

AFPC

Sample

2022-06

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	4	10.91	0.05
Ammoniacal Nitrogen, Other		001.99	15	10.96	0.06
Method Group 001.XX PCT			19	10.96	0.05
PERCENT BIURET					
Percent Biuret, Atomic Absorption(as Biuret)	976.01	008.00	1	0.02	0.00
Method Group 008.XX PCT			1	0.02	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.01	0.09
Total Nitrogen, Combustion	993.13	010.60	14	10.99	0.18
Total Nitrogen, Other		010.99	1	10.89	0.00
Method Group 010.XX PCT			18	10.99	0.22
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	4	52.44	0.22
Total Phosphate, Spectrometric	978.02	020.20	23	52.22	0.15
Total Phosphate, ICP	970.03	020.40	1	51.75	0.00
Method Group 020.XX PCT			28	52.24	0.18
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.50	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	14	0.36	0.06
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	2	1.04	0.04
Insoluble Phosphate, Automated	978.01	030.40	1	0.51	0.00
Method Group 030.XX PCT			18	0.37	0.14
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	1	51.81	0.00
Indirect Available Phosphate, Spectrometric	960.02	040.20	16	51.81	0.21
Indirect Available Phosphate, Other		040.99	2	51.73	0.01
Method Group 040.XX PCT			19	51.80	0.21
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	51.27	0.04
Direct Available Phosphate, ICP		041.50	3	51.93	0.51
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	52.67	1.15
Method Group 041.XX PCT			7	51.49	1.03
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	2	46.72	0.01
Water Soluble Phosphate, Spectrometric	970.01	048.20	19	46.67	0.26
Water Soluble Phosphate, Other		048.99	1	46.63	0.00
Method Group 048.XX PCT			22	46.68	0.24
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.18	0.00
Soluble Potash, Other		050.99	8	0.18	0.00
Method Group 050.XX PCT			10	0.18	0.00
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	18	1.65	0.48
Free Water, Karl Fisher	972.01	060.20	1	1.98	0.00
Free Water, Other		060.99	1	2.59	0.00
Method Group 060.XX PCT			20	1.68	0.62
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	17	0.57	0.04
Method Group 101.XX PCT			17	0.57	0.05
ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	17	1.43	0.04
Method Group 121.XX PCT			17	1.43	0.05
SULFATE SULFUR (S)					

AFPC Check Sample 06-2022	Sulfur, Gravimetric	980.02(a)	144.01	5	1.19	0.07
	Sulfur, Other		144.99	13	1.20	0.02
	Method Group 144.XX PCT			18	1.19	0.04
	TOTAL SULFUR (S)					
	Sulfur, Other		145.99	3	1.23	0.0
	Method Group 145.XX PCT			3	1.23	0.0
	TOTAL ARSENIC					
	Total Arsenic, ICP	980.02(b)	151.02	11	15.5	3.1
	Method Group 151.XX PPM			11	15.5	3.8
	ACID SOLUBLE BORON					
	Acid Soluble Boron, Other		165.99	1	41	0.0
	Method Group 165.XX PPM			1	41	0.0
	TOTAL CADMIUM					
	Total Cadmium, ICP		181.30	12	3.7	0.9
	Method Group 181.XX PPM			12	3.7	1.1
	ALUMINUM AS Al₂O₃					
	ICP, %			17	2.01	0.04
	Method Group 190.XX PCT			17	2.01	0.05
	TOTAL CHROMIUM					
	Total Chromium, ICP		191.30	12	92	5.5
	Method Group 191.XX PPM			12	92	6.7
	ACID SOLUBLE COBALT					
	Acid Soluble Cobalt, ICP		202.30	10	3	0.6
	Method Group 202.XX PPM			10	3	0.8
	ACID SOLUBLE COPPER					
	Method Group 221.XX PPM			9	1.0	1.8
	ACID SOLUBLE IRON AS Fe₂O₃					
	Acid Soluble Iron, ICP		241.30	17	1.64	0.04
	Method Group 241.XX PCT			17	1.64	0.05
	TOTAL LEAD					
	Total Lead, ICP		251.30	11	1.8	1.1
	Method Group 251.XX PPM			11	1.8	1.4
	ACID SOLUBLE MANGANESE					
	Acid Soluble Manganese, ICP	972.02a	261.30	8	364	5.4
	Acid Soluble Manganese, ICP	972.02b	261.31	1	361	0.0
	Acid Soluble Manganese, Other		261.99	2	365	1.5
	Method Group 261.XX PPM			11	363	4.4
	TOTAL MERCURY					
	Total Mercury, Atomic Absorbion		281.00	1		0.00
	Total Mercury, ICP		281.30	2	0.00	0.07
	Method Group 281.XX PPM			3	0.00	0.08
	TOTAL MOLYBDENUM					
	Total Molybdenum, ICP		289.30	12	13	0.9
	Method Group 289.XX PPM			12	13	1.1
	TOTAL NICKEL					
	Total Nickel, ICP		291.30	11	14.0	0.8
	Total Nickel, icp		291.99	1	13.5	0.0
	Method Group 291.XX PPM			12	13.9	0.8
	TOTAL SELENIUM					
	Total Selenium, ICP		301.30	3		0.1
	Method Group 301.XX PPM			3	0.0	0.2
	SODIUM AS Na₂O					
	Sodium, Other		311.99	13	0.22	0.01
	Method Group 311.XX PCT			13	0.22	0.02
	ACID SOLUBLE ZINC					
	Acid Soluble Zinc, ICP		321.30	12	87.0	9.5
	Acid Soluble Zinc, Other		321.99	1	1.1	0.0
	Method Group 321.XX %			13	85.4	11.2
	FLUORIDE					

