

AFPC

2020-06

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	2	11.24	0.00
Ammoniacal Nitrogen, Other		001.99	11	11.19	0.06
Method Group 001.XX PCT			13	11.20	0.06
AMMON & NITRATE N					
Ammon & Nitrate N, Other		009.99	2	11.19	0.00
Method Group 009.XX PCT			2	11.19	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.26	0.09
Total Nitrogen, Combustion	993.13	010.60	17	11.17	0.08
Total Nitrogen, Other		010.99	4	11.20	0.02
Method Group 010.XX PCT			24	11.19	0.09
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	50.67	0.00
Total Phosphate, Spectrometric	978.02	020.20	20	50.53	0.17
Total Phosphate, ICP	970.03	020.40	2	51.67	0.74
Total Phosphate, Other	993.13	020.99	1	50.46	0.00
Method Group 020.XX PCT			24	50.57	0.22
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	1.88	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	2.12	0.62
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	2	0.39	0.04
Insoluble Phosphate, Automated	978.01	030.40	3	1.57	0.26
Method Group 030.XX PCT			17	1.57	0.75
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	48.79	0.65
Indirect Available Phosphate, Other		040.99	1	49.79	0.00
Method Group 040.XX PCT			14	48.92	0.79
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	47.80	0.74
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	47.59	0.31
Direct Available Phosphate, Automated	978.01	041.40	1	46.25	0.00
Direct Available Phosphate, ICP		041.50	4	48.97	4.02
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	45.96	1.49
Direct Available Phosphate, Other		041.99	1	46.05	0.00
Method Group 041.XX PCT			14	46.96	2.29
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	1	40.80	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	18	40.54	0.16
Water Soluble Phosphate, Other		048.99	3	40.75	0.22
Method Group 048.XX PCT			22	40.58	0.27
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.19	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.17	0.00
Soluble Potash, Other		050.99	10	0.19	0.02
Method Group 050.XX PCT			14	0.19	0.02
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	17	0.34	0.15
Free Water, Other		060.99	2	0.52	0.16
Method Group 060.XX PCT			19	0.34	0.25
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	17	0.35	0.02
Method Group 101.XX PCT			17	0.35	0.03

ACID SOLUBLE MAGNESIUM AS MgO					
Acid Soluble Magnesium, ICP		121.30	17	0.34	0.01
Method Group 121.XX PCT			17	0.34	0.02
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	2.19	0.08
Sulfur, Spectrometric		144.70	2	4.57	0.01
Sulfur, Other		144.99	13	2.21	0.09
Method Group 144.XX PCT			18	2.21	0.14
TOTAL SULFUR (S)					
Sulfur, Other		145.99	4	2.53	0.4
Method Group 145.XX PCT			4	2.53	0.5
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	6	17.6	2.6
Method Group 151.XX PPM			6	17.6	3.2
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	2	68	28.9
Method Group 165.XX PPM			2	68	35.2
WATER SOLUBLE BORON					
Water Soluble Boron, Other		171.99	1	36	0.0
Method Group 171.XX PPM			1	36	0.0
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	9	2.0	0.5
Method Group 181.XX PPM			9	2.0	0.6
ALUMINUM AS Al₂O₃					
ICP, %			17	0.94	0.03
Method Group 190.XX PCT			17	0.94	0.04
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	8	60	4.6
Method Group 191.XX PPM			8	60	5.6
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	8	11	1.5
Method Group 202.XX PPM			8	11	1.9
ACID SOLUBLE COPPER					
Method Group 221.XX PPM			8	46.4	8.2
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	17	4.04	0.11
Method Group 241.XX PCT			17	4.04	0.14
TOTAL LEAD					
Total Lead, ICP		251.30	9	1.2	0.6
Method Group 251.XX PPM			9	1.2	0.8
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	8	449	19.6
Method Group 261.XX PPM			8	449	23.9
WATER SOLUBLE MANGANESE					
Water Soluble Manganese, ICP	972.03	271.30	1	197	0
Method Group 271.XX PCT			1	197	0.0
TOTAL MERCURY					
Total Mercury, Atomic Absorbion		281.00	1		0.00
Method Group 281.XX PPM			1	0.00	0.00
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	8	4	0.7
Method Group 289.XX PPM			8	4	0.8
TOTAL NICKEL					
Total Nickel, ICP		291.30	7	48.5	2.9
Total Nickel, icp		291.99	1	53.4	0.0
Method Group 291.XX PPM			8	49.6	3.8
TOTAL SELENIUM					
Total Selenium, ICP		301.30	1		0.0

