

AFPC
2013-07 **Grade** **MAP-S (11-40-0-12)**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.11	0.00
Ammoniacal Nitrogen, Other		001.99	11	11.12	0.10
Method Group 001.XX PCT			12	11.11	0.09
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.12	0.03
Total Nitrogen, Salicylic	955.04d	010.12	2	11.22	0.11
Total Nitrogen, Combustion	993.13	010.60	20	11.15	0.14
Total Nitrogen, Other		010.99	4	11.14	0.12
Method Group 010.XX PCT			29	11.15	0.13
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	3	40.87	0.62
Total Phosphate, Spectrometric	978.02	020.20	18	41.12	0.27
Total Phosphate, ICP	970.03	020.40	2	40.84	0.13
Total Phosphate, Other	993.13	020.99	1	41.52	0.00
Method Group 020.XX PCT			24	41.09	0.37
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.74	0.41
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.06	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.74	0.08
Insoluble Phosphate, Other		030.99	2	0.54	0.04
Method Group 030.XX PCT			16	0.62	0.47
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	40.39	0.31
Indirect Available Phosphate, Other		040.99	1	40.41	0.00
Method Group 040.XX PCT			14	40.40	0.36
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	6	40.94	0.65
Direct Available Phosphate, Automated	978.01	041.40	2	40.11	0.96
Direct Available Phosphate, ICP		041.50	6	40.27	0.62
Direct Available Phosphate, EDTA Extract	993.01	041.60	7	41.25	0.40
Method Group 041.XX PCT			21	40.68	1.01
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	12	34.55	0.39
Water Soluble Phosphate, Other		048.99	3	34.52	0.14
Method Group 048.XX PCT			15	34.53	0.40
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.23	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.24	0.00
Soluble Potash, Flame Photometric(Citrate)	983.02B(b)	050.61	1	0.22	0.00
Soluble Potash, Other		050.99	9	0.23	0.01
Method Group 050.XX PCT			13	0.23	0.01
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	14	2.05	0.14
Free Water, Vacuum Desiccate	965.08A	060.10	1	2.63	0.00
Method Group 060.XX PCT			15	2.05	0.19
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.64	0.00
Acid Soluble Calcium, ICP		101.30	17	0.64	0.03
Method Group 101.XX PCT			18	0.64	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.27	0.00
Acid Soluble Magnesium, ICP		121.30	17	1.30	0.08
Method Group 121.XX PCT			18	1.30	0.09

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	3	3.76	0.06
Sulfur, Other		144.99	11	3.71	0.06
Method Group 144.XX PCT			14	3.72	0.07

TOTAL SULFUR (S)

Sulfur, Other		145.99	19	11.67	0.37
Method Group 145.XX PCT			19	11.67	0.45

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	8	15	6.0
Method Group 151.XX PPM			8	15	7.3

ACID SOLUBLE BORON

Acid Soluble Boron, Other		165.99	1	46	0.0
Method Group 165.XX PPM			1	46	0.0

TOTAL CADMIUM

Total Cadmium, ICP		181.30	6	3	0.6
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			7	3	0.5

ALUMINUM AS Al₂O₃

ICP, %			15	1.06	0.03
Other		190.99	1	1.13	0.00
Method Group 190.XX PCT			16	1.06	0.04

TOTAL CHROMIUM

Total Chromium, ICP		191.30	7	99	6.0
Total Chromium, Other		191.99	1	98	0.0
Method Group 191.XX PPM			8	98	6.4

ACID SOLUBLE COBALT

Acid Soluble Cobalt, ICP		202.30	6	4	0.2
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			7	4	0.4

ACID SOLUBLE COPPER

Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	3	0.0
Acid Soluble Copper, ICP		221.30	6	6	2.2
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			7	6	2.2

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP		241.30	16	2.59	0.07
Method Group 241.XX PCT			17	2.59	0.08

TOTAL LEAD

Total Lead, ICP		251.30	5	2	0.8
Total Lead, Other		251.99	1	2	0.0
Method Group 251.XX PPM			6	2	0.8

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	228	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	2	229	0.7
Acid Soluble Manganese, Other		261.99	6	228	15.0
Method Group 261.XX PPM			9	228	15.9

TOTAL MOLYBDENUM

Total Molybdenum, ICP		289.30	6	10	1.6
Total Molybdenum, Other		289.99	1	13	0.0
Method Group 289.XX PPM			7	10	2.1

