

AFPC

Sample

2022-12

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	3	11.48	0.08
Ammoniacal Nitrogen, Other		001.99	14	11.41	0.06
Method Group 001.XX PCT			17	11.43	0.09
TOTAL NITROGEN					
Total Nitrogen, Combustion	993.13	010.60	12	11.50	0.13
Total Nitrogen, Other		010.99	1	11.35	0.00
Method Group 010.XX PCT			13	11.49	0.16
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	2	53.54	0.10
Total Phosphate, Spectrometric	978.02	020.20	21	53.31	0.38
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	54.24	0.00
Total Phosphate, ICP	970.03	020.40	1	57.00	0.00
Method Group 020.XX PCT			25	53.35	0.41
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.25	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.09	0.04
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	3	0.24	0.21
Insoluble Phosphate, Automated	978.01	030.40	1	0.23	0.00
Method Group 030.XX PCT			17	0.10	0.14
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	53.16	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	14	53.11	0.32
Indirect Available Phosphate, Other		040.99	1	52.77	0.00
Method Group 040.XX PCT			16	53.11	0.41
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	53.19	0.03
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	53.00	0.46
Direct Available Phosphate, ICP		041.50	2	53.86	0.35
Direct Available Phosphate, EDTA Extract	993.01	041.60	1	53.66	0.00
Method Group 041.XX PCT			7	53.39	0.42
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	2	48.75	0.29
Water Soluble Phosphate, Spectrometric	970.01	048.20	16	48.19	0.47
Water Soluble Phosphate, Other		048.99	1	47.84	0.00
Method Group 048.XX PCT			19	48.33	0.58
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.12	0.00
Soluble Potash, Other		050.99	7	0.11	0.00
Method Group 050.XX PCT			9	0.11	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	16	1.32	0.37
Free Water, Karl Fisher	972.01	060.20	1	1.70	0.00
Free Water, Other		060.99	2	1.15	0.00
Method Group 060.XX PCT			19	1.31	0.47
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	16	0.67	0.04
Method Group 101.XX PCT			16	0.67	0.04
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	16	1.16	0.03
Method Group 121.XX PCT			16	1.16	0.04
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	1.31	0.05
Sulfur, Other		144.99	12	1.37	0.06
Method Group 144.XX PCT			15	1.36	0.09

TOTAL SULFUR (S)					
Sulfur, Other	145.99	2	0.46	0.0	
Method Group 145.XX PCT		2	0.46	0.0	
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b) 151.02	7	19.8	3.1	
Method Group 151.XX PPM		7	19.8	3.8	
TOTAL CADMIUM					
Total Cadmium, ICP	181.30	7	143.5	1.4	
Method Group 181.XX PPM		7	143.5	1.7	
ALUMINUM AS Al₂O₃					
ICP, %		17	1.72	0.05	
Method Group 190.XX PCT		17	1.72	0.06	
TOTAL CHROMIUM					
Total Chromium, ICP	191.30	7	622	25.6	
Method Group 191.XX PPM		7	622	31.2	
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP	202.30	5	4	1.3	
Method Group 202.XX PPM		5	4	1.6	
ACID SOLUBLE COPPER					
Method Group 221.XX PPM		7	54.5	4.0	
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP	241.30	17	1.07	0.02	
Method Group 241.XX PCT		17	1.07	0.03	
TOTAL LEAD					
Total Lead, ICP	251.30	8	2.3	0.6	
Method Group 251.XX PPM		8	2.3	0.8	
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02a 261.00	1	10660	0.0	
Acid Soluble Manganese, ICP	972.02a 261.30	7	190	5.2	
Method Group 261.XX PPM		8	192	6.6	
TOTAL MERCURY					
Total Mercury, Other	281.99	1	0	0.00	
Method Group 281.XX PPM		1	0.00	0.00	
TOTAL MOLYBDENUM					
Total Molybdenum, ICP	289.30	6	22	1.2	
Method Group 289.XX PPM		6	22	1.4	
TOTAL NICKEL					
Total Nickel, ICP	291.30	6	231.8	5.7	
Total Nickel, icp	291.99	1	242.0	0.0	
Method Group 291.XX PPM		7	232.0	9.3	
SODIUM AS Na₂O					
Sodium, Other	311.99	10	0.11	0.01	
Method Group 311.XX PCT		10	0.11	0.01	
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP	321.30	6	2012.3	101.0	
Method Group 321.XX %		6	2012.3	123.1	
FLUORIDE					
Volumentric	325.10	16	1.60	0.10	
Distilled/Electrode	325.99	2	1.71	0.01	
Method Group 325.XX PCT		18	1.61	0.11	

