

AFPC

Sample

2014-02

Grade

11-52-0

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
AMMONIACAL NITROGEN					
Ammoniacal Nitrogen, Other		001.99	13	11.27	0.03
Method Group 001.XX PCT			13	11.27	0.04
TOTAL NITROGEN					
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	11.27	0.00
Total Nitrogen, Combustion	993.13	010.60	16	11.20	0.12
Total Nitrogen, Other		010.99	3	11.25	0.07
Method Group 010.XX PCT			20	11.23	0.14
TOTAL PHOSPHATE					
Total Phosphate, Gravimetric Quimociac		020.10	1	53.59	0.00
Total Phosphate, Spectrometric	978.02	020.20	16	53.57	0.38
Total Phosphate, ICP	970.03	020.40	3	53.35	0.37
Total Phosphate, Other	993.13	020.99	1	53.62	0.00
Method Group 020.XX PCT			21	53.59	0.45
INSOLUBLE PHOSPHATE					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	9	0.14	0.02
Insoluble Phosphate, Automated	978.01	030.40	2	0.19	0.05
Insoluble Phosphate, Other		030.99	2	0.30	0.00
Method Group 030.XX PCT			13	0.14	0.05
INDIRECT AVAILABLE PHOSPHATE					
Indirect Available Phosphate, Spectrometric	960.02	040.20	10	53.32	0.30
Indirect Available Phosphate, Automated	960.02	040.40	1	53.95	0.00
Indirect Available Phosphate, Other		040.99	1	53.33	0.00
Method Group 040.XX PCT			12	53.33	0.38
DIRECT AVAILABLE PHOSPHATE					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	1	53.80	0.00
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	51.85	0.00
Direct Available Phosphate, Automated	978.01	041.40	3	52.26	2.23
Direct Available Phosphate, ICP		041.50	3	52.54	0.28

Direct Available Phosphate, EDTA Extract	993.01	041.60	4	53.54	0.25
Direct Available Phosphate, Other		041.99	2	54.01	0.08
Method Group 041.XX PCT			14	53.31	1.27

WATER SOLUBLE PHOSPHATE

Water Soluble Phosphate, Spectrometric	970.01	048.20	13	48.20	0.41
Water Soluble Phosphate, Other		048.99	3	48.82	0.17
Method Group 048.XX PCT			16	48.26	0.48

SOLUBLE POTASH AS K₂O

Soluble Potash, ICP(Oxalate)		050.50	2	0.12	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.17	0.00
Soluble Potash, Flame Photometric(Citrate)	983.02B(b)	050.61	1	0.24	0.00
Soluble Potash, Other		050.99	6	0.13	0.01
Method Group 050.XX PCT			10	0.13	0.02

FREE WATER

Free Water, Vacuum Oven	965.08B	060.00	13	1.03	0.10
Free Water, Vacuum Desiccate	965.08A	060.10	2	1.26	0.07
Free Water, Other		060.99	2	1.18	0.00
Method Group 060.XX PCT			17	1.06	0.14

ACID SOLUBLE CALCIUM AS CaO

Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.91	0.00
Acid Soluble Calcium, ICP		101.30	12	0.87	0.02
Acid Soluble Calcium, Other		101.99	1	0.90	0.00
Method Group 101.XX PCT			14	0.88	0.03

ACID SOLUBLE MAGNESIUM AS MgO

Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	0.84	0.00
Acid Soluble Magnesium, ICP		121.30	12	1.10	0.03
Acid Soluble Magnesium, Other		121.99	1	0.92	0.00
Method Group 121.XX PCT			14	1.09	0.08

SULFATE SULFUR (S)

Sulfur, Gravimetric	980.02(a)	144.01	4	1.41	0.02
Sulfur, Spectrometric		144.70	2	1.36	0.00
Sulfur, Other		144.99	9	1.36	0.03
Method Group 144.XX PCT			15	1.36	0.06