TOTAL NICKEL

Total Nickel, ICP	291.30		5	15	0.7
Total Nickel, Other	291.99		1	15	0.0
Method Group 291.XX PPM			6	15	0.8
TOTAL SELENIUM					
Total Selenium, ICP	301.30		1	0	0.0
Method Group 301.XX PPM			1	0	0.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.22	0.00
Sodium, Other		311.99	7	0.23	0.03
Method Group 311.XX PCT			8	0.23	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	33.7	0.0
Acid Soluble Zinc, ICP		321.30	3	32.5	3.2
Acid Soluble Zinc, Other		321.99	3	35.5	0.8
Method Group 321.XX PPM			7	35.5	3.2
FLUORIDE					
Volumetric	325.10		11	1.55	0.14
Distilled/Electrode	325.99		2	1.67	0.01
Method Group 325.XX PCT			13	1.55	0.23

001.10 Ammoniacal Nitrogen		
Lab		MgO distillation
31	11.11	0.000
Median	11.11	0.000

001.99 Ammoniacal Nitrogen		
Lab		Other
140	11.18	-0.631
32	11.16	-0.473
32	11.16	-0.420
61	11.13	-0.158
34	11.12	-0.053
23	11.12	0.000
Median	11.12	0.000
23	11.10	0.158
24	11.06	0.578
Std Dev	11.02	1.000
24	10.97	1.524
61	10.95	1.734
38	10.91	2.207

001.XX Ammoniacal Nitrogen		
Lab		Total Method
140	11.18	-0.882
32	11.16	-0.678
32	11.16	-0.611
61	11.13	-0.271
34	11.12	-0.136
23	11.12	-0.068
Median	11.11	0.000
31	11.11	0.068
23	11.10	0.136
24	11.06	0.678
Std Dev	11.04	1.000
24	10.97	1.900
61	10.95	2.171
38	10.91	2.782

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	11.18	-1.734
Std Dev	11.15	-1.000
43	11.12	0.000
Median	11.12	0.000

43 11.09 0.946

010.12 Total Nitrogen		
Lab		Salicylic
119	11.37	-1.340
Std Dev	11.33	-1.000
Median	11.22	0.000
Std Dev	11.11	1.000
107	11.07	1.340

010.60 Total Nitrogen		
Lab		Combustion
80	11.55	-2.821
305	11.55	-2.821
49	11.30	-1.023
Std Dev	11.29	-1.000
47	11.28	-0.882
77	11.20	-0.353
63	11.20	-0.317
137	11.20	-0.317
63	11.19	-0.282
31	11.16	-0.071
9	11.15	0.000
66	11.15	0.000
Median	11.15	0.000
219	11.08	0.529
14	11.06	0.635
14	11.06	0.670
103	11.05	0.741
Std Dev	11.01	1.000
39	10.89	1.834
38	10.82	2.327
29	10.74	2.863
95	10.60	3.879
110	10.59	3.949

010.99 Total Nitrogen		
Lab		Other
32	11.23	-0.739
32	11.21	-0.570
Median	11.14	0.000
99	11.08	0.570
Std Dev	11.02	1.000
40	11.00	1.203

010.XX Total Nitrogen		
Lab		Total Method
80	11.55	-3.697
305	11.55	-3.697
119	11.37	-1.987
49	11.30	-1.340
47	11.28	-1.155
Std Dev	11.26	-1.000
32	11.23	-0.739
32	11.21	-0.554
77	11.20	-0.462
63	11.20	-0.416
137	11.20	-0.416
63	11.19	-0.370
219	11.18	-0.231
31	11.16	-0.092
9	11.15	0.000
66	11.15	0.000
Median	11.15	0.000
43	11.12	0.277
43	11.09	0.554
99	11.08	0.693
219	11.08	0.693
107	11.07	0.739
14	11.06	0.832
14	11.06	0.878
103	11.05	0.970
Std Dev	11.04	1.000
40	11.00	1.386
39	10.89	2.403
38	10.82	3.050
29	10.74	3.752
95	10.60	5.083
110	10.59	5.175

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
40	41.97	-1.787
Std Dev	41.49	-1.000
219	40.87	0.000
Median	40.87	0.000
103	40.32	0.893

