

AFPC Check Sample 06-2010  
AFPC MEMBERS ONLY

001.99 Ammoniacal Nitrogen		
Lab		Other
34	11.40	-0.754
61	11.40	-0.754
61	11.38	-0.335
23	11.36	-0.084
Median	11.36	0.000
24	11.35	0.084
23	11.32	0.586
Std Dev	11.30	1.000
24	11.25	1.842
32	11.22	2.261

001.XX Ammoniacal Nitrogen		
Lab		Total Method
34	11.40	-0.754
61	11.40	-0.754
61	11.38	-0.335
23	11.36	-0.084
Median	11.36	0.000
24	11.35	0.084
23	11.32	0.586
Std Dev	11.30	1.000
24	11.25	1.842
32	11.22	2.261

010.60 Total Nitrogen		
Lab		Combustion
31	11.42	-1.446
Std Dev	11.39	-1.000
9	11.37	-0.596
14	11.34	0.000
14	11.34	0.000
Median	11.34	0.000
Std Dev	11.28	1.000
24	11.27	1.191
24	11.23	1.872

010.99 Total Nitrogen		
Lab		Other
32	11.28	0.000
Median	11.28	0.000

010.XX Total Nitrogen		
Lab		Total Method
31	11.42	-1.424
Std Dev	11.39	-1.000
9	11.37	-0.586
14	11.34	0.000
14	11.34	0.000
Median	11.34	0.000
32	11.28	0.921
Std Dev	11.28	1.000
24	11.27	1.173
24	11.23	1.843

020.20 Total Phosphate		
Lab		Spectrometric
34	53.48	-1.690
61	53.45	-1.485
23	53.39	-1.041
Std Dev	53.38	-1.000
9	53.31	-0.495
23	53.29	-0.393
14	53.24	-0.017
Median	53.23	0.000
14	53.23	0.017
31	53.14	0.666
24	53.13	0.700
61	53.13	0.734
Std Dev	53.09	1.000
32	53.00	1.588
24	53.00	1.622

020.50 Total Phosphate		
Lab		ICP
9	53.59	0.000
Median	53.59	0.000

020.XX Total Phosphate		
Lab		Total Method
9	53.59	-1.839
34	53.48	-1.287
61	53.45	-1.130
Std Dev	53.43	-1.000
23	53.39	-0.788
9	53.31	-0.368

23	53.29	-0.289
14	53.24	0.000
Median	53.24	0.000
14	53.23	0.026
31	53.14	0.525
24	53.13	0.552
61	53.13	0.578
Std Dev	53.04	1.000
32	53.00	1.235
24	53.00	1.261

030.20 Insoluble Phosphate		
Lab		Spectrometric
32	0.64	-1.182
Std Dev	0.63	-1.000
14	0.60	-0.473
24	0.59	-0.315
14	0.58	-0.236
23	0.57	0.000
Median	0.57	0.000
24	0.56	0.079
Std Dev	0.50	1.000
23	0.50	1.025
61	0.47	1.576
61	0.41	2.444

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.58	0.000
Median	0.58	0.000

030.40 Insoluble Phosphate		
Lab		Automated
34	0.57	0.000
Median	0.57	0.000

030.50 Insoluble Phosphate		
Lab		ICP
9	0.46	0.000
Median	0.46	0.000

030.XX Insoluble Phosphate		
Lab		Total Method
32	0.64	-1.079

Std Dev	0.63	-1.000
14	0.60	-0.409
24	0.59	-0.261
14	0.58	-0.186
31	0.58	-0.186
34	0.57	-0.037
Median	0.57	0.000
23	0.57	0.037
24	0.56	0.112
Std Dev	0.50	1.000
23	0.50	1.005
61	0.47	1.526
9	0.46	1.601
61	0.41	2.345

040.20 Indirect Available Phosphate		
Lab		Spectrometric
61	52.99	-2.010
23	52.82	-1.005
Std Dev	52.82	-1.000
23	52.79	-0.822
61	52.72	-0.365
14	52.66	0.000
Median	52.66	0.000
14	52.64	0.122
24	52.57	0.518
31	52.56	0.609
Std Dev	52.49	1.000
24	52.41	1.492

