

AFPC

Sample

2023-04

Grade

18-46-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	17	17.55	0.09
Method Group 001.XX PCT			17	17.55	0.10
NITROGEN FROM UREA					
Nitrogen from Urea, Other		005.99	1	1.08	0.00
Method Group 005.XX PCT			1	1.08	0.00
PERCENT UREA					
Percent UREA, Urease (as Urea)	959.03	007.00	1	1.45	0.00
Method Group 007.XX PCT			1	1.45	0.00
TOTAL NITROGEN					
Total Nitrogen, Reduced Iron		010.10	1	18.60	0.00
Total Nitrogen, Combustion	993.13	010.60	19	17.99	0.11
Total Nitrogen, Other		010.99	2	17.98	0.05
Method Group 010.XX PCT			22	18.00	0.14
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	5	46.50	2.29
Total Phosphate, Spectrometric	978.02	020.20	20	46.40	0.33
Total Phosphate, ICP	970.03	020.40	3	46.62	1.06
Method Group 020.XX PCT			28	46.46	0.40
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Gravimetric Quimociac	963.03C(a)	030.10	1	0.22	0.00
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	10	0.08	0.04
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	2	0.17	0.02
Insoluble Phosphate, Automated	978.01	030.40	2	0.26	0.10
Method Group 030.XX PCT			15	0.13	0.09
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Gravimetric Quimociac	960.02	040.10	2	45.97	0.02
Indirect Available Phosphate, Spectrometric	960.02	040.20	14	46.19	0.40
Indirect Available Phosphate, Other		040.99	1	46.29	0.00
Method Group 040.XX PCT			17	46.14	0.41
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	46.29	0.02
Direct Available Phosphate, ICP		041.50	3	46.60	1.05
Direct Available Phosphate, EDTA Extract	993.01	041.60	3	46.89	0.52
Method Group 041.XX PCT			8	46.52	0.58
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Gravimetric Quimociac	962.03	048.10	3	41.24	0.07
Water Soluble Phosphate, Spectrometric	970.01	048.20	16	41.56	0.27
Water Soluble Phosphate, Other		048.99	2	41.20	0.07
Method Group 048.XX PCT			21	41.42	0.44
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.15	0.00
Soluble Potash, Flame Photometric(Citrate)	983.02B(b)	050.61	1	1.17	0.00
Soluble Potash, Other		050.99	8	0.15	0.00
Method Group 050.XX PCT			11	0.15	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	16	1.89	0.35
Free Water, Karl Fisher	972.01	060.20	1	1.45	0.00
Free Water, Other		060.99	2	1.92	0.03
Method Group 060.XX PCT			19	1.87	0.41
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	17	0.41	0.04
Method Group 101.XX PCT			17	0.41	0.05
ACID SOLUBLE MAGNESIUM AS MgO					

Acid Soluble Magnesium, ICP		121.30	17	0.88	0.03
Method Group 121.XX PCT			17	0.88	0.03
SULFATE SULFUR (S)					
Sulfur, Gravimetric	980.02(a)	144.01	7	1.53	0.15
Sulfur, Spectrometric		144.70	1	1.45	0.00
Sulfur, Other		144.99	13	1.46	0.03
Method Group 144.XX PCT			21	1.46	0.06
TOTAL SULFUR (S)					
Sulfur, Other		145.99	5	1.41	0.8
Method Group 145.XX PCT			5	1.41	1.0
TOTAL ARSENIC					
Total Arsenic, ICP	980.02(b)	151.02	9	11.0	1.1
Method Group 151.XX PPM			9	11.0	1.4
TOTAL CADMIUM					
Total Cadmium, ICP		181.30	7	3.4	0.5
Method Group 181.XX PPM			7	3.4	0.6
ALUMINUM AS Al₂O₃					
ICP, %			17	1.73	0.06
Method Group 190.XX PCT			17	1.73	0.08
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	10	83	5.8
Method Group 191.XX PPM			10	83	7.1
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	8	3	0.4
Method Group 202.XX PPM			8	3	0.5
ACID SOLUBLE COPPER					
Method Group 221.XX PPM			3	3.5	0.7
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	17	1.34	0.05
Method Group 241.XX PCT			17	1.34	0.06
TOTAL LEAD					
Total Lead, ICP		251.30	9	1.2	0.3
Method Group 251.XX PPM			9	1.2	0.4
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, ICP	972.02a	261.30	8	339	11.5
Method Group 261.XX PPM			8	339	14.0
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	8	14	2.2
Method Group 289.XX PPM			8	14	2.7
TOTAL NICKEL					
Total Nickel, ICP		291.30	9	13.7	2.0
Total Nickel, icp		291.99	1	19.1	0.0
Method Group 291.XX PPM			10	14.1	3.2
TOTAL SELENIUM					
Total Selenium, ICP		301.30	3		4.8
Method Group 301.XX PPM			3	0.0	5.8
SODIUM AS Na₂O					
Sodium, Flame Photometric	974.01	311.30	1	0.41	0.00
Sodium, Other		311.99	10	0.22	0.01
Method Group 311.XX PCT			11	0.22	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	10	76.7	11.2
Method Group 321.XX %			10	76.7	13.7
FLUORIDE					
Volumetric		325.10	16	2.23	0.06
Distilled/Electrode		325.99	2	2.32	0.03
Method Group 325.XX PCT			18	2.24	0.08