Volumetric	325.10	14	2.22	0.05
Distilled/Electrode	325.99	2	2.40	0.02
Method Group 325.XX PCT		16	2.23	0.08

001.10		Ammoniacal Nitrogen
Lab		MgO distillation
31	10.96	-0.956
31	10.94	-0.578
Median	10.91	0.000
113	10.88	0.578
126	10.86	0.938

001.99		Ammoniacal Nitrogen
Lab		Other
32	11.05	-1.556
79	11.05	-1.556
55	11.02	-1.037
Std Dev	11.02	-1.000
38	11.02	-0.951
79	11.01	-0.865
23	10.98	-0.259
24	10.97	-0.086
32	10.96	0.000
Median	10.96	0.000
34	10.96	0.086
23	10.95	0.173
24	10.94	0.432
61	10.94	0.432
237	10.93	0.519
61	10.92	0.692
Std Dev	10.90	1.000
81	10.82	2.481

001.XX		Ammoniacal Nitrogen
Lab		Total Method
32	11.05	-2.122
79	11.05	-2.122
55	11.02	-1.452
38	11.02	-1.340
79	11.01	-1.228
Std Dev	11.00	-1.000
23	10.98	-0.447
24	10.97	-0.223
31	10.96	-0.112
32	10.96	-0.112
34	10.96	0.000
Median	10.96	0.000
23	10.95	0.112

31	10.94	0.335
24	10.94	0.447
61	10.94	0.447
237	10.93	0.558
61	10.92	0.782
Std Dev	10.91	1.000
113	10.88	1.697
126	10.86	2.122
81	10.82	3.093

008.00		Percent Buret
Lab		Atomic Absorption(as Buret)
81	0.02	0.000
Median	0.02	0.000

008.XX		Percent Buret
Lab		Total Method
81	0.02	0.000
Median	0.02	0.000

010.11		Total Nitrogen
Lab		Modified Comprehensive
126	11.23	-2.305
Std Dev	11.10	-1.000
43	11.01	0.000
Median	11.01	0.000
43	10.98	0.375

010.60		Total Nitrogen
Lab		Combustion
39	11.84	-4.686
80	11.49	-2.763
103	11.19	-1.105
Std Dev	11.17	-1.000
79	11.16	-0.939
79	11.15	-0.884
140	11.05	-0.304
29	11.03	-0.221
Median	10.99	0.000
110	10.95	0.221
237	10.95	0.221
63	10.95	0.249
38	10.91	0.470
Std Dev	10.81	1.000

66	10.80	1.050
24	10.69	1.658
24	10.66	1.824

010.99		Total Nitrogen
Lab		Other
113	10.89	0.000
Median	10.89	0.000

010.XX		Total Nitrogen
Lab		Total Method
39	11.84	-4.672
80	11.49	-2.749
126	11.23	-1.285
103	11.19	-1.091
Std Dev	11.17	-1.000
79	11.16	-0.926
79	11.15	-0.870
140	11.05	-0.290
29	11.03	-0.207
43	11.01	-0.097
Median	10.99	0.000
43	10.98	0.097
110	10.95	0.235
237	10.95	0.235
63	10.95	0.262
38	10.91	0.484
113	10.89	0.566
Std Dev	10.81	1.000
66	10.80	1.064
24	10.69	1.672
24	10.66	1.837

