

# AFPC

**Sample**

**2012-06**

**Grade**

**11-52-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, MgO distillation	920.03	001.10	1	11.66	0.00
Ammoniacal Nitrogen, Other		001.99	9	11.63	0.05
Method Group 001.XX PCT			10	11.63	0.08
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	11.69	0.03
Total Nitrogen, Salicylic	955.04d	010.12	1	11.45	0.00
Total Nitrogen, Combustion	993.13	010.60	21	11.58	0.13
Total Nitrogen, Other		010.99	1	11.61	0.00
Method Group 010.XX PCT			26	11.60	0.15
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	2	53.85	1.38
Total Phosphate, Spectrometric	978.02	020.20	20	53.62	0.35
Total Phosphate, ICP	970.03	020.40	1	52.43	0.00
Method Group 020.XX PCT			23	53.60	0.50
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.48	0.32
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.23	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.69	0.12
Method Group 030.XX PCT			15	0.53	0.42
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	13	53.01	0.24
Indirect Available Phosphate, Other		040.99	2	53.01	0.09
Method Group 040.XX PCT			15	53.01	0.26
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	2	52.09	0.01
Direct Available Phosphate, Spectrometric	960.03D	041.20	1	53.04	0.00
Direct Available Phosphate, Automated	978.01	041.40	2	54.38	1.32

Direct Available Phosphate, ICP		041.50	5	51.85	1.00
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	52.49	0.29
Method Group 041.XX PCT			15	52.49	0.56
<b>WATER SOLUBLE PHOSPHATE</b>					
Water Soluble Phosphate, Spectrometric	970.01	048.20	14	48.53	0.29
Water Soluble Phosphate, Other		048.99	2	48.80	0.16
Method Group 048.XX PCT			16	48.57	0.25
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, ICP(Oxalate)		050.50	2	0.21	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.19	0.00
Soluble Potash, Other		050.99	8	0.20	0.00
Method Group 050.XX PCT			11	0.21	0.01
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	13	0.66	0.10
Free Water, Vacuum Desiccate	965.08A	060.10	2	0.58	0.03
Free Water, Other		060.99	1	0.77	0.00
Method Group 060.XX PCT			16	0.66	0.14
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	15	0.26	0.02
Method Group 101.XX PCT			15	0.26	0.02
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	15	0.72	0.04
Method Group 121.XX PCT			15	0.72	0.05
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	1	1.61	0.00
Sulfur, Spectrometric		144.70	2	1.54	0.00
Sulfur, Other		144.99	10	1.52	0.02
Method Group 144.XX PCT			13	1.53	0.02
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	3	1.48	0.01
Method Group 145.XX PCT			3	1.48	0.01
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	6	14	1.2

Total Arsenic, Other	151.99	1	12	0.0
Method Group 151.XX PPM		7	14	1.7
<b>ACID SOLUBLE BORON</b>				
Acid Soluble Boron, Other	165.99	2	36	3.5
Method Group 165.XX PPM		2	36	4.3
<b>TOTAL CADMIUM</b>				
Total Cadmium, ICP	181.30	6	4	0.2
Total Cadmium, Other	181.99	1	4	0.0
Method Group 181.XX PPM		7	4	0.4
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>				
ICP, %		14	1.79	0.05
Water Soluble Chlorine, Other, %	190.99	1	2.00	0.00
Method Group 190.XX PCT		15	1.79	0.06
<b>TOTAL CHROMIUM</b>				
Total Chromium, ICP	191.30	9	91	3.7
Total Chromium, Other	191.99	1	101	0.0
Method Group 191.XX PPM		10	91	7.6
<b>ACID SOLUBLE COBALT</b>				
Acid Soluble Cobalt, ICP	202.30	6	3	0.0
Acid Soluble Cobalt, Other	202.99	1	3	0.0
Method Group 202.XX PPM		7	3	0.0
<b>ACID SOLUBLE COPPER</b>				
Acid Soluble Copper, Atomic Absorption	975.01 221.00	1	1	0.0
Acid Soluble Copper, ICP	221.30	4	1	0.8
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		5	2	1.2
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>				
Acid Soluble Iron, ICP	241.30	15	1.31	0.05
Method Group 241.XX PCT		16	1.31	0.06
<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

**ACID SOLUBLE MANGANESE**

Acid Soluble Manganese, ICP	972.02a	261.30	3	439	10.6
Acid Soluble Manganese, Other		261.99	6	445	38.3
Method Group 261.XX PPM			9	439	47.7

**TOTAL MOLYBDENUM**

Total Molybdenum, ICP		289.30	7	22	1.4
Total Molybdenum, Other		289.99	1	28	0.0
Method Group 289.XX PPM			8	23	1.8

**TOTAL NICKEL**

Total Nickel, ICP		291.30	7	12	1.1
Total Nickel, Other		291.99	1	17	0.0
Method Group 291.XX PPM			8	13	1.5

**SODIUM AS Na<sub>2</sub>O**

Sodium, Atomic Absorbtion	983.04	311.00	1	0.22	0.00
Sodium, Other		311.99	8	0.20	0.02
Method Group 311.XX PCT			9	0.20	0.03

**ACID SOLUBLE ZINC**

Acid Soluble Zinc, ICP		321.30	9	182.50	16.79
Method Group 321.XX %			9	182.50	20.45

**FLUORIDE**

Water Soluble Zinc, Atomic Absorption		325.00	1	1.70	0.00
Volumetric		325.10	10	1.70	0.06
Distilled/Electrode		325.99	2	1.79	0.02
Method Group 325.XX PCT			13	1.70	0.07