

# AFPC

## Sample

2011-06

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	2	11.13	0.09
Ammoniacal Nitrogen, Other		001.99	11	11.65	0.07
Method Group 001.XX PCT			13	11.64	0.17
<b>TOTAL NITROGEN</b>					
Total Nitrogen, Salicylic	955.04d	010.12	2	11.57	0.01
Total Nitrogen, Combustion	993.13	010.60	22	11.59	0.20
Total Nitrogen, Other		010.99	3	11.68	0.09
Method Group 010.XX PCT			27	11.58	0.23
<b>TOTAL PHOSPHATE</b>					
Total Phosphate, Gravimetric Quimociac		020.10	2	52.75	0.45
Total Phosphate, Spectrometric	978.02	020.20	18	53.73	0.31
Total Phosphate, Alka. Quimociac	955.04d	020.30	1	53.61	0.00
Total Phosphate, ICP	970.03	020.40	1	53.75	0.00
Total Phosphate, Other	993.13	020.99	1	55.42	0.00
Method Group 020.XX PCT			23	53.71	0.47
<b>INSOLUBLE PHOSPHATE</b>					
Insoluble Phosphate, Spectrometric	963.03C(b)	030.20	11	0.56	0.16
Insoluble Phosphate, Alka. Quimociac	963.03C(c)	030.30	1	0.14	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.52	0.03
Method Group 030.XX PCT			14	0.53	0.12
<b>INDIRECT AVAILABLE PHOSPHATE</b>					
Indirect Available Phosphate, Spectrometric	960.02	040.20	11	53.17	0.11
Indirect Available Phosphate, Automated	960.02	040.40	1	53.33	0.00
Indirect Available Phosphate, Other		040.99	1	53.49	0.00
Method Group 040.XX PCT			13	53.18	0.18
<b>DIRECT AVAILABLE PHOSPHATE</b>					
Direct Available Phosphate, Gravimetric Quimociac	960.03E	041.10	4	52.21	0.36

Direct Available Phosphate, Automated	978.01	041.40	4	53.20	0.32
Direct Available Phosphate, ICP		041.50	5	52.55	0.96
Direct Available Phosphate, EDTA Extract	993.01	041.60	4	52.60	0.44
Direct Available Phosphate, Other		041.99	1	54.80	0.00
Method Group 041.XX PCT			18	52.59	1.03

---

**WATER SOLUBLE PHOSPHATE**

Water Soluble Phosphate, Spectrometric	970.01	048.20	13	48.80	0.35
Water Soluble Phosphate, Alka. Quimociac	964.04	048.30	1	47.71	0.00
Water Soluble Phosphate, Other		048.99	1	48.56	0.00
Method Group 048.XX PCT			15	48.73	0.46

---

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

Soluble Potash, ICP(Oxalate)		050.50	2	0.22	0.00
Soluble Potash, ICP(Citrate)		050.51	1	0.14	0.00
Soluble Potash, Other		050.99	5	0.21	0.01
Method Group 050.XX PCT			8	0.21	0.02

---

**FREE WATER**

Free Water, Vacuum Oven	965.08B	060.00	13	0.73	0.11
Free Water, Vacuum Desiccate	965.08A	060.10	3	0.76	0.15
Method Group 060.XX PCT			16	0.74	0.14

---

**ACID SOLUBLE CALCIUM AS CaO**

Acid Soluble Calcium, ICP		101.30	13	0.28	0.03
Method Group 101.XX PCT			13	0.28	0.04

---

**ACID SOLUBLE MAGNESIUM AS MgO**

Acid Soluble Magnesium, ICP		121.30	13	0.74	0.03
Method Group 121.XX PCT			13	0.74	0.04

---

**WATER SOLUBLE MAGNESIUM**

Water Soluble Magnesium, Atomic Absorption	965.09	131.00	1	1.18	0.00
Method Group 131.XX PCT			1	1.18	0.00