TOTAL ARSENIC

Total Arsenic, ICP	980.02(b)	151.02	3	23	1.3
Method Group 151.XX PPM			3	23	1.6

ACID SOLUBLE BORON

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Acid Soluble Boron, Other		165.99	1	35	0.0
Method Group 165.XX PPM			1	35	0.0
TOTAL CADMIUM					
Total Cadmium, Atomic Absorbtion		181.00	1	130	0.0
Total Cadmium, ICP		181.30	3	134	1.5
Total Cadmium, Other		181.99	1	138	0.0
Method Group 181.XX PPM			5	134	3.6
ALUMINUM AS Al₂O₃					
ICP, %			12	1.66	0.04
Method Group 190.XX PCT			12	1.66	0.05
TOTAL CHROMIUM					
Total Chromium, ICP		191.30	3	543	2.1
Total Chromium, Other		191.99	1	570	0.0
Method Group 191.XX PPM			4	544	7.8
ACID SOLUBLE COBALT					
Acid Soluble Cobalt, ICP		202.30	3	5	0.2
Acid Soluble Cobalt, Other		202.99	1	5	0.0
Method Group 202.XX PPM			4	5	0.2
ACID SOLUBLE COPPER					
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	1	0.0
Acid Soluble Copper, ICP		221.30	2	82	0.2
Acid Soluble Copper, Other		221.99	4	0	3.9
Method Group 221.XX PPM			6	82	3.4
ACID SOLUBLE IRON AS Fe₂O₃					
Acid Soluble Iron, ICP		241.30	12	1.26	0.02
Acid Soluble Iron, Other		241.99	2	1.17	0.06
Method Group 241.XX PCT			15	1.26	0.04
TOTAL LEAD					
Total Lead, ICP		251.30	2	3	0.2
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			3	3	0.7
ACID SOLUBLE MANGANESE					
Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	201	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	1	214	0.0

Acid Soluble Manganese, Other		261.99	4	201	2.9
Method Group 261.XX PPM			6	201	9.0
TOTAL MOLYBDENUM					
Total Molybdenum, ICP		289.30	3	16	2.1
Total Molybdenum, Other		289.99	1	20	0.0
Method Group 289.XX PPM			4	18	4.1
TOTAL NICKEL					
Total Nickel, ICP		291.30	3	272	14.7
Total Nickel, Other		291.99	1	287	0.0
Method Group 291.XX PPM			4	279	19.5
TOTAL SELENIUM					
Total Selenium, ICP		301.30	2	0	0.0
Method Group 301.XX PPM			2	0	0.0
SODIUM AS Na₂O					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.19	0.00
Sodium, Other		311.99	5	0.19	0.00
Method Group 311.XX PCT			6	0.19	0.00
ACID SOLUBLE ZINC					
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	1	1841.0	0.0
Acid Soluble Zinc, ICP		321.30	4	1722.8	171.1
Acid Soluble Zinc, Other		321.99	1	1765.5	0.0
Method Group 321.XX PPM			6	1790.5	155.2
FLUORIDE					
Volumetric		325.10	11	1.53	0.12
Electrode	AFPC	325.30	1	1.61	0.00
Distilled/Electrode		325.99	2	1.59	0.01
Method Group 325.XX PCT			14	1.57	0.15

001.99 Ammoniacal Nitrogen		
Lab		Other
275	11.42	-4.318
79	11.35	-2.382
Std Dev	11.30	-1.000
275	11.30	-0.744
32	11.29	-0.596
24	11.28	-0.298
24	11.27	0.000
34	11.27	0.000
Median	11.27	0.000
61	11.26	0.298
32	11.25	0.596
23	11.25	0.744
Std Dev	11.24	1.000
23	11.21	1.936
61	11.17	2.978
38	10.34	27.693

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275	11.42	-4.318
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24	11.27	0.000
34	11.27	0.000
Median	11.27	0.000
61	11.26	0.298
32	11.25	0.596
23	11.25	0.744
Std Dev	11.24	1.000
23	11.21	1.936
61	11.17	2.978
38	10.34	27.693

010.11 Total Nitrogen		
Lab		Modified Comprehensive
219	11.27	0.000
Median	11.27	0.000

010.60 Total Nitrogen		
Lab		Combustion
219	11.35	-1.233
79	11.33	-1.069
Std Dev	11.32	-1.000
24	11.31	-0.904
14	11.28	-0.617
49	11.27	-0.575
14	11.26	-0.493
66	11.25	-0.370
24	11.22	-0.164
Median	11.20	0.000
63	11.18	0.164
9	11.17	0.288
80	11.15	0.411
29	11.12	0.691
77	11.09	0.945
Std Dev	11.08	1.000
103	10.88	2.672
137	10.80	3.329
38	10.78	3.494