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	11.58	-1.276
Std Dev	11.55	-1.000
31	11.48	0.000
Median	11.48	0.000
Std Dev	11.40	1.000
113	11.37	1.404

001.99 Ammoniacal Nitrogen		
Lab	Other	
55	11.70	-4.544
79	11.55	-2.214
24	11.48	-1.049
Std Dev	11.47	-1.000
61	11.47	-0.971
79	11.46	-0.816
61	11.46	-0.738
23	11.43	-0.272
Median	11.41	0.000
24	11.39	0.272
23	11.39	0.350
32	11.39	0.350
38	11.38	0.427
81	11.37	0.583
34	11.35	0.893
Std Dev	11.34	1.000
32	11.34	1.126

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
55	11.70	-3.879
31	11.58	-2.116
79	11.55	-1.763
Std Dev	11.50	-1.000
24	11.48	-0.705
31	11.48	-0.705
61	11.47	-0.635
79	11.46	-0.494
61	11.46	-0.423
23	11.43	0.000
Median	11.43	0.000
24	11.39	0.494
23	11.39	0.564

32	11.39	0.564
38	11.38	0.635
81	11.37	0.776
113	11.37	0.846
Std Dev	11.35	1.000
34	11.35	1.058
32	11.34	1.269

010.60 Total Nitrogen		
Lab	Combustion	
79	11.60	-0.798
110	11.60	-0.798
79	11.59	-0.722
38	11.57	-0.570
14	11.51	-0.076
14	11.51	-0.076
Median	11.50	0.000
63	11.49	0.076
66	11.44	0.418
103	11.40	0.722
140	11.40	0.760
Std Dev	11.36	1.000
24	11.21	2.205
24	11.01	3.687

010.99 Total Nitrogen		
Lab	Other	
113	11.35	0.000
Median	11.35	0.000

010.XX Total Nitrogen		
Lab	Total Method	
79	11.60	-0.881
110	11.60	-0.881
79	11.59	-0.804
38	11.57	-0.651
14	11.51	-0.153
14	11.51	-0.153
63	11.49	0.000
Median	11.49	0.000
66	11.44	0.345
103	11.40	0.651
140	11.40	0.689
Std Dev	11.35	1.000

113	11.35	1.072
24	11.21	2.144
24	11.01	3.637

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
82	53.67	-1.340
Std Dev	53.63	-1.000
Median	53.54	0.000
Std Dev	53.44	1.000
113	53.41	1.340

020.20 Total Phosphate		
Lab	Spectrometric	
38	53.79	-1.248
31	53.74	-1.130
16	53.71	-1.054
Std Dev	53.69	-1.000
31	53.60	-0.749
24	53.54	-0.604
55	53.50	-0.499
81	53.44	-0.342
24	53.38	-0.184
140	53.35	-0.105
79	53.32	-0.026
79	53.31	0.000
Median	53.31	0.000
23	53.22	0.250
23	53.16	0.394
14	53.15	0.434
14	53.15	0.434
34	52.99	0.841
61	52.97	0.893
Std Dev	52.93	1.000
32	52.83	1.274
32	52.82	1.287
61	52.78	1.406
275	52.57	1.957

020.30 Total Phosphate		
Lab	Alka. Quimociac	
16	54.24	0.000
Median	54.24	0.000

020.40 Total Phosphate		
Lab	Automated	
110	57.00	0.000
Median	57.00	0.000

020.XX Total Phosphate		
Lab	Total Method	
110	57.00	-10.869
16	54.24	-2.650
38	53.79	-1.295
31	53.74	-1.161
16	53.71	-1.075
Std Dev	53.69	-1.000
82	53.67	-0.938
31	53.60	-0.730
24	53.54	-0.566
55	53.50	-0.447
81	53.44	-0.268
113	53.41	-0.179
24	53.38	-0.089
140	53.35	0.000
Median	53.35	0.000
79	53.32	0.089
79	53.31	0.119
23	53.22	0.402
23	53.16	0.566
14	53.15	0.610
14	53.15	0.610
Std Dev	53.01	1.000
34	52.99	1.072
61	52.97	1.132
32	52.83	1.563
32	52.82	1.578
61	52.78	1.712
275	52.57	2.338

