

# AFPC

**Sample**

**2016-01**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	11	17.49	0.05
Method Group 001.XX PCT			11	17.49	0.06
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	17.86	0.02
Total Nitrogen, Combustion	993.13	010.60	19	17.93	0.25
Total Nitrogen, Other		010.99	2	17.62	0.10
Method Group 010.XX PCT			24	17.87	0.28
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	2	46.92	0.12
Total Phosphate, Spectrometric	978.02	020.20	20	46.71	0.26
Total Phosphate, ICP	970.03	020.40	1	46.66	0.00
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.90	0.00
Total Phosphate, Other	993.13	020.99	1	46.71	0.00
Method Group 020.XX PCT			25	46.74	0.25
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	7	0.49	0.06
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.23	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.55	0.07
Insoluble Phosphate, Other		030.99	1	0.39	0.00
Method Group 030.XX PCT			11	0.48	0.10
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	46.34	0.16
Indirect Available Phosphate, Other		040.99	2	46.47	0.07
Method Group 040.XX PCT			11	46.37	0.18
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	1	47.71	0.00
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	45.78	0.00
Direct Available Phosphate, Automated	978.01	041.40	2	46.76	0.32
Direct Available Phosphate, ICP		041.50	2	46.42	0.36
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	46.50	0.41
Direct Available Phosphate, Other		041.99	3	46.50	0.20
Method Group 041.XX PCT			14	46.50	0.73
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	12	41.61	0.12
Water Soluble Phosphate, Other		048.99	5	41.37	0.40
Method Group 048.XX PCT			17	41.59	0.20
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	3	0.14	0.02
Soluble Potash, ICP(Citrate)		050.51	1	0.15	0.00
Soluble Potash, Other		050.99	8	0.13	0.01
Method Group 050.XX PCT			12	0.14	0.01
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	10	1.32	0.10
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.90	0.06
Free Water, Other		060.99	2	1.34	0.00
Method Group 060.XX PCT			14	1.34	0.16
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, Atomic Absorption	945.04	101.00	1	0.19	0.00
Acid Soluble Calcium, ICP		101.30	15	0.30	0.02
Acid Soluble Calcium, Other		101.99	1	0.63	0.00
Method Group 101.XX PCT			17	0.30	0.03
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, Atomic Absorption	984.01	121.00	1	1.14	0.00
Acid Soluble Magnesium, ICP		121.30	15	1.16	0.09
Method Group 121.XX PCT			16	1.15	0.10

<b>WATER SOLUBLE MAGNESIUM</b>					
Water Soluble Magnesium, Other		131.99	1	0.09	0.00
Method Group 131.XX PCT			1	0.09	0.00
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	1	1.46	0.00
Sulfur, Spectrometric		144.70	2	1.38	0.01
Sulfur, Other		144.99	12	1.43	0.02
Method Group 144.XX PCT			15	1.43	0.03
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	3	1.07	0.1
Method Group 145.XX PCT			3	1.07	0.1
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	7	13.6	0.6
Method Group 151.XX PPM			7	13.6	0.7
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	1	39	0.0
Method Group 165.XX PPM			1	39	0.0
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	5	3.5	0.0
Total Cadmium, Other		181.99	1	3.5	0.0
Method Group 181.XX PPM			6	3.5	0.0
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			14	1.60	0.02
Water Soluble Chlorine, Other, %		190.99	1	1.57	0.00
Method Group 190.XX PCT			15	1.60	0.03
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	6	91	4.3
Total Chromium, Other		191.99	1	89	0.0
Method Group 191.XX PPM			7	89	4.8
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	5	3	0.4
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			6	3	0.4
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	6	3.5	6.9
Acid Soluble Copper, Other		221.99	1	0.0	0.0
Method Group 221.XX PPM			4	4.1	5.0
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	15	1.33	0.03
Method Group 241.XX PCT			16	1.33	0.04
<b>TOTAL LEAD</b>					
Total Lead, ICP		251.30	5	1	0.2
Total Lead, Other		251.99	1	1.4	0.0
Method Group 251.XX PPM			6	1	0.3
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, Atomic Absorption	972.02b	261.11	1	335	0.0
Acid Soluble Manganese, ICP	972.02a	261.30	2	310	2.6
Acid Soluble Manganese, Other		261.99	5	327	4.9
Method Group 261.XX PPM			8	326	18.3
<b>TOTAL MERCURY</b>					
Total Mercury, Atomic Absorbtion		281.00	2	0	0.00
Method Group 281.XX PPM			2	0.00	0.00
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	5	9	0.3
Total Molybdenum, Other		289.99	1	11	0.0
Method Group 289.XX PPM			6	9	1.2
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	4	11.0	0.4
Total Nickel, icp		291.99	1	11.8	0.0
Method Group 291.XX PPM			5	11.0	0.7
<b>TOTAL SELENIUM</b>					