040.50 Indirect Available Phosphate		
Lab		ICP
9	53.00	0.000
Median	53.00	0.000

040.99 Indirect Available Phosphate		
Lab		Other
34	52.90	0.000
Median	52.90	0.000

040.XX Indirect Available Phosphate		
Lab		Total Method
9	53.00	-1.483
61	52.99	-1.405

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Std Dev	52.91	-1.000
34	52.90	-0.963
23	52.82	-0.546
23	52.79	-0.390
61	52.72	0.000
Median	52.72	0.000
14	52.66	0.312
14	52.64	0.416
24	52.57	0.755
31	52.56	0.833
Std Dev	52.52	1.000
24	52.41	1.587

041.40 Direct Available Phosphate		
Lab	Automated	
14	52.55	-1.340
Std Dev	52.55	-1.000
Median	52.54	0.000
Std Dev	52.53	1.000
14	52.53	1.340

041.XX Direct Available Phosphate		
Lab	Total Method	
14	52.55	-1.340
Std Dev	52.55	-1.000
Median	52.54	0.000
Std Dev	52.53	1.000
14	52.53	1.340

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
61	48.36	-0.581
31	48.20	-0.213
23	48.17	-0.144
23	48.17	-0.144
24	48.13	-0.052
Median	48.11	0.000
61	48.09	0.052
24	47.88	0.523
Std Dev	47.67	1.000
32	47.49	1.421
14	47.48	1.444
14	47.45	1.524

048.99 Water Soluble Phosphate		
Lab	Other	
9	48.27	-1.340
Std Dev	48.24	-1.000
Median	48.14	0.000
Std Dev	48.04	1.000
34	48.01	1.340

048.XX Water Soluble Phosphate		
Lab	Total Method	
61	48.36	-0.857
9	48.27	-0.551
31	48.20	-0.314
23	48.17	-0.212
23	48.17	-0.212
24	48.13	-0.076
Median	48.11	0.000
61	48.09	0.076
34	48.01	0.331
24	47.88	0.772
Std Dev	47.81	1.000
32	47.49	2.095
14	47.48	2.129
14	47.45	2.247

050.50 %K <sub>2</sub> O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.19	0.000
23	0.19	0.000
Median	0.19	0.000

050.99 Soluble Potash		
Lab	%K <sub>2</sub> O	Other
61	0.22	-1.005
Std Dev	0.22	-1.000
61	0.21	-0.558
Median	0.20	0.000
24	0.19	0.558
Std Dev	0.18	1.000
24	0.18	1.005

050.XX Soluble Potash		
Lab	%K <sub>2</sub> O	Total Method
61	0.22	-2.144

61	0.21	-1.429
Std Dev	0.20	-1.000
23	0.19	0.000
23	0.19	0.000
Median	0.19	0.000
24	0.19	0.357
Std Dev	0.18	1.000
24	0.18	1.072

060.00 Free Water		
Lab	Vacuum Oven	
31	0.95	-2.040
24	0.82	-1.476
24	0.79	-1.367
Std Dev	0.71	-1.000
32	0.53	-0.239
9	0.50	-0.109
Median	0.48	0.000
23	0.45	0.109
23	0.44	0.174
34	0.41	0.282
14	0.36	0.499
14	0.36	0.499

060.10 Free Water		
Lab	Vacuum Desiccate	
61	0.52	-1.340
Std Dev	0.51	-1.000
Median	0.47	0.000
Std Dev	0.44	1.000
61	0.43	1.340

060.XX Free Water		
Lab	Total Method	
31	0.95	-3.625
24	0.82	-2.622
24	0.79	-2.429
Std Dev	0.60	-1.000
32	0.53	-0.424
61	0.52	-0.347
9	0.50	-0.193
Median	0.48	0.000
23	0.45	0.193
23	0.44	0.308

61	0.43	0.386
34	0.41	0.501
14	0.36	0.887
14	0.36	0.887

101.30 Acid Soluble Calcium			
Lab	%CaO	ICP	
24	0.31	-1.276	
23	0.30	-1.021	
34	0.30	-1.021	
Std Dev	0.30	-1.000	
23	0.30	-0.766	
61	0.29	-0.510	
24	0.28	0.000	
32	0.28	0.000	
61	0.28	0.000	
Median	0.28	0.000	
14	0.27	0.510	
14	0.27	0.510	
31	0.27	0.510	
9	0.27	0.766	

