	
79	30.25	-1.544
32	30.25	-1.501
79	30.21	-1.201

24	30.20	-1.115
Std Dev	30.19	-1.000
24	30.17	-0.815
32	30.12	-0.429
31	30.08	-0.043
14	30.07	0.000
61	30.07	0.000
Median	30.07	0.000
14	30.06	0.129
31	30.05	0.172
61	30.03	0.343
140	29.98	0.772
34	29.97	0.858
Std Dev	29.95	1.000
23	29.61	3.945
23	29.60	4.031

050.50 %K <sub>2</sub> O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.13	-1.340
Std Dev	0.13	-1.000
Median	0.13	0.000
Std Dev	0.12	1.000
23	0.12	1.340

050.51 %K <sub>2</sub> O Soluble Potash		
Lab	ICP(Citrate)	
137	0.11	0.000
Median	0.11	0.000

050.99 Soluble Potash		
Lab	%K <sub>2</sub> O	Other
31	0.21	-2.967
31	0.17	-1.436
Std Dev	0.15	-1.000
24	0.13	-0.096
Median	0.13	0.000
24	0.13	0.096
61	0.12	0.287
61	0.12	0.479

050.XX Soluble Potash		
Lab	%K <sub>2</sub> O	Total Method
31	0.21	-10.720

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31	0.17	-5.360
Std Dev	0.13	-1.000
23	0.13	-0.670
24	0.13	-0.670
24	0.13	0.000
Median	0.13	0.000
23	0.12	0.670
61	0.12	0.670
Std Dev	0.12	1.000
61	0.12	1.340
137	0.11	2.010

060.00		Free Water
Lab		Vacuum Oven
24	0.78	-0.738
32	0.76	-0.629
34	0.74	-0.547
32	0.73	-0.465
24	0.68	-0.219
79	0.66	-0.109
79	0.65	-0.055
Median	0.64	0.000
140	0.63	0.055
31	0.58	0.356
31	0.53	0.629
Std Dev	0.46	1.000
23	0.45	1.039
23	0.43	1.149
61	0.39	1.395
61	0.26	2.106

060.10		Free Water
Lab		Vacuum Desiccate
237	0.53	0.000
Median	0.53	0.000

060.99		Free Water
Lab		Other
14	0.89	-1.340
Std Dev	0.88	-1.000
Median	0.87	0.000
Std Dev	0.86	1.000
14	0.86	1.340

060.XX		Free Water
Lab		Total Method
14	0.89	-1.465
14	0.86	-1.309
Std Dev	0.81	-1.000
24	0.78	-0.779
32	0.76	-0.654
34	0.74	-0.561
32	0.73	-0.467
24	0.68	-0.187
79	0.66	-0.062
79	0.65	0.000
Median	0.65	0.000
140	0.63	0.125
31	0.58	0.467
237	0.53	0.748
31	0.53	0.779
Std Dev	0.49	1.000
23	0.45	1.247
23	0.43	1.371
61	0.39	1.652
61	0.26	2.462

101.30			Acid Soluble Calcium
Lab	%CaO		ICP
32	0.29		-2.474
32	0.26		-1.237
Std Dev	0.25		-1.000
16	0.25		-0.825
24	0.25		-0.618
61	0.25		-0.618
61	0.24		-0.412
24	0.23		0.000
34	0.23		0.000
Median	0.23		0.000
237	0.23		0.179
31	0.22		0.412
14	0.22		0.618
31	0.21		0.825
23	0.21		0.825
Std Dev	0.21		1.000
23	0.21		1.031
14	0.20		1.237

101.XX		Acid Soluble Calcium
Lab	%CaO	Total Method
32	0.29	-2.474
32	0.26	-1.237
Std Dev	0.25	-1.000
16	0.25	-0.825
24	0.25	-0.618
61	0.25	-0.618
61	0.24	-0.412
24	0.23	0.000
34	0.23	0.000
Median	0.23	0.000
237	0.23	0.179
31	0.22	0.412
14	0.22	0.618
31	0.21	0.825
23	0.21	0.825
Std Dev	0.21	1.000
23	0.21	1.031
14	0.20	1.237

