

AFPC
2013-05 **Grade** **18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	12	17.61	0.25
Method Group 001.XX PCT			12	17.61	0.30
NITRATE NITROGEN					
Nitrate Nitrogen, Other		002.99	1	0.37	0.00
Method Group 002.XX PCT			1	0.37	0.00
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	17.59	0.16
Total Nitrogen, Salicylic	955.04d	010.12	1	17.78	0.00
Total Nitrogen, Combustion	993.13	010.60	19	18.19	0.16
Total Nitrogen, Other		010.99	6	18.04	0.08
Method Group 010.XX PCT			29	18.07	0.25
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	46.21	0.00
Total Phosphate, Spectrometric	978.02	020.20	16	46.25	0.23
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.54	0.00
Total Phosphate, ICP	970.03	020.40	1	46.31	0.00
Total Phosphate, Other	993.13	020.99	1	46.34	0.00
Method Group 020.XX PCT			20	46.27	0.22
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.24	0.17
Insoluble Phosphate, Automated	978.01	030.40	2	0.24	0.02
Insoluble Phosphate, Other		030.99	2	0.26	0.01
Method Group 030.XX PCT			16	0.24	0.10
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	12	46.05	0.30
Indirect Available Phosphate, Other		040.99	2	46.12	0.05
Method Group 040.XX PCT			14	46.05	0.33
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	45.57	0.26
Direct Available Phosphate, Automated	978.01	041.40	2	46.00	1.03
Direct Available Phosphate, ICP		041.50	5	45.72	1.03
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	46.27	0.28
Method Group 041.XX PCT			15	46.11	1.02
WATER SOLUBLE PHOSPHATE					
Water Soluble Phosphate, Spectrometric	970.01	048.20	12	41.54	0.26
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	39.48	0.00
Water Soluble Phosphate, Other		048.99	4	42.02	0.26
Method Group 048.XX PCT			17	41.69	0.41
SOLUBLE POTASH AS K₂O					
Soluble Potash, ICP(Oxalate)		050.50	2	0.20	0.00
Soluble Potash, Other		050.99	8	0.19	0.01
Method Group 050.XX PCT			10	0.19	0.00
FREE WATER					
Free Water, Vacuum Oven	965.08B	060.00	15	1.97	0.20
Free Water, Vacuum Desiccate	965.08A	060.10	2	3.32	0.01
Method Group 060.XX PCT			17	1.99	0.24
ACID SOLUBLE CALCIUM AS CaO					
Acid Soluble Calcium, ICP		101.30	15	0.32	0.02
Method Group 101.XX PCT			15	0.32	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, ICP	121.30	16	1.01	0.06
Method Group 121.XX PCT		16	1.01	0.07

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	3	3.17	0.79
Sulfur, Spectrometric		144.70	2	1.07	0.01
Sulfur, Other		144.99	10	1.07	0.04
Method Group 144.XX PCT			15	1.08	0.02

TOTAL SULFUR (S)

Sulfur, Other		145.99	4	1.08	0.10
Method Group 145.XX PCT			4	1.08	0.13

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	5	12	1.1
Method Group 151.XX PPM			5	12	1.3

ACID SOLUBLE BORON

Acid Soluble Boron, Other		165.99	1	35	0.0
Method Group 165.XX PPM			1	35	0.0

TOTAL CADMIUM

Total Cadmium, ICP		181.30	7	3	0.3
Total Cadmium, Other		181.99	1	3	0.0
Method Group 181.XX PPM			8	3	0.3

ALUMINUM AS Al₂O₃

ICP, %			15	1.61	0.03
Method Group 190.XX PCT			15	1.61	0.04

TOTAL CHROMIUM

Total Chromium, ICP		191.30	7	78	2.9
Total Chromium, Other		191.99	1	78	0.0
Method Group 191.XX PPM			8	78	3.1

ACID SOLUBLE COBALT

Acid Soluble Cobalt, ICP		202.30	5	3	0.2
Acid Soluble Cobalt, Other		202.99	1	2	0.0
Method Group 202.XX PPM			6	3	0.5

