

AFPC

Sample

2022-08

Grade

MAP

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.67	0.00
Ammoniacal Nitrogen, Other		001.99	18	11.68	0.07
Method Group 001.XX PCT			19	11.68	0.07
TOTAL NITROGEN					
Total Nitrogen, Combustion	993.13	010.60	14	11.52	0.13
Total Nitrogen, Other		010.99	5	11.70	0.01
Method Group 010.XX PCT			19	11.60	0.20
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	3	55.25	0.22
Total Phosphate, Spectrometric	978.02	020.20	22	54.90	0.11
Total Phosphate, ICP	970.03	020.40	1	56.30	0.00
Method Group 020.XX PCT			26	54.91	0.28
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.04	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	14	0.03	0.01
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.02	0.00
Method Group 030.XX PCT			16	0.03	0.01
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	54.64	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	15	54.87	0.12
Method Group 040.XX PCT			16	54.87	0.19
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	54.36	0.11
Direct Available Phosphate, ICP		041.50	3	53.15	9.83
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	54.67	0.81
Method Group 041.XX PCT			7	54.21	1.08
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	2	52.21	0.25
Water Soluble Phosphate, Spectrometric	970.01	048.20	19	51.43	0.21
Method Group 048.XX PCT			21	51.54	0.34
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	4	0.27	0.00
Soluble Potash, Other		050.99	6	0.27	0.01
Method Group 050.XX PCT			10	0.27	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	16	1.16	0.28
Free Water, Karl Fisher	972.01	060.20	1	1.25	0.00
Free Water, Other		060.99	3	1.24	0.04
Method Group 060.XX PCT			20	1.17	0.34
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	17	0.06	0.03
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	2.51	0.00
Method Group 101.XX PCT			18	0.06	0.04
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	18	1.31	0.03
Method Group 121.XX PCT			18	1.31	0.04
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.45	0.03
Sulfur, Spectrometric		144.70	1	1.48	0.00
Sulfur, Other		144.99	14	1.52	0.02
Method Group 144.XX PCT			18	1.52	0.04
TOTAL ARSENIC					

Total Arsenic, ICP	980.02(b)	151.02	7	2.4	0.6
Method Group 151.XX PPM			7	2.4	0.8
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	7	14.4	2.2
Method Group 181.XX PPM			7	14.4	2.7
ALUMINUM AS Al₂O₃					
ICP, %			18	0.68	0.02
Method Group 190.XX PCT			18	0.68	0.03
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	6	259	5.5
Method Group 191.XX PPM			6	259	6.7
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	6	2	1.5
Method Group 202.XX PPM			6	2	1.8
ACID SOLUBLE COPPER					
Method Group 221.XX PPM			5	4.9	4.4
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	18	0.57	0.01
Method Group 241.XX PCT			18	0.57	0.02
TOTAL LEAD					
Total Lead, ICP		251.30	5	1.4	1.6
Method Group 251.XX PPM			5	1.4	1.9
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	7	59	5.4
Method Group 261.XX PPM			7	59	6.6
TOTAL MERCURY					
Total Mercury, Atomic Absorbtion		281.00	2	2	1.23
Method Group 281.XX PPM			2	1.64	1.49
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	6	6	4.9
Method Group 289.XX PPM			6	6	6.0
TOTAL NICKEL					
Total Nickel, ICP		291.30	7	8.0	0.4
Method Group 291.XX PPM			7	8.0	0.5
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1	38.1	0.0
Method Group 301.XX PPM			1	38.1	0.0
SODIUM AS Na₂O					
Sodium, Flame Photometric	974.01	311.30	1	0.39	0.00
Sodium, Other		311.99	11	0.39	0.04
Method Group 311.XX PCT			12	0.39	0.05
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	6	382.7	79.2
Acid Soluble Zinc, Other		321.99	1	1.1	0.0
Method Group 321.XX %			7	372.1	119.0
FLUORIDE					
Volumetric		325.10	17	0.19	0.04
Distilled/Electrode		325.99	2	0.20	0.00
Method Group 325.XX PCT			19	0.19	0.05

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
113	11.67	0.000
Median	11.67	0.000

