

AFPC

2020-02

Sample

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	17.18	0.00
Ammoniacal Nitrogen, Other		001.99	8	17.17	0.10
Method Group 001.XX PCT			9	17.18	0.11
AMMON & NITRATE N					
Ammon & Nitrate N, Other		009.99	2	17.21	0.02
Method Group 009.XX PCT			2	17.21	0.02
TOTAL NITROGEN					
Total Nitrogen, Combustion	993.13	010.60	18	18.15	0.08
Total Nitrogen, Other		010.99	9	18.13	0.15
Method Group 010.XX PCT			27	18.13	0.14
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	3	46.24	0.15
Total Phosphate, Spectrometric	978.02	020.20	17	46.36	0.22
Total Phosphate, ICP	970.03	020.40	3	46.59	0.20
Total Phosphate, Other	993.13	020.99	1	46.36	0.00
Method Group 020.XX PCT			24	46.36	0.24
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.16	0.04
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.10	0.00
Insoluble Phosphate, Automated	978.01	030.40	3	0.16	0.03
Insoluble Phosphate, Other		030.99	1	0.28	0.00
Method Group 030.XX PCT			12	0.16	0.06
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	46.20	0.25
Indirect Available Phosphate, Automated	960.02	040.40	1	46.44	0.00
Indirect Available Phosphate, Other		040.99	1	46.35	0.00
Method Group 040.XX PCT			11	46.21	0.24
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	1	46.74	0.00
Direct Available Phosphate, Spectrometric	960.03D	041.20	2	46.00	0.36
Direct Available Phosphate, Automated	978.01	041.40	1	47.06	0.00
Direct Available Phosphate, ICP		041.50	4	46.48	0.67
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	45.87	0.34
Direct Available Phosphate, Other		041.99	1	46.08	0.00
Method Group 041.XX PCT			13	46.18	0.79
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	41.72	0.49
Water Soluble Phosphate, Other		048.99	3	41.47	0.30
Method Group 048.XX PCT			17	41.66	0.51
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	3	0.11	0.05
Soluble Potash, ICP(Citrate)		050.51	1	0.25	0.00
Soluble Potash, Other		050.99	6	0.25	0.01
Method Group 050.XX PCT			10	0.24	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	12	2.74	0.15
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.97	0.02
Free Water, Other		060.99	6	2.67	0.11
Method Group 060.XX PCT			20	2.72	0.23
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	14	0.19	0.03
Method Group 101.XX PCT			14	0.19	0.04
ACID SOLUBLE MAGNESIUM AS MgO					

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	2	1.38	0.01
Acid Soluble Magnesium, ICP		121.30	14	1.33	0.05
Method Group 121.XX PCT			16	1.34	0.06
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	3	2.15	0.17
Sulfur, Other		144.99	14	1.74	0.02
Method Group 144.XX PCT			17	1.75	0.05
TOTAL SULFUR (S)					
Sulfur, Other		145.99	2	1.86	0.0
Method Group 145.XX PCT			2	1.86	0.0
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	4	8.2	3.4
Total Arsenic, Other		151.99	3	11.1	4.7
Method Group 151.XX PPM			7	9.2	6.4
ACID SOLUBLE BORON					
Acid Soluble Boron, Other		165.99	2	102	2.8
Method Group 165.XX PPM			2	102	3.5
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	7	27.5	1.4
Total Cadmium, Other		181.99	2	26.5	1.1
Method Group 181.XX PPM			9	27.5	2.1
ALUMINUM AS Al₂O₃					
ICP, %			15	1.17	0.03
Water Soluble Chlorine, Other, %		190.99	1	1.17	0.00
Method Group 190.XX PCT			16	1.17	0.03
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	5	207	2.8
Total Chromium, Other		191.99	2	204	2.8
Method Group 191.XX PPM			7	207	5.1
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	5	2	0.4
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			6	2	0.4
ACID SOLUBLE COPPER					
Acid Soluble Copper, Other		221.99	2	0.9	0.3
Method Group 221.XX PPM			6	0.0	0.1
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	16	0.94	0.02
Method Group 241.XX PCT			16	0.94	0.03
TOTAL LEAD					
Total Lead, ICP		251.30	7	1.0	0.9
Total Lead, Other		251.99	2	0.1	0.1
Method Group 251.XX PPM			9	0.2	1.0
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	2	120	2.8
Acid Soluble Manganese, Other		261.99	4	127	3.0
Method Group 261.XX PPM			6	125	4.9
TOTAL MERCURY					
Total Mercury, ICP		281.30	1	0.00	0.00
Total Mercury, Other		281.99	1		0.00
Method Group 281.XX PPM			2	0.00	0.00
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	5	16	0.9
Total Molybdenum, Other		289.99	1	11	0.0
Method Group 289.XX PPM			6	16	2.0
TOTAL NICKEL					
Total Nickel, ICP		291.30	4	14.4	0.8
Total Nickel, icp		291.99	4	5.8	10.0
Method Group 291.XX PPM			8	13.6	5.6

