

AFPC

Sample

2023-06

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	16	11.28	0.05
Method Group 001.XX PCT			16	11.28	0.07
TOTAL NITROGEN					
Total Nitrogen, Reduced Iron		010.10	1	11.40	0.00
Total Nitrogen, Combustion	993.13	010.60	10	11.33	0.08
Method Group 010.XX PCT			11	11.34	0.11
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	52.97	0.83
Total Phosphate, Spectrometric	978.02	020.20	20	52.51	0.24
Total Phosphate, ICP	970.03	020.40	2	55.23	1.85
Method Group 020.XX PCT			26	52.53	0.48
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	2	0.17	0.02
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.08	0.06
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	2	0.74	0.09
Insoluble Phosphate, Automated	978.01	030.40	2	0.05	0.01
Method Group 030.XX PCT			17	0.09	0.10
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	2	52.12	0.13
Indirect Available Phosphate, Spectrometric	960.02	040.20	14	52.22	0.24
Indirect Available Phosphate, Other		040.99	1	52.42	0.00
Method Group 040.XX PCT			17	52.24	0.35
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	52.44	0.01
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	51.61	0.00
Direct Available Phosphate, ICP		041.50	2	53.52	0.99
Direct Available Phosphate, EDTA Extract	993.01	041.60	1	52.74	0.00
Method Group 041.XX PCT			6	52.44	0.38
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	2	46.41	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	15	46.86	0.26
Water Soluble Phosphate, Other		048.99	2	47.01	0.27
Method Group 048.XX PCT			19	46.83	0.40
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.14	0.00
Soluble Potash, Other		050.99	8	0.15	0.01
Method Group 050.XX PCT			10	0.15	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	16	1.61	0.36
Free Water, Karl Fisher	972.01	060.20	1	1.85	0.00
Free Water, Other		060.99	2	1.89	0.00
Method Group 060.XX PCT			19	1.63	0.47
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	15	0.49	0.03
Method Group 101.XX PCT			15	0.49	0.03
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	15	0.78	0.02
Method Group 121.XX PCT			15	0.78	0.02
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	7	2.08	0.04
Sulfur, Spectrometric		144.70	1	1.97	0.00
Sulfur, Other		144.99	12	1.96	0.04

Method Group 144.XX PCT		20	1.98	0.08
TOTAL SULFUR (S)				
Sulfur, Other	145.99	2	2.14	0.0
Method Group 145.XX PCT		2	2.14	0.0
TOTAL ARSENIC				
Total Arsenic, ICP	980.02(b) 151.02	8	7.7	1.6
Method Group 151.XX PPM		8	7.7	1.9
WATER SOLUBLE BORON				
Water Soluble Boron, Other	171.99	1	23	0.0
Method Group 171.XX PPM		1	23	0.0
TOTAL CADMIUM				
Total Cadmium, ICP	181.30	9	2.4	1.5
Method Group 181.XX PPM		9	2.4	1.8
ALUMINUM AS Al₂O₃				
ICP, %		15	1.21	0.04
Method Group 190.XX PCT		15	1.21	0.05
TOTAL CHROMIUM				
Total Chromium, ICP	191.30	9	74	6.0
Method Group 191.XX PPM		9	74	7.3
ACID SOLUBLE COBALT				
Acid Soluble Cobalt, ICP	202.30	7	4	1.8
Method Group 202.XX PPM		7	4	2.2
ACID SOLUBLE COPPER				
Method Group 221.XX PPM		5	2.2	0.3
ACID SOLUBLE IRON AS Fe₂O₃				
Acid Soluble Iron, ICP	241.30	15	1.88	0.04
Method Group 241.XX PCT		15	1.88	0.05
TOTAL LEAD				
Total Lead, ICP	251.30	5	0.9	0.6
Method Group 251.XX PPM		5	0.9	0.7
ACID SOLUBLE MANGANESE				
Acid Soluble Manganese, ICP	972.02a 261.30	7	540	6.6
Method Group 261.XX PPM		7	540	8.1
TOTAL MERCURY				
Total Mercury, ICP	281.30	1	0.00	0.00
Method Group 281.XX PPM		1	0.10	0.00
TOTAL MOLYBDENUM				
Total Molybdenum, ICP	289.30	7	23	1.8
Method Group 289.XX PPM		7	23	2.2
TOTAL NICKEL				
Total Nickel, ICP	291.30	8	12.9	2.8
Total Nickel, icp	291.99	1	14.0	0.0
Method Group 291.XX PPM		9	13.0	2.8
TOTAL SELENIUM				
Total Selenium, ICP	301.30	2		0.0
Method Group 301.XX PPM		2	0.0	0.0
SODIUM AS Na₂O				
Sodium, Other	311.99	9	0.20	0.01
Method Group 311.XX PCT		9	0.20	0.01
ACID SOLUBLE ZINC				
Acid Soluble Zinc, ICP	321.30	9	72.5	9.7
Method Group 321.XX %		9	72.5	11.8
FLUORIDE				
Volumetric	325.10	15	0.91	0.03
Distilled/Electrode	325.99	2	0.95	0.02
Method Group 325.XX PCT		17	0.91	0.03