Method Group 301.XX PPM			1	0.0	0.0
SODIUM AS Na₂O					
Sodium, Other	311.99		12	0.16	0.01
Method Group 311.XX PCT			12	0.16	0.01
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	9351.5	0.0
Acid Soluble Zinc, ICP		321.30	7	8389.5	6489.9
Method Group 321.XX %			8	8491.0	8118.1
FLUORIDE					
Volumetric	325.10		11	1.05	0.06
Distilled/Electrode	325.99		2	1.16	0.01
Method Group 325.XX PCT			13	1.06	0.07

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001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
31	11.24	0.000
31	11.24	0.000
Median	11.24	0.000

001.99 Ammoniacal Nitrogen		
Lab	Other	
237	11.28	-1.479
Std Dev	11.25	-1.000
61	11.22	-0.435
23	11.21	-0.348
24	11.20	-0.174
34	11.20	-0.174
61	11.19	0.000
Median	11.19	0.000
23	11.17	0.348
24	11.15	0.783
Std Dev	11.13	1.000
118	11.11	1.375
79	11.09	1.740
79	11.05	2.436

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
237	11.28	-1.436
Std Dev	11.25	-1.000
31	11.24	-0.766
31	11.24	-0.766
61	11.22	-0.287
23	11.21	-0.191
24	11.20	0.000
34	11.20	0.000
Median	11.20	0.000
61	11.19	0.191
23	11.17	0.574
Std Dev	11.15	1.000
24	11.15	1.053
118	11.11	1.704
79	11.09	2.106
79	11.05	2.871

009.99 Ammon & Nitrate N		
Lab	Other	
32	11.19	-1.340
Std Dev	11.19	-1.000
Median	11.19	0.000
Std Dev	11.18	1.000
32	11.18	1.340

009.XX Ammon & Nitrate N		
Lab	Total Method	
32	11.19	-1.340
Std Dev	11.19	-1.000
Median	11.19	0.000
Std Dev	11.18	1.000
32	11.18	1.340

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
43	11.36	-1.094
Std Dev	11.35	-1.000
43	11.26	0.000
Median	11.26	0.000
Std Dev	11.16	1.000
219	11.11	1.586

010.60 Total Nitrogen		
Lab	Combustion	
79	11.35	-2.254
140	11.32	-1.888
31	11.28	-1.401
31	11.27	-1.279
79	11.25	-1.035
Std Dev	11.25	-1.000
111	11.24	-0.853
237	11.21	-0.530
47	11.18	-0.122
66	11.17	0.000
Median	11.17	0.000
103	11.15	0.183
137	11.15	0.183
80	11.15	0.183
77	11.14	0.305
219	11.13	0.426
14	11.10	0.792
Std Dev	11.08	1.000
14	11.02	1.766

118	10.70	5.665
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010.99 Total Nitrogen		
Lab	Other	
23	11.24	-2.680
Std Dev	11.21	-1.000
23	11.20	-0.298
Median	11.20	0.000
32	11.19	0.298
32	11.18	0.893

010.XX Total Nitrogen		
Lab	Total Method	
43	11.36	-2.196
79	11.35	-2.131
140	11.32	-1.744
31	11.28	-1.227
31	11.27	-1.098
Std Dev	11.26	-1.000
43	11.26	-0.904
79	11.25	-0.840
23	11.24	-0.710
111	11.24	-0.646
237	11.21	-0.304
23	11.20	-0.194
32	11.19	-0.065
Median	11.19	0.000
32	11.18	0.065
47	11.18	0.129
66	11.17	0.258
103	11.15	0.452
137	11.15	0.452
80	11.15	0.452
77	11.14	0.581
219	11.13	0.710
219	11.11	0.969
Std Dev	11.11	1.000
14	11.10	1.098
14	11.02	2.131
118	10.70	6.264

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
118	50.67	0.000

Median	50.67	0.000
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020.20 Total Phosphate		
Lab	Spectrometric	
111	51.10	-3.327
34	50.75	-1.274
31	50.73	-1.157
32	50.70	-1.010
Std Dev	50.70	-1.000
43	50.68	-0.893
32	50.67	-0.805
24	50.64	-0.659
24	50.64	-0.630
61	50.58	-0.278
79	50.56	-0.190
Median	50.53	0.000
31	50.50	0.190
43	50.49	0.249
14	50.46	0.425
140	50.45	0.483
14	50.44	0.513
79	50.44	0.513
23	50.38	0.864
23	50.37	0.923
Std Dev	50.36	1.000
237	50.30	1.362
61	50.25	1.626