020.20 Total Phosphate		
Lab		Spectrometric
34	41..04	0.000
140	41.30	-0.665
9	41.18	-0.240
23	41.18	-0.240
14	41.16	-0.166
23	41.16	-0.148
32	41.14	-0.092
61	41.14	-0.092
14	41.13	-0.055
32	41.12	-0.018
Median	41.12	0.000
31	41.11	0.018
61	41.07	0.185
24	40.93	0.684
43	40.89	0.832
Std Dev	40.84	1.000
43	40.76	1.331
24	40.75	1.349
38	39.77	4.990
95	39.75	5.046
110	39.59	5.637

020.40 Total Phosphate		
Lab		Automated
219	41.01	-1.340
Std Dev	40.97	-1.000
Median	40.84	0.000
Std Dev	40.70	1.000
137	40.66	1.340

020.99 Total Phosphate		
Lab		Other
99	41.52	0.000
Median	41.52	0.000

020.XX Total Phosphate		
Lab		Total Method
34	41..04	0.000
40	41.97	-2.938
99	41.52	-1.440
Std Dev	41.39	-1.000
140	41.30	-0.691

9	41.18	-0.308
23	41.18	-0.308
14	41.16	-0.241
23	41.16	-0.225
32	41.14	-0.175
61	41.14	-0.175
14	41.13	-0.141
32	41.12	-0.108
31	41.11	-0.075
Median	41.09	0.000
61	41.07	0.075
219	41.01	0.258
24	40.93	0.524
43	40.89	0.658
219	40.87	0.724
Std Dev	40.79	1.000
43	40.76	1.107
24	40.75	1.124
137	40.66	1.423
103	40.32	2.555
38	39.77	4.403
95	39.75	4.453
110	39.59	4.985

030.20	Insoluble Phosphate	
Lab	Spectrometric	
43	0.99	-0.631
61	0.89	-0.365
61	0.87	-0.328
23	0.81	-0.169
23	0.77	-0.071
43	0.74	0.000
Median	0.74	0.000
140	0.61	0.321
Std Dev	0.33	1.000
24	0.30	1.067
24	0.28	1.116
14	0.07	1.642
14	0.06	1.655

030.30	Insoluble Phosphate	
Lab	Alka. Quimociac	
31	0.06	0.000
Median	0.06	0.000

030.40	Insoluble Phosphate	
Lab	Automated	
9	0.85	-1.340
Std Dev	0.82	-1.000
Median	0.74	0.000
Std Dev	0.66	1.000
34	0.63	1.340

030.99	Insoluble Phosphate	
Lab	Other	
32	0.59	-1.340
Std Dev	0.58	-1.000
Median	0.54	0.000
Std Dev	0.50	1.000
32	0.49	1.340

030.XX	Insoluble Phosphate	
Lab	Total Method	
43	0.99	-0.968
61	0.89	-0.688
61	0.87	-0.649
9	0.85	-0.598
23	0.81	-0.482
23	0.77	-0.379
43	0.74	-0.305
34	0.63	-0.032
Median	0.62	0.000
140	0.61	0.032
32	0.59	0.071
32	0.49	0.328
24	0.30	0.816
24	0.28	0.868
Std Dev	0.23	1.000
14	0.07	1.420
14	0.06	1.433
31	0.06	1.446

040.20	Indirect Available Phosphate	
Lab	Spectrometric	
14	41.10	-2.249
14	41.07	-2.154
31	41.06	-2.122
Std Dev	40.70	-1.000

140	40.69	-0.957
24	40.65	-0.830
24	40.45	-0.191
23	40.39	0.000
Median	40.39	0.000
23	40.38	0.048
9	40.33	0.191
61	40.27	0.383
61	40.18	0.670
Std Dev	40.08	1.000
43	40.02	1.180
43	39.90	1.563

040.99	Indirect Available Phosphate	
Lab	Other	
34	40.41	0.000
Median	40.41	0.000

040.XX	Indirect Available Phosphate	
Lab	Total Method	
14	41.10	-2.358
14	41.07	-2.256
31	41.06	-2.222
Std Dev	40.69	-1.000
140	40.69	-0.984
24	40.65	-0.848
24	40.45	-0.170
34	40.41	-0.034
Median	40.40	0.000
23	40.39	0.034
23	40.38	0.085
9	40.33	0.237
61	40.27	0.441
61	40.18	0.746
Std Dev	40.11	1.000
43	40.02	1.289
43	39.90	1.696

041.10	Direct Available Phosphate	
Lab	Gravimetric Quimociac	
47	41.47	-0.815
119	41.43	-0.747
305	41.33	-0.601
Median	40.94	0.000