001.99 Ammoniacal Nitrogen		
Lab		Other
79	17.76	-2.447
79	17.74	-2.214
31	17.68	-1.457
31	17.66	-1.223
81	17.65	-1.165
Std Dev	17.64	-1.000
32	17.63	-0.874
237	17.59	-0.408
32	17.58	-0.350
23	17.55	0.000
Median	17.55	0.000
34	17.55	0.058
113	17.54	0.157
24	17.54	0.175
24	17.54	0.175
140	17.52	0.350
23	17.48	0.816
Std Dev	17.46	1.000
55	17.20	4.078
38	17.04	6.001

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79	17.76	-2.447
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24	17.54	0.175
140	17.52	0.350
23	17.48	0.816
Std Dev	17.46	1.000
55	17.20	4.078

38	17.04	6.001
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005.99 Nitrogen from Urea		
Lab		Other
38	1.08	0.000
Median	1.08	0.000

005.XX Nitrogen from Urea		
Lab		Total Method
38	1.08	0.000
Median	1.08	0.000

007.00 Percent UREA		
Lab		Urease (as Urea)
55	1.45	0.000
Median	1.45	0.000

007.XX Percent UREA		
Lab		Total Method
55	1.45	0.000
Median	1.45	0.000

010.10 Total Nitrogen		
Lab		Reduced Iron
55	18.60	0.000
Median	18.60	0.000

010.60 Total Nitrogen		
Lab		Combustion
113	18.20	-1.941
113	18.15	-1.479
103	18.13	-1.294
Std Dev	18.10	-1.000
61	18.10	-0.970
61	18.07	-0.739
39	18.06	-0.647
79	18.02	-0.277
24	18.01	-0.139
110	18.00	-0.092
14	17.99	0.000
Median	17.99	0.000
14	17.95	0.370
63	17.95	0.370
29	17.94	0.508

79	17.93	0.554
24	17.91	0.739
Std Dev	17.88	1.000
237	17.87	1.155
80	17.80	1.756
38	17.80	1.802
140	17.76	2.172

010.99 Total Nitrogen		
Lab		Other
23	18.04	-1.340
Std Dev	18.02	-1.000
Median	17.98	0.000
Std Dev	17.93	1.000
23	17.92	1.340

010.XX Total Nitrogen		
Lab		Total Method
55	18.60	-5.450
113	18.20	-1.847
113	18.15	-1.396
103	18.13	-1.216
Std Dev	18.11	-1.000
61	18.10	-0.901
61	18.07	-0.676
39	18.06	-0.586
23	18.04	-0.405
79	18.02	-0.225
24	18.01	-0.090
110	18.00	-0.045
Median	18.00	0.000
14	17.99	0.045
14	17.95	0.405
63	17.95	0.405
29	17.94	0.541
79	17.93	0.586
23	17.92	0.721
24	17.91	0.766
Std Dev	17.88	1.000
237	17.87	1.171
80	17.80	1.757
38	17.80	1.802
140	17.76	2.162

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
241	49.31	-1.229
241	49.29	-1.220
Std Dev	48.78	-1.000
82	46.50	0.000
Median	46.50	0.000
113	46.22	0.120
113	46.16	0.149