ACID SOLUBLE COPPER

Acid Soluble Copper, ICP		221.30	2	1	0.0
Method Group 221.XX PPM			2	1	0.0

ACID SOLUBLE IRON AS Fe₂O₃

Acid Soluble Iron, ICP		241.30	16	1.29	0.02
Method Group 241.XX PCT			16	1.29	0.03

TOTAL LEAD

Total Lead, ICP		251.30	2	1	0.0
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			3	1	0.2

ACID SOLUBLE MANGANESE

Acid Soluble Manganese, ICP	972.02a	261.30	2	288	24.7
Acid Soluble Manganese, Other		261.99	5	316	20.9
Method Group 261.XX PPM			7	316	16.1

TOTAL MOLYBDENUM

Total Molybdenum, ICP		289.30	6	13	0.7
Total Molybdenum, Other		289.99	1	13	0.0
Method Group 289.XX PPM			7	13	0.8

TOTAL NICKEL

Total Nickel, ICP		291.30	6	11	0.8
Total Nickel, Other		291.99	1	10	0.0
Method Group 291.XX PPM			7	11	1.1

SODIUM AS Na₂O

Sodium, Atomic Absorbtion	983.04	311.00	1	0.24	0.00
Sodium, Other		311.99	7	0.24	0.02
Method Group 311.XX PCT			8	0.24	0.02
ACID SOLUBLE ZINC					
Acid Soluble Zinc, ICP		321.30	5	40.6	4.5
Acid Soluble Zinc, Other		321.99	2	36.5	0.4
Method Group 321.XX PPM			7	37.0	4.8
FLUORIDE					
Water Soluble Zinc, Atomic Absorption		325.00	1	2.18	0.00
Volumetric		325.10	11	2.15	0.07
Distilled/Electrode		325.99	2	2.18	0.01
Method Group 325.XX PCT			14	2.16	0.06

001.99 Ammoniacal Nitrogen		
Lab		Other
61	17.83	-0.880
34	17.82	-0.860
61	17.81	-0.819
23	17.76	-0.597
23	17.74	-0.536
140	17.73	-0.475
Median	17.61	0.000
24	17.49	0.475
24	17.46	0.597
32	17.45	0.637
32	17.40	0.839
Std Dev	17.36	1.000
31	17.17	1.790
38	17.00	2.458

001.XX Ammoniacal Nitrogen		
Lab		Total Method
61	17.83	-0.880
34	17.82	-0.860
61	17.81	-0.819
23	17.76	-0.597
23	17.74	-0.536
140	17.73	-0.475
Median	17.61	0.000
24	17.49	0.475
24	17.46	0.597
32	17.45	0.637
32	17.40	0.839
Std Dev	17.36	1.000
31	17.17	1.790
38	17.00	2.458

002.99 Nitrate Nitrogen		
Lab		Other
38	0.37	0.000
Median	0.37	0.000

002.XX Nitrate Nitrogen		
Lab		Total Method
38	0.37	0.000
Median	0.37	0.000

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	18.02	-2.650
Std Dev	17.75	-1.000
43	17.59	0.000
Median	17.59	0.000
43	17.58	0.030

010.12 Total Nitrogen		
Lab		Salicylic
107	17.78	0.000
Median	17.78	0.000

010.60 Total Nitrogen		
Lab		Combustion
49	18.36	-1.047
47	18.36	-1.047
Std Dev	18.35	-1.000
14	18.31	-0.739
14	18.30	-0.709
24	18.25	-0.400
24	18.23	-0.277
63	18.23	-0.277
63	18.23	-0.246
9	18.21	-0.123
77	18.19	0.000
Median	18.19	0.000
64	18.16	0.154
111	18.14	0.308
29	18.12	0.400
219	18.06	0.770
Std Dev	18.02	1.000
66	17.99	1.232
80	17.95	1.448
103	17.87	1.971
38	17.78	2.526
31	17.67	3.204

010.99 Total Nitrogen		
Lab		Other
34	18.16	-1.588
Std Dev	18.12	-1.000
140	18.07	-0.397
32	18.06	-0.199

Median	18.04	0.000
99	18.03	0.199
Std Dev	17.96	1.000
32	17.95	1.257
40	17.63	5.492