39	40.55	0.601
219	40.52	0.639
Std Dev	40.28	1.000
107	39.92	1.558

041.40	Direct Available Phosphate	
Lab	Automated	
39	41.40	-1.340
Std Dev	41.07	-1.000
Median	40.11	0.000
Std Dev	39.15	1.000
38	38.82	1.340

041.50	Direct Available Phosphate	
Lab	ICP	
66	40.99	-1.164
Std Dev	40.88	-1.000
63	40.55	-0.461
63	40.55	-0.461
Median	40.27	0.000
47	39.98	0.461
Std Dev	39.65	1.000
77	39.64	1.019
80	38.65	2.611

041.60	Direct Available Phosphate	
Lab	EDTA Extract	
305	41.58	-0.815
49	41.53	-0.689
219	41.26	-0.013
103	41.25	0.000
Median	41.25	0.000
29	41.03	0.549
Std Dev	40.85	1.000
77	40.68	1.429
137	40.22	2.582

041.XX	Direct Available Phosphate	
Lab	Total Method	
305	41.58	-1.080
49	41.53	-1.020
Std Dev	41.51	-1.000
47	41.47	-0.954
119	41.43	-0.899

39	41.40	-0.869
305	41.33	-0.785
219	41.26	-0.694
103	41.25	-0.688
29	41.03	-0.424
66	40.99	-0.368
77	40.68	0.000
Median	40.68	0.000
63	40.55	0.157
63	40.55	0.157
39	40.55	0.163
219	40.52	0.193
137	40.22	0.555
47	39.98	0.845
107	39.92	0.917
Std Dev	39.85	1.000
77	39.64	1.262
38	38.82	2.245
80	38.65	2.451

048.20 Water Soluble Phosphate		
Lab		Spectrometric
23	35.02	-1.190
23	34.98	-1.076
61	34.97	-1.063
Std Dev	34.95	-1.000
140	34.90	-0.872
31	34.73	-0.452
24	34.58	-0.070
Median	34.55	0.000
61	34.53	0.070
24	34.50	0.146
14	34.41	0.376
14	34.34	0.554
Std Dev	34.16	1.000
43	33.90	1.661
43	33.86	1.763

048.99 Water Soluble Phosphate		
Lab		Other
34	34.75	-1.657
Std Dev	34.66	-1.000
32	34.52	0.000
Median	34.52	0.000

Std Dev	34.37	1.000
32	34.37	1.023

048.XX Water Soluble Phosphate		
Lab		Total Method
23	35.02	-1.525
23	34.98	-1.386
61	34.97	-1.371
140	34.90	-1.140
Std Dev	34.85	-1.000
34	34.75	-0.693
31	34.73	-0.631
24	34.58	-0.169
61	34.53	0.000
Median	34.53	0.000
32	34.52	0.031
24	34.50	0.092
14	34.41	0.370
32	34.37	0.477
14	34.34	0.585
Std Dev	34.20	1.000
43	33.90	1.925
43	33.86	2.049

050.30 Soluble Potash		
Lab		Atomic Absorption(Oxalate)
95	<.01	0.000
Median	0.00	0.000

050.50 %K ₂ O Soluble Potash		
Lab		ICP(Oxalate)
23	0.23	0.000
23	0.23	0.000
Median	0.23	0.000

050.51 %K ₂ O Soluble Potash		
Lab		ICP(Citrate)
137	0.24	0.000
Median	0.24	0.000

050.61 Soluble Potash		
Lab		Flame Photometric(Citrate)
219	0.22	0.000
Median	0.22	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
241	0.26	-5.345
Std Dev	0.23	-1.000
24	0.23	-0.764
61	0.23	-0.764
61	0.23	-0.764
24	0.23	0.000
Median	0.23	0.000
43	0.22	0.420
43	0.22	0.576
Std Dev	0.22	1.000
99	0.21	2.291
80	0.11	18.324

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
95	<.01	0.000
241	0.26	-4.581
137	0.24	-1.527
Std Dev	0.24	-1.000
23	0.23	0.000
23	0.23	0.000
24	0.23	0.000
61	0.23	0.000
61	0.23	0.000
Median	0.23	0.000
24	0.23	0.764
Std Dev	0.22	1.000
43	0.22	1.184
43	0.22	1.340
219	0.22	2.291
99	0.21	3.054
80	0.11	19.088