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		9	0.59	0.04
Method Group 311.XX PCT			9	0.59	0.05
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	122.0	0.4
Acid Soluble Zinc, ICP		321.30	6	114.5	11.7
Acid Soluble Zinc, Other		321.99	1	26.1	0.0
Method Group 321.XX %			9	115.5	11.8
FLUORIDE					
Volumetric	325.10		12	0.56	0.03
Distilled/Electrode	325.99		2	0.60	0.01
Method Group 325.XX PCT			14	0.56	0.06

001.10 Ammoniacal Nitrogen		
Lab		MgO distillation
31	17.18	0.000
Median	17.18	0.000

001.99 Ammoniacal Nitrogen		
Lab		Other
79	17.33	-1.665
38	17.28	-1.145
Std Dev	17.27	-1.000
79	17.26	-0.937
24	17.19	-0.156
Median	17.17	0.000
113	17.16	0.156
24	17.14	0.312
140	17.13	0.468
34	17.10	0.781

001.XX Ammoniacal Nitrogen		
Lab		Total Method
79	17.33	-1.703
38	17.28	-1.145
Std Dev	17.27	-1.000
79	17.26	-0.921
24	17.19	-0.084
31	17.18	0.000
Median	17.18	0.000
113	17.16	0.251
24	17.14	0.419
140	17.13	0.586
34	17.10	0.921

009.99 Ammon & Nitrate N		
Lab		Other
32	17.24	-1.340
Std Dev	17.23	-1.000
Median	17.21	0.000
Std Dev	17.20	1.000
32	17.19	1.340

009.XX Ammon & Nitrate N		
Lab		Total Method
32	17.24	-1.340
Std Dev	17.23	-1.000

Median	17.21	0.000
Std Dev	17.20	1.000
32	17.19	1.340

010.60 Total Nitrogen		
Lab		Combustion
111	18.77	-8.053
61	18.34	-2.448
103	18.29	-1.804
66	18.28	-1.675
Std Dev	18.22	-1.000
137	18.19	-0.580
14	18.18	-0.451
14	18.16	-0.193
77	18.16	-0.129
79	18.15	-0.064
Median	18.15	0.000
140	18.14	0.064
61	18.12	0.322
63	18.09	0.709
31	18.09	0.773
237	18.08	0.799
47	18.07	0.966
Std Dev	18.07	1.000
79	18.01	1.739
80	17.75	5.089
38	17.24	11.661

010.99 Total Nitrogen		
Lab		Other
113	18.58	-2.974
24	18.35	-1.471
24	18.28	-1.013
Std Dev	18.28	-1.000
23	18.13	-0.033
23	18.13	0.000
Median	18.13	0.000
275	18.09	0.229
32	18.08	0.327
32	18.04	0.556
Std Dev	17.97	1.000
275	17.80	2.157

010.XX Total Nitrogen		
Lab		Total Method
111	18.77	-5.587
113	18.58	-3.928
24	18.35	-1.921
61	18.34	-1.790
103	18.29	-1.353
24	18.28	-1.309
66	18.28	-1.266
Std Dev	18.24	-1.000
137	18.19	-0.524
14	18.18	-0.436
14	18.16	-0.262
77	18.16	-0.218
79	18.15	-0.175
140	18.14	-0.087
23	18.13	0.000
Median	18.13	0.000
23	18.13	0.044
61	18.12	0.087
63	18.09	0.349
275	18.09	0.349
31	18.09	0.393
237	18.08	0.410
32	18.08	0.480
47	18.07	0.524
32	18.04	0.786
Std Dev	18.02	1.000
79	18.01	1.048
275	17.80	2.924
80	17.75	3.317
38	17.24	7.769