010.XX Total Nitrogen		
Lab		Total Method
49	18.36	-1.364
47	18.36	-1.364
14	18.31	-1.125
14	18.30	-1.101
Std Dev	18.28	-1.000
24	18.25	-0.861
24	18.23	-0.766
63	18.23	-0.766
63	18.23	-0.742
9	18.21	-0.646
77	18.19	-0.550
34	18.16	-0.431
64	18.16	-0.431
111	18.14	-0.311
29	18.12	-0.239
140	18.07	0.000
Median	18.07	0.000
219	18.06	0.048
32	18.06	0.072
99	18.03	0.215
219	18.02	0.239
66	17.99	0.407
80	17.95	0.574
32	17.95	0.598
103	17.87	0.981
Std Dev	17.86	1.000
107	17.78	1.388
38	17.78	1.412
31	17.67	1.938
40	17.63	2.130
43	17.59	2.321
43	17.58	2.345

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
40	46.21	0.000

Median	46.21	0.000
---------------	--------------	--------------

020.20 Total Phosphate		
Lab		Spectrometric
140	46.53	-1.187
Std Dev	46.48	-1.000
32	46.47	-0.948
61	46.45	-0.839
9	46.41	-0.686
34	46.36	-0.468
24	46.34	-0.381
14	46.27	-0.054
14	46.27	-0.054
Median	46.25	0.000
24	46.24	0.054
61	46.24	0.076
23	46.15	0.447
23	46.08	0.752
Std Dev	46.02	1.000
31	46.02	1.013
43	46.00	1.100
43	46.00	1.122
32	45.82	1.885

020.30 Total Phosphate		
Lab		Alka. Quimociac
111	46.54	0.000
Median	46.54	0.000

020.40 Total Phosphate		
Lab		Automated
9	46.31	0.000
Median	46.31	0.000

020.99 Total Phosphate		
Lab		Other
99	46.34	0.000
Median	46.34	0.000

020.XX Total Phosphate		
Lab		Total Method
111	46.54	-1.507
140	46.53	-1.452
32	46.47	-1.145

61	46.45	-1.005
Std Dev	46.44	-1.000
9	46.41	-0.810
34	46.36	-0.530
24	46.34	-0.419
99	46.34	-0.419
9	46.31	-0.251
14	46.27	0.000
14	46.27	0.000
Median	46.27	0.000
24	46.24	0.140
61	46.24	0.168
40	46.21	0.307
23	46.15	0.642
Std Dev	46.09	1.000
23	46.08	1.033
31	46.02	1.368
43	46.00	1.480
43	46.00	1.507
32	45.82	2.485

030.20 Insoluble Phosphate Spectrometric		
Lab		
43	0.42	-1.078
Std Dev	0.40	-1.000
61	0.40	-0.946
43	0.36	-0.721
23	0.29	-0.285
23	0.26	-0.105
31	0.24	-0.015
Median	0.24	0.000
140	0.24	0.015
61	0.20	0.255
24	0.08	0.946
24	0.08	0.946
Std Dev	0.07	1.000
14	0.06	1.096
14	0.06	1.096

030.40 Insoluble Phosphate Automated		
Lab		
9	0.26	-1.340
Std Dev	0.25	-1.000
Median	0.24	0.000

Std Dev	0.22	1.000
34	0.21	1.340

030.99 Insoluble Phosphate Other		
Lab		
32	0.28	-1.340
Std Dev	0.28	-1.000
Median	0.26	0.000
Std Dev	0.25	1.000
32	0.25	1.340

030.XX Insoluble Phosphate Total Method		
Lab		
43	0.42	-2.033
61	0.40	-1.777
43	0.36	-1.340
Std Dev	0.33	-1.000
23	0.29	-0.495
32	0.28	-0.437
9	0.26	-0.204
23	0.26	-0.146
32	0.25	-0.029
Median	0.24	0.000
31	0.24	0.029
140	0.24	0.087
34	0.21	0.379
61	0.20	0.553
Std Dev	0.16	1.000
24	0.08	1.893
24	0.08	1.893
14	0.06	2.185
14	0.06	2.185

040.20 Indirect Available Phosphate Spectrometric		
Lab		
140	46.29	-0.829
24	46.26	-0.727
14	46.21	-0.558
14	46.21	-0.558
24	46.17	-0.423
61	46.05	-0.017
Median	46.05	0.000
61	46.04	0.017
23	45.87	0.609