001.99 Ammoniacal Nitrogen		
Lab		Other
79	11.37	-1.663
31	11.34	-1.109
61	11.34	-1.109
Std Dev	11.33	-1.000
31	11.33	-0.832
79	11.31	-0.554
61	11.31	-0.462
32	11.30	-0.370
32	11.28	0.000
Median	11.28	0.000
23	11.28	0.000
38	11.28	0.092
23	11.26	0.370
24	11.25	0.647
34	11.23	0.924
Std Dev	11.23	1.000
24	11.22	1.109
113	11.18	1.784
81	11.15	2.403

001.XX Ammoniacal Nitrogen		
Lab		Total Method
79	11.37	-1.663
31	11.34	-1.109
61	11.34	-1.109
Std Dev	11.33	-1.000
31	11.33	-0.832
79	11.31	-0.554
61	11.31	-0.462
32	11.30	-0.370
32	11.28	0.000
Median	11.28	0.000
23	11.28	0.000
38	11.28	0.092
23	11.26	0.370
24	11.25	0.647
34	11.23	0.924
Std Dev	11.23	1.000
24	11.22	1.109
113	11.18	1.784
81	11.15	2.403

010.10 Total Nitrogen		
Lab		Reduced Iron
55	11.40	0.000
Median	11.40	0.000

010.60 Total Nitrogen		
Lab		Combustion
79	11.53	-2.469
79	11.45	-1.506
Std Dev	11.41	-1.000
14	11.36	-0.361
14	11.36	-0.361
38	11.34	-0.181
Median	11.33	0.000
63	11.31	0.181
103	11.27	0.662
Std Dev	11.24	1.000
140	11.24	1.084
110	10.85	5.721
80	10.60	8.733

010.XX Total Nitrogen		
Lab		Total Method
79	11.53	-2.037
79	11.45	-1.179
Std Dev	11.43	-1.000
55	11.40	-0.643
14	11.36	-0.161
14	11.36	-0.161
38	11.34	0.000
Median	11.34	0.000
63	11.31	0.322
103	11.27	0.750
Std Dev	11.25	1.000
140	11.24	1.126
110	10.85	5.253
80	10.60	7.933

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
241	53.53	-0.684
241	53.47	-0.606
Median	52.97	0.000
113	52.47	0.606

Std Dev	52.14	1.000
113	52.11	1.042

020.20 Total Phosphate		
Lab		Spectrometric
38	54.14	-6.721
55	53.42	-3.773
79	53.00	-2.041
79	52.89	-1.587
Std Dev	52.75	-1.000
31	52.66	-0.618
81	52.65	-0.577
31	52.59	-0.350
140	52.54	-0.144
61	52.53	-0.103
61	52.53	-0.082
Median	52.51	0.000
34	52.49	0.082
24	52.38	0.515
23	52.37	0.557
14	52.33	0.722
14	52.33	0.722
24	52.30	0.845
32	52.27	0.990
Std Dev	52.26	1.000
32	52.23	1.154
23	52.20	1.278
16	51.92	2.404