010.99 Total Nitrogen		
Lab		Other
32	11.29	-0.564
32	11.25	0.000
Median	11.25	0.000
Std Dev	11.18	1.000
99	11.10	2.116

010.XX Total Nitrogen		
Lab		Total Method
219	11.35	-0.989
79	11.33	-0.820
24	11.31	-0.652
32	11.29	-0.484
14	11.28	-0.358
49	11.27	-0.316
219	11.27	-0.316
14	11.26	-0.231
32	11.25	-0.147
66	11.25	-0.105
Median	11.23	0.000
24	11.22	0.105

63	11.18	0.442
9	11.17	0.568
80	11.15	0.694
29	11.12	0.980
Std Dev	11.11	1.000
99	11.10	1.115
77	11.09	1.241
103	10.88	3.008
137	10.80	3.681
38	10.78	3.850

020.10 Total Phosphate		
Lab		Gravimetric Quimociac
219	53.59	0.000
Median	53.59	0.000

020.20 Total Phosphate		
Lab		Spectrometric
275	54.22	-1.714
275	54.13	-1.478
9	54.12	-1.439
Std Dev	53.95	-1.000
24	53.85	-0.742
24	53.81	-0.624
32	53.64	-0.190
32	53.59	-0.059
34	53.59	-0.059
Median	53.57	0.000
61	53.55	0.059
23	53.51	0.164
23	53.47	0.269
79	53.31	0.677
14	53.30	0.716
14	53.28	0.755
61	53.24	0.860
Std Dev	53.19	1.000
220	53.11	1.190

020.40 Total Phosphate		
Lab		Automated
9	54.07	-1.920
Std Dev	53.72	-1.000
219	53.35	0.000
Median	53.35	0.000

137	53.06	0.760
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020.99 Total Phosphate		
Lab		Other
99	53.62	0.000
Median	53.62	0.000

020.XX Total Phosphate		
Lab		Total Method
275	54.22	-1.705
275	54.13	-1.462
9	54.12	-1.421
9	54.07	-1.286
Std Dev	53.96	-1.000
24	53.85	-0.704
24	53.81	-0.582
32	53.64	-0.135
99	53.62	-0.081
32	53.59	0.000
34	53.59	0.000
219	53.59	0.000
Median	53.59	0.000
61	53.55	0.122
23	53.51	0.230
23	53.47	0.338
219	53.35	0.663
79	53.31	0.758
14	53.30	0.799
14	53.28	0.839
61	53.24	0.947
Std Dev	53.22	1.000
220	53.11	1.287
137	53.06	1.435

030.20 Insoluble Phosphate		
Lab		Spectrometric
23	0.18	-1.563
23	0.17	-1.117
Std Dev	0.16	-1.000
61	0.15	-0.447
24	0.14	0.000
24	0.14	0.000
Median	0.14	0.000
79	0.13	0.670

14	0.12	0.893
Std Dev	0.12	1.000
14	0.12	1.117
61	0.10	1.787

030.40 Insoluble Phosphate		
Lab		Automated
34	0.26	-1.340
Std Dev	0.24	-1.000
Median	0.19	0.000
Std Dev	0.13	1.000
9	0.12	1.340

030.99 Insoluble Phosphate		
Lab		Other
32	0.31	-1.340
Std Dev	0.30	-1.000
Median	0.30	0.000
Std Dev	0.30	1.000
32	0.30	1.340

030.XX Insoluble Phosphate		
Lab		Total Method
32	0.31	-4.020
32	0.30	-3.898
34	0.26	-2.924
Std Dev	0.18	-1.000
23	0.18	-0.853
23	0.17	-0.609
61	0.15	-0.244
24	0.14	0.000
24	0.14	0.000
Median	0.14	0.000
79	0.13	0.365
14	0.12	0.487
9	0.12	0.609
14	0.12	0.609
61	0.10	0.975