121.00		Acid Soluble Magnesium
Lab	%MgO	Atomic Absorption
275	0.71	0.000
Median	0.71	0.000

121.30		Acid Soluble Magnesium
Lab	%MgO	ICP
34	0.74	-1.848
24	0.73	-1.294
Std Dev	0.72	-1.000
32	0.72	-0.924
24	0.70	-0.370
14	0.70	-0.185
14	0.70	-0.185
32	0.69	0.000
61	0.69	0.000
61	0.69	0.000
Median	0.69	0.000
31	0.68	0.370
23	0.67	0.739
Std Dev	0.66	1.000
16	0.66	1.109
23	0.66	1.109

237	0.66	1.181
31	0.66	1.294
66	0.39	11.090

121.XX		Acid Soluble Magnesium
Lab	%MgO	Total Method
34	0.74	-1.675
24	0.73	-1.173
Std Dev	0.72	-1.000
32	0.72	-0.838
275	0.71	-0.620
24	0.70	-0.335
14	0.70	-0.168
14	0.70	-0.168
32	0.69	0.000
61	0.69	0.000
61	0.69	0.000
Median	0.69	0.000
31	0.68	0.335
23	0.67	0.670
Std Dev	0.66	1.000
16	0.66	1.005
23	0.66	1.005
237	0.66	1.070
31	0.66	1.173
66	0.39	10.050

144..01		Sulfate Sulfur (S)
Lab		Gravimetric
140	7.56	-2.680
Std Dev	7.55	-1.000
79	7.54	0.000
79	7.54	0.000
Median	7.54	0.000

144.99		Sulfate Sulfur (S)
Lab		Other
61	13.65	-2.424
61	13.15	-2.222
14	12.08	-1.793
14	11.90	-1.721
Std Dev	10.10	-1.000
275	7.72	-0.047
23	7.66	-0.021

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24	7.61	-0.001
Median	7.60	0.000
24	7.60	0.001
23	7.60	0.003
34	7.52	0.033
31	7.51	0.039
31	7.50	0.043
32	7.46	0.059
32	7.12	0.193

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
61	13.65	-40.569
61	13.15	-37.185
14	12.08	-30.016
14	11.90	-28.810
Std Dev	7.74	-1.000
275	7.72	-0.837
23	7.66	-0.402
24	7.61	-0.067
24	7.60	-0.033
23	7.60	0.000
Median	7.60	0.000
140	7.56	0.268
79	7.54	0.369
79	7.54	0.369
34	7.52	0.503
31	7.51	0.603
31	7.50	0.670
32	7.46	0.938
Std Dev	7.45	1.000
32	7.12	3.183

145.99 Total Sulfur (S)		
Lab	Other	Total Method
140	15.34	-4.717
34	15.12	-2.412
Std Dev	14.99	-1.000
23	14.97	-0.804
23	14.96	-0.697
24	14.90	0.000
Median	14.90	0.000
32	14.89	0.107
32	14.85	0.536

Std Dev	14.80	1.000
24	14.77	1.394
77	9.36	59.389

145.XX Total Sulfur (S)		
Lab	Total Method	
140	15.34	-4.717
34	15.12	-2.412
Std Dev	14.99	-1.000
23	14.97	-0.804
23	14.96	-0.697
24	14.90	0.000
Median	14.90	0.000
32	14.89	0.107
32	14.85	0.536
Std Dev	14.80	1.000
24	14.77	1.394
77	9.36	59.389

151.30 Total Arsenic		
Lab	ICP	
61	<1	0.000
31	5.30	-0.383
31	5.20	0.000
Median	5.20	0.000
Std Dev	4.94	1.000
16	4.60	2.297

151.XX Total Arsenic		
Lab	Total Method	
61	<1	0.000
31	5.30	-0.383
31	5.20	0.000
Median	5.20	0.000
Std Dev	4.94	1.000
16	4.60	2.297