66	10.80	1.050
24	10.69	1.658
24	10.66	1.824

020.10		Total Phosphate
Lab		Gravimetric Quimociac
241	52.66	-1.006
Std Dev	52.66	-1.000
241	52.58	-0.622
Median	52.44	0.000
82	52.30	0.622
113	52.30	0.622

020.20		Total Phosphate
Lab		Spectrometric

31	52.49	-1.814
43	52.45	-1.511
23	52.45	-1.511
Std Dev	52.37	-1.000
23	52.35	-0.840
61	52.33	-0.739
140	52.32	-0.638
16	52.30	-0.564
81	52.28	-0.403
55	52.25	-0.202
126	52.25	-0.168
34	52.24	-0.134
79	52.22	0.000
Median	52.22	0.000
82	52.20	0.134
32	52.20	0.168
43	52.20	0.168
24	52.17	0.336
24	52.13	0.605
79	52.09	0.873
31	52.09	0.907
61	52.08	0.974
Std Dev	52.07	1.000
32	52.02	1.343
237	51.93	1.948
38	51.20	6.851

020.40		Total Phosphate
Lab		Automated
110	51.75	0.000
Median	51.75	0.000

020.XX		Total Phosphate
Lab		Total Method
241	52.66	-2.815
241	52.58	-2.242
31	52.49	-1.669
43	52.45	-1.365
23	52.45	-1.365
Std Dev	52.39	-1.000
23	52.35	-0.691
61	52.33	-0.590
140	52.32	-0.489
16	52.30	-0.415

82	52.30	-0.388
113	52.30	-0.388
81	52.28	-0.253
55	52.25	-0.051
126	52.25	-0.017
Median	52.24	0.000
34	52.24	0.017
79	52.22	0.152
82	52.20	0.287
32	52.20	0.320
43	52.20	0.320
24	52.17	0.489
24	52.13	0.758
Std Dev	52.09	1.000
79	52.09	1.028
31	52.09	1.062
61	52.08	1.129
32	52.02	1.500
237	51.93	2.107
110	51.75	3.321
38	51.20	7.029

030.10 Insoluble Phosphate		
Lab	Gravimetric Quimociac	
113	0.50	0.000
Median	0.50	0.000

030.20 Insoluble Phosphate		
Lab	Spectrometric	
43	0.63	-4.471
126	0.53	-2.810
Std Dev	0.42	-1.000
61	0.41	-0.797
24	0.39	-0.377
24	0.38	-0.210
32	0.37	-0.126
23	0.37	-0.042
Median	0.36	0.000
23	0.36	0.042
61	0.36	0.042
32	0.35	0.294
Std Dev	0.30	1.000
16	0.29	1.241
140	0.23	2.223

79	0.18	3.062
79	0.14	3.733

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
31	1.10	-1.340
Std Dev	1.08	-1.000
Median	1.04	0.000
Std Dev	0.99	1.000
31	0.98	1.340

030.40 Insoluble Phosphate		
Lab	Automated	
34	0.51	0.000
Median	0.51	0.000

030.XX Insoluble Phosphate		
Lab	Total Method	
31	1.10	-6.246
31	0.98	-5.209
43	0.63	-2.217
126	0.53	-1.362
34	0.51	-1.145
113	0.50	-1.102
Std Dev	0.49	-1.000
61	0.41	-0.324
24	0.39	-0.108
24	0.38	-0.022
Median	0.37	0.000
32	0.37	0.022
23	0.37	0.065
23	0.36	0.108
61	0.36	0.108
32	0.35	0.238
16	0.29	0.726
Std Dev	0.26	1.000
140	0.23	1.232
79	0.18	1.664
79	0.14	2.010

040.10 Indirect Available Phosphate		
Lab	Gravimetric Quimociac	
113	51.81	0.000
Median	51.81	0.000

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
23	52.09	-1.298
140	52.09	-1.298
79	52.08	-1.274
Std Dev	52.02	-1.000
16	52.02	-0.989
23	51.98	-0.798
61	51.92	-0.512
79	51.91	-0.465
32	51.83	-0.060
Median	51.81	0.000
43	51.80	0.060
24	51.80	0.083
24	51.75	0.322
61	51.72	0.441
32	51.68	0.655
Std Dev	51.60	1.000
43	51.57	1.179
31	51.52	1.417
31	50.99	3.919

040.99 Indirect Available Phosphate		
Lab	Other	
34	51.74	-1.340
Std Dev	51.73	-1.000
Median	51.73	0.000
Std Dev	51.72	1.000
126	51.72	1.340