001.99 Ammoniacal Nitrogen		
Lab	Other	
79	11.83	-2.335
61	11.76	-1.263
24	11.75	-1.110
79	11.75	-1.110
Std Dev	11.74	-1.000
275	11.74	-0.957
61	11.72	-0.574
23	11.71	-0.421
23	11.71	-0.421
81	11.68	-0.038
Median	11.68	0.000
32	11.68	0.038
23	11.67	0.115
23	11.67	0.115
38	11.65	0.421
34	11.65	0.498
24	11.64	0.651
Std Dev	11.61	1.000
55	11.60	1.187
237	11.60	1.195
32	11.60	1.263

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
79	11.83	-2.596
61	11.76	-1.424
24	11.75	-1.256
79	11.75	-1.256
275	11.74	-1.089
Std Dev	11.73	-1.000
61	11.72	-0.670
23	11.71	-0.502
23	11.71	-0.502
81	11.68	-0.084
32	11.68	0.000
Median	11.68	0.000
23	11.67	0.084

23	11.67	0.084
113	11.67	0.168
38	11.65	0.419
34	11.65	0.503
24	11.64	0.670
Std Dev	11.62	1.000
55	11.60	1.256
237	11.60	1.265
32	11.60	1.340

010.60 Total Nitrogen		
Lab	Combustion	
79	11.88	-2.718
66	11.76	-1.812
79	11.75	-1.736
63	11.66	-1.019
Std Dev	11.65	-1.000
140	11.65	-0.944
103	11.59	-0.528
38	11.55	-0.226
Median	11.52	0.000
24	11.49	0.226
29	11.48	0.302
14	11.48	0.340
14	11.48	0.340
24	11.47	0.377
Std Dev	11.39	1.000
110	11.15	2.793
80	10.88	4.832

010.99 Total Nitrogen		
Lab	Other	
23	11.71	-1.340
23	11.71	-1.340
Std Dev	11.70	-1.000
23	11.70	0.000
23	11.70	0.000
Median	11.70	0.000
Std Dev	11.69	1.000
113	11.60	13.400

010.XX Total Nitrogen		
Lab	Total Method	
79	11.88	-1.716

Std Dev	11.76	-1.000
66	11.76	-0.994
79	11.75	-0.933
23	11.71	-0.662
23	11.71	-0.662
23	11.70	-0.602
23	11.70	-0.602
63	11.66	-0.361
140	11.65	-0.301
113	11.60	0.000
Median	11.60	0.000
103	11.59	0.030
38	11.55	0.271
24	11.49	0.632
29	11.48	0.693
14	11.48	0.723
14	11.48	0.723
24	11.47	0.753
Std Dev	11.43	1.000
110	11.15	2.680
80	10.88	4.306

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
82	55.26	-0.023
84	55.25	0.000
Median	55.25	0.000
Std Dev	55.03	1.000
113	54.67	2.657

020.20 Total Phosphate		
Lab	Spectrometric	
275	55.62	-6.321
16	55.44	-4.741
61	55.16	-2.283
82	55.16	-2.283
Std Dev	55.01	-1.000
81	55.00	-0.878
32	54.97	-0.645
32	54.94	-0.307
140	54.93	-0.219
23	54.92	-0.176
23	54.92	-0.176
23	54.90	0.000

23	54.90	0.000
Median	54.90	0.000
24	54.86	0.395
14	54.85	0.483
14	54.85	0.483
237	54.85	0.483
61	54.80	0.878
Std Dev	54.79	1.000
79	54.71	1.668
79	54.66	2.107
24	54.62	2.458
34	54.62	2.502
55	53.61	11.326

020.40 Total Phosphate		
Lab	Automated	
110	56.30	0.000
Median	56.30	0.000

020.XX Total Phosphate		
Lab	Total Method	
110	56.30	-6.033
275	55.62	-3.081
16	55.44	-2.300
82	55.26	-1.497
84	55.25	-1.476
61	55.16	-1.085
82	55.16	-1.085
Std Dev	55.14	-1.000
81	55.00	-0.391
32	54.97	-0.276
32	54.94	-0.109
140	54.93	-0.065
23	54.92	-0.043
23	54.92	-0.043
Median	54.91	0.000
23	54.90	0.043
23	54.90	0.043
24	54.86	0.239
14	54.85	0.282
14	54.85	0.282
237	54.85	0.282
61	54.80	0.477
79	54.71	0.868