040.20 Indirect Available Phosphate		
Lab		Spectrometric
9	54.00	-2.280
24	53.71	-1.315
24	53.67	-1.182

Std Dev	53.62	-1.000
61	53.45	-0.433
23	53.33	-0.050
Median	53.32	0.000
23	53.30	0.050
14	53.29	0.083
79	53.19	0.433
14	53.16	0.516
61	53.14	0.583

040.40 Indirect Available Phosphate		
Lab		Automated
9	53.95	0.000
Median	53.95	0.000

040.99 Indirect Available Phosphate		
Lab		Other
34	53.33	0.000
Median	53.33	0.000

040.XX Indirect Available Phosphate		
Lab		Total Method
9	54.00	-2.157
9	53.95	-1.996
24	53.71	-1.223
24	53.67	-1.095
Std Dev	53.64	-1.000
61	53.45	-0.370
23	53.33	0.000
34	53.33	0.000
Median	53.33	0.000
23	53.30	0.097
14	53.29	0.129
79	53.19	0.467
14	53.16	0.547
61	53.14	0.612

041.10 Direct Available Phosphate		
Lab		Gravimetric Quimociac
219	53.80	0.000
Median	53.80	0.000

041.20 Direct Available Phosphate		
Lab		Spectrometric

220	51.85	0.000
Median	51.85	0.000

041.40 Direct Available Phosphate		
Lab		Automated
49	54.06	-0.810
103	52.26	0.000
Median	52.26	0.000
Std Dev	50.03	1.000
38	48.09	1.870

041.50 Direct Available Phosphate		
Lab		ICP
80	53.10	-2.028
Std Dev	52.82	-1.000
66	52.54	0.000
Median	52.54	0.000
63	52.36	0.652

041.60 Direct Available Phosphate		
Lab		EDTA Extract
219	53.68	-0.529
77	53.56	-0.055
Median	53.54	0.000
29	53.53	0.055
Std Dev	53.29	1.000
137	52.40	4.500

041.99 Direct Available Phosphate		
Lab		Other
275	54.12	-1.340
Std Dev	54.09	-1.000
Median	54.01	0.000
Std Dev	53.93	1.000
275	53.91	1.340

041.XX Direct Available Phosphate		
Lab		Total Method
275	54.12	-0.775
49	54.06	-0.717
275	53.91	-0.568
219	53.80	-0.463
219	53.68	-0.347
77	53.56	-0.232

29	53.53	-0.205
Median	53.31	0.000
80	53.10	0.205
66	52.54	0.743
137	52.40	0.877
63	52.36	0.916
Std Dev	52.27	1.000
103	52.26	1.017
220	51.85	1.409
38	48.09	5.020

048.20 Water Soluble Phosphate		
Lab		Spectrometric
9	48.76	-1.352
23	48.63	-1.050
Std Dev	48.61	-1.000
23	48.53	-0.809
61	48.50	-0.724
79	48.27	-0.181
14	48.26	-0.145
14	48.20	0.000
Median	48.20	0.000
61	48.12	0.193
24	48.05	0.350
24	47.94	0.616
Std Dev	47.78	1.000
275	47.69	1.231
220	47.59	1.464
275	47.17	2.487

048.99 Water Soluble Phosphate		
Lab		Other
32	48.92	-0.560
32	48.82	0.000
Median	48.82	0.000
Std Dev	48.65	1.000
34	48.46	2.120

048.XX Water Soluble Phosphate		
Lab		Total Method
32	48.92	-1.642
32	48.82	-1.403
9	48.76	-1.239
Std Dev	48.66	-1.000

23	48.63	-0.925
23	48.53	-0.673
61	48.50	-0.585
34	48.46	-0.497
79	48.27	-0.019
Median	48.26	0.000
14	48.26	0.019
14	48.20	0.170
61	48.12	0.371
24	48.05	0.535
24	47.94	0.812
Std Dev	47.87	1.000
275	47.69	1.453
220	47.59	1.696
275	47.17	2.762

050.50	%K ₂ O	Soluble Potash
Lab		ICP(Oxalate)
23	0.12	0.000
23	0.12	0.000
Median	0.12	0.000