020.40 Total Phosphate		
Lab		Automated
110	57.70	-1.340
Std Dev	57.07	-1.000
Median	55.23	0.000
Std Dev	53.38	1.000
16	52.76	1.340

020.40 Total Phosphate		
Lab		Automated
110	57.70	-1.340
Std Dev	57.07	-1.000
Median	55.23	0.000
Std Dev	53.38	1.000
16	52.76	1.340

020.XX Total Phosphate		
Lab		Total Method
110	57.70	-13.171
38	54.14	-4.093
241	53.53	-2.553
241	53.47	-2.387
55	53.42	-2.273

79	53.00	-1.203
Std Dev	52.92	-1.000
79	52.89	-0.923
16	52.76	-0.579
31	52.66	-0.325
81	52.65	-0.299
31	52.59	-0.159
140	52.54	-0.032
61	52.53	-0.006
Median	52.53	0.000
61	52.53	0.006
34	52.49	0.108
113	52.47	0.159
24	52.38	0.376
23	52.37	0.401
14	52.33	0.503
14	52.33	0.503
24	52.30	0.579
32	52.27	0.668
32	52.23	0.770
23	52.20	0.847
Std Dev	52.13	1.000
113	52.11	1.076
16	51.92	1.542

030.10 Insoluble Phosphate		
Lab		Gravimetric Quimociac
113	0.20	-1.340
Std Dev	0.19	-1.000
Median	0.17	0.000
Std Dev	0.14	1.000
113	0.14	1.340

030.20 Insoluble Phosphate		
Lab		Spectrometric
23	0.19	-1.655
61	0.18	-1.576
23	0.17	-1.419
Std Dev	0.14	-1.000
140	0.13	-0.709
79	0.09	-0.158
32	0.08	0.000
Median	0.08	0.000
79	0.07	0.158

24	0.07	0.236
32	0.06	0.315
24	0.06	0.394
61	0.05	0.552

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
31	0.85	-1.340
Std Dev	0.82	-1.000
Median	0.74	0.000
Std Dev	0.65	1.000
31	0.62	1.340

030.40 Insoluble Phosphate		
Lab	Automated	
34	0.07	-1.340
Std Dev	0.06	-1.000
Median	0.05	0.000
Std Dev	0.04	1.000
16	0.03	1.340

030.XX Insoluble Phosphate		
Lab	Total Method	
31	0.85	-8.856
31	0.62	-6.176
113	0.20	-1.282
23	0.19	-1.107
61	0.18	-1.049
Std Dev	0.18	-1.000
23	0.17	-0.932
113	0.14	-0.524
140	0.13	-0.408
79	0.09	0.000
Median	0.09	0.000
32	0.08	0.117
79	0.07	0.233
24	0.07	0.291
34	0.07	0.291
32	0.06	0.350
24	0.06	0.408
61	0.05	0.524
16	0.03	0.682

040.10 Indirect Available Phosphate		
Lab	Gravimetric Quimociac	
113	52.29	-1.340
Std Dev	52.25	-1.000
Median	52.12	0.000
Std Dev	51.98	1.000
113	51.94	1.340

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
79	52.92	-2.874
79	52.82	-2.465
61	52.48	-1.074
Std Dev	52.46	-1.000
140	52.42	-0.808
61	52.34	-0.481
24	52.33	-0.440
24	52.24	-0.072
Median	52.22	0.000
23	52.20	0.072
32	52.19	0.133
32	52.17	0.215
31	52.04	0.747
23	52.01	0.849
Std Dev	51.97	1.000
16	51.89	1.340
31	51.74	1.954

040.99 Indirect Available Phosphate		
Lab	Other	
34	52.42	0.000
Median	52.42	0.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
79	52.92	-2.416
79	52.82	-2.063
Std Dev	52.52	-1.000
61	52.48	-0.864
34	52.42	-0.635
140	52.42	-0.635
61	52.34	-0.353
24	52.33	-0.317
113	52.29	-0.194