Std Dev	54.68	1.000
113	54.67	1.042
79	54.66	1.085
24	54.62	1.259
34	54.62	1.280
55	53.61	5.642

030.10 Insoluble Phosphate		
Lab	Gravimetric Quimociac	
113	0.04	0.000
Median	0.04	0.000

030.20 Insoluble Phosphate		
Lab	Spectrometric	
32	0.05	-1.723
Std Dev	0.04	-1.000
32	0.04	-0.957
23	0.03	-0.191
23	0.03	-0.191
23	0.03	-0.191
23	0.03	-0.191
34	0.03	-0.191
Median	0.03	0.000
24	0.03	0.191
24	0.02	0.574
61	0.02	0.574
Std Dev	0.01	1.000
61	0.01	1.340
79	0.01	1.340
79	0.01	1.340
140	0.01	1.340

040.10 Indirect Available Phosphate		
Lab	Gravimetric Quimociac	
113	54.64	0.000
Median	54.64	0.000

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
16	55.42	-4.606
61	55.14	-2.261
Std Dev	54.99	-1.000
32	54.96	-0.712
140	54.92	-0.377
32	54.90	-0.209
23	54.89	-0.167
23	54.89	-0.167
23	54.87	0.000
23	54.87	0.000
Median	54.87	0.000
24	54.83	0.335
61	54.79	0.670
Std Dev	54.75	1.000
79	54.70	1.424
79	54.65	1.843
24	54.60	2.261
34	54.59	2.387

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
16	0.02	0.000
Median	0.02	0.000

030.XX Insoluble Phosphate		
Lab	Total Method	
32	0.05	-2.275
32	0.04	-1.264
Std Dev	0.04	-1.000
113	0.04	-0.758
23	0.03	-0.253

23	0.03	-0.253
23	0.03	-0.253
23	0.03	-0.253
34	0.03	-0.253
Median	0.03	0.000
24	0.03	0.253
24	0.02	0.758
61	0.02	0.758
16	0.02	0.860
Std Dev	0.02	1.000
61	0.01	1.770
79	0.01	1.770
79	0.01	1.770
140	0.01	1.770

040.10 Indirect Available Phosphate		
Lab	Gravimetric Quimociac	
113	54.64	0.000
Median	54.64	0.000

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
16	55.42	-4.606
61	55.14	-2.261
Std Dev	54.99	-1.000
32	54.96	-0.712
140	54.92	-0.377
32	54.90	-0.209
23	54.89	-0.167
23	54.89	-0.167
23	54.87	0.000
23	54.87	0.000
Median	54.87	0.000
24	54.83	0.335
61	54.79	0.670
Std Dev	54.75	1.000
79	54.70	1.424
79	54.65	1.843
24	54.60	2.261
34	54.59	2.387

040.10 Indirect Available Phosphate		
Lab	Gravimetric Quimociac	
113	54.64	0.000
Median	54.64	0.000

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
16	55.42	-4.606
61	55.14	-2.261
Std Dev	54.99	-1.000
32	54.96	-0.712
140	54.92	-0.377
32	54.90	-0.209
23	54.89	-0.167
23	54.89	-0.167
23	54.87	0.000
23	54.87	0.000
Median	54.87	0.000
24	54.83	0.335
61	54.79	0.670
Std Dev	54.75	1.000
79	54.70	1.424
79	54.65	1.843
24	54.60	2.261
34	54.59	2.387

040.10 Indirect Available Phosphate		
Lab	Gravimetric Quimociac	
113	54.64	0.000
Median	54.64	0.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
16	55.42	-3.468

61	55.14	-1.703
Std Dev	55.03	-1.000
32	54.96	-0.536
140	54.92	-0.284
32	54.90	-0.158
23	54.89	-0.126
23	54.89	-0.126
23	54.87	0.000
23	54.87	0.000
Median	54.87	0.000
24	54.83	0.252
61	54.79	0.504
Std Dev	54.71	1.000
79	54.70	1.072
79	54.65	1.387
113	54.64	1.482
24	54.60	1.703
34	54.59	1.797