030.10 Insoluble Phosphate		
Lab	Gravimetric Quimociac	
113	0.25	0.000
Median	0.25	0.000

030.20 Insoluble Phosphate		
Lab	Spectrometric	
79	0.23	-3.490

79	0.23	-3.490
61	0.15	-1.496
Std Dev	0.13	-1.000
140	0.13	-0.873
23	0.10	-0.249
32	0.10	-0.125
Median	0.09	0.000
24	0.09	0.125
61	0.09	0.125
32	0.08	0.249
24	0.07	0.499
23	0.06	0.748
Std Dev	0.05	1.000
16	0.02	1.795

030.30		Insoluble Phosphate
Lab		Alka. Quimociac
31	0.62	-1.810
Std Dev	0.45	-1.000
31	0.24	0.000
Median	0.24	0.000
16	0.05	0.870

030.40		Insoluble Phosphate
Lab		Automated
34	0.23	0.000
Median	0.23	0.000

030.XX		Insoluble Phosphate
Lab		Total Method
31	0.62	-4.645
113	0.25	-1.340
31	0.24	-1.206
79	0.23	-1.161
79	0.23	-1.161
34	0.23	-1.117
Std Dev	0.21	-1.000
61	0.15	-0.447
140	0.13	-0.223
23	0.10	0.000
Median	0.10	0.000
32	0.10	0.045
24	0.09	0.134
61	0.09	0.134

32	0.08	0.179
24	0.07	0.268
23	0.06	0.357
16	0.05	0.447
16	0.02	0.733

040.10		Indirect Available Phosphate
Lab		Gravimetric Quimociac
113	53.16	0.000
Median	53.16	0.000

040.20		Indirect Available Phosphate
Lab		Spectrometric
16	53.69	-1.815
24	53.47	-1.130
Std Dev	53.43	-1.000
31	53.36	-0.787
24	53.35	-0.740
140	53.23	-0.366
31	53.12	-0.039
23	53.12	-0.023
Median	53.11	0.000
23	53.10	0.023
79	53.09	0.055
79	53.08	0.086
61	52.82	0.896
Std Dev	52.79	1.000
32	52.75	1.130
32	52.73	1.192
61	52.69	1.301

040.99		Indirect Available Phosphate
Lab		Other
34	52.77	0.000
Median	52.77	0.000

040.XX		Indirect Available Phosphate
Lab		Total Method
16	53.69	-1.744
24	53.47	-1.085
Std Dev	53.44	-1.000
31	53.36	-0.756
24	53.35	-0.711
140	53.23	-0.352

113	53.16	-0.157
31	53.12	-0.037
23	53.12	-0.022
Median	53.11	0.000
23	53.10	0.022
79	53.09	0.052
79	53.08	0.082
61	52.82	0.861
Std Dev	52.77	1.000
34	52.77	1.011
32	52.75	1.085
32	52.73	1.145
61	52.69	1.250

041.10		Direct Available Phosphate
Lab		Gravimetric Quimociac
79	53.22	-1.340
Std Dev	53.21	-1.000
Median	53.19	0.000
Std Dev	53.16	1.000
79	53.15	1.340

041.20		Direct Available Phosphate
Lab		Spectrometric
38	53.63	-1.340
Std Dev	53.47	-1.000
Median	53.00	0.000
Std Dev	52.54	1.000
275	52.38	1.340

041.50		Direct Available Phosphate
Lab		ICP
63	54.33	-1.340
Std Dev	54.21	-1.000
Median	53.86	0.000
Std Dev	53.50	1.000
66	53.39	1.340

041.60		Direct Available Phosphate
Lab		EDTA Extract
103	53.66	0.000
Median	53.66	0.000

041.XX		Direct Available Phosphate
Lab		Total Method
63	54.33	-2.753
Std Dev	53.73	-1.000
103	53.66	-0.805
38	53.63	-0.703
66	53.39	0.000
Median	53.39	0.000
79	53.22	0.483
79	53.15	0.688
Std Dev	53.04	1.000
275	52.38	2.944

048.10		Water Soluble Phosphate
Lab		Gravimetric Quimociac
82	49.14	-1.340
Std Dev	49.04	-1.000
Median	48.75	0.000
Std Dev	48.46	1.000
113	48.36	1.340

