

# AFPC

**Sample**

**2011-09**

**Grade**

**18-46-0**

	AOAC Ref.	Method #	# of Labs.	Grand Median	Std Dev
<b>AMMONIACAL NITROGEN</b>					
Ammoniacal Nitrogen, Other		001.99	7	18.35	0.09
Method Group 001.XX PCT			7	18.35	0.11
<b>NITROGEN FROM UREA</b>					
Nitrogen from Urea, Other		005.99	1	18.00	0.00
Method Group 005.XX PCT			1	18.00	0.00
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	18.29	0.04
Total Nitrogen, Combustion	993.13	010.60	23	18.40	0.11
Total Nitrogen, Other		010.99	6	18.44	0.07
Method Group 010.XX PCT			31	18.41	0.15
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	3	45.70	0.59
Total Phosphate, Spectrometric	978.02	020.20	18	46.55	0.26
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	46.81	0.00
Total Phosphate, ICP	970.03	020.40	2	46.06	0.35
Method Group 020.XX PCT			24	46.54	0.35
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	12	0.06	0.03
Insoluble Phosphate, Automated	978.01	030.40	1	0.07	0.00
Insoluble Phosphate, ICP		030.50	1	0.03	0.00
Method Group 030.XX PCT			14	0.06	0.03
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	12	46.51	0.28
Indirect Available Phosphate, Automated	960.02	040.40	1	46.51	0.00
Indirect Available Phosphate, Other		040.99	1	46.48	0.00
Method Group 040.XX PCT			14	46.51	0.28

**DIRECT AVAILABLE PHOSPHATE**

AFPC Check Sample  
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Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	46.40	0.11
Direct Available Phosphate, Automated	978.01	041.40	3	46.85	0.75
Direct Available Phosphate, ICP		041.50	5	46.36	0.57
Direct Available Phosphate, EDTA Extract	993.01	041.60	2	46.38	0.01
Method Group 041.XX PCT			13	46.37	0.24

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**WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Spectrometric	970.01	048.20	12	44.15	0.34
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	43.54	0.00
Water Soluble Phosphate, Other		048.99	2	44.26	0.11
Method Group 048.XX PCT			15	44.11	0.48

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

Soluble Potash, ICP(Oxalate)		050.50	2	0.19	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.18	0.00
Soluble Potash, Other		050.99	8	0.18	0.00
Method Group 050.XX PCT			11	0.18	0.01

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**FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	13	1.50	0.09
Free Water, Vacuum Desiccate	965.08A	060.10	2	2.22	0.15
Free Water, Other		060.99	1	1.04	0.00
Method Group 060.XX PCT			16	1.50	0.14

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**ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, ICP		101.30	15	0.45	0.02
Method Group 101.XX PCT			15	0.45	0.03

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**ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, ICP		121.30	15	1.26	0.05
Method Group 121.XX PCT			15	1.26	0.06

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**SULFATE SULFUR (S)**

Sulfur, Gravimetric	980.02(a)	144.01	3	2.10	0.10
Sulfur, Spectrometric		144.70	2	2.20	0.01
Sulfur, Other		144.99	7	2.19	0.04
Method Group 144.XX PCT			12	2.19	0.05

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**TOTAL SULFUR (S)**

Sulfur, Other		145.99	4	2.23	0.04
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Method Group 145.XX PCT			4	2.23	0.04
<b>TOTAL ARSENIC</b>					
Total Arsenic, ICP	980.02(b)	151.02	5	1	1.9
Method Group 151.XX PPM			5	1	2.4
<b>ACID SOLUBLE BORON</b>					
Acid Soluble Boron, Other		165.99	2	85	4.0
Method Group 165.XX PPM			2	85	4.9
<b>TOTAL CADMIUM</b>					
Total Cadmium, ICP		181.30	6	25	0.7
Total Cadmium, Other		181.99	2	26	0.1
Method Group 181.XX PPM			8	26	1.2
<b>ALUMINUM AS Al<sub>2</sub>O<sub>3</sub></b>					
ICP, %			14	0.47	0.01
Method Group 190.XX PCT			14	0.47	0.02
<b>TOTAL CHROMIUM</b>					
Total Chromium, ICP		191.30	7	240	5.5
Total Chromium, Other		191.99	1	235	0.0
Method Group 191.XX PPM			8	239	8.1
<b>ACID SOLUBLE COBALT</b>					
Acid Soluble Cobalt, ICP		202.30	5	1	0.0
Acid Soluble Cobalt, Other		202.99	1	1	0.0
Method Group 202.XX PPM			6	1	0.0
<b>ACID SOLUBLE COPPER</b>					
Acid Soluble Copper, ICP		221.30	2	2	0.4
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			3	2	0.7
<b>ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub></b>					
Acid Soluble Iron, ICP		241.30	14	0.61	0.01
Acid Soluble Iron, Other		241.99	1	0.59	0.00
Method Group 241.XX PCT			15	0.61	0.01
<b>TOTAL LEAD</b>					
Total Lead, ICP		251.30	1	1	0.0
Total Lead, Other		251.99	1	0	0.0

Method Group 251.XX PPM			2	1	0.3
<b>ACID SOLUBLE MANGANESE</b>					
Acid Soluble Manganese, ICP	972.02a	261.30	2	32	0.2
Acid Soluble Manganese, Other		261.99	5	35	4.5
Method Group 261.XX PPM			7	32	4.2
<b>TOTAL MOLYBDENUM</b>					
Total Molybdenum, ICP		289.30	7	3	0.5
Total Molybdenum, Other		289.99	1	4	0.0
Method Group 289.XX PPM			8	4	0.6
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	7	10	0.7
Total Nickel, Other		291.99	1	12	0.0
Method Group 291.XX PPM			8	10	1.1
<b>TOTAL SELENIUM</b>					
Total Selenium, ICP		301.30	2	1	0.7
Method Group 301.XX PPM			2	1	0.9
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.30	0.00
Sodium, Other		311.99	8	0.29	0.03
Method Group 311.XX PCT			9	0.30	0.03
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP		321.30	7	308.0	20.5
Acid Soluble Zinc, Other		321.99	2	311.8	1.3
Method Group 321.XX %			9	310.0	21.0
<b>FLUORIDE</b>					
Volumetric		325.10	9	1.32	0.06
Distilled/Electrode		325.99	3	1.28	0.05
Method Group 325.XX PCT			12	1.29	0.08