181.30 Total Cadmium		
Lab	PPM	ICP
16	3.15	-10.273
Std Dev	2.11	-1.000
61	2.00	0.000
61	2.00	0.000
Median	2.00	0.000

Std Dev	1.89	1.000
31	1.85	1.340
31	1.85	1.340

181.XX Total Cadmium		
Lab	PPM	Total Method
16	3.15	-10.273
Std Dev	2.11	-1.000
61	2.00	0.000
61	2.00	0.000
Median	2.00	0.000
Std Dev	1.89	1.000
31	1.85	1.340
31	1.85	1.340

190.00 Aluminum		
Lab	%Al <sub>2</sub> O <sub>3</sub>	ICP
32	1.14	-0.946
14	1.13	-0.788
14	1.13	-0.788
24	1.13	-0.631
24	1.12	-0.473
32	1.12	-0.315
23	1.11	0.000
31	1.11	0.000
Median	1.11	0.000
34	1.10	0.158
237	1.10	0.244
23	1.09	0.473
Std Dev	1.07	1.000
16	1.07	1.104
31	1.07	1.104
61	1.07	1.261
61	1.07	1.261

190.XX Aluminum		
Lab	%Al <sub>2</sub> O <sub>3</sub>	Total Method
32	1.14	-0.946
14	1.13	-0.788
14	1.13	-0.788
24	1.13	-0.631
24	1.12	-0.473
32	1.12	-0.315
23	1.11	0.000

31	1.11	0.000
Median	1.11	0.000
34	1.10	0.158
237	1.10	0.244
23	1.09	0.473
Std Dev	1.07	1.000
16	1.07	1.104
31	1.07	1.104
61	1.07	1.261
61	1.07	1.261

191.30 Total Chromium		
Lab	ICP	
31	59.75	-3.787
31	57.55	-1.223
Std Dev	57.36	-1.000
61	56.50	0.000
Median	56.50	0.000
16	56.40	0.117
Std Dev	55.64	1.000
61	54.50	2.330

191.XX Total Chromium		
Lab	PPM	Total Method
31	59.75	-3.787
31	57.55	-1.223
Std Dev	57.36	-1.000
61	56.50	0.000
Median	56.50	0.000
16	56.40	0.117
Std Dev	55.64	1.000
61	54.50	2.330

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
31	<1.0	0.000
31	<1.0	0.000
16	2.73	-2.680
Std Dev	2.27	-1.000
61	2.00	0.000
61	2.00	0.000

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Median 2.00 0.000

221.30 Acid Soluble Copper		
Lab	PPM	ICP
31	<1.0	0.000
31	<1.0	0.000
16	3.10	-2.680
Std Dev	3.04	-1.000
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
31	<1.0	0.000
31	<1.0	0.000
16	3.10	-2.680
Std Dev	3.04	-1.000
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000

241.30 Acid Soluble Iron		
Lab	%Fe <sub>2</sub> O <sub>3</sub>	ICP
24	1.40	-1.489
24	1.40	-1.290
Std Dev	1.39	-1.000
14	1.39	-0.893
31	1.38	-0.695
14	1.37	-0.298
34	1.37	-0.298
61	1.37	-0.298
32	1.37	-0.099
Median	1.36	0.000

23	1.36	0.099
23	1.35	0.496
237	1.34	0.768
16	1.34	0.893
Std Dev	1.34	1.000
32	1.34	1.092
31	1.32	1.886
61	1.31	2.283
66	0.98	15.365

241.XX Acid Soluble Iron		
Lab	%Fe <sub>2</sub> O <sub>3</sub>	Total Method
24	1.40	-1.489
24	1.40	-1.290
Std Dev	1.39	-1.000
14	1.39	-0.893
31	1.38	-0.695
14	1.37	-0.298
34	1.37	-0.298
61	1.37	-0.298
32	1.37	-0.099
Median	1.36	0.000
23	1.36	0.099
23	1.35	0.496
237	1.34	0.768
16	1.34	0.893
Std Dev	1.34	1.000
32	1.34	1.092
31	1.32	1.886
61	1.31	2.283
66	0.98	15.365

251.30 Total Lead		
Lab	PPM	ICP
31	<1.0	0.000
31	<1.0	0.000
61	2.00	-0.827
61	1.50	0.000
Median	1.50	0.000
16	0.38	1.853

251.XX Total Lead		
Lab	PPM	Total Method
31	<1.0	0.000
31	<1.0	0.000
61	2.00	-0.827
61	1.50	0.000
Median	1.50	0.000
16	0.38	1.853