048.20		Water Soluble Phosphate
Lab		Spectrometric
31	48.86	-1.423
Std Dev	48.66	-1.000
81	48.58	-0.826
61	48.57	-0.805
24	48.53	-0.709
24	48.51	-0.666
16	48.42	-0.485
61	48.37	-0.368
31	48.33	-0.282
Median	48.19	0.000
23	48.06	0.282
32	47.93	0.559
79	47.91	0.602
23	47.89	0.655
32	47.87	0.687
79	47.87	0.687
Std Dev	47.72	1.000
275	47.19	2.147
140	46.32	3.991

048.99		
Lab	Water Soluble Phosphate	Other
34	47.84	0.000
Median	47.84	0.000

048.XX		
Lab	Water Soluble Phosphate	Total Method
82	49.14	-1.713
31	48.86	-1.125
Std Dev	48.80	-1.000
81	48.58	-0.536
61	48.57	-0.515
24	48.53	-0.420
24	48.51	-0.378
16	48.42	-0.200
61	48.37	-0.084
113	48.36	-0.074
31	48.33	0.000
Median	48.33	0.000

23	48.06	0.557
32	47.93	0.830
79	47.91	0.872
23	47.89	0.925
32	47.87	0.956
79	47.87	0.956
Std Dev	47.85	1.000
34	47.84	1.019
275	47.19	2.396
140	46.32	4.214

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

050.99		
Lab	%K ₂ O	Soluble Potash Other
61	0.12	-2.680
81	0.12	-2.680
Std Dev	0.11	-1.000
24	0.11	0.000

24	0.11	0.000
31	0.11	0.000
31	0.11	0.000
61	0.11	0.000
Median	0.11	0.000

050.XX		
Lab	%K ₂ O	Soluble Potash Total Method
23	0.12	-1.340
61	0.12	-1.340
81	0.12	-1.340
Std Dev	0.12	-1.000
23	0.12	-0.670
24	0.11	0.000
24	0.11	0.000
31	0.11	0.000
31	0.11	0.000
61	0.11	0.000
Median	0.11	0.000

060.00		
Lab	Free Water Vacuum Oven	
24	1.78	-1.236
31	1.75	-1.156
16	1.74	-1.140
24	1.73	-1.089
Std Dev	1.69	-1.000
31	1.63	-0.822
113	1.41	-0.247
34	1.35	-0.087
32	1.33	-0.033
Median	1.32	0.000

140	1.31	0.033
32	1.20	0.327
79	1.16	0.421
79	1.15	0.448
23	1.15	0.461
23	0.96	0.956
Std Dev	0.94	1.000
61	0.88	1.183
61	0.87	1.196

060.20		
Lab	Free Water Karl Fisher	

55	1.70	0.000
Median	1.70	0.000

060.99		
Lab	Free Water Other	
14	1.15	0.000
14	1.15	0.000
Median	1.15	0.000

060.XX		
Lab	Free Water Total Method	
24	1.78	-1.230
31	1.75	-1.152
16	1.74	-1.137
24	1.73	-1.088
55	1.70	-1.023
Std Dev	1.69	-1.000
31	1.63	-0.829
113	1.41	-0.272
34	1.35	-0.117
32	1.33	-0.065
140	1.31	0.000
Median	1.31	0.000
32	1.20	0.285
79	1.16	0.375
79	1.15	0.401
14	1.15	0.414
14	1.15	0.414
23	1.15	0.414
23	0.96	0.893
Std Dev	0.92	1.000
61	0.88	1.113
61	0.87	1.126

101.30		
Lab	%CaO	Acid Soluble Calcium ICP
32	0.79	-3.450
32	0.73	-1.739
61	0.71	-1.026
Std Dev	0.70	-1.000
81	0.70	-0.884
34	0.69	-0.599
82	0.69	-0.599
23	0.68	-0.314

23	0.68	-0.171
Median	0.67	0.000
31	0.66	0.171
31	0.66	0.371
24	0.65	0.542
16	0.65	0.570
61	0.64	0.969
Std Dev	0.63	1.000
24	0.61	1.682
14	0.51	4.533
14	0.51	4.533

