

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
18	17.84	-1.099
Std Dev	17.83	-1.000
237	17.80	-0.550
Median	17.76	0.000
123	17.72	0.550
49	17.69	0.962

001.99 Ammoniacal Nitrogen		
Lab	Other	
24	18.04	-0.906
124	18.00	-0.631
24	17.97	-0.394
61	17.96	-0.276
61	17.95	-0.197
18	17.94	-0.158
31	17.92	0.000
Median	17.92	0.000
28	17.90	0.197
34	17.85	0.552
Std Dev	17.79	1.000
140	17.79	1.064
32	17.75	1.340
28	17.62	2.404
38	17.08	6.621

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
24	18.04	-1.271
124	18.00	-1.031
Std Dev	18.00	-1.000
24	17.97	-0.825
61	17.96	-0.722
61	17.95	-0.653
18	17.94	-0.618
31	17.92	-0.481
28	17.90	-0.309
34	17.85	0.000
Median	17.85	0.000
18	17.84	0.069
237	17.80	0.344
140	17.79	0.447
32	17.75	0.687

123	17.72	0.893
Std Dev	17.70	1.000
49	17.69	1.099
28	17.62	1.615
38	17.08	5.291

010.11 Total Nitrogen		
Lab	Modified Comprehensive	
18	18.13	-2.247
113	18.05	-1.546
Std Dev	17.98	-1.000
43	17.86	-0.021
Median	17.86	0.000
43	17.86	0.021
140	17.83	0.227
Std Dev	17.74	1.000
49	17.73	1.093

010.12 Total Nitrogen		
Lab	Salicylic	
107	17.68	0.000
Median	17.68	0.000

010.60 Total Nitrogen		
Lab	Combustion	
64	18.37	-4.153
39	18.17	-1.855
47	18.15	-1.561
99	18.13	-1.325
29	18.11	-1.090
Std Dev	18.10	-1.000
65	18.06	-0.560
63	18.05	-0.442
9	18.04	-0.324
102	18.04	-0.324
77	18.03	-0.147
14	18.02	-0.029
38	18.02	-0.029
Median	18.01	0.000
14	18.01	0.029
24	18.01	0.088
24	18.00	0.206
63	17.99	0.265
237	17.95	0.736

44	17.94	0.854
49	17.94	0.913
79	17.94	0.913
Std Dev	17.93	1.000
111	17.86	1.796
123	17.76	2.975
80	17.70	3.681
96	17.50	6.037

010.99 Total Nitrogen		
Lab	Other	
95	18.20	-1.624
242	18.13	-1.015
Std Dev	18.12	-1.000
34	18.02	-0.162
40	18.00	0.000
Median	18.00	0.000
32	18.00	0.041
Std Dev	17.88	1.000
23	17.82	1.462
23	17.81	1.543

010.XX Total Nitrogen		
Lab	Total Method	
64	18.37	-2.574
95	18.20	-1.402
39	18.17	-1.189
47	18.15	-1.012
Std Dev	18.14	-1.000
18	18.13	-0.905
99	18.13	-0.870
242	18.13	-0.870
29	18.11	-0.728
65	18.06	-0.408
63	18.05	-0.337
113	18.05	-0.302
9	18.04	-0.266
102	18.04	-0.266
77	18.03	-0.160
34	18.02	-0.124
14	18.02	-0.089
38	18.02	-0.089
14	18.01	-0.053
24	18.01	-0.018

Median	18.00	0.000
40	18.00	0.018
24	18.00	0.053
32	18.00	0.053
63	17.99	0.089
237	17.95	0.373
44	17.94	0.444
49	17.94	0.479
79	17.94	0.479
Std Dev	17.86	1.000
43	17.86	1.012
111	17.86	1.012
43	17.86	1.047
140	17.83	1.225
23	17.82	1.296
23	17.81	1.367
123	17.76	1.722
49	17.73	1.970
80	17.70	2.148
107	17.68	2.325
96	17.50	3.567

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
40	47.46	-2.795
Std Dev	46.91	-1.000
18	46.68	-0.230
Median	46.61	0.000
79	46.54	0.230
Std Dev	46.31	1.000
241	46.25	1.184

020.20 Total Phosphate		
Lab	Spectrometric	
24	46.67	-2.172
244	46.60	-1.740
34	46.51	-1.186
99	46.49	-1.063
Std Dev	46.48	-1.000
61	46.46	-0.878
18	46.44	-0.755
24	46.43	-0.662
61	46.43	-0.662
9	46.41	-0.570

43	46.41	-0.570
23	46.37	-0.323
23	46.35	-0.200
Median	46.32	0.000
14	46.29	0.200
32	46.29	0.200
14	46.27	0.293
237	46.25	0.416
140	46.24	0.508
31	46.22	0.631
43	46.20	0.724
113	46.19	0.816
Std Dev	46.16	1.000
95	46.10	1.340
102	46.01	1.894
110	45.85	2.880
242	43.95	14.586