020.20 Total Phosphate		
Lab		Spectrometric
55	47.20	-2.443
Std Dev	46.73	-1.000
81	46.72	-0.972
79	46.61	-0.636
14	46.60	-0.605
79	46.58	-0.544
14	46.58	-0.528
24	46.55	-0.436
31	46.53	-0.391
31	46.48	-0.222
34	46.42	-0.054
Median	46.40	0.000
24	46.39	0.054
23	46.31	0.299
23	46.21	0.605
61	46.17	0.712
140	46.15	0.789
61	46.12	0.865
Std Dev	46.08	1.000
16	46.01	1.190
32	45.98	1.309
32	45.90	1.554
38	45.82	1.799

020.40 Total Phosphate		
Lab		Automated
110	49.30	-2.520
Std Dev	47.68	-1.000
16	46.62	0.000
Median	46.62	0.000
82	46.45	0.160

020.XX Total Phosphate		
Lab	Total Method	
241	49.31	-8.731
110	49.30	-8.716
241	49.29	-8.670
55	47.20	-2.265
Std Dev	46.79	-1.000
81	46.72	-0.791
16	46.62	-0.484
79	46.61	-0.453
14	46.60	-0.422
79	46.58	-0.361
14	46.58	-0.346
24	46.55	-0.253
31	46.53	-0.207
82	46.50	-0.100
31	46.48	-0.038
Median	46.46	0.000
82	46.45	0.038
34	46.42	0.131
24	46.39	0.238
23	46.31	0.484
113	46.22	0.745
23	46.21	0.791
61	46.17	0.898
113	46.16	0.945
140	46.15	0.975
Std Dev	46.14	1.000
61	46.12	1.052
16	46.01	1.378
32	45.98	1.497
32	45.90	1.743
38	45.82	1.989

030.10 Insoluble Phosphate		
Lab	Gravimetric Quimociac	
113	0.22	0.000
Median	0.22	0.000

030.20 Insoluble Phosphate		
Lab	Spectrometric	
61	0.21	-2.903
79	0.14	-1.340
79	0.13	-1.117

Std Dev	0.12	-1.000
32	0.11	-0.670
32	0.09	-0.223
Median	0.08	0.000
23	0.07	0.223
23	0.07	0.335
140	0.07	0.335
Std Dev	0.04	1.000
24	0.04	1.005
24	0.03	1.117

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
31	0.20	-1.340
Std Dev	0.19	-1.000
Median	0.17	0.000
Std Dev	0.15	1.000
31	0.14	1.340

030.40 Insoluble Phosphate		
Lab	Automated	
16	0.39	-1.340
Std Dev	0.35	-1.000
Median	0.26	0.000
Std Dev	0.16	1.000
34	0.13	1.340

030.XX Insoluble Phosphate		
Lab	Total Method	
16	0.39	-3.417
113	0.22	-1.139
61	0.21	-1.072
Std Dev	0.20	-1.000
31	0.20	-0.871
31	0.14	-0.134
79	0.14	-0.134
34	0.13	0.000
79	0.13	0.000
Median	0.13	0.000
32	0.11	0.268
32	0.09	0.536
23	0.07	0.804
23	0.07	0.871
140	0.07	0.871

Std Dev	0.06	1.000
24	0.04	1.273
24	0.03	1.340

040.10 Indirect Available Phosphate		
Lab	Gravimetric Quimociac	
113	46.00	-1.340
Std Dev	45.99	-1.000
Median	45.97	0.000
Std Dev	45.95	1.000
113	45.94	1.340

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
24	46.52	-0.818
79	46.48	-0.731
79	46.44	-0.631
24	46.35	-0.406
31	46.34	-0.369
31	46.34	-0.369
23	46.24	-0.131
Median	46.19	0.000
23	46.14	0.131
140	46.08	0.269
32	45.89	0.756
Std Dev	45.79	1.000
32	45.79	1.006
16	45.63	1.393
61	17.89	70.723
61	17.86	70.786

040.99 Indirect Available Phosphate		
Lab	Other	
34	46.29	0.000
Median	46.29	0.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
24	46.52	-1.132
79	46.48	-1.027
Std Dev	46.47	-1.000
79	46.44	-0.908
24	46.35	-0.640
31	46.34	-0.596