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
237	46.65	-2.680
Std Dev	46.39	-1.000
241	46.24	0.000
241	46.24	0.000
Median	46.24	0.000

020.20 Total Phosphate		
Lab		Spectrometric
111	46.62	-1.161

Std Dev	46.58	-1.000
14	46.58	-0.960
275	46.49	-0.581
14	46.47	-0.491
34	46.44	-0.357
79	46.44	-0.357
140	46.42	-0.246
31	46.37	-0.022
24	46.36	0.000
275	46.36	0.000
Median	46.36	0.000
24	46.30	0.268
32	46.29	0.335
23	46.14	0.983
23	46.14	0.983
Std Dev	46.14	1.000
61	46.08	1.273
61	45.90	2.055
38	44.91	6.499

020.40 Total Phosphate		
Lab		Automated
111	46.61	-0.074
32	46.59	0.000
Median	46.59	0.000
Std Dev	46.39	1.000
137	46.07	2.606

020.99 Total Phosphate		
Lab		Other
113	46.36	0.000
Median	46.36	0.000

020.XX Total Phosphate		
Lab		Total Method
237	46.65	-1.471
111	46.62	-1.332
111	46.61	-1.255
32	46.59	-1.178
14	46.58	-1.100
Std Dev	46.56	-1.000
275	46.49	-0.662
14	46.47	-0.559
34	46.44	-0.404

79	46.44	-0.404
140	46.42	-0.276
31	46.37	-0.018
113	46.36	-0.008
Median	46.36	0.000
24	46.36	0.008
275	46.36	0.008
24	46.30	0.317
32	46.29	0.394
241	46.24	0.626
241	46.24	0.626
Std Dev	46.17	1.000
23	46.14	1.142
23	46.14	1.142
61	46.08	1.477
137	46.07	1.528
61	45.90	2.379
38	44.91	7.507

030.20 Insoluble Phosphate		
Lab		Spectrometric
23	0.21	-1.404
23	0.21	-1.404
Std Dev	0.19	-1.000
24	0.17	-0.255
61	0.16	0.000
Median	0.16	0.000
140	0.15	0.128
79	0.12	0.893
Std Dev	0.12	1.000
24	0.09	1.659

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.10	0.000
Median	0.10	0.000

030.40 Insoluble Phosphate		
Lab		Automated
32	0.17	-0.335
32	0.16	0.000
Median	0.16	0.000
Std Dev	0.13	1.000
34	0.09	2.345

030.99 Insoluble Phosphate		
Lab		Other
113	0.28	0.000
Median	0.28	0.000

030.XX Insoluble Phosphate		
Lab		Total Method
113	0.28	-2.542
23	0.21	-1.072
23	0.21	-1.072
Std Dev	0.21	-1.000
32	0.17	-0.255
24	0.17	-0.153
32	0.16	-0.051
Median	0.16	0.000
61	0.16	0.051
140	0.15	0.153
79	0.12	0.766
Std Dev	0.11	1.000
31	0.10	1.225
24	0.09	1.378
34	0.09	1.378

040.20 Indirect Available Phosphate		
Lab		Spectrometric
79	46.32	-0.500
31	46.27	-0.290
140	46.27	-0.280
24	46.21	-0.060
24	46.20	0.000
Median	46.20	0.000
32	46.12	0.300
Std Dev	45.95	1.000
23	45.93	1.060
23	45.93	1.060
61	45.83	1.460

040.40 Indirect Available Phosphate		
Lab		Automated
32	46.44	0.000
Median	46.44	0.000

040.99 Indirect Available Phosphate		
Lab		Other
34	46.35	0.000
Median	46.35	0.000

040.XX Indirect Available Phosphate		
Lab		Total Method
32	46.44	-1.122
Std Dev	46.41	-1.000
34	46.35	-0.698
79	46.32	-0.548
31	46.27	-0.287
140	46.27	-0.274
24	46.21	0.000
Median	46.21	0.000
24	46.20	0.075
32	46.12	0.449
Std Dev	46.01	1.000
23	45.93	1.396
23	45.93	1.396
61	45.83	1.895

041.10 Direct Available Phosphate		
Lab		Gravimetric Quimociac
47	46.74	0.000
Median	46.74	0.000

041.20 Direct Available Phosphate		
Lab		Spectrometric
47	46.49	-1.340
Std Dev	46.36	-1.000
Median	46.00	0.000
Std Dev	45.64	1.000
38	45.52	1.340