Total Selenium, ICP	301.30	2	0.5	0.4
Method Group 301.XX PPM		2	0.5	0.4
<b>SODIUM AS Na<sub>2</sub>O</b>				
Sodium, Other	311.99	9	0.20	0.01
Method Group 311.XX PCT		9	0.20	0.01
<b>ACID SOLUBLE ZINC</b>				
Acid Soluble Zinc, Atomic Absorption	975.02 321.00	1	50.1	0.0
Acid Soluble Zinc, ICP	321.30	4	48.5	5.4
Acid Soluble Zinc, Other	321.99	2	46.0	0.4
Method Group 321.XX %		7	48.0	3.2
<b>FLUORIDE</b>				
Volumetric	325.10	14	1.95	0.13
Distilled/Electrode	325.99	3	1.98	0.03
Method Group 325.XX PCT		17	1.96	0.12

001.99	Ammoniacal Nitrogen	
Lab		Other
79	17.57	-1.822
<b>Std Dev</b>	<b>17.53</b>	<b>-1.000</b>
23	17.52	-0.750
61	17.52	-0.750
34	17.49	-0.107
24	17.49	0.000
24	17.49	0.000
<b>Median</b>	<b>17.49</b>	<b>0.000</b>
61	17.48	0.214
23	17.45	0.858
38	17.44	0.965
<b>Std Dev</b>	<b>17.44</b>	<b>1.000</b>
32	17.42	1.501
310	17.23	5.467

001.XX	Ammoniacal Nitrogen	
Lab		Total Method
79	17.57	-1.822
<b>Std Dev</b>	<b>17.53</b>	<b>-1.000</b>
23	17.52	-0.750
61	17.52	-0.750
34	17.49	-0.107
24	17.49	0.000
24	17.49	0.000
<b>Median</b>	<b>17.49</b>	<b>0.000</b>
61	17.48	0.214
23	17.45	0.858
38	17.44	0.965
<b>Std Dev</b>	<b>17.44</b>	<b>1.000</b>
32	17.42	1.501
310	17.23	5.467

010.11	Total Nitrogen	
Lab		Modified Comprehensive
43	17.86	0.000
43	17.86	0.000
<b>Median</b>	<b>17.86</b>	<b>0.000</b>
<b>Std Dev</b>	<b>17.83</b>	<b>1.000</b>
219	17.80	2.680

010.60	Total Nitrogen	
Lab		Combustion

47	18.21	-1.141
<b>Std Dev</b>	<b>18.18</b>	<b>-1.000</b>
49	18.18	-0.993
14	18.17	-0.973
14	18.16	-0.933
29	18.15	-0.893
66	18.12	-0.774
80	18.05	-0.476
39	18.01	-0.345
24	17.96	-0.119
137	17.93	0.000
<b>Median</b>	<b>17.93</b>	<b>0.000</b>
219	17.89	0.159
24	17.88	0.199
79	17.86	0.258
9	17.85	0.318
31	17.75	0.695
99	17.74	0.735
77	17.70	0.913
<b>Std Dev</b>	<b>17.67</b>	<b>1.000</b>
111	17.55	1.489
103	17.09	3.315

010.99	Total Nitrogen	
Lab		Other
32	17.76	-1.340
<b>Std Dev</b>	<b>17.73</b>	<b>-1.000</b>
<b>Median</b>	<b>17.62</b>	<b>0.000</b>
<b>Std Dev</b>	<b>17.52</b>	<b>1.000</b>
325	17.49	1.340

010.XX	Total Nitrogen	
Lab		Total Method
47	18.21	-1.510
49	18.18	-1.345
14	18.17	-1.324
14	18.16	-1.280
29	18.15	-1.236
66	18.12	-1.105
<b>Std Dev</b>	<b>18.10</b>	<b>-1.000</b>
80	18.05	-0.777
39	18.01	-0.632
24	17.96	-0.383
137	17.93	-0.252

219	17.89	-0.077
24	17.88	-0.033
<b>Median</b>	<b>17.87</b>	<b>0.000</b>
79	17.86	0.033
43	17.86	0.055
43	17.86	0.055
9	17.85	0.098
219	17.80	0.317
32	17.76	0.470
31	17.75	0.514
99	17.74	0.558
77	17.70	0.755
<b>Std Dev</b>	<b>17.64</b>	<b>1.000</b>
111	17.55	1.389
325	17.49	1.674
103	17.09	3.402

020.10	Total Phosphate	
Lab		Gravimetric Quimociac
310	47.08	-1.340
<b>Std Dev</b>	<b>47.04</b>	<b>-1.000</b>
<b>Median</b>	<b>46.92</b>	<b>0.000</b>
<b>Std Dev</b>	<b>46.79</b>	<b>1.000</b>
241	46.75	1.340