040.XX Indirect Available Phosphate		
Lab	Total Method	
23	52.09	-1.643
140	52.09	-1.643
79	52.08	-1.614
16	52.02	-1.268
23	51.98	-1.037
Std Dev	51.97	-1.000
61	51.92	-0.692
79	51.91	-0.634
32	51.83	-0.144
113	51.81	-0.029
43	51.80	0.000

Median	51.80	0.000
24	51.80	0.029
24	51.75	0.317
34	51.74	0.375
61	51.72	0.461
126	51.72	0.490
32	51.68	0.720
Std Dev	51.63	1.000
43	51.57	1.354
31	51.52	1.643
31	50.99	4.668

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
79	51.32	-1.340
Std Dev	51.31	-1.000
Median	51.27	0.000
Std Dev	51.22	1.000
79	51.21	1.340

041.50 Direct Available Phosphate		
Lab	ICP	
63	52.86	-1.829
Std Dev	52.44	-1.000
66	51.93	0.000
Median	51.93	0.000
80	51.49	0.851

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
29	54.22	-1.340
Std Dev	53.83	-1.000
Median	52.67	0.000
Std Dev	51.52	1.000
103	51.13	1.340

041.XX Direct Available Phosphate		
Lab	Total Method	
29	54.22	-3.245
63	52.86	-1.628
Std Dev	52.33	-1.000
66	51.93	-0.517
80	51.49	0.000
Median	51.49	0.000

79	51.32	0.202
79	51.21	0.333
103	51.13	0.434

048.10 Water Soluble Phosphate		
Lab	Gravimetric Quimociac	
113	46.74	-1.340
Std Dev	46.74	-1.000
Median	46.72	0.000
Std Dev	46.71	1.000
82	46.71	1.340

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
126	47.23	-2.156
140	47.15	-1.845
31	46.99	-1.223
Std Dev	46.93	-1.000
23	46.89	-0.854
24	46.84	-0.641
31	46.80	-0.486
23	46.77	-0.369
61	46.71	-0.155
79	46.68	-0.039
79	46.67	0.000
Median	46.67	0.000
82	46.63	0.155
81	46.62	0.194
16	46.60	0.272
24	46.51	0.641
61	46.44	0.913
Std Dev	46.41	1.000
32	46.37	1.165
43	46.37	1.165
43	46.31	1.418
32	46.29	1.495

048.99 Water Soluble Phosphate		
Lab	Other	
34	46.63	0.000
Median	46.63	0.000

048.XX Water Soluble Phosphate		
Lab	Total Method	

126	47.23	-2.848
140	47.15	-2.434
31	46.99	-1.605
23	46.89	-1.113

Std Dev		
46.87	-1.000	
24	46.84	-0.829
31	46.80	-0.621
23	46.77	-0.466
113	46.74	-0.337
61	46.71	-0.181
82	46.71	-0.155
79	46.68	-0.026
Median	46.68	0.000
79	46.67	0.026
82	46.63	0.233
34	46.63	0.259
81	46.62	0.285
16	46.60	0.388
24	46.51	0.880
Std Dev	46.48	1.000
61	46.44	1.243
32	46.37	1.580
43	46.37	1.580
43	46.31	1.916
32	46.29	2.020

050.50 %K ₂ O Soluble Potash		
Lab	ICP(Oxalate)	
23	0.18	0.000
23	0.18	0.000
Median	0.18	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
31	0.99	-173.128
Std Dev	0.19	-1.000
24	0.19	-0.536
31	0.19	-0.536
61	0.19	-0.536
Median	0.18	0.000
24	0.18	0.536
43	0.18	0.536
Std Dev	0.18	1.000
61	0.18	1.608

81	0.18	1.608
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050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
31	0.99	-217.080
24	0.19	-1.340
31	0.19	-1.340
61	0.19	-1.340
Std Dev	0.18	-1.000
23	0.18	0.000
23	0.18	0.000
24	0.18	0.000
43	0.18	0.000
Median	0.18	0.000
Std Dev	0.18	1.000
61	0.18	1.340
81	0.18	1.340

060.00 Free Water		
Lab	Vacuum Oven	
24	2.28	-1.316
16	2.23	-1.216
31	2.13	-1.012
Std Dev	2.12	-1.000
24	2.12	-0.991
31	2.02	-0.781
113	1.94	-0.614
34	1.88	-0.488
140	1.71	-0.131
43	1.66	-0.016
Median	1.65	0.000
43	1.64	0.016
23	1.48	0.351
23	1.43	0.467
32	1.37	0.593
79	1.36	0.603
79	1.36	0.603
32	1.32	0.687
61	1.29	0.750
Std Dev	1.17	1.000
61	0.92	1.537

