

# AFPC

## Sample

2011-02

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	11.26	0.00
Ammoniacal Nitrogen, Other		001.99	10	11.14	0.13
Method Group 001.XX PCT			11	11.16	0.15
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Modified Comprehensive	978.02	010.11	2	11.25	0.01
Total Nitrogen, Salicylic	955.04d	010.12	1	11.31	0.00
Total Nitrogen, Combustion	993.13	010.60	20	11.15	0.13
Total Nitrogen, Other		010.99	3	11.21	0.18
Method Group 010.XX PCT			26	11.20	0.18
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	2	52.61	0.41
Total Phosphate, Spectrometric	978.02	020.20	18	52.92	0.22
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	53.29	0.00
Method Group 020.XX PCT			21	52.97	0.30
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	14	0.12	0.06
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.14	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.14	0.00
Method Group 030.XX PCT			16	0.13	0.06
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	15	52.89	0.23
Indirect Available Phosphate, Other		040.99	1	53.00	0.00
Method Group 040.XX PCT			16	52.89	0.28
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	3	53.09	0.58
Direct Available Phosphate, Automated	978.01	041.40	3	53.09	0.40
Direct Available Phosphate, ICP		041.50	3	51.45	0.67

Direct Available Phosphate, EDTA Extract	993.01	041.60	1	53.35	0.00
Method Group 041.XX PCT			10	52.81	1.18

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**WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Spectrometric	970.01	048.20	14	47.78	0.36
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	47.97	0.00
Water Soluble Phosphate, Other		048.99	1	47.98	0.00
Method Group 048.XX PCT			16	47.91	0.44

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

Soluble Potash, ICP(Oxalate)		050.50	2	0.10	0.00
Soluble Potash, Other		050.99	7	0.11	0.01
Method Group 050.XX PCT			9	0.11	0.01

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**FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	15	2.17	0.15
Free Water, Vacuum Desiccate	965.08A	060.10	3	2.26	0.14
Method Group 060.XX PCT			18	2.18	0.22

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**ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, ICP		101.30	15	0.53	0.02
Method Group 101.XX PCT			15	0.53	0.03

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**ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, ICP		121.30	15	0.96	0.03
Method Group 121.XX PCT			15	0.96	0.03

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**SULFATE SULFUR (S)**

Sulfur, Gravimetric	980.02(a)	144.01	3	1.37	0.02
Sulfur, Spectrometric		144.70	2	1.39	0.00
Sulfur, Other		144.99	7	1.38	0.03
Method Group 144.XX PCT			12	1.38	0.03

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**TOTAL SULFUR (S)**

Sulfur, Other		145.99	5	1.40	0.11
Method Group 145.XX PCT			5	1.40	0.13

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**TOTAL ARSENIC**

Total Arsenic, Atomic Absorbtion	980.02(a)	151.01	1	21	0.0
Total Arsenic, ICP	980.02(b)	151.02	4	23	1.3
Method Group 151.XX PPM			5	22	2.0

**ACID SOLUBLE BORON**

Acid Soluble Boron, Other	165.99	1	30	0.0
Method Group 165.XX PPM		1	30	0.0

**TOTAL CADMIUM**

Total Cadmium, Atomic Absorbtion	181.00	1	122	0.0
Total Cadmium, ICP	181.30	7	146	5.2
Method Group 181.XX PPM		8	144	7.6

**ALUMINUM AS Al<sub>2</sub>O<sub>3</sub>**

ICP, %		13	1.74	0.09
Water Soluble Chlorine, Other, %	190.99	1	1.69	0.00
Method Group 190.XX PCT		14	1.74	0.09

**TOTAL CHROMIUM**

Total Chromium, Atomic Absorbtion	191.00	1	580	0.0
Total Chromium, ICP	191.30	8	560	28.2
Method Group 191.XX PPM		9	562	27.2

**ACID SOLUBLE COBALT**

Acid Soluble Cobalt, ICP	202.30	7	4	0.0
Method Group 202.XX PPM		7	4	0.0

**ACID SOLUBLE COPPER**

Acid Soluble Copper, ICP	221.30	6	67	2.6
Method Group 221.XX PPM		6	67	3.2

**ACID SOLUBLE IRON AS Fe<sub>2</sub>O<sub>3</sub>**

Acid Soluble Iron, ICP	241.30	15	1.14	0.03
Method Group 241.XX PCT		15	1.14	0.04

**TOTAL LEAD**

Total Lead, Atomic Absorbtion	251.00	1	3	0.0
Total Lead, ICP	251.30	4	3	0.0
Method Group 251.XX PPM		5	3	0.0

**ACID SOLUBLE MANGANESE**

Acid Soluble Manganese, ICP	972.02a 261.30	4	181	4.1
Acid Soluble Manganese, Other	261.99	4	186	13.1
Method Group 261.XX PPM		8	181	8.7

**TOTAL MOLYBDENUM**

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Total Molybdenum, ICP		289.30	7	13	1.3
Method Group 289.XX PPM			7	13	1.6
<b>TOTAL NICKEL</b>					
Total Nickel, ICP		291.30	7	240	10.7
Method Group 291.XX PPM			7	240	13.0
<b>SODIUM AS Na<sub>2</sub>O</b>					
Sodium, Atomic Absorbtion	983.04	311.00	1	0.10	0.00
Sodium, Other		311.99	8	0.09	0.01
Method Group 311.XX PCT			9	0.09	0.01
<b>ACID SOLUBLE ZINC</b>					
Acid Soluble Zinc, ICP		321.30	6	1789.3	49.7
Acid Soluble Zinc, Other		321.99	2	1689.8	3.9
Method Group 321.XX PPM			8	1780.5	58.2
<b>FLUORIDE</b>					
Volumetric		325.10	11	1.35	0.06
Distilled/Electrode		325.99	2	1.24	0.00
Method Group 325.XX PCT			13	1.33	0.12