020.30		Total Phosphate
Lab		Alka. Quimociac
111	45.96	0.000
Median	45.96	0.000

020.40		Total Phosphate
Lab		Automated
28	46.80	-0.166
28	46.71	0.000
Median	46.71	0.000
Std Dev	46.17	1.000
96	45.35	2.514

020.50		Total Phosphate
Lab		ICP
9	46.49	0.000
Median	46.49	0.000

020.99		Total Phosphate
Lab		Other
123	46.61	-1.340
Std Dev	46.52	-1.000
Median	46.28	0.000
Std Dev	46.03	1.000
124	45.95	1.340

020.XX		Total Phosphate
Lab		Total Method
40	47.46	-4.994
28	46.80	-1.970
28	46.71	-1.558
18	46.68	-1.420
24	46.67	-1.374
123	46.61	-1.077
244	46.60	-1.054
Std Dev	46.59	-1.000

79	46.54	-0.779
34	46.51	-0.641
9	46.49	-0.550
99	46.49	-0.550
61	46.46	-0.412
18	46.44	-0.321
24	46.43	-0.252
61	46.43	-0.252
9	46.41	-0.183
43	46.41	-0.183
23	46.37	0.000
Median	46.37	0.000

23	46.35	0.092
14	46.29	0.389
32	46.29	0.389
14	46.27	0.458
237	46.25	0.550
241	46.25	0.550
140	46.24	0.618
31	46.22	0.710
43	46.20	0.779
113	46.19	0.848
Std Dev	46.15	1.000
95	46.10	1.237
102	46.01	1.649
111	45.96	1.878
124	45.95	1.924
110	45.85	2.382
96	45.35	4.673
242	43.95	11.086

030.10		Insoluble Phosphate
Lab		Gravimetric Quimociac
79	0.06	0.000

Median	0.06	0.000
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030.20		Insoluble Phosphate
Lab		Spectrometric

61	0.19	-4.232
31	0.18	-3.855
24	0.10	-1.034
32	0.10	-1.034
Std Dev	0.10	-1.000
18	0.09	-0.658
23	0.09	-0.658
43	0.09	-0.508
24	0.08	-0.282
Median	0.07	0.000
23	0.07	0.282
61	0.07	0.282
113	0.06	0.470
43	0.06	0.564
140	0.06	0.658
Std Dev	0.05	1.000
14	0.04	1.411
14	0.03	1.599
123	0.02	2.163

030.30		Insoluble Phosphate
Lab		Alka. Quimociac

9	0.08	0.000
Median	0.08	0.000

030.40		Insoluble Phosphate
Lab		Automated

34	0.12	0.000
Median	0.12	0.000

030.99		Insoluble Phosphate
Lab		Other

124	2.53	-2.470
Std Dev	1.23	-1.000
28	0.35	0.000
Median	0.35	0.000
28	0.17	0.210

030.XX		Insoluble Phosphate
Lab		Total Method

124	2.53	-58.035
28	0.35	-6.332
61	0.19	-2.419
31	0.18	-2.182
28	0.17	-1.945
Std Dev	0.13	-1.000
34	0.12	-0.925
24	0.10	-0.403
32	0.10	-0.403
18	0.09	-0.166
23	0.09	-0.166
43	0.09	-0.071
Median	0.08	0.000
9	0.08	0.071
24	0.08	0.071
23	0.07	0.427
61	0.07	0.427
79	0.06	0.545
113	0.06	0.545
43	0.06	0.605
140	0.06	0.664
Std Dev	0.04	1.000
14	0.04	1.138
14	0.03	1.257
123	0.02	1.613

040.10		Indirect Available Phosphate
Lab		Gravimetric Quimociac

79	46.48	0.000
Median	46.48	0.000

040.20		Indirect Available Phosphate
Lab		Spectrometric

123	46.59	-2.769
24	46.57	-2.591
Std Dev	46.39	-1.000
9	46.36	-0.715
61	46.36	-0.715
43	46.36	-0.670
24	46.35	-0.581
23	46.29	-0.045
23	46.28	0.000
Median	46.28	0.000
61	46.28	0.045

14	46.26	0.223
14	46.24	0.402
140	46.18	0.893
Std Dev	46.17	1.000
113	46.13	1.385
31	46.04	2.144
43	45.80	4.333

040.40 Indirect Available Phosphate		
Lab	Automated	
28	46.63	-1.340
Std Dev	46.60	-1.000
Median	46.50	0.000
Std Dev	46.39	1.000
28	46.36	1.340

040.50 Indirect Available Phosphate		
Lab	ICP	
9	46.41	0.000
Median	46.41	0.000

040.99 Indirect Available Phosphate		
Lab	Other	
38	46.53	-1.340
Std Dev	46.51	-1.000
Median	46.45	0.000
Std Dev	46.39	1.000
34	46.37	1.340