050.51	%K ₂ O	Soluble Potash
Lab		ICP(Citrate)
137	0.17	0.000
Median	0.17	0.000

050.61		Soluble Potash
Lab		Flame Photometric(Citrate)
219	0.24	0.000
Median	0.24	0.000

050.99	%K ₂ O	Soluble Potash
Lab		Other
61	0.14	-1.149
61	0.14	-1.149
Std Dev	0.14	-1.000
80	0.13	-0.383
Median	0.13	0.000
24	0.12	0.383
24	0.12	0.383
Std Dev	0.11	1.000
99	0.09	2.680

050.XX	%K ₂ O	Soluble Potash
Lab		Total Method
219	0.24	-7.705
137	0.17	-3.015
61	0.14	-1.005
61	0.14	-1.005
Std Dev	0.14	-1.000
80	0.13	-0.335
Median	0.13	0.000
23	0.12	0.335
23	0.12	0.335
24	0.12	0.335
24	0.12	0.335
Std Dev	0.11	1.000
99	0.09	2.345

060.00		Free Water
Lab		Vacuum Oven
14	2.01	-10.050
14	1.98	-9.741
32	1.15	-1.185
24	1.13	-1.031
Std Dev	1.13	-1.000
23	1.06	-0.258
9	1.05	-0.206
32	1.03	0.000
Median	1.03	0.000
79	1.03	0.052
24	1.02	0.103
23	1.00	0.309
219	0.97	0.613
Std Dev	0.93	1.000
34	0.92	1.134
220	0.85	1.814

060.10		Free Water
Lab		Vacuum Desiccate
61	1.35	-1.340
Std Dev	1.32	-1.000
Median	1.26	0.000
Std Dev	1.19	1.000
61	1.17	1.340

060.99		Free Water
Lab		Other
275	1.18	-1.340
Std Dev	1.18	-1.000
Median	1.18	0.000
Std Dev	1.17	1.000
275	1.17	1.340

060.XX		Free Water
Lab		Total Method
14	2.01	-8.487
14	1.98	-8.219
61	1.35	-2.591
275	1.18	-1.117
275	1.17	-1.027
Std Dev	1.17	-1.000
61	1.17	-0.983
32	1.15	-0.804
24	1.13	-0.670
23	1.06	0.000
Median	1.06	0.000
9	1.05	0.045
32	1.03	0.223
79	1.03	0.268
24	1.02	0.313
23	1.00	0.491
219	0.97	0.755
Std Dev	0.94	1.000
34	0.92	1.206
220	0.85	1.796

101.00	%CaO	Acid Soluble Calcium
Lab		Atomic Absorption
219	0.91	0.000
Median	0.91	0.000

101.30	%CaO	Acid Soluble Calcium
Lab		ICP
34	0.91	-2.071
61	0.90	-1.340
61	0.89	-1.096
Std Dev	0.89	-1.000
24	0.88	-0.609
24	0.88	-0.609

9	0.87	-0.122
Median	0.87	0.000
23	0.87	0.122
32	0.86	0.365
14	0.86	0.609
23	0.86	0.609
32	0.85	0.853
Std Dev	0.85	1.000
14	0.85	1.096

101.99	%CaO	Acid Soluble Calcium
Lab		Other
219	0.90	0.000
Median	0.90	0.000

101.XX	%CaO	Acid Soluble Calcium
Lab		Total Method
34	0.91	-1.251
219	0.91	-1.215
Std Dev	0.90	-1.000
219	0.90	-0.822
61	0.90	-0.715
61	0.89	-0.536
24	0.88	-0.179
24	0.88	-0.179
Median	0.88	0.000
9	0.87	0.179
23	0.87	0.357
32	0.86	0.536
14	0.86	0.715
23	0.86	0.715
32	0.85	0.893
Std Dev	0.85	1.000
14	0.85	1.072

121.00	%MgO	Acid Soluble Magnesium
Lab		Atomic Absorption
219	0.84	0.000
Median	0.84	0.000

121.30	%MgO	Acid Soluble Magnesium
Lab		ICP
24	1.13	-1.124
Std Dev	1.13	-1.000

24	1.12	-0.778
23	1.12	-0.605
23	1.11	-0.432
61	1.11	-0.259
61	1.10	-0.086
Median	1.10	0.000
32	1.10	0.086
34	1.09	0.259
9	1.08	0.605
Std Dev	1.07	1.000
32	1.05	1.643
14	1.02	2.853
14	1.01	3.026