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
79	54.50	-1.340
Std Dev	54.46	-1.000
Median	54.36	0.000
Std Dev	54.25	1.000
79	54.21	1.340

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
79	54.50	-1.340
Std Dev	54.46	-1.000
Median	54.36	0.000
Std Dev	54.25	1.000
79	54.21	1.340

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
79	54.50	-1.340
Std Dev	54.46	-1.000
Median	54.36	0.000
Std Dev	54.25	1.000
79	54.21	1.340

041.50 Direct Available Phosphate		
Lab	ICP	
66	54.63	-0.150
80	53.15	0.000
Median	53.15	0.000
Std Dev	43.32	1.000
63	28.28	2.530

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
29	55.76	-1.340
Std Dev	55.48	-1.000
Median	54.67	0.000
Std Dev	53.86	1.000
103	53.59	1.340

041.XX Direct Available Phosphate		
Lab	Total Method	
29	55.76	-1.737
Std Dev	55.10	-1.000
66	54.63	-0.466
79	54.50	-0.326
79	54.21	0.000
Median	54.21	0.000
103	53.59	0.697
Std Dev	53.32	1.000
80	53.15	1.191
63	28.28	29.143

041.XX Direct Available Phosphate		
Lab	Total Method	
29	55.76	-1.737
Std Dev	55.10	-1.000
66	54.63	-0.466
79	54.50	-0.326
79	54.21	0.000
Median	54.21	0.000
103	53.59	0.697
Std Dev	53.32	1.000
80	53.15	1.191
63	28.28	29.143

048.10 Water Soluble Phosphate		
Lab	Gravimetric Quimociac	
82	52.54	-1.340
Std Dev	52.46	-1.000
Median	52.21	0.000
Std Dev	51.96	1.000
113	51.88	1.340

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
82	52.43	-4.829
81	52.30	-4.225
140	51.77	-1.642
32	51.75	-1.545
32	51.71	-1.352
Std Dev	51.63	-1.000
16	51.59	-0.797
14	51.55	-0.604
14	51.55	-0.604
61	51.54	-0.531
23	51.43	0.000
23	51.43	0.000
23	51.43	0.000
23	51.43	0.000
Median	51.43	0.000
24	51.37	0.266
79	51.37	0.266
79	51.34	0.410
61	51.30	0.604
Std Dev	51.22	1.000
34	51.03	1.907

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
82	52.43	-4.829
81	52.30	-4.225
140	51.77	-1.642
32	51.75	-1.545
32	51.71	-1.352
Std Dev	51.63	-1.000
16	51.59	-0.797
14	51.55	-0.604
14	51.55	-0.604
61	51.54	-0.531
23	51.43	0.000
23	51.43	0.000
23	51.43	0.000
23	51.43	0.000
Median	51.43	0.000
24	51.37	0.266
79	51.37	0.266
79	51.34	0.410
61	51.30	0.604
Std Dev	51.22	1.000
34	51.03	1.907

24	51.02	1.980
048.XX Water Soluble Phosphate		
Lab	Total Method	
82	52.54	-3.591
82	52.43	-3.180
81	52.30	-2.734
113	51.88	-1.215
Std Dev	51.81	-1.000
140	51.77	-0.822
32	51.75	-0.750
32	51.71	-0.607
16	51.59	-0.197
14	51.55	-0.054
14	51.55	-0.054
61	51.54	0.000
Median	51.54	0.000
23	51.43	0.393
23	51.43	0.393
23	51.43	0.393
23	51.43	0.393
24	51.37	0.590
79	51.37	0.590
79	51.34	0.697
61	51.30	0.840
Std Dev	51.26	1.000
34	51.03	1.805
24	51.02	1.858
050.50 %K₂O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.28	-0.670
23	0.28	-0.670
Median	0.27	0.000
23	0.27	0.670
23	0.27	0.670
050.99 Soluble Potash		
Lab	%K ₂ O	Other
24	0.28	-1.787
24	0.28	-1.191
Std Dev	0.27	-1.000
61	0.27	0.000
61	0.27	0.000