101.XX		
Lab	%CaO	Acid Soluble Calcium Total Method
32	0.79	-3.450
32	0.73	-1.739
61	0.71	-1.026
Std Dev	0.70	-1.000
81	0.70	-0.884
34	0.69	-0.599
82	0.69	-0.599
23	0.68	-0.314
23	0.68	-0.171
Median	0.67	0.000
31	0.66	0.171
31	0.66	0.371
24	0.65	0.542
16	0.65	0.570
61	0.64	0.969
Std Dev	0.63	1.000
24	0.61	1.682
14	0.51	4.533
14	0.51	4.533

121.30		
Lab	%MgO	Acid Soluble Magnesium ICP
32	1.20	-1.561
34	1.19	-1.214
24	1.19	-1.041
61	1.19	-1.041
Std Dev	1.18	-1.000
32	1.18	-0.694
23	1.17	-0.347
31	1.16	-0.173

81	1.16	-0.173
Median	1.16	0.000
23	1.15	0.173
24	1.15	0.173
82	1.15	0.173
31	1.14	0.520
16	1.14	0.677
Std Dev	1.13	1.000
61	1.09	2.255
14	0.70	15.785
14	0.70	15.785

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
32	1.20	-1.561
34	1.19	-1.214
24	1.19	-1.041
61	1.19	-1.041
Std Dev	1.18	-1.000
32	1.18	-0.694
23	1.17	-0.347
31	1.16	-0.173
81	1.16	-0.173
Median	1.16	0.000
23	1.15	0.173
24	1.15	0.173
82	1.15	0.173
31	1.14	0.520
16	1.14	0.677
Std Dev	1.13	1.000
61	1.09	2.255
14	0.70	15.785
14	0.70	15.785

144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
16	1.44	-2.481
Std Dev	1.36	-1.000
79	1.31	0.000
Median	1.31	0.000
79	1.30	0.199

144.99 Sulfate Sulfur (S)		
Lab		Other
79	1.30	0.199

61	4.09	-42.542
61	3.93	-40.044
81	1.52	-2.420
Std Dev	1.43	-1.000
24	1.39	-0.390
32	1.38	-0.156
24	1.37	-0.078
Median	1.37	0.000
32	1.36	0.078
23	1.34	0.390
34	1.34	0.390
23	1.33	0.598
Std Dev	1.30	1.000
31	1.26	1.691
31	1.26	1.717

144.XX Sulfate Sulfur (S)		
Lab		Total Method
61	4.09	-38.848
61	3.93	-36.571
81	1.52	-2.277
16	1.44	-1.067
Std Dev	1.43	-1.000
24	1.39	-0.427
32	1.38	-0.213
24	1.37	-0.142
32	1.36	0.000
Median	1.36	0.000
23	1.34	0.285
34	1.34	0.285
23	1.33	0.474
79	1.31	0.712
79	1.30	0.854
Std Dev	1.29	1.000
31	1.26	1.470
31	1.26	1.494

145.99 Total Sulfur (S)		
Lab		Other
14	0.46	0.000
14	0.46	0.000
Median	0.46	0.000

145.XX Total Sulfur (S)		
Lab		Total Method
14	0.46	0.000
14	0.46	0.000
Median	0.46	0.000

151.30 Total Arsenic		
Lab		ICP
140	23.74	-1.274
82	23.38	-1.158
Std Dev	22.89	-1.000
61	20.00	-0.065
81	19.80	0.000
Median	19.80	0.000
61	18.50	0.421
Std Dev	16.71	1.000
31	16.60	1.036
31	16.45	1.085

151.XX Total Arsenic		
Lab		Total Method
140	23.74	-1.274
82	23.38	-1.158
Std Dev	22.89	-1.000
61	20.00	-0.065
81	19.80	0.000
Median	19.80	0.000
61	18.50	0.421
Std Dev	16.71	1.000
31	16.60	1.036
31	16.45	1.085

181.30 Total Cadmium		
Lab	PPM	ICP
31	151.00	-5.376
Std Dev	144.90	-1.000
31	144.00	-0.358
61	144.00	-0.358
81	143.50	0.000
Median	143.50	0.000
61	143.00	0.358
Std Dev	142.10	1.000
275	141.26	1.605
16	136.65	4.910

181.XX Total Cadmium		
Lab	PPM	Total Method
31	151.00	-5.376
Std Dev	144.90	-1.000
31	144.00	-0.358
61	144.00	-0.358
81	143.50	0.000
Median	143.50	0.000
61	143.00	0.358
Std Dev	142.10	1.000
275	141.26	1.605
16	136.65	4.910