060.20 Free Water		
Lab	Karl Fisher	

55	1.98	0.000
Median	1.98	0.000

060.99 Free Water		
Lab	Other	
126	2.59	0.000
Median	2.59	0.000

060.XX Free Water		
Lab	Total Method	
126	2.59	-1.785
24	2.28	-1.165
16	2.23	-1.072
Std Dev	2.19	-1.000
31	2.13	-0.880
24	2.12	-0.861
31	2.02	-0.664
55	1.98	-0.575
113	1.94	-0.506
34	1.88	-0.388
140	1.71	-0.054
Median	1.68	0.000
43	1.66	0.054
43	1.64	0.084
23	1.48	0.398
23	1.43	0.506
32	1.37	0.625
79	1.36	0.634
79	1.36	0.634
32	1.32	0.713
61	1.29	0.772
Std Dev	1.17	1.000
61	0.92	1.510

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
32	0.65	-2.004
32	0.64	-1.748
Std Dev	0.61	-1.000
61	0.60	-0.727
31	0.60	-0.600
82	0.59	-0.472
34	0.58	-0.217
61	0.58	-0.217

31	0.58	-0.089
237	0.57	0.000
Median	0.57	0.000
81	0.57	0.038
24	0.56	0.421
16	0.55	0.638
43	0.54	0.868
23	0.54	0.932
23	0.54	0.932
Std Dev	0.53	1.000
24	0.53	1.187
43	0.52	1.350

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
32	0.65	-2.004
32	0.64	-1.748
Std Dev	0.61	-1.000
61	0.60	-0.727
31	0.60	-0.600
82	0.59	-0.472
34	0.58	-0.217
61	0.58	-0.217
31	0.58	-0.089
237	0.57	0.000
Median	0.57	0.000
81	0.57	0.038
24	0.56	0.421
16	0.55	0.638
43	0.54	0.868
23	0.54	0.932
23	0.54	0.932
Std Dev	0.53	1.000
24	0.53	1.187
43	0.52	1.350

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
24	1.50	-1.733
32	1.50	-1.617
32	1.49	-1.386
24	1.48	-1.271
237	1.47	-1.109
34	1.47	-1.040

Std Dev	1.47	-1.000
82	1.46	-0.809
23	1.43	0.000
61	1.43	0.000
81	1.43	0.000
Median	1.43	0.000
61	1.42	0.116
23	1.42	0.231
31	1.42	0.231
31	1.41	0.347
16	1.39	0.809
Std Dev	1.38	1.000
43	1.27	3.697
43	1.23	4.621

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
24	1.50	-1.733
32	1.50	-1.617
32	1.49	-1.386
24	1.48	-1.271
237	1.47	-1.109
34	1.47	-1.040
Std Dev	1.47	-1.000
82	1.46	-0.809
23	1.43	0.000
61	1.43	0.000
81	1.43	0.000
Median	1.43	0.000
61	1.42	0.116
23	1.42	0.231
31	1.42	0.231
31	1.41	0.347
16	1.39	0.809
Std Dev	1.38	1.000
43	1.27	3.697
43	1.23	4.621

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
16	1.20	-0.149
241	1.20	-0.149
241	1.19	0.000
Median	1.19	0.000

Std Dev	1.12	1.000
79	1.11	1.191
79	1.08	1.638

144.99 Sulfate Sulfur (S)		
Lab	Other	
81	1.26	-3.216
61	1.24	-2.412
32	1.22	-1.072
Std Dev	1.21	-1.000
23	1.21	-0.536
61	1.21	-0.536
23	1.20	0.000
24	1.20	0.000
Median	1.20	0.000
32	1.19	0.268
24	1.19	0.536
34	1.18	0.804
Std Dev	1.18	1.000
31	1.15	2.412
31	1.11	4.824
237	1.10	4.985

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
81	1.26	-1.811
61	1.24	-1.376
Std Dev	1.23	-1.000
32	1.22	-0.652
23	1.21	-0.362
61	1.21	-0.362
16	1.20	-0.217
241	1.20	-0.217
23	1.20	-0.072
24	1.20	-0.072
Median	1.19	0.000
32	1.19	0.072
241	1.19	0.072
24	1.19	0.217
34	1.18	0.362
Std Dev	1.16	1.000
31	1.15	1.231
79	1.11	2.390
31	1.11	2.535

237	1.10	2.622
79	1.08	3.259

145.99 Total Sulfur (S)		
Lab	Other	
43	1.24	-0.045
237	1.23	0.000
Median	1.23	0.000
Std Dev	1.22	1.000
43	1.21	2.635

145.XX Total Sulfur (S)		
Lab	Total Method	
43	1.24	-0.045
237	1.23	0.000
Median	1.23	0.000
Std Dev	1.22	1.000
43	1.21	2.635