101.XX Acid Soluble Calcium			
Lab	%CaO	Total Method	
24	0.31	-1.276	
23	0.30	-1.021	
34	0.30	-1.021	
Std Dev	0.30	-1.000	
23	0.30	-0.766	
61	0.29	-0.510	
24	0.28	0.000	
32	0.28	0.000	
61	0.28	0.000	
Median	0.28	0.000	
14	0.27	0.510	
14	0.27	0.510	
31	0.27	0.510	
9	0.27	0.766	

121.30 Acid Soluble Magnesium			
Lab	%MgO	ICP	
23	1.10	-1.608	
23	1.09	-1.340	
24	1.08	-1.072	

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Std Dev	1.08	-1.000
9	1.06	-0.536
34	1.06	-0.536
14	1.04	0.000
14	1.04	0.000
Median	1.04	0.000
31	1.03	0.402
24	1.02	0.670
61	1.02	0.670
61	1.01	0.938
Std Dev	1.00	1.000
32	0.99	1.340

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
23	1.10	-1.608
23	1.09	-1.340
24	1.08	-1.072
Std Dev	1.08	-1.000
9	1.06	-0.536
34	1.06	-0.536
14	1.04	0.000
14	1.04	0.000
Median	1.04	0.000
31	1.03	0.402
24	1.02	0.670
61	1.02	0.670
61	1.01	0.938
Std Dev	1.00	1.000
32	0.99	1.340

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
61	1.77	-1.340
Std Dev	1.76	-1.000
Median	1.73	0.000
Std Dev	1.71	1.000
61	1.70	1.340

144.70 Sulfur		
Lab	Spectrometric	
14	1.66	-1.340
Std Dev	1.66	-1.000
Median	1.66	0.000

Std Dev	1.65	1.000
14	1.65	1.340

144.99 Sulfate Sulfur (S)		
Lab	Other	
23	1.66	-1.307
23	1.66	-1.177
Std Dev	1.65	-1.000
24	1.62	-0.261
24	1.61	0.000
34	1.61	0.000
Median	1.61	0.000
9	1.59	0.523
Std Dev	1.57	1.000
32	1.54	1.830
31	1.53	2.222

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
61	1.77	-3.167
61	1.70	-1.584
Std Dev	1.68	-1.000
14	1.66	-0.609
23	1.66	-0.609
23	1.66	-0.487
14	1.65	-0.365
Median	1.64	0.000
24	1.62	0.365
24	1.61	0.609
34	1.61	0.609
Std Dev	1.59	1.000
9	1.59	1.096
32	1.54	2.315
31	1.53	2.680

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
61	1.77	-3.167
61	1.70	-1.584
Std Dev	1.68	-1.000
14	1.66	-0.609
23	1.66	-0.609
23	1.66	-0.487
14	1.65	-0.365
Median	1.64	0.000
24	1.62	0.365
24	1.61	0.609
34	1.61	0.609
Std Dev	1.59	1.000
9	1.59	1.096
32	1.54	2.315
31	1.53	2.680

151.30 Total Arsenic		
Lab	ICP	
61	14.50	0.000
61	14.50	0.000
Median	14.50	0.000
Std Dev	12.90	1.000
24	10.20	2.680

151.XX Total Arsenic		
Lab	Total Method	
61	14.50	0.000
61	14.50	0.000
Median	14.50	0.000
Std Dev	12.90	1.000
24	10.20	2.680

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	34.90	0.000
Median	34.90	0.000

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	34.90	0.000
Median	34.90	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
61	3.50	-2.680
Std Dev	3.19	-1.000
9	3.00	0.000
61	3.00	0.000
Median	3.00	0.000

181.99 Total Cadmium		
Lab	Other	
24	3.23	0.000
Median	3.23	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
61	3.50	-1.734
Std Dev	3.34	-1.000
24	3.23	-0.518
Median	3.12	0.000
9	3.00	0.518
61	3.00	0.518