060.00 Free Water		
Lab		Vacuum Oven
140	2.50	-3.282
31	2.22	-1.240
24	2.21	-1.167
Std Dev	2.18	-1.000
24	2.17	-0.912
9	2.13	-0.620

32	2.12	-0.547
34	2.05	-0.036
Median	2.05	0.000
23	2.04	0.036
32	2.04	0.036
14	1.98	0.474
14	1.98	0.510
Std Dev	1.91	1.000
23	1.91	1.021
43	1.89	1.167
43	1.85	1.422

060.10 Free Water		
Lab		Vacuum Desiccate
61	2.63	0.000
Median	2.63	0.000

060.XX Free Water		
Lab		Total Method
61	2.63	-3.701
140	2.50	-2.840
31	2.22	-1.053
Std Dev	2.21	-1.000
24	2.21	-0.989
24	2.17	-0.766
9	2.13	-0.510
32	2.12	-0.447
34	2.05	0.000
Median	2.05	0.000
23	2.04	0.064
32	2.04	0.064
14	1.98	0.447
14	1.98	0.479
23	1.91	0.925
Std Dev	1.89	1.000
43	1.89	1.053
43	1.85	1.276

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.64	0.000
Median	0.64	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
14	1.24	-20.100
14	1.23	-19.933
34	0.68	-1.508
31	0.68	-1.340
Std Dev	0.66	-1.000
61	0.66	-0.838
61	0.65	-0.335
18	0.64	0.000
23	0.64	0.000
24	0.64	0.000
24	0.64	0.000
32	0.64	0.000
Median	0.64	0.000
9	0.63	0.168
23	0.62	0.503
Std Dev	0.61	1.000
43	0.60	1.026
43	0.60	1.105
32	0.57	2.178
38	0.36	9.380

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
14	1.24	-23.822
14	1.23	-23.624
34	0.68	-1.787
31	0.68	-1.588
Std Dev	0.66	-1.000
61	0.66	-0.993
61	0.65	-0.397
219	0.64	-0.218
18	0.64	0.000
23	0.64	0.000
24	0.64	0.000
24	0.64	0.000
32	0.64	0.000
Median	0.64	0.000
9	0.63	0.199
23	0.62	0.596
Std Dev	0.61	1.000
43	0.60	1.216
43	0.60	1.310

32	0.57	2.581
38	0.36	11.117

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
219	1.27	0.000
Median	1.27	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
32	1.42	-1.401
Std Dev	1.38	-1.000
32	1.38	-0.914
24	1.35	-0.609
18	1.33	-0.365
24	1.33	-0.365
61	1.33	-0.305
23	1.30	0.000
23	1.30	0.000
61	1.30	0.000
Median	1.30	0.000
34	1.29	0.122
31	1.28	0.305
38	1.25	0.670
9	1.22	0.975
Std Dev	1.22	1.000
43	1.15	1.827
43	1.14	2.010
14	0.63	8.162
14	0.63	8.162

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
32	1.42	-1.569
32	1.38	-1.046
Std Dev	1.37	-1.000
24	1.35	-0.719
18	1.33	-0.458
24	1.33	-0.458
61	1.33	-0.392
23	1.30	-0.065
23	1.30	-0.065
61	1.30	-0.065
Median	1.30	0.000

34	1.29	0.065
31	1.28	0.261
219	1.27	0.392
38	1.25	0.654
9	1.22	0.980
Std Dev	1.22	1.000
43	1.15	1.896
43	1.14	2.092
14	0.63	8.694
14	0.63	8.694

144..01 Sulfate Sulfur (S)		
Lab	Gravimetric	
305	3.85	-1.608
Std Dev	3.82	-1.000
61	3.76	0.000
Median	3.76	0.000
Std Dev	3.70	1.000
219	3.70	1.072

144.99 Sulfate Sulfur (S)		
Lab	Other	
38	4.01	-5.187
32	3.89	-3.026
Std Dev	3.77	-1.000
23	3.77	-0.951
23	3.74	-0.519
34	3.73	-0.346
9	3.71	0.000
Median	3.71	0.000
32	3.71	0.086
24	3.68	0.519
24	3.67	0.692
Std Dev	3.65	1.000
31	3.64	1.210
49	3.55	2.853

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
38	4.01	-4.935
32	3.89	-2.808
305	3.85	-2.212
Std Dev	3.78	-1.000
23	3.77	-0.766