041.40 Direct Available Phosphate		
Lab		Automated
111	47.06	0.000
Median	47.06	0.000

041.50 Direct Available Phosphate		
Lab		ICP
111	47.14	-0.979
63	46.78	-0.449

Median	46.48	0.000
66	46.18	0.449
Std Dev	45.81	1.000
80	45.35	1.689

041.60 Direct Available Phosphate		
Lab		EDTA Extract
77	46.32	-1.333
Std Dev	46.21	-1.000
79	45.88	-0.022
Median	45.87	0.000
137	45.87	0.022
Std Dev	45.54	1.000
103	44.57	3.893

041.99 Direct Available Phosphate		
Lab		Other
113	46.08	0.000
Median	46.08	0.000

041.XX Direct Available Phosphate		
Lab		Total Method
111	47.14	-1.471
111	47.06	-1.359
Std Dev	46.83	-1.000
63	46.78	-0.924
47	46.74	-0.855
47	46.49	-0.470
77	46.32	-0.216
66	46.18	0.000
Median	46.18	0.000
113	46.08	0.152
79	45.88	0.462
137	45.87	0.485
Std Dev	45.53	1.000
38	45.52	1.024
80	45.35	1.278
103	44.57	2.487

048.20 Water Soluble Phosphate		
Lab		Spectrometric
14	42.89	-2.405
14	42.81	-2.250
Std Dev	42.20	-1.000

32	42.05	-0.676
140	41.88	-0.327
24	41.75	-0.069
79	41.75	-0.069
24	41.74	-0.039
Median	41.72	0.000
31	41.70	0.039
32	41.55	0.342
Std Dev	41.23	1.000
61	41.22	1.031
23	41.19	1.093
23	41.19	1.093
61	41.13	1.206
111	40.88	1.731

048.99 Water Soluble Phosphate		
Lab		Other
113	41.66	-0.619
34	41.47	0.000
Median	41.47	0.000
Std Dev	41.17	1.000
111	40.85	2.061

048.XX Water Soluble Phosphate		
Lab		Total Method
14	42.89	-2.917
14	42.81	-2.739
Std Dev	42.08	-1.000
32	42.05	-0.925
140	41.88	-0.522
24	41.75	-0.225
79	41.75	-0.225
24	41.74	-0.190
31	41.70	-0.101
113	41.66	0.000
Median	41.66	0.000
32	41.55	0.249
34	41.47	0.439
Std Dev	41.23	1.000
61	41.22	1.044
23	41.19	1.115
23	41.19	1.115
61	41.13	1.245
111	40.88	1.850

111	40.85	1.900
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050.50 %K ₂ O Soluble Potash		
Lab		ICP(Oxalate)
111	0.25	-2.588
Std Dev	0.16	-1.000
23	0.11	0.000
Median	0.11	0.000
23	0.10	0.092

050.51 %K ₂ O Soluble Potash		
Lab		ICP(Citrate)
137	0.25	0.000
Median	0.25	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
80	0.40	-15.105
Std Dev	0.26	-1.000
24	0.25	-0.487
61	0.25	-0.487
Median	0.25	0.000
61	0.24	0.487
24	0.24	0.975
31	0.24	0.975

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
80	0.40	-14.070
Std Dev	0.25	-1.000
24	0.25	-0.670
61	0.25	-0.670
137	0.25	-0.670
111	0.25	-0.223
Median	0.24	0.000
61	0.24	0.223
24	0.24	0.670
31	0.24	0.670
Std Dev	0.23	1.000
23	0.11	12.283
23	0.10	12.730

060.00 Free Water		
Lab		Vacuum Oven

31	3.03	-1.951
24	3.01	-1.815
Std Dev	2.88	-1.000
34	2.87	-0.899
24	2.84	-0.695
79	2.83	-0.628
79	2.81	-0.492
Median	2.74	0.000
140	2.67	0.492
23	2.66	0.526
23	2.66	0.526
111	2.62	0.797
Std Dev	2.59	1.000
32	2.51	1.544
32	2.48	1.747

060.10 Free Water		
Lab		Vacuum Desiccate
61	3.00	-1.340
Std Dev	2.99	-1.000
Median	2.97	0.000
Std Dev	2.95	1.000
61	2.94	1.340