31	46.34	-0.596
34	46.29	-0.462
23	46.24	-0.313
23	46.14	0.000
Median	46.14	0.000
140	46.08	0.164
113	46.00	0.402
113	45.94	0.581
32	45.89	0.744
Std Dev	45.80	1.000
32	45.79	1.042
16	45.63	1.504
61	17.89	84.122
61	17.86	84.197

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
79	46.31	-1.340
Std Dev	46.30	-1.000
Median	46.29	0.000
Std Dev	46.27	1.000
79	46.26	1.340

041.50 Direct Available Phosphate		
Lab	ICP	
39	49.27	-2.533
Std Dev	47.65	-1.000
80	46.60	0.000
Median	46.60	0.000
63	46.45	0.147

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
103	47.08	-0.366
29	46.89	0.000
Median	46.89	0.000
Std Dev	46.37	1.000
237	45.69	2.314

041.XX Direct Available Phosphate		
Lab	Total Method	
39	49.27	-5.753
103	47.08	-1.167
Std Dev	47.00	-1.000

29	46.89	-0.769
80	46.60	-0.162
Median	46.52	0.000
63	46.45	0.162
79	46.31	0.445
79	46.26	0.550
Std Dev	46.04	1.000
237	45.69	1.743

048.10 Water Soluble Phosphate		
Lab	Gravimetric Quimociac	
82	41.34	-1.376
Std Dev	41.31	-1.000
113	41.24	0.000
Median	41.24	0.000
Std Dev	41.17	1.000
113	41.15	1.304

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
31	41.95	-1.481
31	41.90	-1.293
81	41.87	-1.162
Std Dev	41.82	-1.000
24	41.74	-0.693
23	41.73	-0.656
32	41.72	-0.618
24	41.70	-0.543
23	41.57	-0.037
Median	41.56	0.000
140	41.55	0.037
32	41.47	0.337
79	41.42	0.506
79	41.40	0.581
61	41.30	0.956
Std Dev	41.29	1.000
61	41.19	1.387
82	41.14	1.574
16	40.65	3.407

048.99 Water Soluble Phosphate		
Lab	Other	
34	41.29	-1.340
Std Dev	41.27	-1.000

Median	41.20	0.000
Std Dev	41.12	1.000
16	41.10	1.340

048.XX Water Soluble Phosphate		
Lab	Total Method	
31	41.95	-1.480
31	41.90	-1.340
81	41.87	-1.242
Std Dev	41.78	-1.000
24	41.74	-0.893
23	41.73	-0.865
32	41.72	-0.837
24	41.70	-0.782
23	41.57	-0.405
140	41.55	-0.349
32	41.47	-0.126
79	41.42	0.000
Median	41.42	0.000
79	41.40	0.056
82	41.34	0.237
61	41.30	0.335
34	41.29	0.363
113	41.24	0.503
61	41.19	0.656
113	41.15	0.754
82	41.14	0.796
16	41.10	0.893
Std Dev	41.06	1.000
16	40.65	2.161

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

050.61 Soluble Potash		
Lab	Flame Photometric(Citrate)	
29	1.17	0.000
Median	1.17	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
80	0.20	-11.792
24	0.15	-1.072
61	0.15	-1.072
Std Dev	0.15	-1.000
31	0.15	0.000
31	0.15	0.000
61	0.15	0.000
Median	0.15	0.000
Std Dev	0.14	1.000
24	0.14	1.072
81	0.13	3.216

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
29	1.17	-182.240
80	0.20	-9.827
Std Dev	0.15	-1.000
23	0.15	-0.893
24	0.15	-0.893
61	0.15	-0.893
31	0.15	0.000
31	0.15	0.000
61	0.15	0.000
Median	0.15	0.000
23	0.14	0.893
24	0.14	0.893
Std Dev	0.14	1.000
81	0.13	2.680

060.00 Free Water		
Lab	Vacuum Oven	
16	2.52	-1.803
24	2.24	-1.005
Std Dev	2.24	-1.000
31	2.20	-0.877
24	2.13	-0.677
113	2.10	-0.606
140	2.04	-0.421
31	1.96	-0.192
23	1.92	-0.093
Median	1.89	0.000
23	1.86	0.093

34	1.74	0.421
32	1.72	0.492
61	1.66	0.649
32	1.57	0.919
79	1.54	0.991
79	1.54	0.991
Std Dev	1.54	1.000
61	1.52	1.048