040.XX Indirect Available Phosphate		
Lab	Total Method	
28	46.63	-2.377
123	46.59	-2.032
24	46.57	-1.859
38	46.53	-1.470
79	46.48	-1.081
Std Dev	46.47	-1.000
9	46.41	-0.475
34	46.37	-0.130
9	46.36	-0.043
28	46.36	-0.043
61	46.36	-0.043
43	46.36	0.000
Median	46.36	0.000

24	46.35	0.086
23	46.29	0.605
23	46.28	0.648
61	46.28	0.692
14	46.26	0.865
Std Dev	46.24	1.000
14	46.24	1.037
140	46.18	1.513
113	46.13	1.988
31	46.04	2.723
43	45.80	4.841

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
119	47.60	-2.600
Std Dev	47.00	-1.000
107	46.89	-0.693
47	46.84	-0.573
44	46.63	0.000
Median	46.63	0.000
39	46.41	0.573
65	46.31	0.840
Std Dev	46.25	1.000
49	46.25	1.013

041.20 Direct Available Phosphate		
Lab	Spectrometric	
237	46.00	0.000
Median	46.00	0.000

041.40 Direct Available Phosphate		
Lab	Automated	
39	46.43	-1.340
Std Dev	46.42	-1.000
Median	46.38	0.000
Std Dev	46.34	1.000
49	46.33	1.340

041.50 Direct Available Phosphate		
Lab	ICP	
80	47.85	-2.572
Std Dev	46.98	-1.000
63	46.42	0.000
Median	46.42	0.000

63 46.36 0.108		
041.60 Direct Available Phosphate		
Lab	EDTA Extract	
64	46.67	-0.900
29	46.61	-0.450
Median	46.55	0.000
65	46.49	0.450
Std Dev	46.42	1.000
77	46.32	1.762

041.99 Direct Available Phosphate		
Lab	Other	
124	43.42	0.000
Median	43.42	0.000

041.XX Direct Available Phosphate		
Lab	Total Method	
80	47.85	-5.616
119	47.60	-4.631
107	46.89	-1.813
47	46.84	-1.636
Std Dev	46.68	-1.000
64	46.67	-0.966
44	46.63	-0.788
29	46.61	-0.729
65	46.49	-0.256
39	46.43	-0.020
Median	46.43	0.000
63	46.42	0.020
39	46.41	0.059
63	46.36	0.256
49	46.33	0.374
77	46.32	0.434
65	46.31	0.453
49	46.25	0.709
Std Dev	46.17	1.000
237	46.00	1.675
124	43.42	11.843

048.10 Water Soluble Phosphate		
Lab	Gravimetric Quimociac	
79	42.26	0.000
Median	42.26	0.000

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
113	42.91	-1.715
23	42.76	-1.179
31	42.75	-1.126
Std Dev	42.71	-1.000
9	42.69	-0.929
18	42.66	-0.804
43	42.58	-0.536
140	42.45	-0.054
23	42.44	-0.036
43	42.43	0.000
61	42.43	0.000
Median	42.43	0.000
24	42.39	0.143
32	42.39	0.161
61	42.28	0.536
Std Dev	42.15	1.000
24	42.04	1.411
244	41.80	2.251
14	41.73	2.501
14	41.73	2.501

048.30 Water Soluble Phosphate		
Lab	Alka. Quimociac	
111	41.37	0.000
Median	41.37	0.000

048.99 Water Soluble Phosphate		
Lab	Other	
123	43.96	-2.316
Std Dev	42.98	-1.000
34	42.24	0.000
Median	42.24	0.000
124	41.97	0.364

048.XX Water Soluble Phosphate		
Lab	Total Method	
123	43.96	-3.776
113	42.91	-1.218
Std Dev	42.82	-1.000
23	42.76	-0.853
31	42.75	-0.816

9	42.69	-0.682
18	42.66	-0.597
43	42.58	-0.414
140	42.45	-0.085
23	42.44	-0.073
43	42.43	-0.049
61	42.43	-0.049
Median	42.41	0.000
24	42.39	0.049
32	42.39	0.061
61	42.28	0.317
79	42.26	0.365
34	42.24	0.414
24	42.04	0.914
Std Dev	42.00	1.000
124	41.97	1.072
244	41.80	1.486
14	41.73	1.657
14	41.73	1.657
111	41.37	2.534

050.50	%K ₂ O	Soluble Potash ICP(Oxalate)
Lab		
23	0.17	0.000
23	0.17	0.000
Median	0.17	0.000

050.60	%K ₂ O	Soluble Potash Flame Photometric(Oxalate)
Lab		
241	0.12	0.000
Median	0.12	0.000

050.99	%K ₂ O	Soluble Potash Other
Lab		
61	0.24	-6.112
61	0.20	-3.256
Std Dev	0.16	-1.000
43	0.16	-0.669
43	0.16	-0.626
102	0.15	0.000
Median	0.15	0.000
24	0.15	0.314
24	0.14	0.671
28	0.14	0.671