020.40 Total Phosphate		
Lab	Automated	
137	52.66	-1.340
Std Dev	52.41	-1.000
Median	51.67	0.000
Std Dev	50.94	1.000
111	50.69	1.340

020.99 Total Phosphate		
Lab	Other	
275	50.46	0.000
Median	50.46	0.000

020.XX Total Phosphate		
Lab	Total Method	
137	52.66	-11.775

111	51.10	-2.971
Std Dev	50.75	-1.000
34	50.75	-0.999
31	50.73	-0.886
32	50.70	-0.746
111	50.69	-0.675
43	50.68	-0.633
118	50.67	-0.594
32	50.67	-0.549
24	50.64	-0.408
24	50.64	-0.380
61	50.58	-0.042
Median	50.57	0.000
79	50.56	0.042
31	50.50	0.408
43	50.49	0.464
275	50.46	0.580
14	50.46	0.633
140	50.45	0.689
14	50.44	0.717
79	50.44	0.717
Std Dev	50.39	1.000
23	50.38	1.055
23	50.37	1.111
237	50.30	1.533
61	50.25	1.787

030.10	Insoluble Phosphate	
Lab	Gravimetric Quimociac	
118	1.88	0.000
Median	1.88	0.000

030.20	Insoluble Phosphate	
Lab	Spectrometric	
43	2.68	-0.899
43	2.66	-0.866
24	2.25	-0.201
24	2.22	-0.152
23	2.18	-0.096
23	2.12	0.000
Median	2.12	0.000
Std Dev	1.50	1.000
79	1.45	1.075
61	1.42	1.131

140	1.38	1.196
79	1.35	1.236
61	1.23	1.428

030.30	Insoluble Phosphate	
Lab	Alka. Quimociac	
31	0.45	-1.340
Std Dev	0.43	-1.000
Median	0.39	0.000
Std Dev	0.35	1.000
31	0.34	1.340

030.40	Insoluble Phosphate	
Lab	Automated	
32	1.69	-0.443
32	1.57	0.000
Median	1.57	0.000
Std Dev	1.31	1.000
34	0.99	2.237

030.XX	Insoluble Phosphate	
Lab	Total Method	
43	2.68	-1.792
43	2.66	-1.759
24	2.25	-1.090
24	2.22	-1.041
Std Dev	2.19	-1.000
23	2.18	-0.985
23	2.12	-0.888
118	1.88	-0.492
32	1.69	-0.186
32	1.57	0.000
Median	1.57	0.000
79	1.45	0.194
61	1.42	0.250
140	1.38	0.315
79	1.35	0.355
61	1.23	0.549
34	0.99	0.936
Std Dev	0.95	1.000
31	0.45	1.816
31	0.34	1.994

040.20	Indirect Available Phosphate	
Lab	Spectrometric	
31	50.30	-2.326
31	50.05	-1.941
Std Dev	49.44	-1.000
61	49.16	-0.570
32	49.13	-0.524
140	49.07	-0.431
61	49.05	-0.400
32	48.79	0.000
Median	48.79	0.000
24	48.53	0.408
24	48.34	0.693
23	48.26	0.816
23	48.19	0.924
Std Dev	48.14	1.000
43	48.02	1.186
43	47.81	1.517

040.99	Indirect Available Phosphate	
Lab	Other	
34	49.79	0.000
Median	49.79	0.000

040.XX	Indirect Available Phosphate	
Lab	Total Method	
31	50.30	-2.119
31	50.05	-1.735
34	49.79	-1.336
Std Dev	49.57	-1.000
61	49.16	-0.369
32	49.13	-0.323
140	49.07	-0.230
61	49.05	-0.200
Median	48.92	0.000
32	48.79	0.200
24	48.53	0.607
24	48.34	0.891
Std Dev	48.27	1.000
23	48.26	1.014
23	48.19	1.121
43	48.02	1.382
43	47.81	1.712

041.10	Direct Available Phosphate	
Lab	Gravimetric Quimociac	
118	48.79	-1.340
Std Dev	48.54	-1.000
Median	47.80	0.000
Std Dev	47.06	1.000
47	46.81	1.340