24	52.24	0.000
Median	52.24	0.000
23	52.20	0.123
32	52.19	0.176
32	52.17	0.247
31	52.04	0.705
23	52.01	0.793
Std Dev	51.95	1.000
113	51.94	1.040
16	51.89	1.217
31	51.74	1.746

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
79	52.45	-1.340
Std Dev	52.45	-1.000
Median	52.44	0.000
Std Dev	52.43	1.000
79	52.43	1.340

041.20 Direct Available Phosphate		
Lab	Spectrometric	
38	51.61	0.000
Median	51.61	0.000

041.50 Direct Available Phosphate		
Lab	ICP	
80	54.85	-1.340
Std Dev	54.51	-1.000
Median	53.52	0.000
Std Dev	52.53	1.000
63	52.20	1.340

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
103	52.74	0.000
Median	52.74	0.000

041.XX Direct Available Phosphate		
Lab	Total Method	
80	54.85	-7.805
Std Dev	52.75	-1.000
103	52.74	-0.972
79	52.45	-0.032

Median	52.44	0.000
79	52.43	0.032
63	52.20	0.793
Std Dev	52.13	1.000
38	51.61	2.688

048.10 Water Soluble Phosphate		
Lab	Gravimetric Quimociac	
113	46.48	-1.340
Std Dev	46.46	-1.000
Median	46.41	0.000
Std Dev	46.35	1.000
113	46.34	1.340

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
61	47.13	-1.076
Std Dev	47.11	-1.000
31	47.09	-0.919
81	47.02	-0.626
31	47.01	-0.587
32	46.96	-0.411
140	46.95	-0.372
24	46.86	-0.020
24	46.86	0.000
Median	46.86	0.000
61	46.83	0.117
32	46.77	0.333
23	46.69	0.665
Std Dev	46.60	1.000
23	46.60	1.017
16	46.49	1.434
79	46.29	2.211
79	46.24	2.406

048.99 Water Soluble Phosphate		
Lab	Other	
16	47.38	-1.340
Std Dev	47.28	-1.000
Median	47.01	0.000
Std Dev	46.74	1.000
34	46.65	1.340

048.XX Water Soluble Phosphate		
Lab	Total Method	
16	47.38	-1.672
Std Dev	47.15	-1.000
61	47.13	-0.927
31	47.09	-0.806
81	47.02	-0.578
31	47.01	-0.547
32	46.96	-0.410
140	46.95	-0.380
24	46.86	-0.106
24	46.86	-0.091
61	46.83	0.000
Median	46.83	0.000
32	46.77	0.167
23	46.69	0.426
34	46.65	0.532
23	46.60	0.699
Std Dev	46.50	1.000
16	46.49	1.023
113	46.48	1.049
113	46.34	1.490
79	46.29	1.627
79	46.24	1.779

050.50 %K ₂ O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.15	-1.340
Std Dev	0.14	-1.000
Median	0.14	0.000
Std Dev	0.14	1.000
23	0.14	1.340

050.99 Soluble Potash		
Lab	%K ₂ O	Other
80	0.20	-7.370
Std Dev	0.15	-1.000
31	0.15	-0.670
61	0.15	-0.670
31	0.15	0.000
61	0.15	0.000
Median	0.15	0.000
24	0.14	0.670
81	0.14	0.670

Std Dev	0.14	1.000
24	0.14	1.340

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
80	0.20	-8.423
Std Dev	0.15	-1.000
31	0.15	-0.766
61	0.15	-0.766
23	0.15	0.000
31	0.15	0.000
61	0.15	0.000
Median	0.15	0.000
23	0.14	0.766
24	0.14	0.766
81	0.14	0.766
Std Dev	0.14	1.000
24	0.14	1.531