28	0.14	0.957
050.XX	%K ₂ O	Soluble Potash Total Method
Lab		
61	0.24	0.000
61	0.20	0.000
23	0.17	0.000
23	0.17	0.000
Std Dev	0.00	-1.000
43	0.16	0.000
43	0.16	0.000
Median	0.00	0.000
102	0.15	0.000
24	0.15	0.000
24	0.14	0.000
28	0.14	0.000
28	0.14	0.000
Std Dev	0.00	1.000
241	0.12	0.000

060.00	Free Water Vacuum Oven
Lab	
242	10.82
28	2.48
28	2.47
Std Dev	2.35
24	2.29
123	2.27
140	2.26
31	2.25
32	2.22
24	2.21
23	2.19
18	2.17
Median	2.17
23	2.15
43	2.11
43	2.07
9	2.04
34	2.02
Std Dev	1.99
111	1.96
79	1.95
113	1.93

14	1.80	2.110
14	1.78	2.252
060.10	Free Water Vacuum Desiccate	
Lab		
61	2.14	
61	2.09	
Median	2.07	
241	2.05	
Std Dev	1.98	
237	1.78	

060.99	Free Water Other
Lab	
124	1.16
Median	1.16

060.XX	Free Water Total Method
Lab	
242	10.82
28	2.48
28	2.47
Std Dev	2.32
24	2.29
123	2.27
140	2.26
31	2.25
32	2.22
24	2.21
23	2.19
18	2.17
23	2.15
61	2.14
Median	2.12
43	2.11
61	2.09
43	2.07
241	2.05
9	2.04
34	2.02
111	1.96
79	1.95
113	1.93
Std Dev	1.92

14	1.80	1.603
237	1.78	1.703
14	1.78	1.728
124	1.16	4.809

101.30	%CaO	Acid Soluble Calcium ICP
Lab		
28	0.36	-3.306
124	0.33	-2.330
61	0.31	-1.602
31	0.30	-1.457
61	0.29	-1.165
Std Dev	0.28	-1.000
23	0.28	-0.874
24	0.27	-0.583
34	0.26	-0.379
79	0.26	-0.291
14	0.25	0.000
14	0.25	0.000
23	0.25	0.000
24	0.25	0.000
Median	0.25	0.000
237	0.25	0.146
28	0.24	0.262
39	0.23	0.466
32	0.23	0.583
43	0.23	0.629
43	0.23	0.653
102	0.23	0.698
9	0.22	0.874

101.XX	%CaO	Acid Soluble Calcium Total Method
Lab		
28	0.36	-3.306
124	0.33	-2.330
61	0.31	-1.602
31	0.30	-1.457
61	0.29	-1.165
Std Dev	0.28	-1.000
23	0.28	-0.874
24	0.27	-0.583
34	0.26	-0.379
79	0.26	-0.291
14	0.25	0.000

14	0.25	0.000
23	0.25	0.000
24	0.25	0.000
Median	0.25	0.000
237	0.25	0.146
28	0.24	0.262
39	0.23	0.466
32	0.23	0.583
43	0.23	0.629
43	0.23	0.653
102	0.23	0.698
9	0.22	0.874

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP

124	1.06	-3.779
24	0.95	-1.804
Std Dev	0.90	-1.000
34	0.88	-0.687
23	0.87	-0.515
24	0.87	-0.429
28	0.87	-0.429
28	0.86	-0.309
23	0.86	-0.258
31	0.85	-0.172
79	0.85	-0.086
9	0.84	0.000
Median	0.84	0.000
14	0.83	0.172
14	0.83	0.172
237	0.83	0.258
32	0.79	0.859
39	0.79	0.911
Std Dev	0.78	1.000
61	0.78	1.117
61	0.77	1.203
102	0.77	1.213
43	0.74	1.718
43	0.73	1.976

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method

124	1.06	-3.779
24	0.95	-1.804

Std Dev	0.90	-1.000
34	0.88	-0.687
23	0.87	-0.515
24	0.87	-0.429
28	0.87	-0.429
28	0.86	-0.309
23	0.86	-0.258
31	0.85	-0.172
79	0.85	-0.086
9	0.84	0.000
Median	0.84	0.000

14	0.83	0.172
14	0.83	0.172
237	0.83	0.258
32	0.79	0.859
39	0.79	0.911
Std Dev	0.78	1.000
61	0.78	1.117
61	0.77	1.203
102	0.77	1.213
43	0.74	1.718
43	0.73	1.976

131.00 Free Acid		
Lab	Acetone Method	

124	0.08	0.000
Median	0.08	0.000

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	

61	1.84	-2.345
Std Dev	1.77	-1.000
18	1.75	-0.447
61	1.73	0.000
Median	1.73	0.000
79	1.69	0.893
Std Dev	1.69	1.000
244	1.68	1.117

144.70 Sulfur		
Lab	Spectrometric	

14	1.63	-1.340
Std Dev	1.63	-1.000
Median	1.63	0.000

Std Dev	1.63	1.000
14	1.63	1.340

144.99 Sulfate Sulfur (S)		
Lab	Other	

124	1.93	-6.636
Std Dev	1.71	-1.000
23	1.70	-0.638
28	1.69	-0.510
23	1.69	-0.383
28	1.68	-0.255
34	1.67	0.000
Median	1.67	0.000
32	1.67	0.043
9	1.65	0.510
Std Dev	1.63	1.000
31	1.62	1.276
24	1.61	1.659
24	1.61	1.659