23	45.83	0.744
31	45.78	0.896
Std Dev	45.75	1.000
43	45.54	1.708
43	45.52	1.775

040.99 Indirect Available Phosphate Other		
Lab		
34	46.18	-1.340
Std Dev	46.16	-1.000
Median	46.12	0.000
Std Dev	46.07	1.000
9	46.05	1.340

040.XX Indirect Available Phosphate Total Method		
Lab		
140	46.29	-0.875
24	46.26	-0.766
14	46.21	-0.583
14	46.21	-0.583
34	46.18	-0.474
24	46.17	-0.438
9	46.05	0.000
61	46.05	0.000
Median	46.05	0.000
61	46.04	0.036
23	45.87	0.675
23	45.83	0.820
31	45.78	0.984
Std Dev	45.78	1.000
43	45.54	1.860
43	45.52	1.933

041.10 Direct Available Phosphate Gravimetric Quimociac		
Lab		
219	46.06	-1.850
Std Dev	45.83	-1.000
47	45.57	0.000
Median	45.57	0.000
107	45.35	0.830

041.40 Direct Available Phosphate Automated		
Lab		
38	47.37	-1.340

Std Dev	47.02	-1.000
Median	46.00	0.000
Std Dev	44.97	1.000
103	44.62	1.340

041.50 Direct Available Phosphate ICP		
Lab		
63	46.69	-0.940
63	46.68	-0.936
47	45.72	0.000
Median	45.72	0.000
66	45.31	0.404
80	45.00	0.702

041.60 Direct Available Phosphate EDTA Extract		
Lab		
49	46.66	-1.390
Std Dev	46.55	-1.000
77	46.51	-0.873
219	46.27	0.000
Median	46.27	0.000
29	46.13	0.467
64	46.11	0.552

041.XX Direct Available Phosphate Total Method		
Lab		
38	47.37	-1.504
Std Dev	46.95	-1.000
63	46.69	-0.686
63	46.68	-0.680
49	46.66	-0.651
77	46.51	-0.478
219	46.27	-0.185
29	46.13	-0.029
64	46.11	0.000
Median	46.11	0.000
219	46.06	0.060
47	45.72	0.466
47	45.57	0.645
107	45.35	0.907
66	45.31	0.961

Std Dev	45.27	1.000
80	45.00	1.325
103	44.62	1.779

048.20 Water Soluble Phosphate Spectrometric		
Lab		
24	41.95	-1.555
24	41.85	-1.173
Std Dev	41.80	-1.000
23	41.79	-0.944
23	41.73	-0.715
61	41.69	-0.563
61	41.61	-0.277
Median	41.54	0.000
140	41.47	0.277
31	41.43	0.410
43	41.39	0.563
43	41.39	0.582
14	41.29	0.963
Std Dev	41.28	1.000
14	41.25	1.097

048.30 Water Soluble Phosphate Alka. Quimociac		
Lab		
111	39.48	0.000
Median	39.48	0.000

048.99 Water Soluble Phosphate Other		
Lab		
32	42.18	-0.626
32	42.18	-0.626
Median	42.02	0.000
9	41.86	0.626
34	41.77	0.978

048.XX Water Soluble Phosphate Total Method		
Lab		
32	42.18	-1.458
32	42.18	-1.458
Std Dev	42.02	-1.000
24	41.95	-0.766
9	41.86	-0.515
24	41.85	-0.471
23	41.79	-0.295
34	41.77	-0.250
23	41.73	-0.118
61	41.69	0.000

Median 41.69 0.000		
61	41.61	0.221
140	41.47	0.648
31	41.43	0.751
43	41.39	0.869
43	41.39	0.884
Std Dev	41.35	1.000
14	41.29	1.178
14	41.25	1.281
111	39.48	6.509

050.50 %K ₂ O Soluble Potash ICP(Oxalate)		
Lab		
23	0.20	0.000
23	0.20	0.000
Median	0.20	0.000