020.20	Total Phosphate	
Lab		Spectrometric
31	47.28	-2.193
99	47.03	-1.238
34	47.00	-1.121
<b>Std Dev</b>	<b>46.97</b>	<b>-1.000</b>
32	46.96	-0.965
61	46.95	-0.926
61	46.94	-0.867
9	46.88	-0.633
275	46.78	-0.244
111	46.75	-0.146
24	46.74	-0.107
<b>Median</b>	<b>46.71</b>	<b>0.000</b>
23	46.69	0.107
23	46.67	0.185
24	46.66	0.205
275	46.66	0.224
43	46.60	0.439

79	46.58	0.517
14	46.52	0.770
43	46.50	0.828
14	46.46	0.984
<b>Std Dev</b>	<b>46.46</b>	<b>1.000</b>
38	46.44	1.053

020.40	Total Phosphate	
Lab		Automated
137	46.66	0.000
<b>Median</b>	<b>46.66</b>	<b>0.000</b>

020.50	Total Phosphate	
Lab		ICP
111	46.90	0.000
<b>Median</b>	<b>46.90</b>	<b>0.000</b>

020.99	Total Phosphate	
Lab		Other
325	46.71	0.000
<b>Median</b>	<b>46.71</b>	<b>0.000</b>

020.XX	Total Phosphate	
Lab		Total Method
31	47.28	-2.560
310	47.08	-1.627
99	47.03	-1.388
34	47.00	-1.244
32	46.96	-1.053
61	46.95	-1.005
<b>Std Dev</b>	<b>46.95</b>	<b>-1.000</b>
61	46.94	-0.933
111	46.90	-0.766
9	46.88	-0.646
275	46.78	-0.167
111	46.75	-0.048
241	46.75	-0.048
24	46.74	0.000
<b>Median</b>	<b>46.74</b>	<b>0.000</b>
325	46.71	0.144
23	46.69	0.263
23	46.67	0.359
24	46.66	0.383
137	46.66	0.407

275	46.66	0.407
43	46.60	0.670
79	46.58	0.766
<b>Std Dev</b>	<b>46.53</b>	<b>1.000</b>
14	46.52	1.077
43	46.50	1.149
14	46.46	1.340
38	46.44	1.424

030.20 Insoluble Phosphate		
Lab		Spectrometric
79	0.57	-1.429
<b>Std Dev</b>	<b>0.55</b>	<b>-1.000</b>
61	0.54	-0.893
61	0.53	-0.625
23	0.49	0.000
<b>Median</b>	<b>0.49</b>	<b>0.000</b>
24	0.48	0.179
23	0.44	0.983
<b>Std Dev</b>	<b>0.43</b>	<b>1.000</b>
24	0.40	1.608

030.30 Insoluble Phosphate		
Lab		Alka. Quimociac
31	0.23	0.000
<b>Median</b>	<b>0.23</b>	<b>0.000</b>

030.40 Insoluble Phosphate		
Lab		Automated
34	0.64	-1.340
<b>Std Dev</b>	<b>0.62</b>	<b>-1.000</b>
<b>Median</b>	<b>0.55</b>	<b>0.000</b>
<b>Std Dev</b>	<b>0.48</b>	<b>1.000</b>
9	0.46	1.340

030.99 Insoluble Phosphate		
Lab		Other
32	0.39	0.000
<b>Median</b>	<b>0.39</b>	<b>0.000</b>

030.XX Insoluble Phosphate		
Lab		Total Method
34	0.64	-1.864
79	0.57	-1.049

<b>Std Dev</b>	<b>0.57</b>	<b>-1.000</b>
61	0.54	-0.699
61	0.53	-0.524
23	0.49	-0.117
24	0.48	0.000
<b>Median</b>	<b>0.48</b>	<b>0.000</b>
9	0.46	0.291
23	0.44	0.524
24	0.40	0.932
<b>Std Dev</b>	<b>0.39</b>	<b>1.000</b>
32	0.39	1.049
31	0.23	2.913

040.20 Indirect Available Phosphate		
Lab		Spectrometric
31	47.05	-4.394
<b>Std Dev</b>	<b>46.50</b>	<b>-1.000</b>
9	46.42	-0.499
61	46.41	-0.436
61	46.41	-0.436
24	46.34	0.000
<b>Median</b>	<b>46.34</b>	<b>0.000</b>
23	46.23	0.686
23	46.20	0.904
24	46.18	0.997
<b>Std Dev</b>	<b>46.18</b>	<b>1.000</b>
79	46.02	2.026

040.99 Indirect Available Phosphate		
Lab		Other
32	46.57	-1.340
<b>Std Dev</b>	<b>46.54</b>	<b>-1.000</b>
<b>Median</b>	<b>46.47</b>	<b>0.000</b>
<b>Std Dev</b>	<b>46.40</b>	<b>1.000</b>
34	46.37	1.340

040.XX Indirect Available Phosphate		
Lab		Total Method
31	47.05	-4.467
32	46.57	-1.323
<b>Std Dev</b>	<b>46.52</b>	<b>-1.000</b>
9	46.42	-0.331
61	46.41	-0.265
61	46.41	-0.265