151.30 Total Arsenic		
Lab	ICP	
43	19.05	-1.146
Std Dev	18.60	-1.000
61	18.00	-0.807
61	17.50	-0.646
140	17.20	-0.549
43	16.40	-0.291
81	15.50	0.000
Median	15.50	0.000
82	14.45	0.339
237	13.90	0.517
31	12.50	0.969
Std Dev	12.40	1.000
31	11.85	1.179
24	10.30	1.679

151.XX Total Arsenic		
Lab	Total Method	
43	19.05	-1.146
Std Dev	18.60	-1.000
61	18.00	-0.807
61	17.50	-0.646
140	17.20	-0.549
43	16.40	-0.291

81	15.50	0.000
Median	15.50	0.000
82	14.45	0.339
237	13.90	0.517
31	12.50	0.969
Std Dev	12.40	1.000
31	11.85	1.179
24	10.30	1.679

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	41.20	0.000
Median	41.20	0.000

65.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	41.20	0.000
Median	41.20	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
61	6.00	-2.527
43	5.16	-1.600
43	5.04	-1.469
Std Dev	4.61	-1.000
24	4.28	-0.641
126	4.07	-0.406
81	3.74	-0.049
Median	3.70	0.000
82	3.65	0.049
237	3.46	0.263
16	3.33	0.402
61	3.00	0.762
Std Dev	2.78	1.000
31	2.10	1.748
31	2.00	1.858

181.XX Total Cadmium		
Lab	PPM	Total Method
61	6.00	-2.527
43	5.16	-1.600
43	5.04	-1.469
Std Dev	4.61	-1.000
24	4.28	-0.641

126	4.07	-0.406
81	3.74	-0.049
Median	3.70	0.000
82	3.65	0.049
237	3.46	0.263
16	3.33	0.402
61	3.00	0.762
Std Dev	2.78	1.000
31	2.10	1.748
31	2.00	1.858

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
82	2.06	-1.096
Std Dev	2.05	-1.000
32	2.05	-0.975
16	2.05	-0.877
23	2.04	-0.731
31	2.04	-0.731
31	2.04	-0.609
61	2.03	-0.365
32	2.02	-0.244
43	2.01	0.000
81	2.01	0.000
Median	2.01	0.000
23	2.01	0.122
43	2.00	0.244
24	1.99	0.609
24	1.99	0.609
34	1.98	0.853
Std Dev	1.97	1.000
61	1.94	1.827
237	1.57	10.781

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
82	2.06	-1.096
Std Dev	2.05	-1.000
32	2.05	-0.975
16	2.05	-0.877
23	2.04	-0.731
31	2.04	-0.731
31	2.04	-0.609
31	2.04	-0.609
61	2.03	-0.365

32	2.02	-0.244
43	2.01	0.000
81	2.01	0.000
Median	2.01	0.000
23	2.01	0.122
43	2.00	0.244
24	1.99	0.609
24	1.99	0.609
34	1.98	0.853
Std Dev	1.97	1.000
61	1.94	1.827
237	1.57	10.781

191.30 Total Chromium		
Lab	PPM	ICP
61	101.00	-1.564
Std Dev	97.92	-1.000
61	97.00	-0.832
82	95.70	-0.594
126	95.59	-0.574
31	94.20	-0.319
31	92.90	-0.081
Median	92.45	0.000
16	92.01	0.081
43	91.50	0.175
43	91.00	0.266
Std Dev	86.99	1.000
237	80.18	2.246
81	79.50	2.371
24	40.20	9.562

191.XX Total Chromium		
Lab	PPM	Total Method
61	101.00	-1.564
Std Dev	97.92	-1.000
61	97.00	-0.832
82	95.70	-0.594
126	95.59	-0.574
31	94.20	-0.319
31	92.90	-0.081
Median	92.45	0.000
16	92.01	0.081
43	91.50	0.175
43	91.00	0.266

Std Dev	86.99	1.000
237	80.18	2.246
81	79.50	2.371
24	40.20	9.562

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
237	7.97	-7.683
61	4.00	-1.516
81	3.80	-1.205
Std Dev	3.67	-1.000
82	3.30	-0.428
16	3.05	-0.038
Median	3.02	0.000
43	3.00	0.038
43	3.00	0.038
126	2.75	0.426
24	2.39	0.986
Std Dev	2.38	1.000
61	1.00	3.145