61	3.76	-0.681
23	3.74	-0.340
34	3.73	-0.170
Median	3.72	0.000
9	3.71	0.170
32	3.71	0.255
219	3.70	0.340
24	3.68	0.681
24	3.67	0.851
Std Dev	3.66	1.000
31	3.64	1.361
49	3.55	2.978

145.99 Total Sulfur (S)		
Lab	Other	
305	14.88	-8.603
137	12.15	-1.286
Std Dev	12.04	-1.000
23	11.96	-0.777
43	11.93	-0.697
43	11.92	-0.670
34	11.91	-0.643
23	11.87	-0.523
77	11.85	-0.482
49	11.79	-0.308
32	11.67	0.000
Median	11.67	0.000
9	11.50	0.456
32	11.44	0.630
38	11.43	0.643
63	11.42	0.683
103	11.42	0.683
219	11.41	0.697
40	11.32	0.951
Std Dev	11.30	1.000
99	10.56	2.988
95	3.90	20.824

145.XX Total Sulfur (S)		
Lab	Total Method	
305	14.88	-8.603
137	12.15	-1.286
Std Dev	12.04	-1.000
23	11.96	-0.777

43	11.93	-0.697
43	11.92	-0.670
34	11.91	-0.643
23	11.87	-0.523
77	11.85	-0.482
49	11.79	-0.308
32	11.67	0.000
Median	11.67	0.000
9	11.50	0.456
32	11.44	0.630
38	11.43	0.643
63	11.42	0.683
103	11.42	0.683
219	11.41	0.697
40	11.32	0.951
Std Dev	11.30	1.000
99	10.56	2.988
95	3.90	20.824

151.30 Total Arsenic		
Lab		ICP
43	20.00	-0.832
43	19.65	-0.773
24	16.20	-0.197
18	15.05	-0.004
Median	15.03	0.000
9	15.00	0.004
31	9.70	0.891
Std Dev	9.05	1.000
61	7.10	1.325
61	7.05	1.334

151.XX Total Arsenic		
Lab		Total Method
43	20.00	-0.832
43	19.65	-0.773
24	16.20	-0.197
18	15.05	-0.004
Median	15.03	0.000
9	15.00	0.004
31	9.70	0.891
Std Dev	9.05	1.000
61	7.10	1.325
61	7.05	1.334

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	46.00	0.000
Median	46.00	0.000

165.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	46.00	0.000
Median	46.00	0.000

181.30 Total Cadmium		
Lab	PPM	ICP
18	3.35	-1.410
9	3.32	-1.357
Std Dev	3.11	-1.000
43	2.55	-0.017
Median	2.54	0.000
43	2.53	0.017
61	2.30	0.418
61	2.10	0.766

181.99 Total Cadmium		
Lab		Other
24	2.66	0.000
Median	2.66	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
18	3.35	-1.864
9	3.32	-1.794
Std Dev	2.98	-1.000
24	2.66	-0.256
43	2.55	0.000
Median	2.55	0.000
43	2.53	0.047
61	2.30	0.583
Std Dev	2.12	1.000
61	2.10	1.049

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
14	1.10	-1.191
14	1.10	-1.191

32	1.10	-1.042
Std Dev	1.09	-1.000
9	1.08	-0.596
18	1.07	-0.298
23	1.07	-0.149
23	1.06	0.000
24	1.06	0.000
Median	1.06	0.000
34	1.05	0.298
61	1.05	0.298
61	1.04	0.596
Std Dev	1.03	1.000
24	1.02	1.191
43	1.01	1.638
32	1.00	1.787
43	0.98	2.382

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
31	1.13	0.000
Median	1.13	0.000

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
31	1.13	-1.924
14	1.10	-1.099
14	1.10	-1.099
Std Dev	1.10	-1.000
32	1.10	-0.962
9	1.08	-0.550
18	1.07	-0.275
23	1.07	-0.137
23	1.06	0.000
24	1.06	0.000
Median	1.06	0.000
34	1.05	0.275
61	1.05	0.275
61	1.04	0.550
Std Dev	1.02	1.000
24	1.02	1.099
43	1.01	1.512
32	1.00	1.649
43	0.98	2.199

191.30 Total Chromium		
Lab		ICP
31	108.10	-1.598
18	106.60	-1.348
Std Dev	104.51	-1.000
9	103.50	-0.832
61	98.50	0.000
Median	98.50	0.000
43	97.50	0.166
43	96.50	0.333
61	96.00	0.416