34	46.37	0.000
<b>Median</b>	<b>46.37</b>	<b>0.000</b>
24	46.34	0.199
23	46.23	0.926
<b>Std Dev</b>	<b>46.22</b>	<b>1.000</b>
23	46.20	1.158
24	46.18	1.257
79	46.02	2.349

041.10 Direct Available Phosphate		
Lab		Gravimetric Quimociac
47	47.71	0.000
<b>Median</b>	<b>47.71</b>	<b>0.000</b>

041.20 Direct Available Phosphate		
Lab		Spectrometric
47	45.78	0.000
<b>Median</b>	<b>45.78</b>	<b>0.000</b>

041.40 Direct Available Phosphate		
Lab		Automated
38	47.20	-1.340
<b>Std Dev</b>	<b>47.08</b>	<b>-1.000</b>
<b>Median</b>	<b>46.76</b>	<b>0.000</b>
<b>Std Dev</b>	<b>46.44</b>	<b>1.000</b>
49	46.33	1.340

041.50 Direct Available Phosphate		
Lab		ICP
80	46.90	-1.340
<b>Std Dev</b>	<b>46.78</b>	<b>-1.000</b>
<b>Median</b>	<b>46.42</b>	<b>0.000</b>
<b>Std Dev</b>	<b>46.07</b>	<b>1.000</b>
66	45.95	1.340

041.60 Direct Available Phosphate		
Lab		EDTA Extract
29	47.61	-2.726
<b>Std Dev</b>	<b>46.91</b>	<b>-1.000</b>
77	46.57	-0.171
219	46.50	0.000
<b>Median</b>	<b>46.50</b>	<b>0.000</b>
<b>Std Dev</b>	<b>46.08</b>	<b>1.000</b>
103	46.02	1.169

137	45.87	1.535
041.99 Direct Available Phosphate		
Lab		Other
275	46.69	-0.951
325	46.50	0.000
<b>Median</b>	<b>46.50</b>	<b>0.000</b>
<b>Std Dev</b>	<b>46.29</b>	<b>1.000</b>
275	46.14	1.729

041.XX Direct Available Phosphate		
Lab		Total Method
47	47.71	-2.027
29	47.61	-1.875
38	47.20	-1.173
<b>Std Dev</b>	<b>47.09</b>	<b>-1.000</b>
80	46.90	-0.679
275	46.69	-0.323
77	46.57	-0.117
219	46.50	0.000
<b>Median</b>	<b>46.50</b>	<b>0.000</b>
325	46.50	0.000
49	46.33	0.285
275	46.14	0.588
103	46.02	0.804
66	45.95	0.922
<b>Std Dev</b>	<b>45.90</b>	<b>1.000</b>
137	45.87	1.056
47	45.78	1.198

048.20 Water Soluble Phosphate		
Lab		Spectrometric
31	42.13	-4.502
9	42.06	-3.859
14	41.73	-1.072
<b>Std Dev</b>	<b>41.72</b>	<b>-1.000</b>
14	41.64	-0.300
23	41.63	-0.172
23	41.62	-0.129
<b>Median</b>	<b>41.61</b>	<b>0.000</b>
61	41.59	0.129
61	41.56	0.429
24	41.54	0.600
<b>Std Dev</b>	<b>41.49</b>	<b>1.000</b>

24	41.42	1.587
79	41.42	1.629
111	40.85	6.518

048.99 Water Soluble Phosphate		
Lab		Other
34	41.77	-1.018
Std Dev	41.76	-1.000
325	41.64	-0.679
32	41.37	0.000
Median	41.37	0.000
275	41.10	0.661
111	41.06	0.767

048.XX Water Soluble Phosphate		
Lab		Total Method
31	42.13	-3.216
9	42.06	-2.769
34	41.77	-1.072
Std Dev	41.76	-1.000
14	41.73	-0.834
14	41.64	-0.298
325	41.64	-0.268
23	41.63	-0.208
23	41.62	-0.179
61	41.59	0.000
Median	41.59	0.000
61	41.56	0.208
24	41.54	0.328
Std Dev	41.42	1.000
24	41.42	1.012
79	41.42	1.042
32	41.37	1.340
275	41.10	2.906
111	41.06	3.156
111	40.85	4.437

050.50 %K <sub>2</sub> O Soluble Potash		
Lab		ICP(Oxalate)
99	0.19	-2.680
Std Dev	0.16	-1.000
23	0.14	0.000
23	0.14	0.000
Median	0.14	0.000

050.51 %K <sub>2</sub> O Soluble Potash		
Lab		ICP(Citrate)
137	0.15	0.000
Median	0.15	0.000