060.20 Free Water		
Lab	Karl Fisher	
55	1.45	0.000
Median	1.45	0.000

060.99 Free Water		
Lab	Other	
14	1.96	-1.340
Std Dev	1.95	-1.000
Median	1.92	0.000
Std Dev	1.88	1.000
14	1.87	1.340

060.XX Free Water		
Lab	Total Method	
16	2.52	-1.914
24	2.24	-1.090
Std Dev	2.21	-1.000
31	2.20	-0.957
24	2.13	-0.751
113	2.10	-0.677
140	2.04	-0.486
14	1.96	-0.265
31	1.96	-0.250
23	1.92	-0.147
14	1.87	0.000
Median	1.87	0.000
23	1.86	0.044
34	1.74	0.383
32	1.72	0.456
61	1.66	0.618
32	1.57	0.898
79	1.54	0.972
79	1.54	0.972
Std Dev	1.53	1.000

61	1.52	1.031
55	1.45	1.237
101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
237	0.74	-8.773
24	0.45	-1.072
81	0.45	-1.072
Std Dev	0.45	-1.000
24	0.45	-0.938
61	0.44	-0.804
61	0.44	-0.670
32	0.43	-0.402
31	0.42	-0.134
23	0.41	0.000
31	0.41	0.000
34	0.41	0.000
Median	0.41	0.000
32	0.40	0.268
23	0.39	0.536
16	0.38	0.710
82	0.38	0.938
Std Dev	0.37	1.000
14	0.31	2.680
14	0.31	2.680

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
237	0.74	-8.773
24	0.45	-1.072
81	0.45	-1.072
Std Dev	0.45	-1.000
24	0.45	-0.938
61	0.44	-0.804
61	0.44	-0.670
32	0.43	-0.402
31	0.42	-0.134
23	0.41	0.000
31	0.41	0.000
34	0.41	0.000
Median	0.41	0.000
32	0.40	0.268
23	0.39	0.536
16	0.38	0.710

82	0.38	0.938
Std Dev	0.37	1.000
14	0.31	2.680
14	0.31	2.680

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
34	0.92	-1.531
Std Dev	0.91	-1.000
31	0.90	-0.574
24	0.89	-0.383
31	0.89	-0.383
32	0.89	-0.383
16	0.89	-0.287
61	0.89	-0.191
23	0.88	0.000
24	0.88	0.000
61	0.88	0.000
Median	0.88	0.000
23	0.87	0.383
81	0.87	0.383
32	0.86	0.957
Std Dev	0.85	1.000
237	0.83	1.855
82	0.82	2.489
14	0.53	13.400
14	0.53	13.400

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
34	0.92	-1.531
Std Dev	0.91	-1.000
31	0.90	-0.574
24	0.89	-0.383
31	0.89	-0.383
32	0.89	-0.383
16	0.89	-0.287
61	0.89	-0.191
23	0.88	0.000
24	0.88	0.000
61	0.88	0.000
Median	0.88	0.000
23	0.87	0.383
81	0.87	0.383

32	0.86	0.957
Std Dev	0.85	1.000
237	0.83	1.855
82	0.82	2.489
14	0.53	13.400
14	0.53	13.400

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
241	1.74	-1.337
241	1.73	-1.304
Std Dev	1.68	-1.000
16	1.61	-0.528
113	1.53	0.000
113	1.53	0.000
Median	1.53	0.000
79	1.40	0.848
79	1.40	0.848

144.70 Sulfur		
Lab	Spectrometric	
16	1.45	0.000
Median	1.45	0.000

144.99 Sulfate Sulfur (S)		
Lab	Other	
24	1.52	-1.936
23	1.50	-1.340
81	1.50	-1.340
24	1.50	-1.191
Std Dev	1.49	-1.000
34	1.48	-0.744
61	1.46	-0.149
23	1.46	0.000
32	1.46	0.000
61	1.46	0.000
Median	1.46	0.000
31	1.45	0.149
32	1.45	0.149
Std Dev	1.42	1.000
31	1.42	1.191
237	1.37	2.457