144.XX Sulfate Sulfur (S)		
Lab	Total Method	

124	1.93	-5.702
61	1.84	-3.535
18	1.75	-1.597
61	1.73	-1.140
Std Dev	1.72	-1.000
23	1.70	-0.342
28	1.69	-0.228
79	1.69	-0.228
23	1.69	-0.114
28	1.68	0.000
244	1.68	0.000
Median	1.68	0.000
34	1.67	0.228
32	1.67	0.266
9	1.65	0.684
Std Dev	1.64	1.000

14	1.63	1.140
14	1.63	1.254
31	1.62	1.369
24	1.61	1.711
24	1.61	1.711

145.99 Total Sulfur (S)		
Lab	Other	

124	1.95	-0.731
43	1.93	-0.627
111	1.88	-0.366
43	1.86	-0.287
Median	1.81	0.000
237	1.75	0.287
102	1.67	0.708
Std Dev	1.61	1.000
63	1.52	1.514
63	1.51	1.566

145.XX Total Sulfur (S)		
Lab	Total Method	

124	1.95	-0.731
43	1.93	-0.627
111	1.88	-0.366
43	1.86	-0.287
Median	1.81	0.000
237	1.75	0.287
102	1.67	0.708
Std Dev	1.61	1.000
63	1.52	1.514
63	1.51	1.566

151.30 Total Arsenic		
Lab	ICP	

124	<0.5	0.000
64	12.76	-0.658
102	12.05	-0.044
24	12.00	0.000
28	12.00	0.000
Median	12.00	0.000
Std Dev	10.85	1.000
28	10.00	1.743
79	8.00	3.486

151.99 Total Arsenic		
Lab	Other	

18	12.50	0.000
Median	12.50	0.000

151.XX		
Lab	Total Arsenic	Total Method
124	<0.5	0.000
64	12.76	-0.793
18	12.50	-0.525
102	12.05	-0.053
24	12.00	0.000
28	12.00	0.000
Median	12.00	0.000
Std Dev	11.05	1.000
28	10.00	2.102
79	8.00	4.204

165.00		
Lab	Acid Soluble Boron	Spectrometric
18	105.00	0.000
Median	105.00	0.000

165.99		
Lab	PPM	Acid Soluble Boron Other
124	309.00	-2.589
Std Dev	147.69	-1.000
102	46.20	0.000
Median	46.20	0.000
24	37.00	0.091

65.XX, ppm		
Lab	PPM	Acid Soluble Boron Total Method
124	309.00	-2.790
Std Dev	159.26	-1.000
18	105.00	-0.351
Median	75.60	0.000
102	46.20	0.351
24	37.00	0.461

181.00		
Lab	Total Cadmium	Atomic Absorbtion
241	4.00	-1.340
Std Dev	3.92	-1.000
Median	3.70	0.000
Std Dev	3.48	1.000
18	3.40	1.340

181.30		
Lab	PPM	Total Cadmium ICP
61	4.00	-1.771
61	4.00	-1.771
Std Dev	3.52	-1.000
237	3.45	-0.885
31	3.30	-0.644
79	3.00	-0.161
43	2.90	0.000
43	2.90	0.000
Median	2.90	0.000
124	2.68	0.354
102	2.41	0.797
28	2.35	0.885
Std Dev	2.28	1.000
28	1.00	3.058

181.99		
Lab	Total Cadmium	Other
24	3.50	0.000
Median	3.50	0.000

181.XX		
Lab	PPM	Total Cadmium Total Method
61	4.00	-1.514
61	4.00	-1.514
241	4.00	-1.514
Std Dev	3.71	-1.000
24	3.50	-0.623
237	3.45	-0.534
18	3.40	-0.445
31	3.30	-0.267
Median	3.15	0.000
79	3.00	0.267
43	2.90	0.445
43	2.90	0.445
124	2.68	0.837
Std Dev	2.59	1.000
102	2.41	1.327
28	2.35	1.425
28	1.00	3.829

190.00		
Lab	%Al ₂ O ₃	Aluminum ICP

124	1.69	-3.127
28	1.60	-1.787
24	1.56	-1.117
Std Dev	1.55	-1.000
9	1.53	-0.744
31	1.53	-0.744
79	1.51	-0.372
14	1.50	-0.298
14	1.50	-0.298
28	1.50	-0.298
34	1.48	0.000
Median	1.48	0.000
23	1.47	0.149
23	1.47	0.149
24	1.46	0.298
32	1.45	0.447
Std Dev	1.41	1.000
43	1.41	1.117
61	1.40	1.191
43	1.38	1.489
61	1.37	1.638
102	1.12	5.335