121.99	Acid Soluble Magnesium	
Lab	%MgO	Other
219	0.92	0.000
Median	0.92	0.000

121.XX	Acid Soluble Magnesium	
Lab	%MgO	Total Method
24	1.13	-0.591
24	1.12	-0.434
23	1.12	-0.355
23	1.11	-0.276
61	1.11	-0.197
61	1.10	-0.118
32	1.10	-0.039
Median	1.09	0.000
34	1.09	0.039
9	1.08	0.197
32	1.05	0.670
Std Dev	1.03	1.000
14	1.02	1.222
14	1.01	1.301
219	0.92	2.680
219	0.84	4.012

144..01	Sulfate Sulfur (S)	
Lab		Gravimetric
219	1.44	-1.195
Std Dev	1.43	-1.000
220	1.41	-0.197
Median	1.41	0.000

61	1.41	0.197
Std Dev	1.39	1.000
61	1.35	2.982

144.70	Sulfur Spectrometric	
Lab		
14	1.36	0.000
14	1.36	0.000
Median	1.36	0.000

144.99	Sulfate Sulfur (S)	
Lab		Other
9	4.04	-102.606
38	1.48	-4.594
Std Dev	1.38	-1.000
32	1.38	-0.957
34	1.36	-0.191
23	1.36	0.000
Median	1.36	0.000
24	1.35	0.191
23	1.35	0.383
24	1.33	0.957
Std Dev	1.33	1.000
32	1.32	1.531

144.XX	Sulfate Sulfur (S)	
Lab		Total Method
9	4.04	-58.049
38	1.48	-2.496
219	1.44	-1.628
220	1.41	-1.161
Std Dev	1.41	-1.000
61	1.41	-0.977
32	1.38	-0.434
14	1.36	0.000
14	1.36	0.000
34	1.36	0.000
Median	1.36	0.000
23	1.36	0.109
24	1.35	0.217
23	1.35	0.326
61	1.35	0.326
24	1.33	0.651
32	1.32	0.977

151.30	Total Arsenic ICP	
Lab		
24	24.20	-0.717
61	23.25	0.000
Median	23.25	0.000
Std Dev	21.93	1.000
9	20.65	1.963

151.XX	Total Arsenic Total Method	
Lab		
24	24.20	-0.717
61	23.25	0.000
Median	23.25	0.000
Std Dev	21.93	1.000
9	20.65	1.963

165.99	Acid Soluble Boron	
Lab	PPM	Other
24	34.90	0.000
Median	34.90	0.000

165.XX, ppm	Acid Soluble Boron	
Lab	PPM	Total Method
24	34.90	0.000
Median	34.90	0.000

181.00	Total Cadmium Atomic Absorbion	
Lab		
220	130.20	0.000
Median	130.20	0.000

181.30	Total Cadmium ICP	
Lab	PPM	
9	136.00	-1.675
Std Dev	134.99	-1.000
61	133.50	0.000
Median	133.50	0.000
Std Dev	132.01	1.000
61	132.00	1.005

181.99	Total Cadmium Other	
Lab		
24	138.00	0.000

Median	138.00	0.000
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181.XX	Total Cadmium Total Method	
Lab	PPM	
24	138.00	-1.508
Std Dev	136.49	-1.000
9	136.00	-0.838
61	133.50	0.000
Median	133.50	0.000
61	132.00	0.503
Std Dev	130.51	1.000
220	130.20	1.105

190.00	Aluminum ICP	
Lab	%Al ₂ O ₃	
9	1.74	-1.825
14	1.73	-1.597
14	1.71	-1.254
Std Dev	1.70	-1.000
32	1.70	-0.912
32	1.68	-0.570
34	1.66	-0.114
Median	1.66	0.000
24	1.65	0.114
24	1.65	0.114
23	1.64	0.342
23	1.64	0.342
61	1.64	0.342
61	1.64	0.456

190.XX	Aluminum Total Method	
Lab	%Al ₂ O ₃	
9	1.74	-1.825
14	1.73	-1.597
14	1.71	-1.254
Std Dev	1.70	-1.000
32	1.70	-0.912
32	1.68	-0.570
34	1.66	-0.114
Median	1.66	0.000
24	1.65	0.114
24	1.65	0.114
23	1.64	0.342
23	1.64	0.342