050.99 %K ₂ O Soluble Potash Other		
Lab		
80	1.03	-125.533
61	0.20	-1.479
Std Dev	0.20	-1.000
61	0.20	-0.727
43	0.19	-0.025
Median	0.19	0.000
24	0.19	0.025
43	0.19	0.057
Std Dev	0.18	1.000
24	0.18	1.528
99	0.17	3.032

050.XX %K ₂ O Soluble Potash Total Method		
Lab		
80	1.03	-216.089
61	0.20	-1.905
Std Dev	0.20	-1.000
23	0.20	-0.607
23	0.20	-0.607
61	0.20	-0.607
Median	0.19	0.000
43	0.19	0.607
24	0.19	0.691
43	0.19	0.747
Std Dev	0.19	1.000

24	0.18	3.288
99	0.17	5.884

060.00 Free Water Vacuum Oven		
Lab		
31	2.82	-4.365
140	2.32	-1.787
Std Dev	2.16	-1.000
24	2.11	-0.715
32	2.10	-0.664
24	2.09	-0.613
23	2.02	-0.255
23	1.99	-0.128
9	1.97	0.000
Median	1.97	0.000
32	1.96	0.026
111	1.95	0.077
34	1.84	0.638
43	1.82	0.766
43	1.81	0.791
Std Dev	1.77	1.000
14	1.56	2.093
14	1.53	2.221

060.10 Free Water Vacuum Desiccate		
Lab		
61	3.34	-1.340
Std Dev	3.33	-1.000
Median	3.32	0.000
Std Dev	3.31	1.000
61	3.30	1.340

060.XX Free Water Total Method		
Lab		
61	3.34	-6.826
61	3.30	-6.624
31	2.82	-4.197
140	2.32	-1.643
Std Dev	2.19	-1.000
24	2.11	-0.582
32	2.10	-0.531
24	2.09	-0.480
23	2.02	-0.126
23	1.99	0.000

Median 1.99 0.000		
9	1.97	0.126
32	1.96	0.152
111	1.95	0.202
34	1.84	0.758
43	1.82	0.885
43	1.81	0.910
Std Dev	1.79	1.000
14	1.56	2.200
14	1.53	2.326

101.30 %CaO Acid Soluble Calcium ICP		
Lab		
31	0.38	-2.903
34	0.35	-1.563
61	0.35	-1.563
Std Dev	0.34	-1.000
24	0.34	-0.893
24	0.33	-0.447
23	0.32	-0.223
32	0.32	-0.223
23	0.32	0.000
Median	0.32	0.000
32	0.31	0.223
61	0.31	0.223
14	0.30	0.670
14	0.30	0.670
Std Dev	0.29	1.000
43	0.29	1.055
43	0.29	1.174
9	0.28	1.563

101.XX %CaO Acid Soluble Calcium Total Method		
Lab		
31	0.38	-2.903
34	0.35	-1.563
61	0.35	-1.563
Std Dev	0.34	-1.000
24	0.34	-0.893
24	0.33	-0.447
23	0.32	-0.223
32	0.32	-0.223
23	0.32	0.000
Median	0.32	0.000

32	0.31	0.223
61	0.31	0.223
14	0.30	0.670
14	0.30	0.670
Std Dev	0.29	1.000
43	0.29	1.055
43	0.29	1.174
9	0.28	1.563

9	1.01	0.082
32	0.99	0.330
14	0.96	0.907
14	0.96	0.907
Std Dev	0.95	1.000
38	0.90	1.814
43	0.90	1.897
43	0.90	1.897

38	1.10	-1.914
Std Dev	1.09	-1.000
24	1.08	-0.383
24	1.08	-0.383
34	1.08	-0.383
219	1.08	-0.383
9	1.08	0.000
14	1.08	0.000
Median	1.08	0.000
23	1.07	0.383
23	1.07	0.766
Std Dev	1.06	1.000
14	1.06	1.149
32	1.02	4.211
31	1.00	6.126
32	0.96	9.189

43	10.55	1.322
43	10.45	1.413

151.XX	Total Arsenic	
Lab	Total Method	
24	12.40	-0.365
64	12.02	-0.018
61	12.00	0.000
Median	12.00	0.000
Std Dev	10.90	1.000
43	10.55	1.322
43	10.45	1.413