050.99 %K <sub>2</sub> O Soluble Potash		
Lab		Other
24	0.17	-3.916
61	0.15	-1.982
Std Dev	0.14	-1.000
61	0.14	-0.693
24	0.14	-0.048
Median	0.13	0.000
43	0.13	0.048
43	0.13	0.234
111	0.13	0.597
Std Dev	0.13	1.000
80	0.10	4.464

050.XX %K <sub>2</sub> O Soluble Potash		
Lab		Total Method
99	0.19	-3.744
24	0.17	-2.080
Std Dev	0.15	-1.000
61	0.15	-0.832
137	0.15	-0.832
23	0.14	0.000
23	0.14	0.000
61	0.14	0.000
Median	0.14	0.000
24	0.14	0.416
43	0.13	0.478
43	0.13	0.598
111	0.13	0.832
Std Dev	0.13	1.000
80	0.10	3.328

060.00 Free Water		
Lab		Vacuum Oven
32	1.50	-1.846
31	1.49	-1.745
9	1.45	-1.340
Std Dev	1.42	-1.000

23	1.34	-0.228
24	1.33	-0.076
Median	1.32	0.000
34	1.31	0.076
24	1.31	0.126
79	1.29	0.329
23	1.26	0.582
Std Dev	1.22	1.000
111	0.97	3.514

060.10 Free Water		
Lab		Vacuum Desiccate
61	2.98	-1.340
Std Dev	2.96	-1.000
Median	2.90	0.000
Std Dev	2.83	1.000
61	2.81	1.340

060.99 Free Water		
Lab		Other
275	1.34	0.000
275	1.34	0.000
Median	1.34	0.000

060.XX Free Water		
Lab		Total Method
61	2.98	-12.648
61	2.81	-11.337
32	1.50	-1.234
31	1.49	-1.157
Std Dev	1.47	-1.000
9	1.45	-0.848
23	1.34	0.000
275	1.34	0.000
275	1.34	0.000
Median	1.34	0.000
24	1.33	0.116
34	1.31	0.231
24	1.31	0.270
79	1.29	0.424
23	1.26	0.617
Std Dev	1.21	1.000
111	0.97	2.854

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
219	0.19	0.000
Median	0.19	0.000

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
24	0.35	-2.193
24	0.34	-1.949
61	0.33	-1.462
Std Dev	0.32	-1.000
61	0.32	-0.975
23	0.31	-0.487
23	0.31	-0.244
9	0.30	0.000
14	0.30	0.000
14	0.30	0.000
34	0.30	0.000
Median	0.30	0.000
32	0.29	0.487
111	0.29	0.731
31	0.28	0.975
Std Dev	0.28	1.000
43	0.27	1.381
43	0.27	1.501

101.99 Acid Soluble Calcium		
Lab	%CaO	Other
325	0.63	0.000
Median	0.63	0.000

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
325	0.63	-12.634
24	0.35	-1.723
24	0.34	-1.531
61	0.33	-1.149
Std Dev	0.33	-1.000
61	0.32	-0.766
23	0.31	-0.383
23	0.31	-0.191
9	0.30	0.000
14	0.30	0.000
14	0.30	0.000

34	0.30	0.000
Median	0.30	0.000
32	0.29	0.383
111	0.29	0.574
31	0.28	0.766
Std Dev	0.27	1.000
43	0.27	1.085
43	0.27	1.179
219	0.19	4.307

121.00	Acid Soluble Magnesium
Lab	%MgO Atomic Absorption
219	1.14 0.000
Median	1.14 0.000

121.30	Acid Soluble Magnesium
Lab	%MgO ICP
24	1.19 -0.408
32	1.19 -0.408
23	1.19 -0.350
23	1.18 -0.291
34	1.17 -0.175
61	1.17 -0.175
61	1.17 -0.175
24	1.16 0.000
Median	1.16 0.000
9	1.14 0.233
14	1.07 0.990
Std Dev	1.07 1.000
14	1.06 1.107
31	1.06 1.107
43	1.01 1.748
43	1.00 1.806
111	1.00 1.806

121.XX	Acid Soluble Magnesium
Lab	%MgO Total Method
24	1.19 -0.530
32	1.19 -0.530
23	1.19 -0.470
23	1.18 -0.411
34	1.17 -0.292
61	1.17 -0.292
61	1.17 -0.292

24	1.16	-0.113
Median	1.15	0.000
219	1.14	0.113
9	1.14	0.125
14	1.07	0.899
Std Dev	1.06	1.000
14	1.06	1.018
31	1.06	1.018
43	1.01	1.674
43	1.00	1.733
111	1.00	1.733

144..01	Sulfate Sulfur (S)
Lab	Gravimetric
79	1.46 0.000
Median	1.46 0.000

144.70	Sulfur
Lab	Spectrometric
14	1.40 -1.340
Std Dev	1.39 -1.000
Median	1.38 0.000
Std Dev	1.37 1.000
14	1.37 1.340

144.99	Sulfate Sulfur (S)
Lab	Other
325	1.52 -4.339
241	1.48 -2.297
Std Dev	1.45 -1.000
9	1.44 -0.510
34	1.44 -0.510
23	1.44 -0.255
23	1.43 0.000
24	1.43 0.000
Median	1.43 0.000
24	1.42 0.766
32	1.42 0.766
Std Dev	1.41 1.000
61	1.41 1.021
31	1.36 3.829
61	1.35 4.339