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
241	1.74	-5.264
241	1.73	-5.169
16	1.61	-2.891
113	1.53	-1.340
113	1.53	-1.340
24	1.52	-1.149
Std Dev	1.51	-1.000
23	1.50	-0.766
81	1.50	-0.766
24	1.50	-0.670
34	1.48	-0.383
61	1.46	0.000
Median	1.46	0.000
23	1.46	0.096
32	1.46	0.096
61	1.46	0.096
31	1.45	0.191
32	1.45	0.191
16	1.45	0.287
31	1.42	0.861
Std Dev	1.41	1.000
79	1.40	1.149
79	1.40	1.149
237	1.37	1.675

145.99 Total Sulfur (S)		
Lab	Other	
113	1.59	-0.225
113	1.57	-0.207
82	1.41	0.000
Median	1.41	0.000
Std Dev	0.61	1.000
14	0.50	1.133
14	0.50	1.133

145.XX Total Sulfur (S)		
Lab	Total Method	
113	1.59	-0.225
113	1.57	-0.207
82	1.41	0.000
Median	1.41	0.000
Std Dev	0.61	1.000

14	0.50	1.133
14	0.50	1.133
151.30		Total Arsenic
Lab	PPM	ICP
237	17.22	-5.552
81	14.00	-2.680
113	12.50	-1.340
Std Dev	12.12	-1.000
140	12.06	-0.947
61	11.00	0.000
61	11.00	0.000
113	11.00	0.000
Median	11.00	0.000
Std Dev	9.88	1.000
31	8.50	2.233
31	8.50	2.233

151.XX		Total Arsenic
Lab	PPM	Total Method
237	17.22	-5.552
81	14.00	-2.680
113	12.50	-1.340
Std Dev	12.12	-1.000
140	12.06	-0.947
61	11.00	0.000
61	11.00	0.000
113	11.00	0.000
Median	11.00	0.000
Std Dev	9.88	1.000
31	8.50	2.233
31	8.50	2.233

181.30		Total Cadmium
Lab	PPM	ICP
237	4.58	-2.563
Std Dev	3.84	-1.000
81	3.80	-0.915
16	3.75	-0.808
113	3.37	0.000
Median	3.37	0.000
113	3.29	0.170
61	3.00	0.787
61	3.00	0.787

181.XX		Total Cadmium
Lab	PPM	Total Method
237	4.58	-2.563
Std Dev	3.84	-1.000
81	3.80	-0.915
16	3.75	-0.808
113	3.37	0.000
Median	3.37	0.000
113	3.29	0.170
61	3.00	0.787
61	3.00	0.787

190.00		Aluminum
Lab	%Al ₂ O ₃	ICP
31	1.89	-2.444
16	1.86	-2.105
31	1.80	-1.025
Std Dev	1.79	-1.000
34	1.79	-0.946
81	1.77	-0.631
24	1.76	-0.394
24	1.75	-0.236
23	1.74	-0.079
23	1.73	0.000
Median	1.73	0.000
32	1.70	0.552
237	1.69	0.568
61	1.69	0.709
61	1.69	0.709
Std Dev	1.67	1.000
82	1.65	1.340
32	1.63	1.576
14	0.95	12.296
14	0.95	12.296

190.XX		Aluminum
Lab	%Al ₂ O ₃	Total Method
31	1.89	-2.444
16	1.86	-2.105
31	1.80	-1.025
Std Dev	1.79	-1.000
34	1.79	-0.946
81	1.77	-0.631

24	1.76	-0.394
24	1.75	-0.236
23	1.74	-0.079
23	1.73	0.000
Median	1.73	0.000
32	1.70	0.552
237	1.69	0.568
61	1.69	0.709
61	1.69	0.709
Std Dev	1.67	1.000
82	1.65	1.340
32	1.63	1.576
14	0.95	12.296
14	0.95	12.296

191.30		Total Chromium
Lab	PPM	ICP
31	87.65	-0.868
61	85.50	-0.497
81	84.00	-0.239
61	83.50	-0.152
31	82.95	-0.057
Median	82.62	0.000
16	82.29	0.057
237	81.98	0.110
Std Dev	76.82	1.000
113	74.15	1.461
113	73.75	1.530
82	66.70	2.746

191.XX		Total Chromium
Lab	PPM	Total Method
31	87.65	-0.868
61	85.50	-0.497
81	84.00	-0.239
61	83.50	-0.152
31	82.95	-0.057
Median	82.62	0.000
16	82.29	0.057
237	81.98	0.110
Std Dev	76.82	1.000
113	74.15	1.461
113	73.75	1.530
82	66.70	2.746