121.30	Acid Soluble Magnesium	
Lab	%MgO	ICP
31	1.49	-7.834
Std Dev	1.07	-1.000
24	1.05	-0.577
24	1.04	-0.495
61	1.04	-0.495
61	1.04	-0.412
34	1.03	-0.330
23	1.02	-0.082
23	1.01	0.000
32	1.01	0.000
Median	1.01	0.000
9	1.01	0.082
32	0.99	0.330
14	0.96	0.907
14	0.96	0.907
Std Dev	0.95	1.000
38	0.90	1.814
43	0.90	1.897
43	0.90	1.897

144..01	Sulfate Sulfur (S)	
Lab	Gravimetric	
61	3.21	-0.044
61	3.17	0.000
Median	3.17	0.000
Std Dev	2.38	1.000
219	1.08	2.636

144.70	Sulfur	
Lab	Spectrometric	
14	1.08	-1.340
Std Dev	1.07	-1.000
Median	1.07	0.000
Std Dev	1.06	1.000
14	1.06	1.340

145.99	Total Sulfur (S)	
Lab	Other	
38	1.41	-3.143
Std Dev	1.19	-1.000
43	1.10	-0.122
Median	1.08	0.000
43	1.07	0.122
Std Dev	0.98	1.000
111	0.93	1.486

165.99	Acid Soluble Boron	
Lab	PPM	Other
24	35.10	0.000
Median	35.10	0.000

144.99	Sulfate Sulfur (S)	
Lab	Other	
38	1.10	-0.756
24	1.08	-0.206
24	1.08	-0.206
34	1.08	-0.206
9	1.08	-0.069
Median	1.07	0.000
23	1.07	0.069
23	1.07	0.206
Std Dev	1.04	1.000
32	1.02	1.443
31	1.00	2.130
32	0.96	3.230

145.XX	Total Sulfur (S)	
Lab	Total Method	
38	1.41	-3.143
Std Dev	1.19	-1.000
43	1.10	-0.122
Median	1.08	0.000
43	1.07	0.122
Std Dev	0.98	1.000
111	0.93	1.486

165.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method
24	35.10	0.000
Median	35.10	0.000

121.XX	Acid Soluble Magnesium	
Lab	%MgO	Total Method
31	1.49	-7.834
Std Dev	1.07	-1.000
24	1.05	-0.577
24	1.04	-0.495
61	1.04	-0.495
61	1.04	-0.412
34	1.03	-0.330
23	1.02	-0.082
23	1.01	0.000
32	1.01	0.000
Median	1.01	0.000

144.XX	Sulfate Sulfur (S)	
Lab	Total Method	
61	3.21	-163.097
61	3.17	-160.417

151.30	Total Arsenic	
Lab	ICP	
24	12.40	-0.365
64	12.02	-0.018
61	12.00	0.000
Median	12.00	0.000
Std Dev	10.90	1.000

181.30	Total Cadmium	
Lab	PPM	ICP
9	3.58	-2.798
31	3.25	-1.702
Std Dev	3.04	-1.000
64	2.97	-0.742
43	2.75	0.000
Median	2.75	0.000
43	2.72	0.084
61	2.70	0.152
61	2.70	0.152

181.99	Total Cadmium	
Lab	Other	
24	2.73	0.000
Median	2.73	0.000

181.XX	Total Cadmium	
Lab	PPM	Total Method
9	3.58	-3.493
31	3.25	-2.138

Std Dev	2.98	-1.000
64	2.97	-0.949
43	2.75	-0.031
Median	2.74	0.000
24	2.73	0.031
43	2.72	0.073
61	2.70	0.156
61	2.70	0.156

190.00	Aluminum	
Lab	%Al ₂ O ₃	ICP
9	1.66	-1.419
14	1.65	-1.261
24	1.65	-1.261
Std Dev	1.64	-1.000
14	1.64	-0.946
32	1.64	-0.788
61	1.62	-0.315
34	1.61	0.000
61	1.61	0.000
Median	1.61	0.000
23	1.60	0.315
24	1.60	0.315
23	1.60	0.473
32	1.60	0.473
Std Dev	1.58	1.000
43	1.55	2.049
43	1.54	2.365
31	1.29	10.247