221.30 Acid Soluble Copper		
Lab	PPM	ICP
16	4.63	-2.433
61	4.00	-2.010
Std Dev	2.49	-1.000
61	2.00	-0.670
81	1.36	-0.241
82	1.00	0.000
Median	1.00	0.000
24	0.00	0.670
43	0.00	0.670
43	0.00	0.670
237	0.00	0.670

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
16	4.63	-2.433
61	4.00	-2.010
Std Dev	2.49	-1.000
61	2.00	-0.670

81	1.36	-0.241
82	1.00	0.000
Median	1.00	0.000
24	0.00	0.670
43	0.00	0.670
43	0.00	0.670
237	0.00	0.670

241.30 Lab	%Fe ₂ O ₃	Acid Soluble Iron ICP
32	1.69	-1.206
Std Dev	1.68	-1.000
82	1.67	-0.804
23	1.67	-0.670
23	1.67	-0.670
24	1.67	-0.670
32	1.66	-0.402
24	1.65	-0.268
34	1.64	0.000
81	1.64	0.000
Median	1.64	0.000
61	1.63	0.268
16	1.62	0.469
31	1.62	0.670
31	1.62	0.670
61	1.62	0.670
Std Dev	1.60	1.000
237	1.59	1.300
43	1.58	1.742
43	1.27	10.050

241.XX Lab	%Fe ₂ O ₃	Acid Soluble Iron Total Method
32	1.69	-1.206
Std Dev	1.68	-1.000
82	1.67	-0.804
23	1.67	-0.670
23	1.67	-0.670
24	1.67	-0.670
32	1.66	-0.402
24	1.65	-0.268
34	1.64	0.000
81	1.64	0.000
Median	1.64	0.000

61	1.63	0.268
16	1.62	0.469
31	1.62	0.670
31	1.62	0.670
61	1.62	0.670
Std Dev	1.60	1.000
237	1.59	1.300
43	1.58	1.742
43	1.27	10.050

251.30 Lab	PPM	Total Lead ICP
237	60.48	-52.644
61	4.50	-2.388
61	4.00	-1.939
Std Dev	2.95	-1.000
126	2.13	-0.256
16	1.85	-0.008
24	1.84	0.000
Median	1.84	0.000
31	1.75	0.081
81	1.64	0.180
82	1.50	0.305
43	1.30	0.485
43	1.00	0.754

251.XX Lab	PPM	Total Lead Total Method
237	60.48	-52.644
61	4.50	-2.388
61	4.00	-1.939
Std Dev	2.95	-1.000
126	2.13	-0.256
16	1.85	-0.008
24	1.84	0.000
Median	1.84	0.000
31	1.75	0.081
81	1.64	0.180
82	1.50	0.305
43	1.30	0.485
43	1.00	0.754

261.30 Lab	Acid Soluble Manganese ICP
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61	370.50	-1.210
Std Dev	369.37	-1.000
31	369.35	-0.996
31	365.15	-0.214
24	365.00	-0.186
Median	364.00	0.000
81	363.00	0.186
61	361.50	0.465
Std Dev	358.63	1.000
82	351.50	2.326
16	348.50	2.885

261.31 Lab	Acid Soluble Manganese ICP	
237	360.50	0.000
Median	360.50	0.000

261.99 Lab	Acid Soluble Manganese Other	
43	366.50	-1.340
Std Dev	365.99	-1.000
Median	364.50	0.000
Std Dev	363.01	1.000
43	362.50	1.340

261.XX Lab	Acid Soluble Manganese Total Method	
61	370.50	-2.083
31	369.35	-1.764
Std Dev	366.60	-1.000
43	366.50	-0.972
31	365.15	-0.597
24	365.00	-0.555
81	363.00	0.000
Median	363.00	0.000
43	362.50	0.139
61	361.50	0.417
237	360.50	0.694
Std Dev	359.40	1.000
82	351.50	3.194
16	348.50	4.027

281.00 Lab	Total Mercury Atomic Absorbtion
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81	0.00	0.000
Median	0.00	0.000

281.30 Lab	PPM	Total Mercury ICP
24	0.18	-1.340
Std Dev	0.16	-1.000
Median	0.09	0.000
Std Dev	0.02	1.000
126	0.00	1.340

281.XX Lab	PPM	Total Mercury Total Method
24	0.18	-2.680
Std Dev	0.07	-1.000
81	0.00	0.000
126	0.00	0.000
Median	0.00	0.000