190.00 Aluminum		
Lab	%Al <sub>2</sub> O <sub>3</sub>	ICP
9	1.75	-1.489
14	1.73	-1.191

14	1.73	-1.191
Std Dev	1.72	-1.000
34	1.69	-0.397
23	1.68	-0.099
23	1.67	0.000
24	1.67	0.000
Median	1.67	0.000
24	1.66	0.199
61	1.63	0.893
32	1.62	0.993
61	1.62	0.993

190.99 Aluminum		
Lab	%Al <sub>2</sub> O <sub>3</sub>	Atomic Absorption
31	1.69	0.000
Median	1.69	0.000

190.XX Aluminum		
Lab	%Al <sub>2</sub> O <sub>3</sub>	Total Method
9	1.75	-1.993
14	1.73	-1.581
14	1.73	-1.581
Std Dev	1.71	-1.000
34	1.69	-0.481
31	1.69	-0.344
23	1.68	-0.069
Median	1.67	0.000
23	1.67	0.069
24	1.67	0.069
24	1.66	0.344
Std Dev	1.64	1.000
61	1.63	1.306
32	1.62	1.443
61	1.62	1.443

191.30 Total Chromium		
Lab	ICP	
31	88.50	-1.508
Std Dev	87.74	-1.000
61	87.00	-0.503
Median	86.25	0.000
9	85.50	0.503
61	85.00	0.838

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191.99	Total Chromium	
Lab	PPM	Other
24	83.90	0.000
Median	83.90	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
31	88.50	-2.010
61	87.00	-1.005
Std Dev	86.99	-1.000
9	85.50	0.000
Median	85.50	0.000
61	85.00	0.335
Std Dev	84.01	1.000
24	83.90	1.072

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
61	3.00	0.000
61	3.00	0.000
Median	3.00	0.000
Std Dev	2.98	1.000
9	2.95	2.680

202.99	Acid Soluble Cobalt	
Lab	PPM	Other
24	2.60	0.000
Median	2.60	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
61	3.00	-0.244
61	3.00	-0.244
Median	2.98	0.000
9	2.95	0.244
Std Dev	2.87	1.000
24	2.60	3.655

221.30	Acid Soluble Copper	
Lab	PPM	ICP
61	2.00	-1.340
Std Dev	1.94	-1.000
Median	1.75	0.000
Std Dev	1.56	1.000

61 1.50 1.340

221.99	Acid Soluble Copper	
Lab	PPM	Other
24	0.43	0.000
Median	0.43	0.000

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
61	2.00	-0.854
61	1.50	0.000
Median	1.50	0.000
Std Dev	0.91	1.000
24	0.43	1.826

241.30	Acid Soluble Iron	
Lab	%Fe <sub>2</sub> O <sub>3</sub>	ICP
23	1.34	-0.995
23	1.33	-0.689
34	1.33	-0.689
14	1.31	-0.077
24	1.31	-0.077
24	1.31	-0.077
Median	1.31	0.000
14	1.31	0.077

241.30	Acid Soluble Iron	
Lab	PPM	ICP
31	1.29	0.536
9	1.28	0.995
Std Dev	1.27	1.000
32	1.26	1.455
61	1.26	1.455
61	1.26	1.608

241.XX	Acid Soluble Iron	
Lab	%Fe <sub>2</sub> O <sub>3</sub>	Total Method
23	1.34	-0.995
23	1.33	-0.689
34	1.33	-0.689
14	1.31	-0.077
24	1.31	-0.077
24	1.31	-0.077
Median	1.31	0.000
14	1.31	0.077
31	1.29	0.536
9	1.28	0.995

Std Dev	1.27	1.000
32	1.26	1.455
61	1.26	1.455
61	1.26	1.608

251.30	Total Lead	
Lab	PPM	ICP
61	1.00	0.000
61	1.00	0.000
Median	1.00	0.000

251.99	Total Lead	
Lab	PPM	Other
24	1.09	0.000
Median	1.09	0.000

251.XX	Total Lead	
Lab	PPM	Total Method
24	1.09	-2.680
Std Dev	1.03	-1.000
61	1.00	0.000
61	1.00	0.000
Median	1.00	0.000

261.30	Acid Soluble Manganese	
Lab	PPM	ICP
9	375.50	-1.340
Std Dev	374.74	-1.000
Median	372.50	0.000
Std Dev	370.26	1.000
31	369.50	1.340