Median	0.27	0.000
81	0.26	0.596
Std Dev	0.26	1.000
80	0.15	13.698
050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
24	0.28	-1.340
Std Dev	0.28	-1.000
23	0.28	-0.670
23	0.28	-0.670
24	0.28	-0.670
23	0.27	0.000
23	0.27	0.000
Median	0.27	0.000
61	0.27	0.670
61	0.27	0.670
Std Dev	0.26	1.000
81	0.26	1.340
80	0.15	16.080
060.00 Free Water		
Lab	Vacuum Oven	
16	2.17	-3.613
24	1.69	-1.912
24	1.57	-1.465
113	1.54	-1.358
Std Dev	1.43	-1.000
79	1.18	-0.089
79	1.17	-0.054
140	1.17	-0.054
32	1.16	0.000
32	1.16	0.000
Median	1.16	0.000
34	1.10	0.197
23	0.90	0.929
23	0.90	0.929
23	0.89	0.947
23	0.89	0.947
Std Dev	0.88	1.000
61	0.61	1.947
61	0.50	2.358

060.20 Free Water		
Lab	Karl Fisher	
55	1.25	0.000
Median	1.25	0.000
060.99 Free Water		
Lab	Other	
81	1.34	-2.680
Std Dev	1.28	-1.000
14	1.24	0.000
14	1.24	0.000
Median	1.24	0.000
060.XX Free Water		
Lab	Total Method	
16	2.17	-3.535
24	1.69	-1.846
24	1.57	-1.402
113	1.54	-1.296
Std Dev	1.45	-1.000
81	1.34	-0.603
55	1.25	-0.284
14	1.24	-0.248
14	1.24	-0.248
79	1.18	-0.035
79	1.17	0.000
140	1.17	0.000
Median	1.17	0.000
32	1.16	0.053
32	1.16	0.053
34	1.10	0.248
23	0.90	0.976
23	0.90	0.976
23	0.89	0.994
23	0.89	0.994
Std Dev	0.89	1.000
61	0.61	1.988
61	0.50	2.396
101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
84	0.25	-6.533
34	0.09	-1.173
Std Dev	0.08	-1.000

24	0.08	-0.838
32	0.07	-0.503
32	0.07	-0.503
61	0.07	-0.335
61	0.07	-0.335
81	0.07	-0.335
24	0.06	0.000
Median	0.06	0.000
16	0.04	0.536
14	0.03	0.838
14	0.03	0.838
23	0.03	0.838
23	0.03	0.838
23	0.03	0.838
23	0.03	0.838
Std Dev	0.03	1.000
237	0.02	1.039
101.70 Acid Soluble Calcium		
Lab	%CaO	Titrimetric
275	2.51	0.000
Median	2.51	0.000
101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
275	2.51	-82.075
84	0.25	-6.365
34	0.09	-1.005
Std Dev	0.09	-1.000
24	0.08	-0.670
32	0.07	-0.335
32	0.07	-0.335
61	0.07	-0.168
61	0.07	-0.168
81	0.07	-0.168
Median	0.06	0.000
24	0.06	0.168
16	0.04	0.704
Std Dev	0.03	1.000
14	0.03	1.005
14	0.03	1.005
23	0.03	1.005
23	0.03	1.005
23	0.03	1.005

23	0.03	1.005
237	0.02	1.206
121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
34	1.36	-1.506
Std Dev	1.34	-1.000
24	1.34	-0.903
24	1.34	-0.903
32	1.34	-0.903
237	1.33	-0.632
81	1.33	-0.602
84	1.33	-0.602
32	1.32	-0.452
23	1.31	0.000
23	1.31	0.000
Median	1.31	0.000
23	1.30	0.301
23	1.30	0.301
61	1.29	0.602
14	1.28	0.753
14	1.28	0.753
82	1.28	0.753
16	1.28	0.783
Std Dev	1.27	1.000
61	1.26	1.355

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
34	1.36	-1.506
Std Dev	1.34	-1.000
24	1.34	-0.903
24	1.34	-0.903
32	1.34	-0.903
237	1.33	-0.632
81	1.33	-0.602
84	1.33	-0.602
32	1.32	-0.452
23	1.31	0.000
23	1.31	0.000
Median	1.31	0.000
23	1.30	0.301
23	1.30	0.301
61	1.29	0.602