190.99		
Lab	%Al ₂ O ₃	Aluminum Atomic Absorption
18	1.46	-1.340
Std Dev	1.46	-1.000
Median	1.45	0.000
Std Dev	1.43	1.000
241	1.43	1.340

190.XX		
Lab	%Al ₂ O ₃	Aluminum Total Method
124	1.69	-3.931
28	1.60	-2.323
24	1.56	-1.519
9	1.53	-1.072
31	1.53	-1.072
Std Dev	1.53	-1.000
79	1.51	-0.625
14	1.50	-0.536
14	1.50	-0.536
28	1.50	-0.536
34	1.48	-0.179

23	1.47	0.000
23	1.47	0.000
Median	1.47	0.000
18	1.46	0.179
24	1.46	0.179
32	1.45	0.357
241	1.43	0.715
Std Dev	1.41	1.000
43	1.41	1.161
61	1.40	1.251
43	1.38	1.608
61	1.37	1.787
102	1.12	6.224

191.00		
Lab	Total Chromium	Atomic Absorbtion
18	80.00	0.000
Median	80.00	0.000

191.30		
Lab	Total Chromium	ICP
237	80.00	-1.956
64	78.34	-1.305
Std Dev	77.56	-1.000
28	77.00	-0.782
31	77.00	-0.782
124	76.03	-0.401
43	75.00	0.000
Median	75.00	0.000
43	74.50	0.196
61	74.00	0.391
102	73.15	0.724
28	72.75	0.880
Std Dev	72.44	1.000
61	71.00	1.565

191.99		
Lab	PPM	Total Chromium Other
24	72.20	0.000
Median	72.20	0.000

191.XX		
Lab	PPM	Total Chromium Total Method
18	80.00	-1.740

237	80.00	-1.740
64	78.34	-1.161
Std Dev	77.87	-1.000
28	77.00	-0.696
31	77.00	-0.696
124	76.03	-0.357
43	75.00	0.000
Median	75.00	0.000
43	74.50	0.174
61	74.00	0.348
102	73.15	0.644
28	72.75	0.783
24	72.20	0.975
Std Dev	72.13	1.000
61	71.00	1.392

202.00 Acid Soluble Cobalt		
Lab Atomic Absorption		
18	<5	0.000
Median	0.00	0.000

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
237	5.40	-5.778
Std Dev	3.00	-1.000
43	3.00	-0.996
61	3.00	-0.996
64	2.74	-0.478
28	2.50	0.000
43	2.50	0.000
Median	2.50	0.000
28	2.30	0.399
102	2.25	0.498
61	2.00	0.996
Std Dev	2.00	1.000
124	0.20	4.583

202.99 Acid Soluble Cobalt		
Lab Other		
24	2.37	0.000
Median	2.37	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method

18	<5	0.000
237	5.40	-6.531
43	3.00	-1.126
61	3.00	-1.126
Std Dev	2.94	-1.000
64	2.74	-0.541
28	2.50	0.000
43	2.50	0.000
Median	2.50	0.000
24	2.37	0.304
28	2.30	0.450
102	2.25	0.563
Std Dev	2.06	1.000
61	2.00	1.126
124	0.20	5.180

221.00 Acid Soluble Copper		
Lab Atomic Absorption		
18	1.27	-1.340
Std Dev	1.26	-1.000
Median	1.24	0.000
Std Dev	1.22	1.000
241	1.21	1.340

221.30 Acid Soluble Copper		
Lab	PPM	ICP
43	<1	0.000
43	<1	0.000
124	17.55	-86.713
61	1.00	-1.417
Std Dev	0.92	-1.000
61	0.75	-0.129
Median	0.73	0.000
28	0.70	0.129
102	0.67	0.283
28	0.50	1.160

221.99 Acid Soluble Copper		
Lab Other		
24	<0.40	0.000
Median	0.00	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method

18	<2.5	0.000
43	<1	0.000
43	<1	0.000
24	<0.40	0.000
124	17.55	-86.713
61	1.00	-1.417
Std Dev	0.92	-1.000
61	0.75	-0.129
Median	0.73	0.000
28	0.70	0.129
102	0.67	0.283
28	0.50	1.160

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
124	1.70	-9.689
24	1.35	-2.371
31	1.29	-1.237
34	1.28	-1.031
Std Dev	1.28	-1.000
23	1.27	-0.722
23	1.27	-0.722
28	1.25	-0.412
79	1.25	-0.309
24	1.24	-0.103
14	1.23	0.000
237	1.23	0.000
Median	1.23	0.000
14	1.23	0.103
39	1.22	0.124
32	1.21	0.515
28	1.20	0.618
43	1.20	0.618
43	1.20	0.618
Std Dev	1.18	1.000
61	1.15	1.649
61	1.14	1.855
102	1.09	2.900

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
124	1.70	-9.879
24	1.35	-2.417
31	1.29	-1.261