261.99	Acid Soluble Manganese	
Lab	PPM	Other
61	367.00	-1.139
Std Dev	365.96	-1.000
61	358.50	0.000
Median	358.50	0.000
Std Dev	351.04	1.000
24	347.00	1.541

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
9	375.50	-1.035

Std Dev	375.21	-1.000
31	369.50	-0.305
61	367.00	0.000
Median	367.00	0.000
Std Dev	358.79	1.000
61	358.50	1.035
24	347.00	2.436

281.30	Total Mercury	
Lab	PPM	ICP
24	<0.07	0.000
Median	0.00	0.000

281.XX	Total Mercury	
Lab	PPM	Total Method
24	<0.07	0.000
Median	0.00	0.000

289.30	Total Molybdenum	
Lab	PPM	ICP
9		

289.99	Total Molybdenum	
Lab	PPM	Other
24	15.40	0.000
Median	15.40	0.000

289.XX	Total Molybdenum	
Lab	PPM	Total Method
24	15.40	-5.360
Std Dev	15.07	-1.000
9	15.00	0.000
61	15.00	0.000
61	15.00	0.000
Median	15.00	0.000

291.30	Total Nickel	
Lab	PPM	ICP
9	13.50	-1.340
Std Dev	13.37	-1.000
61	13.00	0.000
Median	13.00	0.000
Std Dev	12.63	1.000
61	12.50	1.340

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291.99	Total Nickel	
Lab	PPM	Other
24	14.80	0.000
Median	14.80	0.000

291.XX	Total Nickel	
Lab	PPM	Total Method
24	14.80	-2.186
Std Dev	13.96	-1.000
9	13.50	-0.353
Median	13.25	0.000
61	13.00	0.353
Std Dev	12.54	1.000
61	12.50	1.058

301.30	Total Selenium	
Lab	PPM	ICP
61	<1	0.000
61	<1	0.000
24	<0.50	0.000
Median	0.00	0.000

301.XX	Total Selenium	
Lab	PPM	Total Mthod
61	<1	0.000
61	<1	0.000
24	<0.50	0.000
Median	0.00	0.000

311.00	Sodium	
Lab	%Na <sub>2</sub> O	Atomic Absorbtion
61	0.26	0.000
Median	0.26	0.000

311.99	Sodium	
Lab	%Na <sub>2</sub> O	Other
24	0.27	-0.766
61	0.26	-0.191
24	0.25	0.000
Median	0.25	0.000
Std Dev	0.22	1.000
23	0.22	1.149
23	0.22	1.149

311.XX	Sodium	
Lab	%Na <sub>2</sub> O	Total Method
24	0.27	-0.750
61	0.26	-0.322
61	0.26	-0.107
Median	0.25	0.000
24	0.25	0.107
Std Dev	0.23	1.000
23	0.22	1.394
23	0.22	1.394

321.30	Acid Soluble Zinc	
Lab	PPM	ICP
24	84.20	-1.269
Std Dev	83.63	-1.000
61	81.50	0.000
Median	81.50	0.000
Std Dev	79.37	1.000
61	78.50	1.411

321.XX	Acid Soluble Zinc	
Lab	PPM	Total Method
24	84.20	-1.269
Std Dev	83.63	-1.000
61	81.50	0.000
Median	81.50	0.000
Std Dev	79.37	1.000
61	78.50	1.411

325.10	Fluoride	
Lab	%	Electrode
32	1.81	-1.206
24	1.79	-0.536
23	1.77	0.000
23	1.77	0.000
24	1.77	0.000
Median	1.77	0.000
9	1.75	0.536
31	1.72	1.340
34	1.71	1.474
14	1.32	11.926

325.99	Fluoride	
Lab	%	Other

61	1.77	-0.082
61	1.76	0.000
Median	1.76	0.000
14	1.28	2.598

325.XX	Fluoride	
Lab	%	Total Method
32	1.81	-1.276
24	1.79	-0.638
61	1.77	-0.255
23	1.77	-0.128
23	1.77	-0.128
24	1.77	-0.128
Median	1.76	0.000
61	1.76	0.128
9	1.75	0.383
31	1.72	1.149
34	1.71	1.276
14	1.32	11.230
14	1.28	12.251