

# AFPC

**Sample**

**2010-03**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	4	17.45	0.06
Method Group 001.XX PCT			4	17.45	0.07
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	18.47	0.08
Total Nitrogen, Combustion	993.13	010.60	6	18.16	0.13
Total Nitrogen, Other		010.99	3	18.10	0.03
Method Group 010.XX PCT			11	18.13	0.17
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Spectrometric	978.02	020.20	11	46.52	0.20
Total Phosphate, ICP, Lithium	970.02	020.50	1	46.42	0.00
Method Group 020.XX PCT			12	46.52	0.23
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	10	0.36	0.16
Insoluble Phosphate, ICP		030.50	1	0.47	0.00
Method Group 030.XX PCT			11	0.37	0.18
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	9	46.01	0.36
Indirect Available Phosphate, ICP		040.50	1	46.10	0.00
Method Group 040.XX PCT			10	46.05	0.39
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Other		041.99	2	45.59	0.01
Method Group 041.XX PCT			2	45.59	0.01
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	10	41.16	0.29
Water Soluble Phosphate, Other		048.99	1	41.52	0.00
Method Group 048.XX PCT			11	41.18	0.38

**SOLUBLE POTASH AS K<sub>2</sub>O**

AFPC Check Sample  
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Soluble Potash, ICP(Oxalate)	050.50	2	0.11	0.00
Soluble Potash, Other	050.99	4	0.11	0.00
Method Group 050.XX PCT		6	0.11	0.00
<b>FREE WATER</b>				
Free Water, Vacuum Oven	965.08B 060.00	9	2.00	0.12
Free Water, Vacuum Desiccate	965.08A 060.10	2	2.07	0.14
Method Group 060.XX PCT		11	2.00	0.16
<b>ACID SOLUBLE CALCIUM AS CaO</b>				
Acid Soluble Calcium, ICP	101.30	11	0.21	0.01
Method Group 101.XX PCT		11	0.21	0.02
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>				
Acid Soluble Magnesium, ICP	121.30	11	1.11	0.04
Method Group 121.XX PCT		11	1.11	0.05
<b>SULFATE SULFUR (S)</b>				
Sulfur, Gravimetric	980.02(a) 144.01	2	1.59	0.04
Sulfur, Spectrometric	144.70	2	1.63	0.00
Sulfur, Other	144.99	7	1.63	0.04
Method Group 144.XX PCT		11	1.63	0.05
<b>TOTAL ARSENIC</b>				
Total Arsenic, ICP	980.02(b) 151.02	2	8	2.8
Method Group 151.XX PPM		2	8	3.5
<b>ACID SOLUBLE BORON</b>				
Acid Soluble Boron, Other	165.99	1	33	0.0
Method Group 165.XX PPM		1	33	0.0
<b>TOTAL CADMIUM</b>				
Total Cadmium, ICP	181.30	4	4	0.1
Total Cadmium, Other	181.99	1	3	0.0
Method Group 181.XX PPM		5	4	0.3
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>				
ICP, %		11	1.68	0.04
Method Group 190.XX PCT		11	1.68	0.05
<b>TOTAL CHROMIUM</b>				
Total Chromium, ICP	191.30	4	87	2.0

Total Chromium, Other		191.99	1	83	0.0
Method Group 191.XX PPM			5	86	2.1
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	3	3	0.4
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			4	3	0.3
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	3	4	0.2
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			4	4	0.2
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	11	1.38	0.03
Method Group 241.XX PCT			11	1.38	0.03
<b>TOTAL LEAD</b>					
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	0.1
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a	261.30	2	338	2.1
Acid Soluble Manganese, Other		261.99	3	313	7.8
Method Group 261.XX PPM			5	318	20.5
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	3	15	0.2
Total Molybdenum, Other		289.99	1	14	0.0
Method Group 289.XX PPM			4	15	0.3
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	3	15	0.8
Total Nickel, Other		291.99	1	15	0.0
Method Group 291.XX PPM			4	15	1.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.13	0.00
Sodium, Other		311.99	5	0.12	0.03
Method Group 311.XX PCT			6	0.13	0.03

**ACID SOLUBLE ZINC**

Acid Soluble Zinc, ICP	321.30	4	58.2	2.2
Method Group 321.XX PPM		4	58.2	2.7

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**FLUORIDE**

Volumetric	325.10	7	1.52	0.04
Distilled/Electrode	325.99	3	1.51	0.12
Method Group 325.XX PCT		10	1.51	0.06

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