190.XX	Aluminum	
Lab	%Al ₂ O ₃	Total Method
9	1.66	-1.419
14	1.65	-1.261
24	1.65	-1.261
Std Dev	1.64	-1.000
14	1.64	-0.946
32	1.64	-0.788
61	1.62	-0.315
34	1.61	0.000
61	1.61	0.000
Median	1.61	0.000
23	1.60	0.315
24	1.60	0.315

23	1.60	0.473
32	1.60	0.473
Std Dev	1.58	1.000
43	1.55	2.049
43	1.54	2.365
31	1.29	10.247

191.30	Total Chromium	
Lab	ICP	
31	111.65	-11.697
Std Dev	80.88	-1.000
64	80.71	-0.942
61	79.50	-0.521
61	78.00	0.000
Median	78.00	0.000
43	76.50	0.521
43	76.00	0.695
9	75.95	0.713

191.99	Total Chromium	
Lab	PPM	Other
24	78.20	0.000
Median	78.20	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
31	111.65	-13.117
64	80.71	-1.020
Std Dev	80.66	-1.000
61	79.50	-0.547
24	78.20	-0.039
Median	78.10	0.000
61	78.00	0.039
43	76.50	0.626
43	76.00	0.821
9	75.95	0.841

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
61	2.80	-1.152
Std Dev	2.77	-1.000
61	2.75	-0.884
9	2.59	0.000
Median	2.59	0.000

43	2.50	0.456
Std Dev	2.40	1.000
43	2.00	3.136

202.99	Acid Soluble Cobalt	
Lab	Other	
24	2.06	0.000
Median	2.06	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
61	2.80	-0.640
61	2.75	-0.516
9	2.59	-0.106
Median	2.54	0.000
43	2.50	0.106
Std Dev	2.14	1.000
24	2.06	1.200
43	2.00	1.349

221.30	Acid Soluble Copper	
Lab	PPM	ICP
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000

221.99	Acid Soluble Copper	
Lab	Other	
24	<0.03	0.000
Median	0.00	0.000

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
24	<0.03	0.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP
31	1.81	-21.234
32	1.34	-1.855
34	1.32	-1.237
Std Dev	1.31	-1.000

24	1.31	-0.825
24	1.30	-0.412
61	1.30	-0.412
61	1.30	-0.206
23	1.29	0.000
23	1.29	0.000
Median	1.29	0.000
32	1.29	0.206
14	1.28	0.412
14	1.28	0.618
Std Dev	1.27	1.000
9	1.26	1.443
43	1.24	2.268
43	1.23	2.680
38	1.18	4.742

241.XX	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Total Method
31	1.81	-21.234
32	1.34	-1.855
34	1.32	-1.237
Std Dev	1.31	-1.000
24	1.31	-0.825
24	1.30	-0.412
61	1.30	-0.412
61	1.30	-0.206
23	1.29	0.000
23	1.29	0.000
Median	1.29	0.000
32	1.29	0.206
14	1.28	0.412
14	1.28	0.618
Std Dev	1.27	1.000
9	1.26	1.443
43	1.24	2.268
43	1.23	2.680
38	1.18	4.742

251.30	Total Lead	
Lab	PPM	ICP
61	<1	0.000
61	<1	0.000
43	1.00	0.000
43	1.00	0.000

Median 1.00 0.000

251.99 Total Lead		
Lab	PPM	Other
24	0.57	0.000
Median	0.57	0.000

251.XX Total Lead		
Lab	PPM	Total Method
61	<1	0.000
61	<1	0.000
43	1.00	0.000
43	1.00	0.000
Median	1.00	0.000
24	0.57	2.680

261.30 Acid Soluble Manganese		
Lab	PPM	ICP
9	321.50	-1.340
Std Dev	313.09	-1.000
Median	288.35	0.000
Std Dev	263.61	1.000
31	255.20	1.340

261.99 Acid Soluble Manganese		
Lab	PPM	Other
43	345.50	-1.412
43	343.00	-1.292
Std Dev	336.90	-1.000
61	316.00	0.000
Median	316.00	0.000
24	315.00	0.048
61	314.00	0.096