041.20	Direct Available Phosphate	
Lab	Spectrometric	
237	48.00	-1.340
Std Dev	47.89	-1.000
Median	47.59	0.000
Std Dev	47.28	1.000
47	47.18	1.340

041.40	Direct Available Phosphate	
Lab	Automated	
111	46.25	0.000
Median	46.25	0.000

041.50	Direct Available Phosphate	
Lab	ICP	
80	55.90	-1.726
Std Dev	52.98	-1.000
77	50.83	-0.463
Median	48.97	0.000
66	47.11	0.463
111	45.52	0.858

041.60	Direct Available Phosphate	
Lab	EDTA Extract	
137	52.10	-4.135
Std Dev	47.44	-1.000
79	46.16	-0.138
Median	45.96	0.000
79	45.75	0.138
103	45.37	0.397

041.99	Direct Available Phosphate	
Lab	Other	
275	46.05	0.000
Median	46.05	0.000

041.XX Direct Available Phosphate		
Lab	Total Method	
80	55.90	-4.767
137	52.10	-2.741
77	50.83	-2.062
Std Dev	48.83	-1.000
118	48.79	-0.977
237	48.00	-0.553
47	47.18	-0.116
66	47.11	-0.081
Median	46.96	0.000
47	46.81	0.081
111	46.25	0.378
79	46.16	0.425
275	46.05	0.484
79	45.75	0.644
111	45.52	0.766
103	45.37	0.849

048.10 Water Soluble Phosphate		
Lab	Gravimetric Quimociac	
118	40.80	0.000
Median	40.80	0.000

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
32	40.98	-2.650
23	40.92	-2.315
23	40.87	-2.010
31	40.77	-1.401
Std Dev	40.70	-1.000
31	40.70	-0.944
32	40.69	-0.883
140	40.61	-0.426
14	40.60	-0.365
43	40.55	-0.061
Median	40.54	0.000
24	40.53	0.061
61	40.52	0.122
43	40.51	0.183
79	40.48	0.365
79	40.47	0.426
111	40.44	0.603
14	40.42	0.761

24	40.39	0.914
Std Dev	40.38	1.000
61	40.29	1.553

048.99 Water Soluble Phosphate		
Lab	Other	
275	40.80	-0.224
34	40.75	0.000
Median	40.75	0.000
Std Dev	40.53	1.000
111	40.20	2.456

048.XX Water Soluble Phosphate		
Lab	Total Method	
32	40.98	-1.832
23	40.92	-1.581
23	40.87	-1.351
275	40.80	-1.031
118	40.80	-1.008
Std Dev	40.79	-1.000
31	40.77	-0.893
34	40.75	-0.802
31	40.70	-0.550
32	40.69	-0.504
140	40.61	-0.160
14	40.60	-0.115
Median	40.58	0.000
43	40.55	0.115
24	40.53	0.206
61	40.52	0.252
43	40.51	0.298
79	40.48	0.435
79	40.47	0.481
111	40.44	0.614
14	40.42	0.733
24	40.39	0.848
Std Dev	40.36	1.000
61	40.29	1.329
111	40.20	1.709

050.50 %K ₂ O Soluble Potash		
Lab	ICP(Oxalate)	
111	0.19	-0.447
23	0.19	0.000

Median	0.19	0.000
Std Dev	0.19	1.000
23	0.18	2.233

050.51 %K ₂ O Soluble Potash		
Lab	ICP(Citrate)	
137	0.17	0.000
Median	0.17	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
237	0.21	-1.167
Std Dev	0.21	-1.000
24	0.20	-0.421
31	0.20	-0.421
31	0.19	-0.188
43	0.19	-0.077
Median	0.19	0.000
43	0.18	0.077
24	0.18	0.278
Std Dev	0.16	1.000
61	0.16	1.210
61	0.16	1.210
80	0.10	4.007

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
237	0.21	-1.766
Std Dev	0.20	-1.000
24	0.20	-0.637
31	0.20	-0.637
111	0.19	-0.426
23	0.19	-0.285
31	0.19	-0.285
43	0.19	-0.117
Median	0.19	0.000
43	0.18	0.117
23	0.18	0.420
24	0.18	0.420
Std Dev	0.17	1.000
137	0.17	1.126
61	0.16	1.831
61	0.16	1.831
80	0.10	6.063