060.99 Free Water		
Lab		Other
47	6.95	-38.860
Std Dev	2.78	-1.000
113	2.73	-0.477
275	2.71	-0.295
Median	2.67	0.000
14	2.64	0.295
Std Dev	2.56	1.000
275	2.55	1.113
14	2.45	2.067

060.XX Free Water		
Lab		Total Method
47	6.95	-22.475
31	3.03	-1.645
24	3.01	-1.539
61	3.00	-1.512
61	2.94	-1.194
Std Dev	2.90	-1.000

34	2.87	-0.823
24	2.84	-0.663
79	2.83	-0.610
79	2.81	-0.504
113	2.73	-0.053
Median	2.72	0.000
275	2.71	0.053
140	2.67	0.265
23	2.66	0.292
23	2.66	0.292
14	2.64	0.398
111	2.62	0.504
275	2.55	0.876
Std Dev	2.53	1.000
32	2.51	1.088
32	2.48	1.247
14	2.45	1.433

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
237	0.37	-6.144
Std Dev	0.22	-1.000
32	0.21	-0.754
34	0.21	-0.754
14	0.21	-0.586
14	0.21	-0.586
61	0.20	-0.419
61	0.20	-0.251
Median	0.19	0.000
24	0.18	0.251
32	0.18	0.251
23	0.17	0.754
24	0.17	0.754
31	0.16	0.838
23	0.16	0.921
Std Dev	0.16	1.000
111	0.14	1.503

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
237	0.37	-6.144
Std Dev	0.22	-1.000
32	0.21	-0.754
34	0.21	-0.754

14	0.21	-0.586
14	0.21	-0.586
61	0.20	-0.419
61	0.20	-0.251
Median	0.19	0.000
24	0.18	0.251
32	0.18	0.251
23	0.17	0.754
24	0.17	0.754
31	0.16	0.838
23	0.16	0.921
Std Dev	0.16	1.000
111	0.14	1.503

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
275	1.38	-1.340
Std Dev	1.38	-1.000
Median	1.38	0.000
Std Dev	1.37	1.000
275	1.37	1.340

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
61	1.41	-1.866
34	1.38	-1.207
Std Dev	1.37	-1.000
237	1.37	-0.878
32	1.36	-0.768
111	1.35	-0.476
24	1.35	-0.439
32	1.33	-0.110
Median	1.33	0.000
24	1.32	0.110
23	1.31	0.329
23	1.31	0.439
31	1.29	0.713
61	1.28	0.988
Std Dev	1.28	1.000
14	1.26	1.427
14	1.25	1.646

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method

61	1.41	-1.521
Std Dev	1.39	-1.000
275	1.38	-0.944
34	1.38	-0.892
275	1.37	-0.640
237	1.37	-0.577
32	1.36	-0.472
111	1.35	-0.193
24	1.35	-0.157
Median	1.34	0.000
32	1.33	0.157
24	1.32	0.367
23	1.31	0.577
23	1.31	0.682
31	1.29	0.944
Std Dev	1.29	1.000
61	1.28	1.206
14	1.26	1.626
14	1.25	1.836

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
79	2.26	-0.648
79	2.15	0.000
Median	2.15	0.000
Std Dev	1.98	1.000
241	1.81	2.032

144.99 Sulfate Sulfur (S)		
Lab	Other	
241	1.81	-3.855
61	1.79	-2.445
32	1.76	-1.034
Std Dev	1.76	-1.000
14	1.75	-0.470
32	1.75	-0.470
34	1.75	-0.188
23	1.74	-0.094
Median	1.74	0.000
14	1.74	0.094
23	1.74	0.094
24	1.73	0.658
24	1.73	0.940
Std Dev	1.72	1.000

61	1.71	1.787
31	1.67	4.044
31	1.64	5.736

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
79	2.26	-12.547
79	2.15	-9.867
241	1.81	-1.584
241	1.81	-1.462
Std Dev	1.79	-1.000
61	1.79	-0.975
32	1.76	-0.365
14	1.75	-0.122
32	1.75	-0.122
34	1.75	0.000
Median	1.75	0.000
23	1.74	0.041
14	1.74	0.122
23	1.74	0.122
24	1.73	0.365
24	1.73	0.487
61	1.71	0.853
Std Dev	1.70	1.000
31	1.67	1.827
31	1.64	2.558