61	1.64	0.342
61	1.64	0.456

191.30	Total Chromium	
Lab	ICP	
9	544.00	-0.487
61	543.00	0.000
Median	543.00	0.000
Std Dev	540.95	1.000
61	538.50	2.193

191.99	Total Chromium	
Lab	PPM	Other
24	570.00	0.000
Median	570.00	0.000

191.XX	Total Chromium	
Lab	PPM	Total Method
24	570.00	-4.117
Std Dev	549.94	-1.000
9	544.00	-0.078
Median	543.50	0.000
61	543.00	0.078
61	538.50	0.777

202.30	Acid Soluble Cobalt	
Lab	PPM	ICP
61	5.50	-0.804
9	5.35	0.000
Median	5.35	0.000
Std Dev	5.16	1.000
61	5.00	1.876

202.99	Acid Soluble Cobalt	
Lab	Other	
24	5.47	0.000
Median	5.47	0.000

202.XX	Acid Soluble Cobalt	
Lab	PPM	Total Method
61	5.50	-0.561
24	5.47	-0.374
Median	5.41	0.000
9	5.35	0.374

Std Dev	5.25	1.000
61	5.00	2.555

221.00	Acid Soluble Copper	
Lab	Atomic Absorption	
220	1.16	0.000
Median	1.16	0.000

221.30	Acid Soluble Copper	
Lab	PPM	ICP
61	82.50	-1.340
Std Dev	82.44	-1.000
Median	82.25	0.000
Std Dev	82.06	1.000
61	82.00	1.340

221.99	Acid Soluble Copper	
Lab	Other	
9	86.50	-0.874
24	85.50	-0.616
Median	83.12	0.000
219	80.73	0.616
219	80.06	0.790

221.XX	Acid Soluble Copper	
Lab	PPM	Total Method
9	86.50	-1.538
24	85.50	-1.176
Std Dev	85.01	-1.000
61	82.50	-0.090
Median	82.25	0.000
61	82.00	0.090
219	80.73	0.550
219	80.06	0.794

241.30	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	ICP
61	1.30	-2.049
24	1.28	-1.104
34	1.28	-1.104
Std Dev	1.28	-1.000
24	1.27	-0.473
32	1.27	-0.473
61	1.27	-0.158

Median	1.26	0.000
23	1.26	0.158
32	1.26	0.158
23	1.26	0.473
Std Dev	1.25	1.000
9	1.24	1.419
14	1.22	2.680
14	1.22	2.995

241.99	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Other
219	1.25	-1.340
Std Dev	1.23	-1.000
Median	1.17	0.000
Std Dev	1.12	1.000
219	1.10	1.340

241.XX	Acid Soluble Iron	
Lab	%Fe ₂ O ₃	Total Method
61	1.30	-1.173
Std Dev	1.29	-1.000
24	1.28	-0.670
34	1.28	-0.670
24	1.27	-0.335
32	1.27	-0.335
61	1.27	-0.168
23	1.26	0.000
32	1.26	0.000
Median	1.26	0.000
23	1.26	0.168
219	1.25	0.302
9	1.24	0.670
Std Dev	1.23	1.000
14	1.22	1.340
14	1.22	1.508
220	1.16	3.400
219	1.10	5.461

251.30	Total Lead	
Lab	PPM	ICP
61	3.00	-1.340
Std Dev	2.94	-1.000
Median	2.75	0.000
Std Dev	2.56	1.000

61	2.50	1.340
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251.99	Total Lead	
Lab	Other	
24	1.41	0.000
Median	1.41	0.000

251.XX	Total Lead	
Lab	PPM	Total Method
61	3.00	-0.843
61	2.50	0.000
Median	2.50	0.000
Std Dev	1.91	1.000
24	1.41	1.837

261.11	Acid Soluble Manganese	
Lab	Atomic Absorption	
219	201.10	0.000
Median	201.10	0.000

261.30	Acid Soluble Manganese	
Lab	ICP	
9	214.00	0.000
Median	214.00	0.000

261.99	Acid Soluble Manganese	
Lab	PPM	Other
24	215.00	-4.922
Std Dev	203.80	-1.000
61	201.00	-0.018
Median	200.95	0.000
219	200.90	0.018
61	200.00	0.333