202.30		Acid Soluble Cobalt
Lab	PPM	ICP

202.XX		Acid Soluble Cobalt
Lab	PPM	Total Method
237	4.53	-3.838
81	3.50	-1.488
Std Dev	3.29	-1.000
16	3.20	-0.804
113	2.90	-0.108
Median	2.85	0.000
82	2.80	0.108
113	2.75	0.222
61	2.50	0.793
Std Dev	2.41	1.000
61	2.00	1.933

221.30		Acid Soluble Copper
Lab	PPM	ICP
61	<2	0.000
61	<2	0.000
16	4.72	-2.253
Std Dev	4.04	-1.000
81	3.50	0.000
Median	3.50	0.000
237	3.27	0.427

221.XX		Acid Soluble Copper
Lab	PPM	Total Method
61	<2	0.000
61	<2	0.000
16	4.72	-2.253
Std Dev	4.04	-1.000
81	3.50	0.000
Median	3.50	0.000
237	3.27	0.427

241.30		Acid Soluble Iron
Lab	%Fe ₂ O ₃	ICP
31	1.40	-1.237
24	1.39	-1.031
Std Dev	1.38	-1.000
24	1.38	-0.825

81	1.37	-0.722
16	1.37	-0.618
34	1.35	-0.309
23	1.34	-0.103
23	1.34	-0.103
31	1.34	0.000
32	1.34	0.000
61	1.34	0.000
Median	1.34	0.000
61	1.33	0.206
32	1.30	0.722
Std Dev	1.29	1.000
237	1.28	1.206
82	1.27	1.340
14	0.93	8.349
14	0.93	8.349

241.XX Lab	%Fe ₂ O ₃	Acid Soluble Iron Total Method
31	1.40	-1.237
24	1.39	-1.031
Std Dev	1.38	-1.000
24	1.38	-0.825
81	1.37	-0.722
16	1.37	-0.618
34	1.35	-0.309
23	1.34	-0.103
23	1.34	-0.103
31	1.34	0.000
32	1.34	0.000
61	1.34	0.000
Median	1.34	0.000
61	1.33	0.206
32	1.30	0.722
Std Dev	1.29	1.000
237	1.28	1.206
82	1.27	1.340
14	0.93	8.349
14	0.93	8.349

251.30 Lab	PPM	Total Lead ICP
237	9.94	-25.951
61	2.00	-2.323

Std Dev	1.56	-1.000
31	1.45	-0.685
31	1.35	-0.387
16	1.22	0.000
Median	1.22	0.000
61	1.00	0.655
81	1.00	0.655
Std Dev	0.88	1.000
113	0.00	3.633
113	0.00	3.633

251.XX Lab	PPM	Total Lead Total Method
237	9.94	-25.951
61	2.00	-2.323
Std Dev	1.56	-1.000
31	1.45	-0.685
31	1.35	-0.387
16	1.22	0.000
Median	1.22	0.000
61	1.00	0.655
81	1.00	0.655
Std Dev	0.88	1.000
113	0.00	3.633
113	0.00	3.633

261.30 Lab	Acid Soluble Manganese ICP
31	363.00 -2.099
237	351.91 -1.131
Std Dev	350.41 -1.000
31	348.50 -0.834
61	339.50 -0.048
Median	338.95 0.000
16	338.40 0.048
61	335.00 0.345
81	331.00 0.694
Std Dev	327.49 1.000
82	282.00 4.971

261.XX Lab	PPM	Acid Soluble Manganese Total Method
31	363.00	-2.099
237	351.91	-1.131

Std Dev	350.41	-1.000
31	348.50	-0.834
61	339.50	-0.048
Median	338.95	0.000
16	338.40	0.048
61	335.00	0.345
81	331.00	0.694
Std Dev	327.49	1.000
82	282.00	4.971

289.30 Lab	PPM	Total Molybdenum ICP
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289.XX Lab	PPM	Total Molybdenum Total Method
81	25.50	-5.095
61	17.00	-1.255
Std Dev	16.44	-1.000
61	16.00	-0.803
237	14.65	-0.191
Median	14.22	0.000
31	13.80	0.191
31	13.50	0.326
16	12.64	0.717
Std Dev	12.01	1.000
82	11.55	1.207