191.99 Total Chromium		
Lab	PPM	Other
24	98.10	0.000
Median	98.10	0.000

191.XX Total Chromium		
Lab	PPM	Total Method
31	108.10	-1.869
18	106.60	-1.583
Std Dev	103.54	-1.000
9	103.50	-0.992
61	98.50	-0.038
Median	98.30	0.000
24	98.10	0.038
43	97.50	0.153
43	96.50	0.343
61	96.00	0.439

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
9	4.07	-0.407
43	4.00	-0.107
43	4.00	-0.107
Median	3.98	0.000
61	3.95	0.107
Std Dev	3.74	1.000
18	3.60	1.608
61	3.60	1.608

202.99 Acid Soluble Cobalt		
Lab		Other
24	3.34	0.000

Median	3.34	0.000
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202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
9	4.07	-0.402
43	4.00	-0.167
43	4.00	-0.167
61	3.95	0.000
Median	3.95	0.000
Std Dev	3.65	1.000
18	3.60	1.173
61	3.60	1.173
24	3.34	2.044

221.00 Acid Soluble Copper		
Lab	PPM	Atomic Absorption
219	2.70	0.000
Median	2.70	0.000

221.30 Acid Soluble Copper		
Lab	PPM	ICP
9	8.40	-1.099
Std Dev	8.18	-1.000
18	7.00	-0.458
43	6.00	0.000
43	6.00	0.000
Median	6.00	0.000
Std Dev	3.82	1.000
61	3.10	1.329
61	2.00	1.832

221.99 Acid Soluble Copper		
Lab	PPM	Other
24	6.91	0.000
Median	6.91	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
9	8.40	-1.337
Std Dev	7.79	-1.000
18	7.00	-0.557
24	6.91	-0.507
43	6.00	0.000
43	6.00	0.000

Median	6.00	0.000
Std Dev	4.21	1.000
61	3.10	1.616
61	2.00	2.229

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
32	2.90	-4.516
32	2.83	-3.561
Std Dev	2.66	-1.000
61	2.65	-0.918
24	2.64	-0.771
34	2.64	-0.771
14	2.63	-0.551
14	2.61	-0.330
61	2.59	-0.037
Median	2.59	0.000
23	2.59	0.037
23	2.59	0.037
24	2.58	0.110
38	2.55	0.551
31	2.55	0.624
Std Dev	2.52	1.000
43	2.49	1.432
43	2.48	1.652
9	2.47	1.725

241.99 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
24	2.47	0.000
Median	2.47	0.000

241.XX Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Total Method
32	2.90	-4.541
32	2.83	-3.573
219	2.70	-1.638
Std Dev	2.66	-1.000
61	2.65	-0.893
24	2.64	-0.744
34	2.64	-0.744
14	2.63	-0.521
14	2.61	-0.298
61	2.59	0.000
Median	2.59	0.000
23	2.59	0.074
23	2.59	0.074
24	2.58	0.149
38	2.55	0.596

31	2.55	0.670
Std Dev	2.52	1.000
43	2.49	1.489
43	2.48	1.712
9	2.47	1.787

251.30 Total Lead		
Lab	PPM	ICP
18	3.70	-1.949
Std Dev	2.92	-1.000
61	2.85	-0.914
61	2.10	0.000
Median	2.10	0.000
43	1.75	0.426
43	1.70	0.487

251.99 Total Lead		
Lab	PPM	Other
24	2.47	0.000
Median	2.47	0.000

251.XX Total Lead		
Lab	PPM	Total Method
18	3.70	-2.067
Std Dev	2.97	-1.000
61	2.85	-0.825
24	2.47	-0.270
Median	2.29	0.000
61	2.10	0.270
43	1.75	0.781
43	1.70	0.854

261.11 Acid Soluble Manganese		
Lab	PPM	Atomic Absorption
219	227.50	0.000
Median	227.50	0.000

261.30 Acid Soluble Manganese		
Lab	PPM	ICP
31	229.75	-1.340
Std Dev	229.53	-1.000
Median	228.88	0.000
Std Dev	228.22	1.000
9	228.00	1.340

261.99 Acid Soluble Manganese		
Lab	PPM	Other
43	241.50	-0.882
43	240.50	-0.816
24	237.00	-0.583
Median	228.25	0.000
18	219.50	0.583
61	219.50	0.583
61	213.50	0.982