144.XX	Sulfate Sulfur (S)
Lab	Total Method
325	1.52 -3.037
241	1.48 -1.608
Std Dev	1.46 -1.000
79	1.46 -0.893
9	1.44 -0.357
34	1.44 -0.357
23	1.44 -0.179
23	1.43 0.000
24	1.43 0.000
Median	1.43 0.000
24	1.42 0.536
32	1.42 0.536
61	1.41 0.715
Std Dev	1.40 1.000
14	1.40 1.251
14	1.37 2.323
31	1.36 2.680
61	1.35 3.037

145.99	Total Sulfur (S)
Lab	Other
111	1.35 -2.303
Std Dev	1.19 -1.000
43	1.07 0.000
Median	1.07 0.000
43	1.03 0.377

145.XX	Total Sulfur (S)
Lab	Total Method
111	1.35 -2.303
Std Dev	1.19 -1.000
43	1.07 0.000
Median	1.07 0.000
43	1.03 0.377

151.30	Total Arsenic
Lab	ICP
24	13.95 -0.628
43	13.90 -0.538
275	13.61 -0.010
43	13.60 0.000
Median	13.60 0.000

Std Dev	13.04	1.000
275	13.01	1.056
61	13.00	1.076
31	12.70	1.614

151.XX	Total Arsenic
Lab	Total Method
24	13.95 -0.628
43	13.90 -0.538
275	13.61 -0.010
43	13.60 0.000
Median	13.60 0.000
Std Dev	13.04 1.000
275	13.01 1.056
61	13.00 1.076
31	12.70 1.614

165.99	Acid Soluble Boron
Lab	PPM Other
24	38.90 0.000
Median	38.90 0.000

165.XX, ppm	Acid Soluble Boron
Lab	PPM Total Method
24	38.90 0.000
Median	38.90 0.000

181.30	Total Cadmium
Lab	PPM ICP
43	3.53 -6.700
Std Dev	3.50 -1.000
61	3.50 0.000
111	3.50 0.000
Median	3.50 0.000
Std Dev	3.50 1.000
43	3.50 1.340
61	3.00 134.000

181.99	Total Cadmium
Lab	Other
24	3.49 0.000
Median	3.49 0.000

181.XX		Total Cadmium	
Lab	PPM	Total Method	
43	3.53	-2.948	
Std Dev	3.51	-1.000	
61	3.50	-0.268	
111	3.50	-0.268	
Median	3.50	0.000	
43	3.50	0.268	
Std Dev	3.49	1.000	
24	3.49	1.340	
61	3.00	53.332	

190.00		Aluminum	
Lab	%Al <sub>2</sub> O <sub>3</sub>	ICP	
9	1.67	-3.127	
14	1.63	-1.563	
14	1.62	-1.117	
Std Dev	1.62	-1.000	
24	1.61	-0.670	
32	1.61	-0.670	
34	1.61	-0.670	
23	1.60	0.000	
23	1.60	0.000	
Median	1.60	0.000	
61	1.59	0.223	
24	1.58	0.670	
61	1.58	0.670	
Std Dev	1.57	1.000	
43	1.54	2.680	
43	1.52	3.350	
111	1.02	25.907	

190.99		Aluminum	
Lab	%Al <sub>2</sub> O <sub>3</sub>	Atomic Absorption	
31	1.57	0.000	
Median	1.57	0.000	

190.XX		Aluminum	
Lab	%Al <sub>2</sub> O <sub>3</sub>	Total Method	
9	1.67	-2.680	
14	1.63	-1.340	
Std Dev	1.62	-1.000	
14	1.62	-0.957	
24	1.61	-0.574	

32	1.61	-0.574	
34	1.61	-0.574	
23	1.60	0.000	
23	1.60	0.000	
Median	1.60	0.000	
61	1.59	0.191	
24	1.58	0.574	
61	1.58	0.574	
31	1.57	0.957	
Std Dev	1.57	1.000	
43	1.54	2.297	
43	1.52	2.871	
111	1.02	22.206	

191.30		Total Chromium	
Lab	PPM	ICP	
61	95.00	-0.999	
43	93.50	-0.646	
43	93.00	-0.529	
Median	90.75	0.000	
61	88.50	0.529	
31	87.40	0.788	
111	86.50	0.999	

191.99		Total Chromium	
Lab	PPM	Other	
24	88.90	0.000	
Median	88.90	0.000	

191.XX		Total Chromium	
Lab	PPM	Total Method	
61	95.00	-1.542	
43	93.50	-1.163	
43	93.00	-1.037	
Std Dev	92.86	-1.000	
24	88.90	0.000	
Median	88.90	0.000	
61	88.50	0.101	
31	87.40	0.379	
111	86.50	0.607	