261.XX Acid Soluble Manganese		
Lab	PPM	Total Method
43	345.50	-2.227
43	343.00	-2.038
Std Dev	329.25	-1.000
9	321.50	-0.415
61	316.00	0.000
Median	316.00	0.000
24	315.00	0.075
61	314.00	0.151

Std Dev 302.75 1.000
31 255.20 4.590

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
61	13.50	-0.832
64		

289.99 Total Molybdenum		
Lab	PPM	Other
24	13.40	0.000
Median	13.40	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
61	13.50	-0.228
64	13.42	-0.099
24	13.40	-0.076
9	13.35	0.000
Median	13.35	0.000
Std Dev	12.69	1.000
43	12.55	1.215
43	12.50	1.291
61	12.50	1.291

291.30 Total Nickel		
Lab	PPM	ICP
61	12.00	-1.420
Std Dev	11.65	-1.000
61	11.00	-0.232
64	10.81	-0.006
Median	10.81	0.000
9	10.80	0.006
Std Dev	9.96	1.000
43	9.50	1.551

43 9.00 2.145

291.99 Total Nickel		
Lab	PPM	Other
24	9.96	0.000
Median	9.96	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
61	12.00	-1.369
Std Dev	11.68	-1.000
61	11.00	-0.228
64	10.81	-0.011
9	10.80	0.000
Median	10.80	0.000
24	9.96	0.958
Std Dev	9.92	1.000
43	9.50	1.483
43	9.00	2.053

301.30 Total Selenium		
Lab	PPM	ICP
24	<0.28	0.000
Median	0.00	0.000

301.XX Total Selenium		
Lab	PPM	Total Method
24	<0.28	0.000
Median	0.00	0.000

311.00 Sodium		
Lab	%Na ₂ O	Atomic Absorbtion
61	0.24	0.000
Median	0.24	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other
24	0.26	-1.353
Std Dev	0.25	-1.000
24	0.24	-0.271
23	0.24	0.000
23	0.24	0.000
Median	0.24	0.000
61	0.23	0.271

Std Dev 0.22 1.000
43 0.20 2.139
43 0.19 2.288

311.XX Sodium		
Lab	%Na ₂ O	Total Method
24	0.26	-1.799
Std Dev	0.25	-1.000
24	0.24	-0.360
61	0.24	-0.360
23	0.24	0.000
23	0.24	0.000
Median	0.24	0.000
61	0.23	0.360
Std Dev	0.22	1.000
43	0.20	2.842
43	0.19	3.041

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
64	42.16	-0.348
9	41.50	-0.201
24	40.60	0.000
Median	40.60	0.000
Std Dev	36.12	1.000
61	35.50	1.139
61	35.50	1.139

321.99 Acid Soluble Zinc		
Lab	PPM	Other
43	37.00	-1.340
Std Dev	36.87	-1.000
Median	36.50	0.000
Std Dev	36.13	1.000
43	36.00	1.340

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
64	42.16	-1.305
9	41.50	-1.138
Std Dev	40.96	-1.000
24	40.60	-0.910
43	37.00	0.000
Median	37.00	0.000

43	36.00	0.253	24	2.04	2.283
61	35.50	0.379	14	1.81	6.948
61	35.50	0.379	14	1.80	7.047

325.00		Fluoride
Lab		Volumetric
9	2.18	0.000
Median	2.18	0.000

325.10		Fluoride
Lab	%	Electrode
31	2.35	-2.749
111	2.23	-1.099
32	2.20	-0.687
32	2.16	-0.206
24	2.15	-0.069
23	2.15	0.000
Median	2.15	0.000
23	2.12	0.344
34	2.12	0.344
24	2.04	1.443
14	1.81	4.673
14	1.80	4.742

325.99		Fluoride
Lab	%	Other
61	2.19	-1.340
Median	2.18	0.000
61	2.17	1.340

325.XX		Fluoride
Lab	%	Total Method
31	2.35	-3.772
111	2.23	-1.390
32	2.20	-0.794
61	2.19	-0.695
9	2.18	-0.496
61	2.17	-0.298
32	2.16	-0.099
Median	2.16	0.000
24	2.15	0.099
23	2.15	0.199
23	2.12	0.695
34	2.12	0.695