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
43	241.50	-1.034
Std Dev	241.06	-1.000
43	240.50	-0.957
24	237.00	-0.689
31	229.75	-0.134
9	228.00	0.000
Median	228.00	0.000
219	227.50	0.038
18	219.50	0.651
61	219.50	0.651
Std Dev	214.94	1.000
61	213.50	1.110

281.30 Total Mercury		
Lab	PPM	ICP
24	<0.06	0.000
Median	0.00	0.000

281.XX Total Mercury		
Lab	PPM	Total Method
24	<0.06	0.000
Median	0.00	0.000

289.30 Total Molybdenum		
Lab	PPM	ICP
18		
289.99		
Lab	PPM	Other
24	12.50	0.000
Median	12.50	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
24	12.50	-1.296
Std Dev	12.00	-1.000
18	11.95	-0.972
9	11.75	-0.854
43	10.30	0.000
43	10.30	0.000
Median	10.30	0.000
61	8.85	0.854
Std Dev	8.60	1.000
61	8.45	1.090

291.30 Total Nickel		
Lab	PPM	ICP
9	16.40	-1.876
Std Dev	15.75	-1.000
61	15.00	0.000
61	15.00	0.000
Median	15.00	0.000
Std Dev	14.25	1.000
43	14.00	1.340
43	14.00	1.340

291.99 Total Nickel		
Lab	PPM	Other
24	14.50	0.000
Median	14.50	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
9	16.40	-2.527
Std Dev	15.40	-1.000
61	15.00	-0.383
61	15.00	-0.383
Median	14.75	0.000
24	14.50	0.383
Std Dev	14.10	1.000
43	14.00	1.149
43	14.00	1.149

301.30 Total Selenium		
Lab	PPM	ICP
24	0.40	0.000

Median	0.40	0.000
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301.XX Total Selenium		
Lab	PPM	Total Method
24	0.40	0.000
Median	0.40	0.000

311.00 Sodium		
Lab	%Na ₂ O	Atomic Absorbtion
61	0.22	0.000
Median	0.22	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other
23	0.24	-0.383
23	0.24	-0.383
24	0.24	-0.383
24	0.23	0.000
Median	0.23	0.000
61	0.22	0.383
Std Dev	0.20	1.000
43	0.19	1.531
43	0.19	1.598

311.XX Sodium		
Lab	%Na ₂ O	Total Method
23	0.24	-0.731
23	0.24	-0.731
24	0.24	-0.731
24	0.23	-0.244
Median	0.23	0.000
61	0.22	0.244
61	0.22	0.244
Std Dev	0.20	1.000
43	0.19	1.704
43	0.19	1.790

321.00 Acid Soluble Zinc		
Lab		Atomic Absorption
219	33.65	0.000
Median	33.65	0.000

321.30 Acid Soluble Zinc		
Lab	PPM	ICP

9	39.50	-2.207
Std Dev	35.67	-1.000
61	32.50	0.000
Median	32.50	0.000
61	31.00	0.473

321.99 Acid Soluble Zinc		
Lab		Other
24	37.60	-2.680
Std Dev	36.28	-1.000
43	35.50	0.000
43	35.50	0.000
Median	35.50	0.000

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
9	39.50	-1.542
Std Dev	38.09	-1.000
24	37.60	-0.810
43	35.50	0.000
43	35.50	0.000
Median	35.50	0.000
219	33.65	0.713
Std Dev	32.91	1.000
61	32.50	1.157
61	31.00	1.735

325.10 Fluoride		
Lab	%	Electrode
34	1.68	-0.965
32	1.66	-0.786
32	1.61	-0.465
31	1.57	-0.143
9	1.55	-0.036
23	1.55	0.000
Median	1.55	0.000
23	1.52	0.179
24	1.40	1.036
24	1.40	1.036
14	1.38	1.215
14	1.37	1.251

325.99 Fluoride		
Lab	%	Other

61	1.68	-1.340
Median	1.67	0.000
61	1.65	1.340

325.XX Fluoride		
Lab	%	Total Method
34	1.68	-0.697
61	1.68	-0.697
32	1.66	-0.563
61	1.65	-0.536
32	1.61	-0.322
31	1.57	-0.080
9	1.55	0.000
Median	1.55	0.000
23	1.55	0.027
23	1.52	0.161
24	1.40	0.804
24	1.40	0.804
14	1.38	0.938
14	1.37	0.965