34	1.28	-1.051
Std Dev	1.28	-1.000
18	1.27	-0.841
23	1.27	-0.736
23	1.27	-0.736
28	1.25	-0.420
79	1.25	-0.315
24	1.24	-0.105
14	1.23	0.000
237	1.23	0.000
Median	1.23	0.000
14	1.23	0.105
39	1.22	0.126
241	1.21	0.420
32	1.21	0.525
28	1.20	0.631
43	1.20	0.631
Std Dev	1.18	1.000
61	1.15	1.682
61	1.14	1.892
102	1.09	2.956

251.00 Total Lead		
Lab Atomic Absorption		
18	0.85	0.000
Median	0.85	0.000

251.30 Total Lead		
Lab	PPM	ICP
43	<1	0.000
43	<1	0.000
124	<0.1	0.000
237	2.95	-4.832
Std Dev	1.43	-1.000
102	1.06	-0.075
Median	1.03	0.000
61	1.00	0.075
61	1.00	0.075

251.99 Total Lead		
Lab Other		
24	0.96	0.000
Median	0.96	0.000

251.XX		Total Lead	
Lab	PPM	Total Method	
43	<1	0.000	
43	<1	0.000	
124	<0.1	0.000	
237	2.95	-34.840	
102	1.06	-1.072	
Std Dev	1.06	-1.000	
61	1.00	0.000	
61	1.00	0.000	
Median	1.00	0.000	
24	0.96	0.715	
18	0.85	2.680	

261.00		Acid Soluble Manganese	
Lab	PPM	Atomic Absorption	
18	320.00	0.000	
Median	320.00	0.000	

261.30		Acid Soluble Manganese	
Lab	PPM	ICP	
124	419.00	-9.177	
Std Dev	318.31	-1.000	
237	311.50	-0.447	
39	306.00	0.000	
Median	306.00	0.000	
31	295.00	0.893	
102	293.95	0.979	

261.99		Acid Soluble Manganese	
Lab	PPM	Other	
241	518.00	-31.472	
61	308.00	-1.050	
Std Dev	307.65	-1.000	
43	303.50	-0.398	
43	303.00	-0.326	
Median	300.75	0.000	
28	298.50	0.326	
61	295.50	0.761	
24	295.00	0.833	
Std Dev	293.85	1.000	
28	284.40	2.369	

261.XX		Acid Soluble Manganese	
Lab	PPM	Total Method	
241	518.00	-18.565	
124	419.00	-10.007	
18	320.00	-1.448	
Std Dev	314.82	-1.000	
237	311.50	-0.713	
61	308.00	-0.411	
39	306.00	-0.238	
43	303.50	-0.022	
Median	303.25	0.000	
43	303.00	0.022	
28	298.50	0.411	
61	295.50	0.670	
24	295.00	0.713	
31	295.00	0.713	
102	293.95	0.804	
Std Dev	291.68	1.000	
28	284.40	1.630	

281.30		Total Mercury	
Lab	PPM	ICP	
24	<0.07	0.000	
124	<0.05	0.000	
Median	0.00	0.000	

281.99		Total Mercury	
Lab	PPM	Other	
102	<.4	0.000	
Median	0.00	0.000	

281.XX		Total Mercury	
Lab	PPM	Total Method	
24	<0.07	0.000	
124	<0.05	0.000	
102	<.4	0.000	
Median	0.00	0.000	

289.30		Total Molybdenum	
Lab	PPM	ICP	
237	14.50	-2.701	
61	12.50	-1.013	
Std Dev	12.48	-1.000	
64	12.18	-0.739	

61	12.00	-0.591
43	11.65	-0.295
43	11.30	0.000
Median	11.30	0.000
102	11.25	0.042
18	11.00	0.253
Std Dev	10.12	1.000
28	10.00	1.097
28	9.00	1.941
124	8.50	2.363

289.99		Total Molybdenum	
Lab	PPM	Other	
24	11.70	0.000	
Median	11.70	0.000	

289.XX		Total Molybdenum	
Lab	PPM	Total Method	
237	14.50	-3.133	
61	12.50	-1.062	
Std Dev	12.44	-1.000	
64	12.18	-0.725	
61	12.00	-0.544	
24	11.70	-0.233	
43	11.65	-0.181	
Median	11.48	0.000	
43	11.30	0.181	
102	11.25	0.233	
18	11.00	0.492	
Std Dev	10.51	1.000	
28	10.00	1.528	
28	9.00	2.563	
124	8.50	3.081	

291.00		Total Nickel	
Lab	PPM	Atomic Absorption	
18	9.25	0.000	
Median	9.25	0.000	

291.30		Total Nickel	
Lab	PPM	ICP	
237	14.00	-2.668	
28	12.50	-1.500	
64	11.96	-1.079	

Std Dev	11.86	-1.000
61	11.00	-0.331
28	10.65	-0.058
Median	10.58	0.000
61	10.50	0.058
43	10.00	0.448
43	10.00	0.448
102	9.99	0.456
Std Dev	9.29	1.000
124	8.30	1.772