289.30 Lab	PPM	Total Molybdenum ICP
237	23.11	-12.106

289.XX Lab	PPM	Total Molybdenum Total Method
237	23.11	-12.106
24	16.10	-3.974
Std Dev	13.54	-1.000
81	13.50	-0.957
126	13.04	-0.423
61	13.00	-0.377
31	12.70	-0.029
Median	12.68	0.000
31	12.65	0.029
82	12.20	0.551
43	12.00	0.783
61	12.00	0.783
Std Dev	11.81	1.000
43	11.25	1.653
16	10.73	2.262

291.30 Lab	Total Nickel ICP
31	

291.99		Total Nickel
Lab	PPM	Other
31	13.50	0.000
Median	13.50	0.000

291.XX		Total Nickel
Lab	PPM	Total Method
31	15.60	-2.714
Std Dev	14.54	-1.000
61	14.50	-0.944
81	14.50	-0.944
126	14.01	-0.155
43	14.00	-0.139
43	14.00	-0.139
Median	13.91	0.000
16	13.83	0.139
82	13.55	0.585
31	13.50	0.666
Std Dev	13.29	1.000
24	12.70	1.954
237	12.65	2.034
61	12.50	2.276

301.30		Total Selenium
Lab	PPM	ICP
24	0.35	-2.680
Std Dev	0.13	-1.000
126	0.00	0.000
237	0.00	0.000
Median	0.00	0.000

301.XX		Total Selenium
Lab	PPM	Total Mthod
24	0.35	-2.680
Std Dev	0.13	-1.000
126	0.00	0.000
237	0.00	0.000
Median	0.00	0.000

311.99		Sodium
Lab	%Na ₂ O	Other
23	0.26	-2.345
61	0.25	-2.010
23	0.24	-1.340

Std Dev	0.23	-1.000
31	0.23	-0.670
31	0.23	-0.335
82	0.23	-0.335
61	0.22	0.000
81	0.22	0.000
Median	0.22	0.000
24	0.22	0.335
24	0.21	0.670
Std Dev	0.21	1.000
43	0.20	1.206
43	0.18	2.513
237	0.17	3.652

311.XX		Sodium
Lab	%Na ₂ O	Total Method
23	0.26	-2.345
61	0.25	-2.010
23	0.24	-1.340
Std Dev	0.23	-1.000
31	0.23	-0.670
31	0.23	-0.335
82	0.23	-0.335
61	0.22	0.000
81	0.22	0.000
Median	0.22	0.000
24	0.22	0.335
24	0.21	0.670
Std Dev	0.21	1.000
43	0.20	1.206
43	0.18	2.513
237	0.17	3.652

321.30		Acid Soluble Zinc
Lab	PPM	ICP
31	119.10	-3.384
31	105.95	-2.000
Std Dev	96.45	-1.000
43	95.00	-0.847
81	92.50	-0.584
61	89.00	-0.216
61	88.50	-0.163
Median	86.95	0.000
82	85.40	0.163

43	85.00	0.205
126	80.47	0.682
16	80.18	0.713
Std Dev	77.45	1.000
237	72.11	1.562
24	50.60	3.826

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

321.XX		Acid Soluble Zinc
Lab	PPM	Total Method
31	119.10	-3.664
31	105.95	-2.234
43	95.00	-1.044
Std Dev	94.60	-1.000
81	92.50	-0.772
61	89.00	-0.391
61	88.50	-0.337
82	85.40	0.000
Median	85.40	0.000
43	85.00	0.043
126	80.47	0.537
16	80.18	0.568
Std Dev	76.20	1.000
237	72.11	1.445
24	50.60	3.784
63	1.09	9.167

325.10		Fluoride
Lab	%	Electrode
16	2.37	-3.323
32	2.30	-1.715
23	2.27	-1.072
32	2.25	-0.643
24	2.24	-0.429
31	2.23	-0.322
34	2.23	-0.322
Median	2.22	0.000
24	2.20	0.322
23	2.20	0.429
79	2.18	0.750

31	2.18	0.750
82	2.18	0.858
79	2.15	1.394
81	1.87	7.397

325.99		Fluoride
Lab	%	Other
61	2.43	-1.340
Median	2.40	0.000
61	2.37	1.340

325.XX		Fluoride
Lab	%	Total Method
61	2.43	-2.825
16	2.37	-2.028
61	2.37	-2.028
32	2.30	-0.942
23	2.27	-0.507
32	2.25	-0.217
24	2.24	-0.072
31	2.23	0.000
34	2.23	0.000
Median	2.23	0.000
24	2.20	0.435
23	2.20	0.507
79	2.18	0.724
31	2.18	0.724
82	2.18	0.797
79	2.15	1.159
81	1.87	5.215