145.99 Total Sulfur (S)		
Lab	Other	
111	1.88	-1.340
Std Dev	1.88	-1.000
Median	1.86	0.000
Std Dev	1.84	1.000
237	1.83	1.340

145.XX Total Sulfur (S)		
Lab	Total Method	
111	1.88	-1.340
Std Dev	1.88	-1.000
Median	1.86	0.000
Std Dev	1.84	1.000
237	1.83	1.340

151.30 Total Arsenic		
Lab	ICP	
140	14.40	-1.848
Std Dev	11.54	-1.000
31	9.20	-0.305
Median	8.17	0.000
24	7.15	0.305
Std Dev	4.80	1.000
111	2.50	1.683

151.99 Total Arsenic		
Lab	Other	
275	12.59	-0.320
275	11.09	0.000
Median	11.09	0.000
Std Dev	6.39	1.000
113	0.00	2.360

151.XX Total Arsenic		
Lab	Total Method	
140	14.40	-0.993
275	12.59	-0.648
275	11.09	-0.360
31	9.20	0.000
Median	9.20	0.000
24	7.15	0.393
Std Dev	3.96	1.000
111	2.50	1.280
113	0.00	1.757

165.99 Acid Soluble Boron		
Lab	PPM	Other
111	106.00	-1.340
Std Dev	105.04	-1.000
Median	102.20	0.000
Std Dev	99.36	1.000
24	98.40	1.340

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
111	106.00	-1.340
Std Dev	105.04	-1.000
Median	102.20	0.000
Std Dev	99.36	1.000

Lab	PPM	Total Cadmium ICP
24	98.40	1.340
181.30		
237	29.37	-1.316
61	29.00	-1.059
61	29.00	-1.059
Std Dev	28.92	-1.000
31	27.50	0.000
Median	27.50	0.000
275	27.49	0.011
275	26.72	0.552
Std Dev	26.08	1.000
111	23.50	2.823

Lab	PPM	Total Cadmium Other
24	28.00	-1.340
Std Dev	27.61	-1.000
Median	26.46	0.000
Std Dev	25.32	1.000
113	24.93	1.340

Lab	PPM	Total Cadmium Total Method
237	29.37	-1.095
Std Dev	29.20	-1.000
61	29.00	-0.881
61	29.00	-0.881
24	28.00	-0.294
31	27.50	0.000
Median	27.50	0.000
275	27.49	0.009
275	26.72	0.459
Std Dev	25.80	1.000
113	24.93	1.512
111	23.50	2.349

Lab	%Al ₂ O ₃	Aluminum ICP
275	1.27	-3.618
275	1.26	-3.183
237	1.20	-1.005
Std Dev	1.19	-1.000

Lab	%Al ₂ O ₃	Aluminum Atomic Absorption
32	1.18	-0.335
24	1.17	-0.167
61	1.17	-0.167
14	1.17	0.000
14	1.17	0.000
Median	1.17	0.000
32	1.16	0.168
34	1.15	0.503
24	1.14	0.838
Std Dev	1.14	1.000
23	1.13	1.340
23	1.12	1.508
61	1.11	1.843
111	0.79	12.472

Lab	%Al ₂ O ₃	Aluminum Atomic Absorption
31	1.17	0.000
Median	1.17	0.000

Lab	%Al ₂ O ₃	Aluminum Total Method
275	1.27	-4.135
275	1.26	-3.637
237	1.20	-1.149
Std Dev	1.19	-1.000
32	1.18	-0.383
24	1.17	-0.191
61	1.17	-0.191
14	1.17	0.000
14	1.17	0.000
31	1.17	0.000
Median	1.17	0.000
32	1.16	0.191
34	1.15	0.574
24	1.14	0.957
Std Dev	1.14	1.000
23	1.13	1.531
23	1.12	1.723
61	1.11	2.106
111	0.79	14.254

Lab	Total Chromium ICP
191.30	

Lab	PPM	Total Chromium Other
237	218.95	-4.390
61	210.00	-1.234
Std Dev	209.34	-1.000
61	206.50	0.000
Median	206.50	0.000
31	206.20	0.106
Std Dev	203.66	1.000
111	196.00	3.703

Lab	PPM	Total Chromium Other
24	207.50	-1.340
Std Dev	206.55	-1.000
Median	203.75	0.000
Std Dev	200.95	1.000
113	200.00	1.340