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
275	1.93	-4.030
23	1.88	-2.967
23	1.83	-2.010
Std Dev	1.77	-1.000
16	1.77	-0.938
81	1.75	-0.574
34	1.74	-0.383
82	1.74	-0.383
32	1.73	-0.096
31	1.72	0.000
32	1.72	0.000
Median	1.72	0.000
24	1.72	0.096
31	1.72	0.096
24	1.68	0.766
61	1.68	0.766
Std Dev	1.67	1.000
61	1.63	1.819
14	0.92	15.314
14	0.92	15.314

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
275	1.93	-4.030
23	1.88	-2.967
23	1.83	-2.010
Std Dev	1.77	-1.000
16	1.77	-0.938

81	1.75	-0.574
34	1.74	-0.383
82	1.74	-0.383
32	1.73	-0.096
31	1.72	0.000
32	1.72	0.000
Median	1.72	0.000
24	1.72	0.096
31	1.72	0.096
24	1.68	0.766
61	1.68	0.766
Std Dev	1.67	1.000
61	1.63	1.819
14	0.92	15.314
14	0.92	15.314

191.30 Total Chromium		
Lab	PPM	ICP
275	685.41	-2.474
Std Dev	647.63	-1.000
31	636.50	-0.566
31	626.50	-0.176
61	622.00	0.000
Median	622.00	0.000
61	597.50	0.956
16	596.81	0.983
Std Dev	596.37	1.000
81	586.00	1.405

191.XX Total Chromium		
Lab	PPM	Total Method
275	685.41	-2.474
Std Dev	647.63	-1.000
31	636.50	-0.566
31	626.50	-0.176
61	622.00	0.000
Median	622.00	0.000
61	597.50	0.956
16	596.81	0.983
Std Dev	596.37	1.000
81	586.00	1.405

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
81	5.25	-0.967
82	4.28	-0.237
16	3.97	0.000
Median	3.97	0.000
Std Dev	2.64	1.000
61	2.50	1.103
61	1.00	2.232

221.30 Acid Soluble Copper		
Lab	PPM	ICP
16	58.76	-1.301
Std Dev	57.77	-1.000
31	57.30	-0.856
31	56.60	-0.642
61	54.50	0.000
61	54.50	0.000
Median	54.50	0.000
Std Dev	51.23	1.000
275	50.64	1.181
81	35.00	5.964

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
16	58.76	-1.301
Std Dev	57.77	-1.000
31	57.30	-0.856
31	56.60	-0.642
61	54.50	0.000
61	54.50	0.000
Median	54.50	0.000
Std Dev	51.23	1.000
275	50.64	1.181
81	35.00	5.964

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
81	1.22	-6.391
275	1.16	-3.958
23	1.09	-1.031
Std Dev	1.09	-1.000
23	1.08	-0.618

34	1.08	-0.618
24	1.08	-0.412
32	1.08	-0.412
32	1.07	-0.206
24	1.07	0.000
Median	1.07	0.000
82	1.06	0.206
31	1.05	0.618
61	1.05	0.618
16	1.05	0.722
Std Dev	1.04	1.000
31	1.04	1.237
61	1.00	2.680
14	0.72	14.225
14	0.72	14.225

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
81	1.22	-6.391
275	1.16	-3.958
23	1.09	-1.031
Std Dev	1.09	-1.000
23	1.08	-0.618
34	1.08	-0.618
24	1.08	-0.412
32	1.08	-0.412
32	1.07	-0.206
24	1.07	0.000
Median	1.07	0.000
82	1.06	0.206
31	1.05	0.618
61	1.05	0.618
16	1.05	0.722
Std Dev	1.04	1.000
31	1.04	1.237
61	1.00	2.680
14	0.72	14.225
14	0.72	14.225

251.30 Total Lead		
Lab	PPM	ICP
31	4.45	-3.315
31	3.80	-2.290
Std Dev	2.98	-1.000

82	2.40	-0.083
275	2.37	-0.035
Median	2.35	0.000
16	2.33	0.035
81	2.20	0.233
Std Dev	1.71	1.000
61	1.00	2.124
61	1.00	2.124

251.XX Total Lead		
Lab	PPM	Total Method
31	4.45	-3.315
31	3.80	-2.290
Std Dev	2.98	-1.000
82	2.40	-0.083
275	2.37	-0.035
Median	2.35	0.000
16	2.33	0.035
81	2.20	0.233
Std Dev	1.71	1.000
61	1.00	2.124
61	1.00	2.124