060.00 Free Water		
Lab	Vacuum Oven	
32	0.72	-2.451
14	0.68	-2.190
14	0.68	-2.190
32	0.60	-1.700
Std Dev	0.49	-1.000
31	0.46	-0.784
31	0.38	-0.261
61	0.35	-0.065
24	0.35	-0.033
24	0.34	0.000
Median	0.34	0.000
140	0.32	0.163
61	0.31	0.229
79	0.26	0.523
34	0.26	0.556
79	0.25	0.588
23	0.22	0.784
23	0.21	0.850
Std Dev	0.19	1.000
118	0.13	1.405

060.99 Free Water		
Lab	Other	
111	0.73	-1.340
Std Dev	0.68	-1.000
Median	0.52	0.000
Std Dev	0.36	1.000
275	0.30	1.340

060.XX Free Water		
Lab	Total Method	
111	0.73	-1.918
32	0.72	-1.844
14	0.68	-1.647
14	0.68	-1.647
32	0.60	-1.279
Std Dev	0.54	-1.000
31	0.46	-0.590
31	0.38	-0.197
61	0.35	-0.049
24	0.35	-0.025

24	0.34	0.000
Median	0.34	0.000
140	0.32	0.123
61	0.31	0.172
275	0.30	0.177
79	0.26	0.393
34	0.26	0.418
79	0.25	0.443
23	0.22	0.590
23	0.21	0.639
Std Dev	0.14	1.000
118	0.13	1.057

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
32	0.39	-2.010
32	0.39	-1.787
Std Dev	0.37	-1.000
237	0.37	-0.916
14	0.36	-0.670
34	0.36	-0.670
24	0.35	-0.223
61	0.35	-0.223
61	0.35	-0.223
14	0.35	0.000
24	0.35	0.000
Median	0.35	0.000
23	0.34	0.223
31	0.34	0.223
23	0.33	0.670
31	0.33	0.670
Std Dev	0.32	1.000
43	0.31	1.567
111	0.30	1.831
43	0.30	1.904

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
32	0.39	-2.010
32	0.39	-1.787
Std Dev	0.37	-1.000
237	0.37	-0.916
14	0.36	-0.670
34	0.36	-0.670

24	0.35	-0.223
61	0.35	-0.223
61	0.35	-0.223
14	0.35	0.000
24	0.35	0.000
Median	0.35	0.000
23	0.34	0.223
31	0.34	0.223
23	0.33	0.670
31	0.33	0.670
Std Dev	0.32	1.000
43	0.31	1.567
111	0.30	1.831
43	0.30	1.904

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
34	0.37	-1.953
32	0.37	-1.618
Std Dev	0.36	-1.000
14	0.35	-0.613
24	0.35	-0.613
61	0.35	-0.613
61	0.35	-0.613
14	0.35	-0.278
24	0.35	-0.278
237	0.34	0.000
Median	0.34	0.000
23	0.34	0.057
32	0.34	0.057
23	0.33	0.727
31	0.33	0.727
31	0.33	0.727
111	0.33	0.794
Std Dev	0.33	1.000
43	0.32	1.397
43	0.32	1.732

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
34	0.37	-1.953
32	0.37	-1.618
Std Dev	0.36	-1.000
14	0.35	-0.613

24	0.35	-0.613
61	0.35	-0.613
61	0.35	-0.613
14	0.35	-0.278
24	0.35	-0.278
237	0.34	0.000
Median	0.34	0.000
23	0.34	0.057
32	0.34	0.057
23	0.33	0.727
31	0.33	0.727
31	0.33	0.727
111	0.33	0.794
Std Dev	0.33	1.000
43	0.32	1.397
43	0.32	1.732

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
241	2.33	-1.765
Std Dev	2.27	-1.000
79	2.19	0.000
Median	2.19	0.000
79	2.12	0.915

144.70 Sulfur		
Lab	Spectrometric	
14	4.58	-1.340
Std Dev	4.58	-1.000
Median	4.57	0.000
Std Dev	4.57	1.000
14	4.57	1.340

144.99 Sulfate Sulfur (S)		
Lab	Other	
61	4.12	-20.386
61	4.01	-19.260
241	2.33	-1.197
Std Dev	2.31	-1.000
24	2.29	-0.822
23	2.28	-0.679
24	2.22	-0.018
23	2.21	0.000
Median	2.21	0.000

34	2.21	0.036
237	2.17	0.422
32	2.17	0.518
32	2.13	0.947
Std Dev	2.12	1.000
31	2.06	1.697
31	2.04	1.912