060.00 Free Water		
Lab	Vacuum Oven	
16	2.55	-2.611
24	2.06	-1.243
Std Dev	1.97	-1.000
31	1.94	-0.923
113	1.91	-0.840
31	1.83	-0.618
24	1.75	-0.396
34	1.63	-0.049
140	1.62	-0.021
Median	1.61	0.000
32	1.60	0.021
32	1.60	0.035
23	1.39	0.618
23	1.37	0.660
79	1.36	0.687
79	1.25	0.993
Std Dev	1.25	1.000
61	0.93	1.882
61	0.84	2.145

060.20 Free Water		
Lab	Karl Fisher	
55	1.85	0.000

Median	1.85	0.000
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060.99 Free Water		
Lab	Other	
14	1.89	0.000
14	1.89	0.000
Median	1.89	0.000

060.XX Free Water		
Lab	Total Method	
16	2.55	-2.412
24	2.06	-1.124
Std Dev	2.01	-1.000
31	1.94	-0.824
113	1.91	-0.745
14	1.89	-0.693
14	1.89	-0.693
55	1.85	-0.588
31	1.83	-0.536
24	1.75	-0.327
34	1.63	0.000
Median	1.63	0.000
140	1.62	0.026
32	1.60	0.065
32	1.60	0.078
23	1.39	0.628
23	1.37	0.667
79	1.36	0.693
79	1.25	0.980
Std Dev	1.24	1.000
61	0.93	1.817
61	0.84	2.066

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
24	0.52	-0.964
31	0.51	-0.578
32	0.51	-0.578
32	0.51	-0.578
61	0.50	-0.386
14	0.50	-0.193
14	0.50	-0.193
24	0.49	0.000
Median	0.49	0.000

61	0.48	0.386
34	0.48	0.578
23	0.47	0.771
31	0.47	0.945
23	0.47	0.964
81	0.47	0.964
Std Dev	0.46	1.000
16	0.45	1.581

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
24	0.52	-0.964
31	0.51	-0.578
32	0.51	-0.578
32	0.51	-0.578
61	0.50	-0.386
14	0.50	-0.193
14	0.50	-0.193
24	0.49	0.000
Median	0.49	0.000
61	0.48	0.386
34	0.48	0.578
23	0.47	0.771
31	0.47	0.945
23	0.47	0.964
81	0.47	0.964
Std Dev	0.46	1.000
16	0.45	1.581

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
14	0.81	-1.327
14	0.81	-1.327
24	0.81	-1.327
32	0.81	-1.327
Std Dev	0.80	-1.000
16	0.80	-0.823
34	0.80	-0.796
32	0.80	-0.796
23	0.78	0.000
24	0.78	0.000
61	0.78	0.000
61	0.78	0.000
Median	0.78	0.000

23	0.77	0.531
31	0.77	0.796
31	0.77	0.796
Std Dev	0.76	1.000
81	0.74	2.388

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
14	0.81	-1.327
14	0.81	-1.327
24	0.81	-1.327
32	0.81	-1.327
Std Dev	0.80	-1.000
16	0.80	-0.823
34	0.80	-0.796
32	0.80	-0.796
23	0.78	0.000
24	0.78	0.000
61	0.78	0.000
61	0.78	0.000
Median	0.78	0.000
23	0.77	0.531
31	0.77	0.796
31	0.77	0.796
Std Dev	0.76	1.000
81	0.74	2.388

144..01 Sulfate Sulfur (S)		
Lab		Gravimetric
16	2.14	-1.600
Std Dev	2.12	-1.000
241	2.09	-0.196
113	2.09	-0.070
113	2.08	0.000
Median	2.08	0.000
241	2.06	0.645
Std Dev	2.05	1.000
79	2.02	1.768
79	1.97	3.171

144.70 Sulfur		
Lab		Spectrometric
16	1.97	0.000
Median	1.97	0.000

144.99 Sulfate Sulfur (S)		
Lab		Other
24	2.04	-1.846
81	2.02	-1.370
24	2.01	-1.012
Std Dev	2.00	-1.000
23	1.99	-0.615
61	1.97	-0.179
32	1.97	-0.060
Median	1.96	0.000
34	1.96	0.060
32	1.96	0.179
23	1.94	0.536
61	1.93	0.893
Std Dev	1.92	1.000
31	1.89	1.846
31	1.85	2.680