Lab	PPM	Total Chromium Total Method
237	218.95	-2.953
Std Dev	210.72	-1.000
61	210.00	-0.830
24	207.50	-0.237
61	206.50	0.000
Median	206.50	0.000
31	206.20	0.071
Std Dev	202.28	1.000
113	200.00	1.542
111	196.00	2.490

Lab	PPM	Acid Soluble Cobalt ICP
61		

Lab	PPM	Acid Soluble Cobalt Other
24	1.66	0.000
Median	1.66	0.000

Lab	PPM	Acid Soluble Cobalt Total Method
61	2.00	-0.813
61	2.00	-0.813
237	1.84	-0.288
Median	1.75	0.000

Lab	PPM	Acid Soluble Copper ICP
24	1.66	0.288
111	1.50	0.782
Std Dev	1.43	1.000
31	0.00	5.567

Lab	PPM	Acid Soluble Copper ICP
31	0.00	0.000
61	0.00	0.000
61	0.00	0.000
111	0.00	0.000
Median	0.00	0.000

Lab	PPM	Acid Soluble Copper Other
113	0.89	-1.340
Std Dev	0.79	-1.000
Median	0.52	0.000
Std Dev	0.24	1.000
24	0.15	1.340

Lab	PPM	Acid Soluble Copper Total Method
113	0.89	-10.781
24	0.15	-1.787
Std Dev	0.08	-1.000
31	0.00	0.000
61	0.00	0.000
61	0.00	0.000
111	0.00	0.000
Median	0.00	0.000

Lab	%Fe ₂ O ₃	Acid Soluble Iron ICP
275	1.03	-4.278
275	1.02	-3.783
237	0.97	-1.502
Std Dev	0.96	-1.000
34	0.96	-0.901
111	0.95	-0.548
24	0.95	-0.450
32	0.94	-0.225
24	0.94	0.000
61	0.94	0.000

Median	0.94	0.000
14	0.93	0.450
14	0.92	0.675
32	0.92	0.675
31	0.92	0.788
Std Dev	0.91	1.000
23	0.91	1.126
23	0.91	1.351
61	0.89	2.026

241.XX	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Total Method
275	1.03	-4.278
275	1.02	-3.783
237	0.97	-1.502
Std Dev	0.96	-1.000
34	0.96	-0.901
111	0.95	-0.548
24	0.95	-0.450
32	0.94	-0.225
24	0.94	0.000
61	0.94	0.000
Median	0.94	0.000
14	0.93	0.450
14	0.92	0.675
32	0.92	0.675
31	0.92	0.788
Std Dev	0.91	1.000
23	0.91	1.126
23	0.91	1.351
61	0.89	2.026

251.30	Total Lead	
Lab	PPM	ICP
237	6.96	-6.858
Std Dev	1.87	-1.000
275	1.20	-0.233
275	1.12	-0.143
61	1.00	0.000
Median	1.00	0.000
Std Dev	0.13	1.000
31	0.00	1.152
61	0.00	1.152
111	0.00	1.152

251.99	Total Lead	
Lab	PPM	Other
24	0.16	-1.340
Std Dev	0.14	-1.000
Median	0.08	0.000
Std Dev	0.02	1.000
113	0.00	1.340

251.XX	Total Lead	
Lab	PPM	Total Method
237	6.96	-8.099
275	1.20	-1.244
275	1.12	-1.151
61	1.00	-1.003
Std Dev	1.00	-1.000
24	0.16	0.000
Median	0.16	0.000
31	0.00	0.189
61	0.00	0.189
111	0.00	0.189
113	0.00	0.189

261.30	Acid Soluble Manganese	
Lab	PPM	ICP
31	123.60	-1.340
Std Dev	122.64	-1.000
Median	119.80	0.000
Std Dev	116.96	1.000
111	116.00	1.340

261.99	Acid Soluble Manganese	
Lab	PPM	Other
237	129.20	-0.728
61	128.50	-0.496
Median	127.00	0.000
61	125.50	0.496
Std Dev	123.98	1.000
24	122.00	1.654

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
237	129.20	-1.165
Std Dev	128.54	-1.000

61	128.50	-0.989
61	125.50	-0.238
Median	124.55	0.000
31	123.60	0.238
24	122.00	0.639
Std Dev	120.56	1.000
111	116.00	2.141