---

**SULFATE SULFUR (S)**

Sulfur, Gravimetric	980.02(a)	144.01	3	1.54	0.03
Sulfur, Spectrometric		144.70	1	1.21	0.00
Sulfur, Other		144.99	8	1.52	0.08
Method Group 144.XX PCT			12	1.53	0.09

**TOTAL SULFUR (S)**

Sulfur, Other		145.99	3	1.43	0.47
Method Group 145.XX PCT			3	1.43	0.58

**TOTAL ARSENIC**

Total Arsenic, Atomic Absorbtion	980.02(a)	151.01	1	11.90	0.0
Total Arsenic, ICP	980.02(b)	151.02	5	12	0.5
Method Group 151.XX PPM			6	12	0.5

**ACID SOLUBLE BORON**

Acid Soluble Boron, Spectrometric	982.02	165.00	1	310	0.0
Acid Soluble Boron, Other		165.99	2	29	2.8
Method Group 165.XX PPM			3	33	129.4

**TOTAL CADMIUM**

Total Cadmium, Atomic Absorbtion		181.00	1	3	0.0
Total Cadmium, ICP		181.30	5	3	0.7
Total Cadmium, Other		181.99	1	4	0.0
Method Group 181.XX PPM			7	3	0.6

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

ICP, %			11	1.78	0.04
Water Soluble Chlorine, Other, %		190.99	1	1.69	0.00
Method Group 190.XX PCT			12	1.77	0.06

**TOTAL CHROMIUM**

Total Chromium, Atomic Absorbtion		191.00	1	80	0.0
Total Chromium, ICP		191.30	7	95	30.7
Total Chromium, Other		191.99	1	90	0.0
Method Group 191.XX PPM			9	95	5.7

**ACID SOLUBLE COBALT**

Acid Soluble Cobalt, ICP		202.30	5	3	0.6
Acid Soluble Cobalt, Other		202.99	1	3	0.0
Method Group 202.XX PPM			6	3	0.8

**ACID SOLUBLE COPPER**

Acid Soluble Copper, ICP		221.30	4	4	3.1
Acid Soluble Copper, Other		221.99	1	0	0.0
Method Group 221.XX PPM			5	4	1.6

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

Acid Soluble Iron, ICP		241.30	13	1.35	0.03
Method Group 241.XX PCT			13	1.35	0.04

**TOTAL LEAD**

Total Lead, Atomic Absorbtion		251.00	1	1	0.0
Total Lead, ICP		251.30	2	0	0.0
Total Lead, Other		251.99	1	1	0.0
Method Group 251.XX PPM			4	1	0.3

**ACID SOLUBLE MANGANESE**

Acid Soluble Manganese, ICP	972.02a	261.30	5	420	15.8
Acid Soluble Manganese, Other		261.99	3	426	8.0
Method Group 261.XX PPM			8	423	19.2

**TOTAL MOLYBDENUM**

Total Molybdenum, ICP		289.30	5	21	2.6
Total Molybdenum, Other		289.99	1	23	0.0
Method Group 289.XX PPM			6	22	2.8

**TOTAL NICKEL**

Total Nickel, ICP		291.30	6	13	0.6
Total Nickel, Other		291.99	1	12	0.0
Method Group 291.XX PPM			7	13	1.1

**TOTAL SELENIUM**

Total Selenium, ICP		301.30	1		0.0
Method Group 301.XX PPM			1	0	0.0

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

Sodium, Atomic Absorbtion	983.04	311.00	1	0.20	0.00
Sodium, Other		311.99	7	0.21	0.02
Method Group 311.XX PCT			8	0.21	0.02

**ACID SOLUBLE ZINC**

Acid Soluble Zinc, ICP		321.30	8	179.50	12.29
Method Group 321.XX %			8	179.50	14.97

**FLUORIDE**

Volumetric		325.10	9	1.75	0.08
Electrode	AFPC	325.30	1	1.74	0.00

AFPC Check Sample  
06-2011

Distilled/Electrode	325.99	3	1.77	0.16
Method Group 325.XX PCT		13	1.75	0.07

---