202.30		Acid Soluble Cobalt	
Lab	PPM	ICP	
61			

202.99		Acid Soluble Cobalt	
Lab	PPM	Other	
24	2.77	0.000	
Median	2.77	0.000	

202.XX		Acid Soluble Cobalt	
Lab	PPM	Total Method	
61	3.50	-1.905	
Std Dev	3.21	-1.000	
43	3.00	-0.356	
43	3.00	-0.356	
Median	2.89	0.000	
24	2.77	0.356	
Std Dev	2.56	1.000	
61	2.50	1.193	
111	0.50	7.389	

221.00		Acid Soluble Copper	
Lab	PPM	Atomic Absorption	
219	1.40	0.000	
Median	1.40	0.000	

221.30		Acid Soluble Copper	
Lab	PPM	ICP	
61	<0.4	0.000	
61	<0.4	0.000	
111	22.00	-2.680	
Std Dev	10.40	-1.000	
43	3.50	0.000	
43	3.50	0.000	
Median	3.50	0.000	

221.99		Acid Soluble Copper	
Lab	PPM	Other	
24	4.60	0.000	
Median	4.60	0.000	

221.XX		Acid Soluble Copper	
Lab	PPM	Total Method	
61	<0.4	0.000	
61	<0.4	0.000	
111	22.00	-4.413	
Std Dev	8.12	-1.000	
24	4.60	-0.135	

Median	4.05	0.000	
43	3.50	0.135	
43	3.50	0.135	

241.30		Acid Soluble Iron	
Lab	%Fe <sub>2</sub> O <sub>3</sub>	ICP	
32	1.38	-1.734	
24	1.36	-1.104	
Std Dev	1.36	-1.000	
23	1.35	-0.788	
34	1.35	-0.788	
23	1.35	-0.631	
61	1.34	-0.473	
24	1.34	-0.315	
61	1.33	0.000	
Median	1.33	0.000	
9	1.32	0.315	
14	1.31	0.473	
14	1.31	0.631	
111	1.31	0.631	
Std Dev	1.29	1.000	
43	1.28	1.576	
43	1.27	1.892	
31	1.26	2.207	

241.XX		Acid Soluble Iron	
Lab	%Fe <sub>2</sub> O <sub>3</sub>	Total Method	
219	1.40	-1.965	
32	1.38	-1.489	
Std Dev	1.36	-1.000	
24	1.36	-0.893	
23	1.35	-0.596	
34	1.35	-0.596	
23	1.35	-0.447	
61	1.34	-0.298	
24	1.34	-0.149	
Median	1.33	0.000	
61	1.33	0.149	
9	1.32	0.447	
14	1.31	0.596	
14	1.31	0.744	
111	1.31	0.744	
Std Dev	1.30	1.000	
43	1.28	1.638	



43	1.27	1.936
31	1.26	2.233

251.30		Total Lead
Lab	PPM	ICP
61	1.50	-1.340
Std Dev	1.44	-1.000
43	1.25	0.000
43	1.25	0.000
Median	1.25	0.000
Std Dev	1.06	1.000
61	1.00	1.340
111	0.00	6.700

251.99		Total Lead
Lab	PPM	Other
24	1.40	0.000
Median	1.40	0.000

251.XX		Total Lead
Lab	PPM	Total Method
61	1.50	-1.131
Std Dev	1.47	-1.000
24	1.40	-0.656
43	1.25	0.000
43	1.25	0.000
Median	1.25	0.000
Std Dev	1.03	1.000
61	1.00	1.131
111	0.00	5.654

261.11		Acid Soluble Manganese
Lab	PPM	Atomic Absorption
219	334.80	0.000
Median	334.80	0.000

261.30		Acid Soluble Manganese
Lab	PPM	ICP
31	313.05	-1.340
Std Dev	312.16	-1.000
Median	309.53	0.000
Std Dev	306.89	1.000
111	306.00	1.340

261.99		Acid Soluble Manganese
Lab	PPM	Other
43	334.00	-1.546
43	332.00	-1.134
Std Dev	331.35	-1.000
24	326.50	0.000
Median	326.50	0.000
61	325.50	0.206
Std Dev	321.65	1.000
61	310.50	3.298

261.XX		Acid Soluble Manganese
Lab	PPM	Total Method
219	334.80	-0.587
43	334.00	-0.534
43	332.00	-0.400
24	326.50	-0.033
Median	326.00	0.000
61	325.50	0.033
31	313.05	0.864
Std Dev	311.01	1.000
61	310.50	1.034
111	306.00	1.334

281.00		Total Mercury
Lab	PPM	Atomic Absorption
275	0.00	-1.340
Std Dev	0.00	-1.000
Median	0.00	0.000
Std Dev	0.00	1.000
275	0.00	1.340