281.30	Total Mercury	
Lab	PPM	ICP
24	0.00	0.000
Median	0.00	0.000

281.99	Total Mercury	
Lab	PPM	Other
113	0.00	0.000
Median	0.00	0.000

281.XX	Total Mercury	
Lab	PPM	Total Method
24	0.00	-1.340
Std Dev	0.00	-1.000
Median	0.00	0.000
Std Dev	0.00	1.000
113	0.00	1.340

289.30	Total Molybdenum	
Lab	PPM	ICP
237		
289.99		
Lab	PPM	Other
24	11.10	0.000
Median	11.10	0.000

289.XX	Total Molybdenum	
Lab	PPM	Total Method
237	18.16	-1.502
Std Dev	17.35	-1.000
31	16.70	-0.592
111	16.00	-0.156
Median	15.75	0.000
61	15.50	0.156
Std Dev	14.15	1.000
61	14.00	1.091

24	11.10	2.898
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291.30	Total Nickel	
Lab	PPM	ICP
61		

291.99	Total Nickel	
Lab	PPM	Other
113	19.30	-1.352
Std Dev	15.78	-1.000
24	11.50	-0.572
Median	5.79	0.000
24	0.07	0.572
111	0.00	0.579

291.XX	Total Nickel	
Lab	PPM	Total Method
113	19.30	-1.231
Std Dev	18.23	-1.000
61	15.00	-0.300
31	14.78	-0.251
61	14.00	-0.083
Median	13.62	0.000
237	13.23	0.083
24	11.50	0.458
Std Dev	9.00	1.000
24	0.07	2.933
111	0.00	2.948

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

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

311.99	Sodium	
Lab	%Na ₂ O	Other
237	0.77	-4.368
Std Dev	0.63	-1.000
61	0.63	-0.990
24	0.61	-0.495

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24	0.59	0.000
61	0.59	0.000
Median	0.59	0.000
31	0.58	0.309
111	0.56	0.845
Std Dev	0.55	1.000
23	0.26	8.290
23	0.25	8.413

311.XX Lab	%Na ₂ O	Sodium Total Method
237	0.77	-4.368
Std Dev	0.63	-1.000
61	0.63	-0.990
24	0.61	-0.495
24	0.59	0.000
61	0.59	0.000
Median	0.59	0.000
31	0.58	0.309
111	0.56	0.845
Std Dev	0.55	1.000
23	0.26	8.290
23	0.25	8.413

321.00 Lab	Acid Soluble Zinc Atomic Absorption	
275	122.44	-1.340
Std Dev	122.32	-1.000
Median	121.97	0.000
Std Dev	121.62	1.000
275	121.50	1.340

321.30 Lab	PPM	Acid Soluble Zinc ICP
31	139.08	-2.094
237	129.80	-1.304
Std Dev	126.24	-1.000
24	115.50	-0.085
Median	114.50	0.000
61	113.50	0.085
111	109.50	0.426
Std Dev	102.76	1.000
61	102.50	1.023

321.99 Lab	Acid Soluble Zinc Other	
113	26.05	0.000
Median	26.05	0.000

321.XX Lab	PPM	Acid Soluble Zinc Total Method
31	139.08	-2.441
237	129.80	-1.481
Std Dev	125.16	-1.000
275	122.44	-0.719
275	121.50	-0.621
24	115.50	0.000
Median	115.50	0.000
61	113.50	0.207
111	109.50	0.621
Std Dev	105.84	1.000
61	102.50	1.346
113	26.05	9.263

325.10 Lab	%	Fluoride Electrode
14	0.96	-11.911
14	0.95	-11.762
23	0.61	-1.638
23	0.58	-0.596
32	0.56	-0.149
32	0.56	-0.149
Median	0.56	0.000
24	0.55	0.149
79	0.54	0.447
79	0.54	0.447
24	0.54	0.596
31	0.53	0.893
34	0.50	1.638

325.99 Lab	%	Fluoride Other
61	0.61	-1.340
Median	0.60	0.000
61	0.59	1.340

325.XX Lab	%	Fluoride Total Method
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14	0.96	-8.303
14	0.95	-8.198
23	0.61	-1.051
61	0.61	-1.051
61	0.59	-0.525
23	0.58	-0.315
32	0.56	0.000
32	0.56	0.000
Median	0.56	0.000
24	0.55	0.210
79	0.54	0.420
79	0.54	0.420
24	0.54	0.525
31	0.53	0.736
34	0.50	1.261