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
24	215.00	-1.898
9	214.00	-1.762
Std Dev	208.40	-1.000
219	201.10	-0.007
Median	201.05	0.000
61	201.00	0.007
219	200.90	0.020
61	200.00	0.143

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
9		

289.99 Total Molybdenum		
Lab	PPM	Other
24	19.70	0.000
Median	19.70	0.000

289.XX Total Molybdenum		
Lab	PPM	Total Method
9	21.00	-1.007
Std Dev	20.98	-1.000
24	19.70	-0.622
Median	17.60	0.000
61	15.50	0.622
61	15.50	0.622

291.30 Total Nickel		
Lab		ICP
9	300.50	-1.968
Std Dev	286.24	-1.000
61	271.50	0.000
Median	271.50	0.000
61	261.00	0.712

291.99 Total Nickel		
Lab	PPM	Other
24	287.00	0.000
Median	287.00	0.000

291.XX Total Nickel		
Lab	PPM	Total Method
9	300.50	-1.324

Std Dev	295.29	-1.000
24	287.00	-0.483
Median	279.25	0.000
61	271.50	0.483
Std Dev	263.21	1.000
61	261.00	1.137

301.30 Total Selenium		
Lab	PPM	ICP
24	<0.28	0.000
61	0.24	-1.340
Std Dev	0.23	-1.000
Median	0.22	0.000
Std Dev	0.20	1.000
61	0.20	1.340

301.XX Total Selenium		
Lab	PPM	Total Method
24	<0.28	0.000
61	0.24	-1.340
Std Dev	0.23	-1.000
Median	0.22	0.000
Std Dev	0.20	1.000
61	0.20	1.340

311.00 Sodium		
Lab	%Na ₂ O	Atomic Absorbtion
61	0.19	0.000
Median	0.19	0.000

311.99 Sodium		
Lab	%Na ₂ O	Other
24	0.19	0.004
23	0.19	0.000
23	0.19	0.000
61	0.19	0.000
Median	0.19	0.000
24	0.18	0.004

311.XX Sodium		
Lab	%Na ₂ O	Total Method
24	0.19	0.003
23	0.19	0.000
23	0.19	0.000

61	0.19	0.000
61	0.19	0.000
Median	0.19	0.000
24	0.18	0.003

321.00 Acid Soluble Zinc		
Lab		Atomic Absorption
219	1841.00	0.000
Median	1841.00	0.000

321.30 Acid Soluble Zinc		
Lab	PPM	ICP
24	1987.00	-1.545
Std Dev	1893.83	-1.000
9	1815.50	-0.542
Median	1722.75	0.000
61	1630.00	0.542
61	1626.50	0.563

321.99 Acid Soluble Zinc		
Lab		Other
219	1765.50	0.000
Median	1765.50	0.000

321.XX Acid Soluble Zinc		
Lab	PPM	Total Method
24	1987.00	-1.542
Std Dev	1917.93	-1.000
219	1841.00	-0.396
9	1815.50	-0.196
Median	1790.50	0.000
219	1765.50	0.196
Std Dev	1663.07	1.000
61	1630.00	1.260
61	1626.50	1.287

325.10 Fluoride		
Lab	%	Electrode
32	1.65	-0.963
32	1.64	-0.921
24	1.58	-0.419
23	1.58	-0.377
23	1.58	-0.377
24	1.53	0.000

Median	1.53	0.000
34	1.51	0.168
275	1.42	0.921
14	1.42	0.963
275	1.39	1.173
14	1.37	1.340

325.30 Fluoride		
Lab		Distilled/Electrode
220	1.61	0.000
Median	1.61	0.000

325.99 Fluoride		
Lab	%	Other
61	1.61	-1.340
Median	1.59	0.000
61	1.57	1.340

325.XX Fluoride		
Lab	%	Total Method
32	1.65	-0.607
32	1.64	-0.565
61	1.61	-0.314
220	1.61	-0.314
24	1.58	-0.063
23	1.58	-0.021
23	1.58	-0.021
Median	1.57	0.000
61	1.57	0.021
24	1.53	0.356
34	1.51	0.523
275	1.42	1.277
14	1.42	1.319
275	1.39	1.528
14	1.37	1.696