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
14	4.58	-20.096
14	4.57	-19.969
61	4.12	-16.147
61	4.01	-15.255
Std Dev	2.33	-1.000
241	2.33	-0.941
241	2.33	-0.941
24	2.29	-0.644
23	2.28	-0.531
24	2.22	-0.007
Median	2.21	0.000
23	2.21	0.007
34	2.21	0.035
79	2.19	0.205
237	2.17	0.341
32	2.17	0.418
32	2.13	0.757
79	2.12	0.800
Std Dev	2.10	1.000
31	2.06	1.352
31	2.04	1.522

145.99 Total Sulfur (S)		
Lab	Other	
237	4.58	-5.003
Std Dev	2.94	-1.000
43	2.54	-0.012
Median	2.53	0.000
43	2.53	0.012
111	2.41	0.283

145.XX Total Sulfur (S)		
Lab	Total Method	
237	4.58	-5.003

Std Dev	2.94	-1.000
43	2.54	-0.012
Median	2.53	0.000
43	2.53	0.012
111	2.41	0.283

151.30	Total Arsenic	
Lab	ICP	
43	20.45	-1.109
Std Dev	20.17	-1.000
140	19.10	-0.588
43	19.05	-0.569
Median	17.58	0.000
31	16.10	0.569
31	15.45	0.819
Std Dev	14.98	1.000
111	7.50	3.885

151.XX	Total Arsenic	
Lab	Total Method	
43	20.45	-1.109
Std Dev	20.17	-1.000
140	19.10	-0.588
43	19.05	-0.569
Median	17.58	0.000
31	16.10	0.569
31	15.45	0.819
Std Dev	14.98	1.000
111	7.50	3.885

165.99	Acid Soluble Boron	
Lab	PPM	Other
111	107.00	-1.340
Std Dev	97.16	-1.000
Median	68.23	0.000
Std Dev	39.29	1.000
237	29.46	1.340

65.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method
111	107.00	-1.340
Std Dev	97.16	-1.000
Median	68.23	0.000
Std Dev	39.29	1.000

237	29.46	1.340
171.99	Water Soluble Boron	
Lab	PPM	Other
111	35.50	0.000
Median	35.50	0.000

171.XX	Water Soluble Boron	
Lab	PPM	Total Method
111	35.50	0.000
Median	35.50	0.000

181.30	Total Cadmium	
Lab	PPM	ICP
31	16.10	-26.668
31	15.45	-25.438
237	2.59	-1.122
Std Dev	2.53	-1.000
275	2.18	-0.342
61	2.00	0.000
Median	2.00	0.000
43	1.94	0.113
43	1.89	0.218
61	1.85	0.284
Std Dev	1.47	1.000
111	1.00	1.891

181.XX	Total Cadmium	
Lab	PPM	Total Method
31	16.10	-26.668
31	15.45	-25.438
237	2.59	-1.122
Std Dev	2.53	-1.000
275	2.18	-0.342
61	2.00	0.000
Median	2.00	0.000
43	1.94	0.113
43	1.89	0.218
61	1.85	0.284
Std Dev	1.47	1.000
111	1.00	1.891

190.00	Aluminum	
Lab	%Al ₂ O ₃	ICP

14	0.99	-1.416
14	0.98	-1.118
32	0.98	-1.118
Std Dev	0.98	-1.000
32	0.97	-0.820
24	0.97	-0.671
43	0.97	-0.671
31	0.95	-0.225
43	0.95	-0.225
237	0.94	0.000
Median	0.94	0.000
34	0.94	0.073
31	0.93	0.371
24	0.92	0.669
61	0.92	0.669
61	0.92	0.817
23	0.91	0.966
Std Dev	0.91	1.000
23	0.91	1.115
111	0.67	8.143

190.XX	Aluminum	
Lab	%Al ₂ O ₃	Total Method
14	0.99	-1.416
14	0.98	-1.118
32	0.98	-1.118
Std Dev	0.98	-1.000
32	0.97	-0.820
24	0.97	-0.671
43	0.97	-0.671
31	0.95	-0.225
43	0.95	-0.225
237	0.94	0.000
Median	0.94	0.000
34	0.94	0.073
31	0.93	0.371
24	0.92	0.669
61	0.92	0.669
61	0.92	0.817
23	0.91	0.966
Std Dev	0.91	1.000
23	0.91	1.115
111	0.67	8.143