144.XX Sulfate Sulfur (S)		
Lab		Total Method
16	2.14	-2.499
241	2.09	-1.722
113	2.09	-1.652
113	2.08	-1.613
241	2.06	-1.256
Std Dev	2.04	-1.000
24	2.04	-0.945
79	2.02	-0.634
81	2.02	-0.634
24	2.01	-0.401
23	1.99	-0.142
Median	1.98	0.000
61	1.97	0.142
79	1.97	0.142
16	1.97	0.220
32	1.97	0.220
34	1.96	0.298
32	1.96	0.375
23	1.94	0.609
61	1.93	0.842
Std Dev	1.91	1.000
31	1.89	1.463
31	1.85	2.007

145.99 Total Sulfur (S)		
Lab		Other
113	2.15	-1.340
Std Dev	2.15	-1.000
Median	2.14	0.000
Std Dev	2.13	1.000
113	2.13	1.340

145.XX Total Sulfur (S)		
Lab		Total Method
113	2.15	-1.340
Std Dev	2.15	-1.000
Median	2.14	0.000
Std Dev	2.13	1.000
113	2.13	1.340

151.30 Total Arsenic		
Lab		ICP
113	9.98	-1.488
24	9.45	-1.152
Std Dev	9.21	-1.000
113	7.98	-0.208
81	7.80	-0.096
Median	7.65	0.000
61	7.50	0.096
61	6.50	0.736
Std Dev	6.09	1.000
31	5.50	1.376
31	5.20	1.568

151.XX Total Arsenic		
Lab		Total Method
113	9.98	-1.488
24	9.45	-1.152
Std Dev	9.21	-1.000
113	7.98	-0.208
81	7.80	-0.096
Median	7.65	0.000
61	7.50	0.096
61	6.50	0.736
Std Dev	6.09	1.000
31	5.50	1.376
31	5.20	1.568

171.99 Water Soluble Boron		
Lab	PPM	Other
24	23.00	0.000
Median	23.00	0.000

171.XX Water Soluble Boron		
Lab	PPM	Total Method
24	23.00	0.000
Median	23.00	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
81	3.54	-0.789
16	3.36	-0.670
24	3.07	-0.478
113	2.98	-0.415
113	2.35	0.000
Median	2.35	0.000
31	1.20	0.763
31	1.05	0.862
Std Dev	0.84	1.000
61	0.00	1.559
61	0.00	1.559

181.XX Total Cadmium		
Lab	PPM	Total Method
81	3.54	-0.789
16	3.36	-0.670
24	3.07	-0.478
113	2.98	-0.415
113	2.35	0.000
Median	2.35	0.000
31	1.20	0.763
31	1.05	0.862
Std Dev	0.84	1.000
61	0.00	1.559
61	0.00	1.559

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
14	1.36	-3.379
14	1.36	-3.379
16	1.32	-2.505

81	1.27	-1.398
Std Dev	1.25	-1.000
31	1.25	-0.816
34	1.22	-0.117
23	1.21	0.000
24	1.21	0.000
Median	1.21	0.000
23	1.20	0.233
24	1.20	0.233
31	1.20	0.233
32	1.20	0.233
32	1.20	0.233
61	1.19	0.583
61	1.18	0.699

190.XX	%Al ₂ O ₃	Aluminum
Lab		Total Method

14	1.36	-3.379
14	1.36	-3.379
16	1.32	-2.505
81	1.27	-1.398
Std Dev	1.25	-1.000

31	1.25	-0.816
34	1.22	-0.117
23	1.21	0.000
24	1.21	0.000
Median	1.21	0.000
23	1.20	0.233
24	1.20	0.233
31	1.20	0.233
32	1.20	0.233
32	1.20	0.233
61	1.19	0.583
61	1.18	0.699

191.30	Total Chromium
Lab	ICP

61	92.00	-2.955
61	92.00	-2.955
81	80.75	-1.082
Std Dev	80.26	-1.000
16	80.10	-0.973
24	74.25	0.000
Median	74.25	0.000