14	1.28	0.753
14	1.28	0.753
82	1.28	0.753
16	1.28	0.783
Std Dev	1.27	1.000
61	1.26	1.355

144.01 Sulfate Sulfur (S)		
Lab		Gravimetric
16	1.54	-2.680
Std Dev	1.48	-1.000
79	1.45	0.000
79	1.45	0.000
Median	1.45	0.000

144.70 Sulfur		
Lab		Spectrometric
16	1.48	0.000
Median	1.48	0.000

144.99 Sulfate Sulfur (S)		
Lab		Other
81	1.59	-3.452
24	1.58	-2.907
24	1.56	-2.089
32	1.55	-1.272
Std Dev	1.54	-1.000
14	1.53	-0.454
14	1.53	-0.454
34	1.53	-0.182
Median	1.52	0.000
23	1.52	0.182
23	1.52	0.182
23	1.52	0.273
23	1.52	0.273
Std Dev	1.50	1.000
32	1.50	1.181
61	1.49	1.999
61	1.48	2.271

144.XX Sulfate Sulfur (S)		
Lab		Total Method
81	1.59	-1.832
24	1.58	-1.558

24	1.56	-1.145
Std Dev	1.55	-1.000
32	1.55	-0.733
16	1.54	-0.596
14	1.53	-0.321
14	1.53	-0.321
34	1.53	-0.183
23	1.52	0.000
23	1.52	0.000
Median	1.52	0.000
23	1.52	0.046
23	1.52	0.046
32	1.50	0.504
61	1.49	0.916
Std Dev	1.48	1.000
16	1.48	1.054
61	1.48	1.054
79	1.45	1.878
79	1.45	1.878

151.30 Total Arsenic		
Lab		ICP
82	3.80	-2.249
Std Dev	3.02	-1.000
237	2.73	-0.542
84	2.70	-0.495
140	2.39	0.000
Median	2.39	0.000
61	2.00	0.622
Std Dev	1.76	1.000
81	1.75	1.021
61	1.00	2.217

151.XX Total Arsenic		
Lab		Total Method
82	3.80	-2.249
Std Dev	3.02	-1.000
237	2.73	-0.542
84	2.70	-0.495
140	2.39	0.000
Median	2.39	0.000
61	2.00	0.622
Std Dev	1.76	1.000
81	1.75	1.021

61	1.00	2.217
181.30 Total Cadmium		
Lab	PPM	ICP
61	19.00	-2.063
61	19.00	-2.063
Std Dev	16.63	-1.000
82	14.75	-0.161
237	14.39	0.000
Median	14.39	0.000
81	13.91	0.215
16	13.85	0.242
84	12.90	0.667

181.XX Total Cadmium		
Lab	PPM	Total Method
61	19.00	-2.063
61	19.00	-2.063
Std Dev	16.63	-1.000
82	14.75	-0.161
237	14.39	0.000
Median	14.39	0.000
81	13.91	0.215
16	13.85	0.242
84	12.90	0.667

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
84	0.77	-4.078
Std Dev	0.70	-1.000
16	0.69	-0.396
14	0.69	-0.350
14	0.69	-0.350
23	0.69	-0.350
23	0.69	-0.350
23	0.69	-0.117
23	0.69	-0.117
32	0.69	-0.117
Median	0.68	0.000
34	0.68	0.117
24	0.67	0.583
24	0.67	0.816
32	0.67	0.816
Std Dev	0.66	1.000

82	0.66	1.049
61	0.65	1.515
61	0.65	1.748
81	0.62	3.146
237	0.61	3.496

190.XX Lab	%Al ₂ O ₃	Aluminum Total Method
84	0.77	-4.078
Std Dev	0.70	-1.000
16	0.69	-0.396
14	0.69	-0.350
14	0.69	-0.350
23	0.69	-0.350
23	0.69	-0.350
23	0.69	-0.117
23	0.69	-0.117
32	0.69	-0.117
Median	0.68	0.000
34	0.68	0.117
24	0.67	0.583
24	0.67	0.816
32	0.67	0.816
Std Dev	0.66	1.000
82	0.66	1.049
61	0.65	1.515
61	0.65	1.748
81	0.62	3.146
237	0.61	3.496

