

# AFPC

**Sample**

**2011-03**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	7	17.94	0.12
Method Group 001.XX PCT			7	17.94	0.15
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	3	18.03	0.01
Total Nitrogen, Salicylic	955.04d	010.12	1	18.14	0.00
Total Nitrogen, Combustion	993.13	010.60	26	18.02	0.16
Total Nitrogen, Other		010.99	4	18.00	0.08
Method Group 010.XX PCT			34	18.02	0.18
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	1	46.45	0.00
Total Phosphate, Spectrometric	978.02	020.20	20	46.73	0.30
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.06	0.00
Method Group 020.XX PCT			22	46.69	0.44
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	14	0.13	0.08
Method Group 030.XX PCT			14	0.13	0.10
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	12	46.64	0.45
Method Group 040.XX PCT			12	46.64	0.55
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	46.16	0.88
Direct Available Phosphate, Automated	978.01	041.40	6	46.32	0.49
Direct Available Phosphate, ICP		041.50	5	45.99	0.09
Direct Available Phosphate, EDTA Extract	993.01	041.60	5	46.23	0.40
Direct Available Phosphate, Other		041.99	1	46.13	0.00
Method Group 041.XX PCT			21	46.09	0.63

**WATER SOLUBLE PHOSPHATE**

AFPC Check Sample  
03-2011

Water Soluble Phosphate, Spectrometric	970.01	048.20	15	42.80	0.40
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	42.97	0.00
Method Group 048.XX PCT			16	42.88	0.48
<b>SOLUBLE POTASH AS K<sub>2</sub>O</b>					
Soluble Potash, Atomic Absorption(Oxalate)		050.30	1	0.61	0.00
Soluble Potash, ICP(Oxalate)		050.50	2	0.20	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.16	0.00
Soluble Potash, Other		050.99	7	0.19	0.01
Method Group 050.XX PCT			11	0.20	0.01
<b>FREE WATER</b>					
Free Water, Vacuum Oven	965.08B	060.00	14	1.62	0.11
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.65	0.28
Method Group 060.XX PCT			16	1.62	0.11
<b>ACID SOLUBLE CALCIUM AS CaO</b>					
Acid Soluble Calcium, ICP		101.30	14	0.32	0.03
Method Group 101.XX PCT			14	0.32	0.04
<b>ACID SOLUBLE MAGNESIUM AS MgO</b>					
Acid Soluble Magnesium, ICP		121.30	15	1.00	0.05
Method Group 121.XX PCT			15	1.00	0.07
<b>SULFATE SULFUR (S)</b>					
Sulfur, Gravimetric	980.02(a)	144.01	2	2.25	0.02
Sulfur, Spectrometric		144.70	2	2.24	0.00
Sulfur, Other		144.99	7	2.22	0.20
Method Group 144.XX PCT			11	2.23	0.06
<b>TOTAL SULFUR (S)</b>					
Sulfur, Other		145.99	6	2.22	0.13
Method Group 145.XX PCT			6	2.22	0.16
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	6	12	1.2
Total Arsenic, Other		151.99	1	15	0.0
Method Group 151.XX PPM			7	12	1.8
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	2	70	1.2

Method Group 165.XX PPM		2	70	1.5
<b>TOTAL CADMIUM</b>				
Total Cadmium, Atomic Absorbtion	181.00	1	25	0.0
Total Cadmium, ICP	181.30	7	25	1.3
Total Cadmium, Other	181.99	2	1	0.0
Method Group 181.XX PPM		10	25	4.1
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>				
ICP, %		14	0.94	0.01
Method Group 190.XX PCT		14	0.94	0.01
<b>TOTAL CHROMIUM</b>				
Total Chromium, Atomic Absorbtion	191.00	1	278	0.0
Total Chromium, ICP	191.30	8	254	12.7
Total Chromium, Other	191.99	1	233	0.0
Method Group 191.XX PPM		10	254	21.7
<b>ACID SOLUBLE COBALT</b>				
Acid Soluble Cobalt, ICP	202.30	6	2	0.0
Acid Soluble Cobalt, Other	202.99	1	2	0.0
Method Group 202.XX PPM		7	2	0.0
<b>ACID SOLUBLE COPPER</b>				
Acid Soluble Copper, ICP	221.30	6	7	0.8
Acid Soluble Copper, Other	221.99	1	0	0.0
Method Group 221.XX PPM		7	7	0.7
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>				
Acid Soluble Iron, ICP	241.30	15	0.81	0.03
Method Group 241.XX PCT		15	0.81	0.04
<b>TOTAL LEAD</b>				
Total Lead, ICP	251.30	4	1	0.4
Total Lead, Other	251.99	1	1	0.0
Method Group 251.XX PPM		5	1	0.4
<b>ACID SOLUBLE MANGANESE</b>				
Acid Soluble Manganese, ICP	972.02a 261.30	4	106	38.0
Acid Soluble Manganese, Other	261.99	5	100	5.2
Method Group 261.XX PPM		9	105	8.0

**TOTAL MOLYBDENUM**

Total Molybdenum, ICP	289.30	6	7	0.4
Total Molybdenum, Other	289.99	1	7	0.0
Method Group 289.XX PPM		7	7	0.5

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**TOTAL NICKEL**

Total Nickel, ICP	291.30	7	31	2.3
Total Nickel, Other	291.99	1	28	0.0
Method Group 291.XX PPM		8	31	3.0

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

Sodium, Atomic Absorbtion	983.04	311.00	1	0.39	0.00
Sodium, Other		311.99	8	0.39	0.03
Method Group 311.XX PCT			9	0.39	0.03

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**ACID SOLUBLE ZINC**

Acid Soluble Zinc, ICP		321.30	7	213.0	36.8
Acid Soluble Zinc, Other		321.99	2	211.5	0.7
Method Group 321.XX PPM			9	212.5	20.8

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**FLUORIDE**

Volumetric		325.10	10	0.84	0.07
Distilled/Electrode		325.99	3	0.82	0.04
Method Group 325.XX PCT			13	0.82	0.08

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