31	73.90	0.058
31	72.70	0.258
Std Dev	68.24	1.000
113	66.65	1.265
113	64.60	1.606

191.XX	Total Chromium	
Lab	PPM	Total Method

61	92.00	-2.955
61	92.00	-2.955
81	80.75	-1.082
Std Dev	80.26	-1.000
16	80.10	-0.973
24	74.25	0.000
Median	74.25	0.000

31	73.90	0.058
31	72.70	0.258
Std Dev	68.24	1.000
113	66.65	1.265
113	64.60	1.606

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP

81	7.20	-1.758
16	6.34	-1.272
Std Dev	5.86	-1.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method

31	4.26	-0.096
31	4.09	0.000
Median	4.09	0.000
24	3.85	0.135
Std Dev	2.31	1.000
61	2.00	1.177
61	1.00	1.741

221.30	Acid Soluble Copper	
Lab	PPM	ICP

16	4.95	-11.146
Std Dev	2.45	-1.000
24	2.33	-0.528
81	2.20	0.000
Median	2.20	0.000

61	2.00	0.812
61	2.00	0.812

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method

16	4.95	-11.146
Std Dev	2.45	-1.000
24	2.33	-0.528
81	2.20	0.000
Median	2.20	0.000
61	2.00	0.812
61	2.00	0.812

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP

24	1.92	-0.975
16	1.91	-0.828
24	1.90	-0.487
32	1.90	-0.365
34	1.89	-0.244
81	1.89	-0.122
14	1.88	0.000
14	1.88	0.000
Median	1.88	0.000
23	1.88	0.122
23	1.87	0.244
61	1.85	0.853
Std Dev	1.84	1.000
31	1.83	1.218
32	1.83	1.218
31	1.80	1.949
61	1.70	4.507

241.XX	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Total Method

24	1.92	-0.975
16	1.91	-0.828
24	1.90	-0.487
32	1.90	-0.365
34	1.89	-0.244
81	1.89	-0.122
14	1.88	0.000
14	1.88	0.000
Median	1.88	0.000

23	1.88	0.122
23	1.87	0.244
61	1.85	0.853
Std Dev	1.84	1.000
31	1.83	1.218
32	1.83	1.218
31	1.80	1.949
61	1.70	4.507

251.30	Total Lead	
Lab	PPM	ICP

61	<1.5	0.000
61	<1.5	0.000
113	0.91	-0.031
81	0.90	-0.021
113	0.89	0.000
Median	0.89	0.000
Std Dev	0.30	1.000
24	0.12	1.319
16	0.00	1.516

251.XX	Total Lead	
Lab	PPM	Total Method

61	<1.5	0.000
61	<1.5	0.000
113	0.91	-0.031
81	0.90	-0.021
113	0.89	0.000
Median	0.89	0.000
Std Dev	0.30	1.000
24	0.12	1.319
16	0.00	1.516

261.30	Acid Soluble Manganese
Lab	ICP

31	545.50	-0.829
31	543.00	-0.452
81	542.50	-0.377
61	540.00	0.000
Median	540.00	0.000
61	534.50	0.829
Std Dev	533.37	1.000
16	533.23	1.021
24	508.50	4.751

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
31	545.50	-0.829
31	543.00	-0.452
81	542.50	-0.377
61	540.00	0.000
Median	540.00	0.000
61	534.50	0.829
Std Dev	533.37	1.000
16	533.23	1.021
24	508.50	4.751

281.30 Total Mercury		
Lab	PPM	ICP
24	0.10	0.000
Median	0.10	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
24	0.10	0.000
Median	0.10	0.000

289.30 Total Molybdenum		
Lab	PPM	ICP
24	29.25	-3.418
Std Dev	24.83	-1.000
31	24.25	-0.684
31	24.15	-0.629
81	23.00	0.000
Median	23.00	0.000
61	22.00	0.547
61	21.50	0.820
Std Dev	21.17	1.000
16	13.30	5.305