281.30		Total Mercury
Lab	PPM	ICP
24	<0.004	0.000
Median	0.00	0.000

281.XX		Total Mercury
Lab	PPM	Total Method
24	<0.004	0.000
275	0.00	-1.340
Std Dev	0.00	-1.000
Median	0.00	0.000
Std Dev	0.00	1.000

275	0.00	1.340
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289.30		Total Molybdenum
Lab	PPM	ICP
111	0.00	1.340

289.99		Total Molybdenum
Lab	PPM	Other
24	10.80	0.000
Median	10.80	0.000

289.XX		Total Molybdenum
Lab	PPM	Total Method
111	13.00	-3.726
24	10.80	-1.480
Std Dev	10.33	-1.000
61	9.50	-0.153
Median	9.35	0.000
43	9.20	0.153
43	9.15	0.204
Std Dev	8.37	1.000
61	8.00	1.378

291.30		Total Nickel
Lab	PPM	ICP
61	0.00	1.340

291.99		Total Nickel
Lab	PPM	Other
24	11.80	0.000
Median	11.80	0.000

291.XX		Total Nickel
Lab	PPM	Total Method
61	12.50	-2.513
24	11.80	-1.340
Std Dev	11.60	-1.000
43	11.00	0.000
43	11.00	0.000
Median	11.00	0.000
61	10.50	0.837

301.30		Total Selenium
Lab	PPM	ICP
24	0.96	-1.340
Std Dev	0.84	-1.000

Median	0.48	0.000
Std Dev	0.12	1.000
111	0.00	1.340

301.XX		Total Selenium
Lab	PPM	Total Method
24	0.96	-1.340
Std Dev	0.84	-1.000
Median	0.48	0.000
Std Dev	0.12	1.000
111	0.00	1.340

311.99		Sodium
Lab	%Na <sub>2</sub> O	Other
23	0.23	-2.233
23	0.22	-1.787
Std Dev	0.21	-1.000
24	0.21	-0.893
61	0.21	-0.893
24	0.20	0.000
111	0.20	0.000
Median	0.20	0.000
61	0.20	0.447
Std Dev	0.19	1.000
43	0.17	2.796
43	0.17	2.862

311.XX		Sodium
Lab	%Na <sub>2</sub> O	Total Method
23	0.23	-2.233
23	0.22	-1.787
Std Dev	0.21	-1.000
24	0.21	-0.893
61	0.21	-0.893
24	0.20	0.000
111	0.20	0.000
Median	0.20	0.000
61	0.20	0.447
Std Dev	0.19	1.000
43	0.17	2.796
43	0.17	2.862

321.00		Acid Soluble Zinc
Lab	PPM	Atomic Absorption

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219	50.12	0.000
Median	50.12	0.000

321.30		Acid Soluble Zinc	
Lab	PPM	ICP	
111	68.50	-3.697	
Std Dev	53.91	-1.000	
24	49.00	-0.092	
Median	48.50	0.000	
61	48.00	0.092	
Std Dev	43.09	1.000	
61	42.50	1.109	

321.99		Acid Soluble Zinc	
Lab		Other	
43	46.50	-1.340	
Std Dev	46.37	-1.000	
Median	46.00	0.000	
Std Dev	45.63	1.000	
43	45.50	1.340	

321.XX		Acid Soluble Zinc	
Lab	PPM	Total Method	
111	68.50	-7.722	
Std Dev	50.65	-1.000	
219	50.12	-0.797	
24	49.00	-0.377	
61	48.00	0.000	
Median	48.00	0.000	
43	46.50	0.565	
43	45.50	0.942	
Std Dev	45.35	1.000	
61	42.50	2.072	

325.10		Fluoride	
Lab	%	Electrode	
9	2.12	-1.266	
23	2.06	-0.844	
32	2.05	-0.767	
23	2.04	-0.691	
24	1.99	-0.307	
79	1.98	-0.230	
34	1.96	-0.077	
Median	1.95	0.000	

24	1.94	0.077
275	1.93	0.127
275	1.86	0.679
14	1.85	0.767
31	1.84	0.844
14	1.81	1.113
111	0.37	12.163

325.99		Fluoride	
Lab	%	Other	
61	1.99	-0.298	
61	1.98	0.000	
Median	1.98	0.000	
325	1.90	2.382	

325.XX		Fluoride	
Lab	%	Total Method	
9	2.12	-1.616	
23	2.06	-1.043	
32	2.05	-0.939	
23	2.04	-0.834	
24	1.99	-0.313	
61	1.99	-0.261	
79	1.98	-0.209	
61	1.98	-0.156	
34	1.96	0.000	
Median	1.96	0.000	
24	1.94	0.209	
275	1.93	0.276	
325	1.90	0.678	
275	1.86	1.027	
14	1.85	1.147	
31	1.84	1.251	
14	1.81	1.616	
111	0.37	16.633	