291.30 Lab	Total Nickel ICP
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291.99 Lab	PPM	Total Nickel Other
31		
31	19.10	0.000
Median	19.10	0.000

291.XX Lab	PPM	Total Nickel Total Method
31	22.45	-3.147
31	19.10	-1.883
Std Dev	16.76	-1.000
237	16.66	-0.962
82	15.35	-0.469
16	14.51	-0.153
Median	14.11	0.000

113	13.70	0.153
81	13.00	0.417
113	12.70	0.530
Std Dev	11.45	1.000
61	11.00	1.171
61	11.00	1.171

301.30 Lab	PPM	Total Selenium ICP
237	12.85	-2.680
Std Dev	4.79	-1.000
113	0.00	0.000
113	0.00	0.000
Median	0.00	0.000

301.XX Lab	PPM	Total Selenium Total Mthod
237	12.85	-2.680
Std Dev	4.79	-1.000
113	0.00	0.000
113	0.00	0.000
Median	0.00	0.000

311.30 Lab	%Na ₂ O	Sodium Flame Photometric
237	0.41	0.000
Median	0.41	0.000

311.99 Lab	%Na ₂ O	Sodium Other
31	0.25	-1.787
23	0.24	-1.072
Std Dev	0.23	-1.000
82	0.23	-0.715
31	0.23	-0.357
23	0.22	0.000
24	0.22	0.000
Median	0.22	0.000
24	0.21	0.715
61	0.21	0.715
61	0.21	0.715
Std Dev	0.21	1.000
81	0.19	2.144

311.XX		Sodium	
Lab	%Na ₂ O	Total Method	
237	0.41	-11.244	
31	0.25	-1.489	
Std Dev	0.24	-1.000	
23	0.24	-0.893	
82	0.23	-0.596	
31	0.23	-0.298	
23	0.22	0.000	
24	0.22	0.000	
Median	0.22	0.000	
24	0.21	0.596	
61	0.21	0.596	
61	0.21	0.596	
Std Dev	0.20	1.000	
81	0.19	1.787	

321.30		Acid Soluble Zinc	
Lab	PPM	ICP	
31	135.00	-5.187	
31	124.50	-4.253	
Std Dev	87.97	-1.000	
81	87.00	-0.913	
113	81.80	-0.450	
237	77.94	-0.106	
Median	76.74	0.000	
82	75.55	0.106	
113	74.60	0.191	
16	69.34	0.660	
Std Dev	65.51	1.000	
61	45.50	2.782	
61	41.50	3.138	

321.XX		Acid Soluble Zinc	
Lab	PPM	Total Method	
31	135.00	-5.187	
31	124.50	-4.253	
Std Dev	87.97	-1.000	
81	87.00	-0.913	
113	81.80	-0.450	
237	77.94	-0.106	
Median	76.74	0.000	
82	75.55	0.106	
113	74.60	0.191	

16	69.34	0.660
Std Dev	65.51	1.000
61	45.50	2.782
61	41.50	3.138

325.10		Fluoride	
Lab	%	Electrode	
79	2.31	-1.361	
14	2.29	-1.031	
32	2.29	-1.031	
79	2.29	-1.031	
31	2.27	-0.701	
23	2.25	-0.371	
32	2.25	-0.371	
82	2.24	-0.124	
Median	2.23	0.000	
16	2.22	0.124	
23	2.22	0.206	
34	2.21	0.289	
24	2.20	0.536	
24	2.19	0.618	
31	2.17	0.948	
81	2.08	2.515	
14	1.99	3.917	

325.99		Fluoride	
Lab	%	Other	
61	2.36	-1.340	
Median	2.32	0.000	
61	2.28	1.340	

325.XX		Fluoride	
Lab	%	Total Method	
61	2.36	-1.774	
79	2.31	-1.019	
14	2.29	-0.717	
32	2.29	-0.717	
79	2.29	-0.717	
61	2.28	-0.566	
31	2.27	-0.415	
23	2.25	-0.113	
32	2.25	-0.113	
Median	2.24	0.000	
82	2.24	0.113	

16	2.22	0.340
23	2.22	0.415
34	2.21	0.491
24	2.20	0.717
24	2.19	0.793
31	2.17	1.095
81	2.08	2.529
14	1.99	3.812