261.00 Acid Soluble Manganese		
Lab	Atomic Absorption	
275	10660.00	0.000
Median	10660.00	0.000

261.30 Acid Soluble Manganese		
Lab	ICP	
81	195.00	-0.954
31	194.50	-0.858
31	193.00	-0.572
82	190.00	0.000
Median	190.00	0.000
61	188.00	0.381
16	185.45	0.868
Std Dev	184.76	1.000
61	183.50	1.240

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
275	10660.00	-1931.471
Std Dev	196.92	-1.000

81	195.00	-0.646
31	194.50	-0.554
31	193.00	-0.277
Median	191.50	0.000
82	190.00	0.277
61	188.00	0.646
Std Dev	186.08	1.000
16	185.45	1.116
61	183.50	1.476

281.99 Total Mercury		
Lab	PPM	Other
275	0.00	0.000
Median	0.00	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
275	0.00	0.000
Median	0.00	0.000

289.30 Total Molybdenum		
Lab	PPM	ICP

289.XX Total Molybdenum		
Lab	PPM	Total Method
31	23.50	-1.081
61	23.50	-1.081
Std Dev	23.41	-1.000
81	22.50	-0.216
Median	22.25	0.000
61	22.00	0.216
31	21.60	0.562
Std Dev	21.09	1.000
16	17.71	3.929

291.30 Total Nickel	
Lab	ICP
31	

291.99 Total Nickel		
Lab	PPM	Other
31	242.00	0.000
Median	242.00	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
31	249.50	-2.295
31	242.00	-1.311
61	240.00	-1.049
Std Dev	239.63	-1.000
16	232.00	0.000
Median	232.00	0.000
81	231.50	0.066
275	230.06	0.254
61	230.00	0.262

311.99 Sodium		
Lab	%Na ₂ O	Other
23	0.12	-0.993
31	0.12	-0.993
31	0.12	-0.993
23	0.11	0.000
61	0.11	0.000
61	0.11	0.000
81	0.11	0.000
Median	0.11	0.000
82	0.11	0.794
Std Dev	0.10	1.000
24	0.10	1.985
24	0.10	1.985

311.XX Sodium		
Lab	%Na ₂ O	Total Method
23	0.12	-0.993
31	0.12	-0.993
31	0.12	-0.993
23	0.11	0.000
61	0.11	0.000
61	0.11	0.000
81	0.11	0.000
Median	0.11	0.000
82	0.11	0.794
Std Dev	0.10	1.000
24	0.10	1.985
24	0.10	1.985

321.30 Acid Soluble Zinc		
Lab	PPM	ICP

81	2236.00	-2.215
Std Dev	2113.28	-1.000
31	2085.00	-0.720
31	2067.00	-0.542
Median	2012.25	0.000
61	1957.50	0.542
61	1941.00	0.705
Std Dev	1911.22	1.000
16	1810.60	1.996

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
81	2236.00	-2.215
Std Dev	2113.28	-1.000
31	2085.00	-0.720
31	2067.00	-0.542
Median	2012.25	0.000
61	1957.50	0.542
61	1941.00	0.705
Std Dev	1911.22	1.000
16	1810.60	1.996

325.10 Fluoride		
Lab	%	Electrode
16	1.67	-0.696
81	1.65	-0.490
31	1.65	-0.438
23	1.64	-0.387
23	1.63	-0.232
82	1.62	-0.129
24	1.61	-0.026
24	1.61	-0.026
Median	1.60	0.000
31	1.60	0.026
79	1.60	0.026
79	1.59	0.129
34	1.50	1.057
32	1.50	1.108
32	1.44	1.727
14	1.26	3.566
14	1.26	3.566

325.99 Fluoride		
Lab	%	Other

61	1.72	-1.340
Median	1.71	0.000
61	1.70	1.340

325.XX Fluoride		
Lab	%	Total Method
61	1.72	-1.216
61	1.70	-1.050
16	1.67	-0.718
81	1.65	-0.497
31	1.65	-0.442
23	1.64	-0.387
23	1.63	-0.221
82	1.62	-0.111
24	1.61	0.000
24	1.61	0.000
Median	1.61	0.000
31	1.60	0.055
79	1.60	0.055
79	1.59	0.166
34	1.50	1.160
32	1.50	1.216
32	1.44	1.879
14	1.26	3.851
14	1.26	3.851