261.30 Acid Soluble Manganese		
Lab	PPM	ICP
31	236.20	-0.911
31	233.85	-0.636

Median	228.43	0.000
61	223.00	0.636
61	223.00	0.636

261.99 Acid Soluble Manganese		
Lab	PPM	Other
16	272.00	0.000
Median	272.00	0.000

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
16	272.00	-3.873
Std Dev	243.70	-1.000
31	236.20	-0.239
31	233.85	0.000
Median	233.85	0.000
Std Dev	224.00	1.000
61	223.00	1.101
61	223.00	1.101

289.30 Total Molybdenum		
Lab	PPM	ICP

289.XX Total Molybdenum		
Lab	PPM	Total Method
16	8.82	-2.887
Std Dev	7.27	-1.000
31	6.60	-0.183
31	6.45	0.000
Median	6.45	0.000
Std Dev	5.63	1.000
61	5.50	1.157
61	5.00	1.766

291.30 Total Nickel		
Lab	PPM	ICP

291.99 Total Nickel		
Lab	PPM	Other
31	17.30	0.000
Median	17.30	0.000

291.XX Total Nickel		
Lab	PPM	Total Method

31	18.70	-1.502
Std Dev	17.46	-1.000
31	17.30	-0.934
16	15.00	0.000
Median	15.00	0.000
61	14.00	0.406
61	14.00	0.406

301.30 Total Selenium		
Lab	PPM	ICP
61	<1	0.000
Median	0.00	0.000

301.XX Total Selenium		
Lab	PPM	Total Method
61	<1	0.000
Median	0.00	0.000

311.30 Sodium		
Lab	%Na <sub>2</sub> O	Flame Photometric
16	0.16	0.000
Median	0.16	0.000

311.99 Sodium		
Lab	%Na <sub>2</sub> O	Other
23	0.20	-1.949
23	0.20	-1.705
Std Dev	0.18	-1.000
24	0.17	-0.487
24	0.16	0.000
31	0.16	0.000
Median	0.16	0.000
31	0.15	0.487
61	0.15	0.731
61	0.14	0.975

311.XX Sodium		
Lab	%Na <sub>2</sub> O	Total Method
23	0.20	-2.680
23	0.20	-2.345
Std Dev	0.17	-1.000
24	0.17	-0.670
16	0.16	0.000
24	0.16	0.000

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31	0.16	0.000
Median	0.16	0.000
31	0.15	0.670
Std Dev	0.15	1.000
61	0.15	1.005
61	0.14	1.340

321.30		Acid Soluble Zinc
Lab	PPM	ICP
31	134.00	-1.368
31	125.95	-1.156
Std Dev	120.02	-1.000
16	82.00	0.000
Median	82.00	0.000
61	75.00	0.184
61	71.00	0.289

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
31	134.00	-1.368
31	125.95	-1.156
Std Dev	120.02	-1.000
16	82.00	0.000
Median	82.00	0.000
61	75.00	0.184
61	71.00	0.289

325.10		Fluoride
Lab	%	Electrode
32	1.72	-0.998
32	1.66	-0.656
24	1.62	-0.428
24	1.61	-0.399
34	1.57	-0.143
79	1.55	-0.057
79	1.54	0.000
Median	1.54	0.000
23	1.45	0.542
23	1.43	0.627
14	1.38	0.941
14	1.36	1.003
31	0.14	7.983
31	0.14	7.983

325.99		Fluoride
Lab	%	Other
61	1.67	-1.340
Median	1.65	0.000
61	1.63	1.340

325.XX		Fluoride
Lab	%	Total Method
32	1.72	-1.017
61	1.67	-0.739
32	1.66	-0.647
61	1.63	-0.462
24	1.62	-0.400
24	1.61	-0.370
34	1.57	-0.092
79	1.55	0.000
Median	1.55	0.000
79	1.54	0.062
23	1.45	0.647
23	1.43	0.739
14	1.38	1.078
14	1.36	1.146
31	0.14	8.687
31	0.14	8.687