291.99		Total Nickel	
Lab	PPM	Other	
24	12.20	0.000	
Median	12.20	0.000	

291.XX		Total Nickel	
Lab	PPM	Total Method	
237	14.00	-2.269	
28	12.50	-1.275	
24	12.20	-1.077	
Std Dev	12.08	-1.000	
64	11.96	-0.918	
61	11.00	-0.282	
28	10.65	-0.050	
Median	10.58	0.000	
61	10.50	0.050	
43	10.00	0.381	
43	10.00	0.381	
102	9.99	0.388	
18	9.25	0.878	
Std Dev	9.07	1.000	
124	8.30	1.507	

301.30		Total Selenium	
Lab	PPM	ICP	
24	<0.50	0.000	
124	<0.5	0.000	
102	2.14	-2.652	
Std Dev	0.82	-1.000	
28	0.02	0.000	
Median	0.02	0.000	
28	0.00	0.028	

301.99			Total Selenium
Lab	PPM		Other
18	<0.25		0.000
Median	0.00		0.000

301.XX			Total Selenium
Lab	PPM		Total Method
24	<0.50		0.000
124	<0.5		0.000
18	<0.25		0.000
102	2.14		-2.652
Std Dev	0.82		-1.000
28	0.02		0.000
Median	0.02		0.000
28	0.00		0.028

311.00			Sodium
Lab	%Na ₂ O		Atomic Absorption
28	0.37		-0.562
61	0.36		-0.475
61	0.30		0.000
Median	0.30		0.000
28	0.20		0.865
Std Dev	0.18		1.000
241	0.14		1.383

311.99			Sodium
Lab	%Na ₂ O		Other
24	0.23		-0.864
24	0.23		-0.864
124	0.23		-0.691
23	0.21		-0.173
23	0.21		0.000
Median	0.21		0.000
237	0.20		0.173
43	0.19		0.649
43	0.18		0.744
Std Dev	0.18		1.000
102	0.17		1.121

311.XX			Sodium
Lab	%Na ₂ O		Total Method
28	0.37		-5.233
61	0.36		-4.901

61	0.30		-3.073
Std Dev	0.24		-1.000
24	0.23		-0.748
24	0.23		-0.748
124	0.23		-0.581
23	0.21		-0.083
Median	0.21		0.000
23	0.21		0.083
28	0.20		0.249
237	0.20		0.249
43	0.19		0.707
43	0.18		0.799
Std Dev	0.18		1.000
102	0.17		1.161
241	0.14		2.243

321.00			Acid Soluble Zinc
Lab			Atomic Absorption
241	125.00		-1.340
Std Dev	115.17		-1.000
Median	86.25		0.000
Std Dev	57.33		1.000
18	47.50		1.340

321.30			Acid Soluble Zinc
Lab	PPM		ICP
64	68.13		-2.242
28	61.50		-1.216
Std Dev	60.11		-1.000
24	57.15		-0.542
237	56.00		-0.364
28	53.65		0.000
Median	53.65		0.000
61	50.00		0.565
61	48.50		0.798
Std Dev	47.19		1.000
102	47.00		1.030
124	45.28		1.297

321.99			Acid Soluble Zinc
Lab			Other
43	45.50		-1.340
Std Dev	45.31		-1.000
Median	44.75		0.000

Std Dev	44.19		1.000
43	44.00		1.340

321.XX			Acid Soluble Zinc
Lab	PPM		Total Method
241	125.00		-9.901
64	68.13		-2.393
28	61.50		-1.518
Std Dev	57.57		-1.000
24	57.15		-0.944
237	56.00		-0.792
28	53.65		-0.482
61	50.00		0.000
Median	50.00		0.000
61	48.50		0.198
18	47.50		0.330
102	47.00		0.396
43	45.50		0.594
124	45.28		0.623
43	44.00		0.792

325.10			Fluoride
Lab	%		Electrode
28	2.15		-1.548
111	2.07		-0.913
124	2.06		-0.794
32	2.04		-0.675
23	2.00		-0.357
23	1.98		-0.159
34	1.97		-0.119
24	1.96		-0.040
Median	1.96		0.000
24	1.95		0.040
31	1.92		0.318
18	1.88		0.635
14	1.85		0.873
14	1.83		0.993
28	1.81		1.151
237	1.79		1.350
102	1.69		2.104

325.30			Fluoride
Lab			Distilled/Electrode
9	1.93		0.000

Median	1.93		0.000
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325.99			Fluoride
Lab	%		Other
61	1.99		-1.340
Median	1.98		0.000
61	1.97		1.340

325.XX			Fluoride
Lab	%		Total Method
28	2.15		-1.922
111	2.07		-1.112
124	2.06		-0.961
32	2.04		-0.809
23	2.00		-0.405
61	1.99		-0.253
23	1.98		-0.152
34	1.97		-0.101
61	1.97		-0.101
24	1.96		0.000
Median	1.96		0.000
24	1.95		0.101
9	1.93		0.303
31	1.92		0.455
18	1.88		0.860
14	1.85		1.163
14	1.83		1.315
28	1.81		1.517
237	1.79		1.770
102	1.69		2.731