289.XX Total Molybdenum		
Lab	PPM	Total Method
24	29.25	-3.418
Std Dev	24.83	-1.000
31	24.25	-0.684
31	24.15	-0.629
81	23.00	0.000
Median	23.00	0.000
61	22.00	0.547
61	21.50	0.820
Std Dev	21.17	1.000
16	13.30	5.305

291.30 Total Nickel		
Lab	PPM	ICP
16		

291.99 Total Nickel		
Lab	PPM	Other
16		

31	13.95	0.000
Median	13.95	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
16	23.31	-4.457
31	15.55	-1.102
Std Dev	15.31	-1.000
81	15.10	-0.908
31	13.95	-0.411
61	13.00	0.000
Median	13.00	0.000
24	12.75	0.108
61	12.00	0.432
Std Dev	10.69	1.000
113	9.75	1.407
113	8.79	1.822

301.30 Total Selenium		
Lab	PPM	ICP
24	0.00	0.000
113	0.00	0.000
Median	0.00	0.000

301.XX Total Selenium		
Lab	PPM	Total Method
24	0.00	0.000
113	0.00	0.000
Median	0.00	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other
81	0.22	-2.680
31	0.21	-1.340
Std Dev	0.21	-1.000
23	0.20	0.000
23	0.20	0.000
31	0.20	0.000
Median	0.20	0.000
Std Dev	0.19	1.000
24	0.19	1.340
61	0.19	1.340
61	0.19	1.340
24	0.19	2.010

311.99 Sodium		
Lab	%Na ₂ O	Other
81	0.22	-2.680
31	0.21	-1.340
Std Dev	0.21	-1.000
23	0.20	0.000
23	0.20	0.000
31	0.20	0.000
Median	0.20	0.000
Std Dev	0.19	1.000
24	0.19	1.340
61	0.19	1.340
61	0.19	1.340
24	0.19	2.010

311.XX Sodium		
Lab	%Na ₂ O	Total Method
81	0.22	-2.680
31	0.21	-1.340
Std Dev	0.21	-1.000
23	0.20	0.000
23	0.20	0.000
31	0.20	0.000
Median	0.20	0.000
Std Dev	0.19	1.000
24	0.19	1.340
61	0.19	1.340
61	0.19	1.340
24	0.19	2.010

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
31	113.00	-4.174
31	91.90	-2.000
81	82.88	-1.069
Std Dev	82.20	-1.000
24	76.35	-0.397
61	72.50	0.000
Median	72.50	0.000
113	70.15	0.242
16	69.87	0.271
113	68.95	0.366
61	64.50	0.825

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
31	113.00	-4.174
31	91.90	-2.000
81	82.88	-1.069
Std Dev	82.20	-1.000
24	76.35	-0.397
61	72.50	0.000
Median	72.50	0.000
113	70.15	0.242
16	69.87	0.271
113	68.95	0.366
61	64.50	0.825

325.10 Fluoride		
Lab	%	Electrode
79	0.97	-1.936
79	0.97	-1.936
31	0.93	-0.596
24	0.92	-0.298
34	0.92	-0.298
24	0.91	-0.149
16	0.91	-0.060
23	0.91	0.000
Median	0.91	0.000
23	0.90	0.149
31	0.90	0.149
32	0.89	0.447
32	0.85	1.638
14	0.77	3.916
14	0.77	3.916
81	0.58	9.678

325.99 Fluoride		
Lab	%	Other
61	0.99	-1.340
Median	0.95	0.000
61	0.92	1.340

325.XX Fluoride		
Lab	%	Total Method
61	0.99	-3.484
79	0.97	-2.814
79	0.97	-2.814
31	0.93	-0.804
61	0.92	-0.581
24	0.92	-0.357
34	0.92	-0.357
24	0.91	-0.134
16	0.91	0.000
Median	0.91	0.000
23	0.91	0.089
23	0.90	0.313
31	0.90	0.313
32	0.89	0.759
32	0.85	2.546
14	0.77	5.963
14	0.77	5.963

81 0.58 14.606