191.30	Total Chromium	
Lab	ICP	
31	66.90	-1.504
Std Dev	64.58	-1.000
31	62.15	-0.471
43	62.00	-0.439
237	61.47	-0.322
Median	59.98	0.000
43	58.50	0.322
111	56.00	0.866
61	55.50	0.975
Std Dev	55.38	1.000
61	55.00	1.083

191.XX	Total Chromium	
Lab	PPM	Total Method
31	66.90	-1.504
Std Dev	64.58	-1.000
31	62.15	-0.471
43	62.00	-0.439
237	61.47	-0.322
Median	59.98	0.000
43	58.50	0.322
111	56.00	0.866
61	55.50	0.975
Std Dev	55.38	1.000
61	55.00	1.083

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
43	12.00	-0.979
43	11.00	-0.326
237	10.94	-0.287
61	10.50	0.000
61	10.50	0.000
Median	10.50	0.000
111	10.00	0.326
Std Dev	8.97	1.000
31	5.61	3.194
31	4.33	4.026

221.30 Acid Soluble Copper		
Lab	PPM	ICP
61	53.50	-1.053
Std Dev	53.14	-1.000
61	51.00	-0.681
111	49.00	-0.383
43	48.50	-0.309
Median	46.43	0.000
31	44.35	0.309
43	43.50	0.436
Std Dev	39.71	1.000
31	31.50	2.222
237	28.54	2.664

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
61	53.50	-1.053
Std Dev	53.14	-1.000
61	51.00	-0.681
111	49.00	-0.383
43	48.50	-0.309
Median	46.43	0.000
31	44.35	0.309
43	43.50	0.436
Std Dev	39.71	1.000
31	31.50	2.222
237	28.54	2.664

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
111	4.19	-1.398
Std Dev	4.15	-1.000
23	4.12	-0.715
23	4.12	-0.715
61	4.11	-0.625
34	4.10	-0.536
14	4.09	-0.447
14	4.08	-0.357
31	4.04	-0.045
24	4.04	0.000
Median	4.04	0.000
32	4.00	0.313
24	4.00	0.357
32	3.99	0.402

43	3.95	0.804
Std Dev	3.92	1.000
61	3.92	1.027
43	3.86	1.563
237	3.78	2.282
31	2.56	13.221

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
111	4.19	-1.398
Std Dev	4.15	-1.000
23	4.12	-0.715
23	4.12	-0.715
61	4.11	-0.625
34	4.10	-0.536
14	4.09	-0.447
14	4.08	-0.357
31	4.04	-0.045
24	4.04	0.000
Median	4.04	0.000
32	4.00	0.313
24	4.00	0.357
32	3.99	0.402
43	3.95	0.804
Std Dev	3.92	1.000
61	3.92	1.027
43	3.86	1.563
237	3.78	2.282
31	2.56	13.221

251.30 Total Lead		
Lab	PPM	ICP
61	2.45	-1.963
61	2.20	-1.569
31	1.90	-1.096
Std Dev	1.84	-1.000
31	1.65	-0.702
275	1.21	0.000
Median	1.21	0.000
61	1.10	0.166
43	1.05	0.244
Std Dev	0.57	1.000
111	0.00	1.900
237	0.00	1.900

251.XX Total Lead		
Lab	PPM	Total Method
61	2.45	-1.963
61	2.20	-1.569
31	1.90	-1.096
Std Dev	1.84	-1.000
31	1.65	-0.702
275	1.21	0.000
Median	1.21	0.000
43	1.10	0.166
43	1.05	0.244
Std Dev	0.57	1.000
111	0.00	1.900
237	0.00	1.900

261.30 Acid Soluble Manganese		
Lab	ICP	
237	489.20	-2.052
43	481.00	-1.634
Std Dev	468.59	-1.000
43	460.00	-0.562
31	454.50	-0.281
Median	449.00	0.000
61	443.50	0.281
111	439.50	0.485
31	437.50	0.587
61	434.50	0.740

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
237	489.20	-2.052
43	481.00	-1.634
Std Dev	468.59	-1.000
43	460.00	-0.562
31	454.50	-0.281
Median	449.00	0.000
61	443.50	0.281
111	439.50	0.485
31	437.50	0.587
61	434.50	0.740

271.30 Water Soluble Manganese		
Lab	ICP	
111	197.00	0.000
Median	197.00	0.000

111	197.00	0.000
Median	197.00	0.000

271.XX Water Soluble Manganese		
Lab	PPM	Total Method
111	197.00	0.000
Median	197.00	0.000