191.30 Lab	Total Chromium ICP
81	288.50
Std Dev	264.75
61	260.00
82	259.50
Median	259.25
61	259.00
Std Dev	253.75
16	250.34
84	245.00

191.XX Lab	PPM	Total Chromium Total Method
81	1.22	1.043
84	0.85	1.146

81	288.50	-5.319
Std Dev	264.75	-1.000
61	260.00	-0.136
82	259.50	-0.045
Median	259.25	0.000
61	259.00	0.045
Std Dev	253.75	1.000
16	250.34	1.620
84	245.00	2.591

202.30 Lab	PPM	Acid Soluble Cobalt ICP
84	245.00	2.591

202.XX Lab	PPM	Acid Soluble Cobalt Total Method
61	4.00	-1.512
61	4.00	-1.512
Std Dev	3.25	-1.000
82	1.90	-0.082
Median	1.78	0.000
237	1.66	0.082
16	1.46	0.220
81	1.26	0.354

221.30 Lab	PPM	Acid Soluble Copper ICP
82	<2	0.000
61	6.00	-0.297
61	6.00	-0.297
16	4.94	0.000
Median	4.94	0.000
Std Dev	1.37	1.000
81	1.22	1.043
84	0.85	1.146

221.XX Lab	PPM	Acid Soluble Copper Total Method
82	<2	0.000
61	6.00	-0.297
61	6.00	-0.297
16	4.94	0.000
Median	4.94	0.000
Std Dev	1.37	1.000
81	1.22	1.043

84	0.85	1.146
241.30 Lab	%Fe ₂ O ₃	Acid Soluble Iron ICP
61	1.49	-65.410
61	1.48	-65.053
84	0.66	-6.093
81	0.60	-2.162
Std Dev	0.58	-1.000
23	0.58	-0.733
23	0.58	-0.733
34	0.58	-0.733
24	0.58	-0.375
16	0.57	-0.054
Median	0.57	0.000
237	0.57	0.054
23	0.57	0.339
23	0.57	0.339
24	0.57	0.339
14	0.56	0.697
14	0.56	0.697
Std Dev	0.56	1.000
82	0.54	2.126
32	0.53	2.841
32	0.53	2.841

241.XX Lab	%Fe ₂ O ₃	Acid Soluble Iron Total Method
61	1.49	-65.410
61	1.48	-65.053
84	0.66	-6.093
81	0.60	-2.162
Std Dev	0.58	-1.000
23	0.58	-0.733
23	0.58	-0.733
34	0.58	-0.733
24	0.58	-0.375
16	0.57	-0.054
Median	0.57	0.000
237	0.57	0.054
23	0.57	0.339
23	0.57	0.339
24	0.57	0.339
14	0.56	0.697

14	0.56	0.697
Std Dev	0.56	1.000
82	0.54	2.126
32	0.53	2.841
32	0.53	2.841

251.30 Lab	PPM	Total Lead ICP
61	3.00	-1.053
61	3.00	-1.053
Std Dev	2.92	-1.000
82	1.35	0.000
Median	1.35	0.000
84	0.90	0.287
81	0.65	0.447

251.XX Lab	PPM	Total Lead Total Method
61	3.00	-1.053
61	3.00	-1.053
Std Dev	2.92	-1.000
82	1.35	0.000
Median	1.35	0.000
84	0.90	0.287
81	0.65	0.447

261.30 Lab	Acid Soluble Manganese ICP
81	78.50
84	68.00
Std Dev	63.91
61	59.00
61	58.50
Median	58.50
16	56.52
237	55.97
82	54.70

261.XX Lab	PPM	Acid Soluble Manganese Total Method
81	78.50	-3.694
84	68.00	-1.755
Std Dev	63.91	-1.000
61	59.00	-0.092

61	58.50	0.000
Median	58.50	0.000
16	56.52	0.366
237	55.97	0.467
82	54.70	0.702

281.00 Total Mercury		
Lab	PPM	Atomic Absorbion
82	3.29	-1.340
Std Dev	2.87	-1.000
Median	1.64	0.000
Std Dev	0.42	1.000
81	0.00	1.340