281.00 Total Mercury		
Lab	PPM	Atomic Absorbtion
118	0.00	0.000
Median	0.00	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
118	0.00	0.000
Median	0.00	0.000

289.30 Total Molybdenum		
Lab	PPM	ICP
31	4.20	-0.506
31	4.20	-0.506
237	4.12	-0.388
111	4.00	-0.217
Median	3.85	0.000
43	3.70	0.217
43	3.45	0.579
Std Dev	3.16	1.000
61	2.50	1.953
61	1.70	3.110

289.XX Total Molybdenum		
Lab	PPM	Total Method
31	4.20	-0.506
31	4.20	-0.506
237	4.12	-0.388
111	4.00	-0.217
Median	3.85	0.000
43	3.70	0.217
43	3.45	0.579
Std Dev	3.16	1.000
61	2.50	1.953
61	1.70	3.110

291.30 Total Nickel		
Lab	ICP	
31		

291.99 Total Nickel		
Lab	PPM	Other
31	53.40	0.000
Median	53.40	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
31	53.40	0.000

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31	53.40	-1.207
Std Dev	52.75	-1.000
31	52.10	-0.794
43	51.50	-0.604
237	50.69	-0.347
Median	49.60	0.000
43	48.50	0.347
61	47.65	0.617
61	46.75	0.902
Std Dev	46.44	1.000
111	7.50	13.351

301.30	Total Selenium	
Lab	PPM	ICP
111	0.00	0.000
Median	0.00	0.000

301.XX	Total Selenium	
Lab	PPM	Total Mthod
111	0.00	0.000
Median	0.00	0.000

311.99	Sodium	
Lab	%Na ₂ O	Other
23	0.19	-1.840
237	0.18	-1.762
23	0.18	-1.431
Std Dev	0.17	-1.000
31	0.17	-0.613
24	0.17	-0.204
24	0.17	-0.204
Median	0.16	0.000
31	0.16	0.204
61	0.16	0.204
61	0.16	0.204
Std Dev	0.15	1.000
43	0.14	1.477
111	0.14	1.512
43	0.14	1.576

311.XX	Sodium	
Lab	%Na ₂ O	Total Method
23	0.19	-1.840
237	0.18	-1.762

23	0.18	-1.431
Std Dev	0.17	-1.000
31	0.17	-0.613
24	0.17	-0.204
24	0.17	-0.204
Median	0.16	0.000
31	0.16	0.204
61	0.16	0.204
61	0.16	0.204
Std Dev	0.15	1.000
43	0.14	1.477
111	0.14	1.512
43	0.14	1.576

321.00	Acid Soluble Zinc	
Lab	Atomic Absorption	
111	9351.50	0.000
Median	9351.50	0.000

321.30	Acid Soluble Zinc	
Lab	PPM	ICP
61	9316.50	-0.143
61	9274.00	-0.136
43	8592.50	-0.031
43	8389.50	0.000
Median	8389.50	0.000
Std Dev	1899.59	1.000
237	472.60	1.220
31	0.95	1.293
31	0.92	1.293

321.XX	Acid Soluble Zinc	
Lab	PPM	Total Method
111	9351.50	-0.129
61	9316.50	-0.124
61	9274.00	-0.117
43	8592.50	-0.015
Median	8491.00	0.000
43	8389.50	0.015
Std Dev	1826.87	1.000
237	472.60	1.203
31	0.95	1.274
31	0.92	1.274

325.10	Fluoride	
Lab	%	Electrode
24	1.08	-0.605
24	1.07	-0.432
34	1.07	-0.432
32	1.07	-0.346
32	1.06	-0.259
23	1.05	0.000
Median	1.05	0.000
23	1.03	0.346
31	0.99	0.951
31	0.99	0.951
14	0.97	1.357
14	0.96	1.401

325.99	Fluoride	
Lab	%	Other
61	1.18	-1.340
Median	1.16	0.000
61	1.15	1.340

325.XX	Fluoride	
Lab	%	Total Method
61	1.18	-1.926
61	1.15	-1.424
24	1.08	-0.335
24	1.07	-0.168
34	1.07	-0.168
32	1.07	-0.084
32	1.06	0.000
Median	1.06	0.000
23	1.05	0.251
23	1.03	0.586
31	0.99	1.173
31	0.99	1.173
14	0.97	1.566
14	0.96	1.608