281.XX Total Mercury		
Lab	PPM	Total Method
82	3.29	-1.340
Std Dev	2.87	-1.000
Median	1.64	0.000
Std Dev	0.42	1.000
81	0.00	1.340

289.30 Total Molybdenum		
Lab	PPM	ICP

289.XX Total Molybdenum		
Lab	PPM	Total Method
237	11.13	-0.962
61	10.00	-0.732
61	9.00	-0.529
Median	6.40	0.000
82	3.80	0.529
81	2.95	0.702
16	2.55	0.783

291.30 Total Nickel		
Lab		ICP

291.XX Total Nickel		
Lab	PPM	Total Method
61	9.00	-2.520
Std Dev	8.40	-1.000
84	8.35	-0.882
81	8.30	-0.756

61	8.00	0.000
Median	8.00	0.000
16	7.82	0.450
237	7.77	0.592
Std Dev	7.60	1.000
82	6.95	2.646

301.30 Total Selenium		
Lab	PPM	ICP
237	38.10	0.000
Median	38.10	0.000

301.XX Total Selenium		
Lab	PPM	Total Method
237	38.10	0.000
Median	38.10	0.000

311.30 Sodium		
Lab	%Na ₂ O	Flame Photometric
237	0.39	0.000
Median	0.39	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other

23	0.44	-1.340
23	0.44	-1.340
23	0.43	-1.072
23	0.43	-1.072
Std Dev	0.43	-1.000
61	0.40	-0.268
24	0.39	0.000
61	0.39	0.000
Median	0.39	0.000
24	0.38	0.268
82	0.38	0.268
81	0.38	0.402
Std Dev	0.35	1.000
84	0.28	2.948

311.XX Sodium		
Lab	%Na ₂ O	Total Method
23	0.44	-1.320
23	0.44	-1.320
23	0.43	-1.052

23	0.43	-1.052
Std Dev	0.43	-1.000
61	0.40	-0.248
237	0.39	-0.020
Median	0.39	0.000
24	0.39	0.020
61	0.39	0.020
24	0.38	0.288
82	0.38	0.288
81	0.38	0.422
Std Dev	0.35	1.000
84	0.28	2.968

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
61	413.00	-0.382
61	412.00	-0.370
82	393.30	-0.134
Median	382.71	0.000
16	372.13	0.134
Std Dev	303.48	1.000
84	277.50	1.328
81	266.00	1.473

321.99 Acid Soluble Zinc		
Lab		Other
63	1.09	0.000
Median	1.09	0.000

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
61	413.00	-0.418
61	412.00	-0.408
82	393.30	-0.217
16	372.13	0.000
Median	372.13	0.000
84	277.50	0.969
Std Dev	274.44	1.000
81	266.00	1.086
63	1.09	3.798

325.10 Fluoride		
Lab	%	Electrode
79	0.35	-4.020

79	0.34	-3.776
32	0.22	-0.853
81	0.22	-0.731
32	0.20	-0.365
23	0.19	-0.122
23	0.19	-0.122
23	0.19	0.000
23	0.19	0.000
Median	0.19	0.000
84	0.18	0.244
24	0.15	0.853
82	0.15	0.853
24	0.15	0.975
16	0.14	1.169
34	0.13	1.340
14	0.11	1.718
14	0.11	1.718

325.99 Fluoride		
Lab	%	Other
61	0.20	-1.340
Median	0.20	0.000
61	0.20	1.340

325.XX Fluoride		
Lab	%	Total Method
79	0.35	-4.211
79	0.34	-3.956
32	0.22	-0.893
81	0.22	-0.766
32	0.20	-0.383
61	0.20	-0.383
61	0.20	-0.255
23	0.19	-0.128
23	0.19	-0.128
23	0.19	0.000
23	0.19	0.000
Median	0.19	0.000
84	0.18	0.255
24	0.15	0.893
82	0.15	0.893
24	0.15	1.021
16	0.14	1.225
34	0.13	1.404

14	0.11	1.799
14	0.11	1.799